WACHTER

1419 WEST MONROE AVENUE
LOWELL, AR 72745



IFP

2026.09.11

PROJECT LOCATION
1419 WEST MONROE AVENUE
LOWELL, AR 72745

ARCHITECT
MODUS STUDIO
15 N. CHURCH AVENUE #102
FAYETTEVILLE, AR 72701

SYMBOLS LEGEND.

- DETAIL GRID LOCATION
- DETAIL NAME
- SCALE
- REFERENCE SHEET
- REFERENCE DETAIL GRID LOCATION
- BUILDING ELEVATION
- DETAIL / SHEET NUMBER
- INTERIOR ELEVATION
- BUILDING SECTION
- WALL / DETAIL SECTION
- CALLOUT DETAIL
- WALL TYPE
- FLOOR / ROOF TYPE
- OPENING FRAME TYPE
- DOOR NUMBER
- SURFACE ELEVATION
- SPOT ELEVATION
- REVISION (DELTA)
- MATERIAL OR SYSTEM KEYNOTE
- CORRELATING SPECIFICATION SECTION
- ROOM NAME / ROOM NUMBER / ROOM AREA
- ROOM NUMBER
- CEILING FINISH
- CEILING HEIGHT

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SHEET INDEX

SHEET #	SHEET NAME

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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HP ENGINEERING
IMEG

ESI

wachter

NOT FOR CONSTRUCTION

WACHTER

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS, WITHOUT EXCEPTION. **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

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COVER SHEET

design. CD
date. 2026.09.11
project. 25.18

G0.00

GENERAL PROJECT + CONSTRUCTION NOTES.

THE FOLLOWING SERIES OF PROJECT NOTES ARE FULLY APPLICABLE TO THE PROJECT AND ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. BY ENGAGING IN THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES THAT THEY HAVE COMPLETELY READ ALL OF THE GENERAL NOTES FOR THIS PROJECT. FURTHERMORE, IT IS THE CONTRACTOR 'S OBLIGATION TO ENSURE ALL SUBCONTRACTORS ARE ACCOUNTABLE AND SUBJECT TO THE REQUIREMENTS ESTABLISHED BELOW. IT IS IMPERATIVE THAT THE CONTRACTOR HAVE A DEEP UNDERSTANDING OF THE PROJECT GOALS AND CONCEPTS. THE CONTRACTOR SHALL REQUEST A PRESENTATION OF THE DESIGN OF THE PROJECT TO BE PROVIDED BY THE ARCHITECT TO ENSURE THAT THE CONTRACTOR UNDERSTANDS THE OVERALL PRINCIPLES OF THE PROJECT, INCLUDING THE OWNER 'S GOALS. THIS IS A MANDATORY REQUIREMENT.

DIVISION 00

1. PROCUREMENT AND CONTRACTING REQUIREMENTS:
2. REFER TO AIA 701-2018 INSTRUCTIONS TO BIDDERS AND ITS EXHIBITS OR ATTACHEMENTS FOR ALL REQUIREMENTS RELATIVE TO THE BIDDING OF THIS PROJECT. ALL OF THE ENCLOSED DOCUMENTS WITHIN THIS DRAWING PACKAGE ARE SUBJECT TO THE REQUIREMENTS DEFINED BY THE INSTRUCTIONS TO BIDDERS.

DIVISION 01

GENERAL PROJECT REQUIREMENTS:

1. THESE DOCUMENTS ARE THE EXCLUSIVE PROPERTY OF MODUS STUDIO, PLLC. AND ARE INTENDED ONLY FOR USE IN THE CONSTRUCTION OF THIS PROJECT. ANY OTHER USE OF THESE DOCUMENTS SHALL BE PERMITTED ONLY WITH THE SPECIFIC WRITTEN CONSENT OF MODUS STUDIO, PLLC. REVISIONS OR MODIFICATIONS MAY NOT BE MADE TO THESE DOCUMENTS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ARCHITECT. ANY REVISIONS AND/OR MODIFICATIONS MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT WILL SERVE TO HOLD MODUS STUDIO, PLLC HARMLESS FROM ANY COSTS, CLAIMS OR LIABILITY SPECIFICALLY RELATING TO THE CHANGE.
2. DRAWINGS ARE BASED ON AVAILABLE SURVEY CONDITIONS PER THE **ENGINEERING SERVICES, INC. (ESI) SURVEY DATED [MONTH XX, 20XX]**. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DOCUMENTS.
3. CONTRACTOR TO PROVIDE PROJECT CONTROL POINT(S) AND SURVEYING AND STAKING OF PROPOSED LAYOUTS FOR REVIEW AND APPROVAL BY THE ARCHITECT, ARCHITECT'S CONSULTANTS, AND OWNER PRIOR TO MOBILIZATION AND EXCAVATION.
4. ANY ERRORS, OMISSIONS, INCONSISTENCIES, OR DISCREPANCIES DISCOVERED IN THE ENTIRE CONTRACT DOCUMENTS, OR ANY VARIATIONS OR AMBIGUITIES BETWEEN THESE DRAWINGS AND ACTUAL SITE AND CONSTRUCTION CONDITIONS AND/OR REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
5. ALL 'TYPICAL' DETAILS ARE PROVIDED TO ENSURE COMPLIANCE WITH INDUSTRY STANDARD BUILDING PRACTICES AND ARE APPLICABLE TO THE PROJECT AS THE BASELINE LEVEL OF CONSTRUCTABILITY. IF THERE ARE ANY QUESTIONS BY ANY CONTRACTOR OR SUBCONTRACTOR AS TO THE USE AND APPLICATION OF THE TYPICAL DETAIL IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO PROVIDE A REQUEST FOR INFORMATION TO THE ARCHITECT FOR CLARIFICATION. FAILURE TO SEEK INFORMATION PRIOR TO CONSTRUCTION IS A FAILURE OF THE CONTRACTOR OR SUBCONTRACTOR TO CONFORM TO THE CONTRACT DOCUMENTS.
6. DO NOT SCALE DIMENSIONS FROM DRAWINGS, CONTACT ARCHITECT TO REQUEST FURTHER INFORMATION.
7. FIELD VERIFY ALL ROUGH-IN DIMENSIONS FOR BUILDING COMPONENTS PRIOR TO FABRICATION AND/OR INSTALLATION.
8. ALL ELEMENTS OF THE PROJECT ARE BY DEFAULT (AND PER NORMAL INDUSTRY CONSTRUCTION STANDARDS BY WHICH ALL MEMBERS OF THE CONSTRUCTION TEAM ARE BOUND TO) INTENDED TO SLOPE WATER DOWN AND AWAY FROM THE ROOF, WALL, FOUNDATION AND ANY OTHER PORTION OF THE PROJECT AT 1/8" PER FOOT MINIMUM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ANY AREAS OF CONCERN AND RESOLUTION.
9. MOCKUPS WILL BE REQUIRED FOR ALL SITE AND BUILDING FINISHES FOR APPROVAL BY ARCHITECT AND OWNER PRIOR TO FULL INSTALLATION. THESE MOCKUPS MAY BE 'IN-PLACE' MOCKUPS OR FREESTANDING MOCKUPS AS AGREED UPON BY OWNER AND ARCHITECT AND CONTRACTOR.
10. FULL SCALE MOCKUPS ARE REQUIRED FOR BOTH EXTERIOR AND INTERIOR BUILDING CONDITIONS: CONTRACTOR WILL CONSTRUCT FULL SIZE PHYSICAL ASSEMBLIES ON SITE AND SEPARATE FROM THE ACTUAL BUILDINGS. THE MOCKUP SHALL BE A MINIMUM VOLUME OF 10' X 10' X 10' AND INCLUSIVE OF ALL APPLICABLE CORNER CONDITIONS OF THE BUILDING ENVELOPE. THE MOCKUP WILL INCLUDE A MINIMUM OF ONE WINDOW TYPE AND ONE EXTERIOR DOOR TYPE AND SHALL ADDRESS A ROOF PARAPET OR ROOF OVERHANG CONDITION. MOCKUP SHALL BE REPRESENTATIVE OF ALL ENVELOPE FINISH MATERIALS, SUBSTRATE, WATERPROOFING, FLASHING, TRIMS, AND AIR BARRIERS, AS DESIGNED AND AS SELECTED THROUGH THE SUBMITTAL SAMPLE PROCESS. SPECIFIC FRAMING/BLOCKING CONDITIONS ARE ALSO PART OF THE MOCKUP AND THE MOCKUP SHALL BE CONSTRUCTED ACCORDING TO THE STRUCTURAL DRAWINGS AND APPROVED SHOPS. MOCKUPS ARE CONSTRUCTED TO DEMONSTRATE AESTHETIC EFFECTS, QUALITIES OF MATERIALS AND EXECUTION; TO REVIEW COORDINATION, TESTING, OR OPERATION; TO SHOW INTERFACE BETWEEN DISSIMILAR MATERIALS; AND TO DEMONSTRATE COMPLIANCE WITH SPECIFIED INSTALLATION TOLERANCES. MOCKUPS ARE NOT SAMPLES. UNLESS OTHERWISE INDICATED, APPROVED MOCKUPS ESTABLISH THE STANDARD BY WHICH ALL WORK WILL BE JUDGED AND THE MOCKUP MUST BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO BEGINNING ANY OF THE WORK ON THE ENVELOPE. ARCHITECT WILL PROVIDE A SUPPLEMENTAL DRAWING OUTLINING THE CORNER/EXTENTS OF THE MOCKUP PRIOR TO CONSTRUCTION OF THE MOCKUP.
11. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL NOTES, DIMENSIONS, AND INFORMATION.
12. ALL MECHANICAL, ELECTRICAL, PLUMBING VENTS, CONDUIT, EQUIPMENT AND ACCESSORIES TO BE INSTALLED CAREFULLY, PLUMB, AND TRUE AND LOCATIONS COORDINATED WITH ARCHITECT BEFORE PREPARATION FOR INSTALLATION. THIS INCLUDES ANY VENTS, LOUVERS, OR OTHER PROTRUSIONS THAT WILL BE VISIBLE ON THE FAÇADE OR ROOF OF ANY BUILDING.
13. **VERIFY ALL COLORS AND FINISHES WITH ARCHITECT PRIOR TO ANY FABRICATION, INSTALLATION, OR APPLICATION OF ANY MATERIAL. UNVERIFIED WORK IS SUBJECT TO REMOVAL AND REWORK AT THE ARCHITECT 'S DISCRETION AND AT NO COST TO THE OWNER.**
14. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED FOR SAFE EXECUTION AND COMPLETION OF WORK, AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL CONTRACTORS SHALL INDEMNIFY THE ARCHITECT AND ARCHITECT'S CONSULTANTS FROM ALL CLAIMS OR LIABILITY RELATIVE TO MEANS AND METHODS.
15. THE CONTRACTOR SHALL PROTECT ALL WORK FROM ANY WEATHER, WATER, OR OTHER MOISTURE CONDITIONS THAT WOULD COMPROMISE THE INTEGRITY OF THE COMPONENT, STRUCTURAL ELEMENT, OR FINISH. IT IS SOLELY THE CONTRACTOR AND SUBCONTRACTORS DUTIES TO ENSURE THE ITEMS THEY PROVIDE AND INSTALL FOLLOW ALL MANUFACTURER 'S REQUIREMENTS FOR STORAGE, PROTECTION, AND INSTALLATION THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT AND ANY ITEMS NOT MEETING THESE REQUIREMENTS WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND/OR SUBCONTRACTORS.
16. ALL EXCESS MATERIAL FOR THE PROJECT IS TO BE ORGANIZED AND STOCKPILED BY THE CONTRACTOR IN A PROTECTED LOCATION (SHIPPING CONTAINER OR OTHERWISE) TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT UNLESS THE OWNER/CONTRACTOR AGREEMENT STATES OTHERWISE.
17. AT THE CULMINATION OF THE PROJECT, THE ARCHITECT WILL PROVIDE (1) PUNCH LIST WALKTHROUGH OF AREAS THAT THE CONTRACTOR HAS DEEMED AS 'SUBSTANTIALLY COMPLETE.' IN ANTICIPATION OF RECEIVING A COMPLETED AIA G704-2017 CERTIFICATE OF SUBSTANTIAL COMPLETION. THIS MEANS THAT THE CONTRACTOR WILL HAVE DOCUMENTED AND PERFORMED THEIR OWN PUNCH LIST OF THEIR OWN WORK PRIOR TO ASKING THE ARCHITECT AND OWNER TO OBSERVE THE WORK. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT AND OWNER THIS PUNCH LIST OF KNOWN ITEMS TO BE REMEDIED BY THE CONTRACTOR. THE ARCHITECT WILL THEN REVIEW THE PROVIDED PUNCH LIST AND ADD ANY ITEMS AS IDENTIFIED AT THE SOLE DISCRETION OF THE ARCHITECT THAT MUST BE COMPLETED, REMEDIED, OR REPLACED IN ORDER TO COMPLY WITH THE CONTRACT DOCUMENTS. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY NONCONFORMING WORK AND RESERVES THE RIGHT TO INVOICE THE CONTRACTOR FOR ADDITIONAL SERVICES FOR ANY SPACE, UNIT, BUILDING, OR AREAS THAT REQUIRES MORE THAN (1) PUNCH LIST WALK TO BE PERFORMED. IT IS UNDERSTOOD BY ALL PARTIES THAT (1) FOLLOW UP WALKTHROUGH MAY BE REQUESTED FOR CONFIRMATION THAT PUNCH LIST ITEMS ARE COMPLETE. **HOWEVER, IT IS SIMPLY UNACCEPTABLE FOR THE CONTRACTOR AND SUBCONTRACTORS TO EXPECT A FINAL PUNCH LIST WALKTHROUGH OF BUILDINGS THAT ARE CLEARLY NOT AT THE REQUIRED LEVEL OF COMPLETION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATIVE TO PROJECT CLOSEOUT.**
18. ULTIMATELY THE CONTRACTOR IS PROVIDING A COMPLETE AND FINISHED SITE TO THE OWNER, WHICH INCLUDES FINISHED GRADE AND A MINIMUM OF 4" OF TOPSOIL AS REQUIRED. ANY AREA OF THE SITE THAT IS NOT SPECIFICALLY PLANTED PER THE CONTRACT DOCUMENTS SHALL HAVE SOD WITH A SPECIES APPROVED BY THE ARCHITECT AND OWNER.
19. AUTODESK AUTOCAD AND AUTODESK REVIT FILES MAY BE PROVIDED TO THE GENERAL SUBCONTRACTOR AND ITS SUBCONTRACTORS BUT WILL REQUIRE A SIGNED RELEASE WAIVER FROM EVERY ENTITY SEEKING THESE FILES. PAYMENT WILL BE RENDERED AS REQUIRED BY MODUS STUDIO FOR THE FILES REQUESTED. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT USE ANY .DWG OR .RVT FILE TO DIRECTLY LOCATE ANY CIVIL, LANDSCAPE, ARCHITECTURAL, MEP, OR STRUCTURAL ELEMENT WITHOUT COORDINATING DIRECTLY WITH ALL OF THE CONTRACT DOCUMENTS AND WITH THE ARCHITECT AND CONSULTANTS FOR FINAL PLACEMENT. THIS IS A BINDING AGREEMENT BY WHICH THE CONTRACTOR AND ITS SUBCONTRACTORS AGREE THERE WILL BE NO CHANGE ORDER RELATIVE TO LOCATING ANY ELEMENT ON THE SITE BY USING THE .DWG OR .RVT FILE IF THE ITEM WAS NOT FIRST COORDINATED AND VERIFIED AS DESCRIBED ABOVE.
20. FIELD OBSERVATION REPORTS: THE CONTRACTOR IS REQUIRED TO PROVIDE RESPONSES TO ITEMS IDENTIFIED ON THE ARCHITECT'S FIELD OBSERVATION REPORTS DIRECTLY ON THE PDF THAT IS PROVIDED BY THE ARCHITECT. CONTRACTOR RESPONSES TO FIELD REPORTS ARE DUE WITHIN 7 DAYS OF SUBMISSION BY THE ARCHITECT AND SHALL BE DISCUSSED, AS NEEDED, AT THE NEXT OAC MEETING. FIELD REPORTS WITH CONTRACTOR RESPONSES SHALL BE PART OF THE WEB-BASED SOFTWARE PROJECT COMPILATION.
21. CONSTRUCTION SCHEDULE: THE CONTRACTOR IS REQUIRED TO BUILD AND MAINTAIN A GANTT CHART CONSTRUCTION SCHEDULE AND PRESENT UPDATES TO THE ARCHITECT AND OWNER AT REGULAR INTERVALS, BUT AT A MINIMUM ONCE PER MONTH. THE SCHEDULE SHALL BE BUILT WITHIN A CAPABLE SCHEDULING SOFTWARE UTILIZING CRITICAL PATH METHODOLOGY (CPM). THE SCHEDULE SHALL BE UPDATED AT REGULAR INTERVALS. CONTRACTOR AGREES THAT CHANGES TO THE SCHEDULE SHALL BE SUPPORTED BY DOCUMENTATION AND THAT ANY EXTENSION OF THE TOTAL PROJECT DURATION WILL REQUIRE AN ARCHITECT AND OWNER APPROVED CHANGE ORDER FOR TIME. THE CONTRACTOR SHALL INDEMNIFY THE ARCHITECT RELATIVE TO THE CONSTRUCTION TIMELINE OF THE PROJECT AS THE CONSTRUCTION SCHEDULE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
22. THE CONSTRUCTION DOCUMENT PACKAGE REPRESENTS THE BASIC PROJECT SCOPE AND CONSTRUCTION REQUIREMENTS. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR, THEIR SUBCONTRACTORS AND SUPPLIERS FOR THIS PROJECT SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. THE CONTRACT DOCUMENTS ARE NOT TO BE SEPARATED AND DISTRIBUTED, DOING SO HOLDS THE CONTRACTOR LIABLE FOR ANY INFORMATION MISSED BY THE SUBCONTRACTOR. ALL PARTIES ARE EXPECTED TO VISIT THE SITE AND REVIEW THE PROJECT TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF THE WORK, THE DRAWINGS, THE SPECIFICATIONS, THE NOTES, AND THE MATERIALS REQUIRED. ANY DISCREPANCY AND/OR UNCERTAINTY AS TO WHAT MATERIAL OR PRODUCT IS TO BE USED SHOULD BE VERIFIED WITH THE ARCHITECT.
23. THERE SHALL BE NO DEVIATION FROM THE CONTRACT DOCUMENTS WITHOUT THE APPROVAL OF THE ARCHITECT AND/OR ENGINEER. ALL CONTRACTORS SHALL INDEMNIFY THE ARCHITECT AND ENGINEERS FOR ANY DEVIATION MADE FROM THE CONTRACT DOCUMENTS WITHOUT EXPRESS WRITTEN APPROVAL BY THE ARCHITECT OR ANY ENGINEER.
24. ALL MATERIALS USED FOR THIS PROJECT SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTION AND/OR RECOMMENDATIONS UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECS.
25. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORGANIZE AND MAINTAIN THE "MASTER CONSTRUCTION DOCUMENT" SET OF DOCUMENTS. A COMPLETE AND UP-TO-DATE FULL SIZE SET OF THE CONTRACT DOCUMENTS MUST BE AVAILABLE ON THE CONSTRUCTION SITE AT ALL TIMES.
26. THE CONTRACTOR SHALL MAINTAIN SOLE RESPONSIBILITY FOR THE DISTRIBUTION OF ALL REVISED CONTRACT DOCUMENTS, RFI RESPONSES, SUBMITTALS, OR ANY OTHER PROJECT RELATED INFORMATION DOCUMENTS TO ALL AFFECTED SUBCONTRACTORS.
27. THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS (AS REQUIRED) SHALL COMPLY WITH ALL APPLICABLE LAWS, BUILDING CODES, LIFE SAFETY CODES, ZONING ORDINANCES AND/OR ANY OTHER NATIONAL, STATE OR LOCAL REQUIREMENTS INCLUDING ANY LOCAL REVISIONS TO THE CODES, AND THE AHJ (AUTHORITY HAVING JURISDICTION) GOVERNING THE WORK INDICATED WITHIN THESE CONTRACT DOCUMENTS.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
    a. PAYMENT OF ALL PERMITTING FEES WHEN RETRIEVING THE PERMIT FROM THE AHJ.
    b. NECESSARY INSURANCE AND BONDING AS REQUIRED BY THE OWNER/CONTRACTOR AGREEMENT.
29. EACH CONTRACTOR SHALL VERIFY ALL ROUGH OPENING REQUIREMENTS OR OTHER CRITICAL BUILDING MEASUREMENTS WHICH AFFECT THEIR PORTION OF THE WORK.
30. DUST AND OTHER AIRBORNE CONTAMINANTS TO BE KEPT TO A MINIMUM AND A CLEAN CONSTRUCTION SITE SHOULD BE MAINTAINED AT ALL TIMES. DAILY MAINTENANCE AND CLEANING ON THE SITE IS A REQUIREMENT FOR THIS PROJECT TO ENSURE SAFETY AND PROMOTE PROPER OBSERVATION OF THE WORK.
31. THE CONTRACTOR MUST PROVIDE A SUBMITTAL SCHEDULE TO THE ARCHITECT AND OWNER WITHIN 30 DAYS OF THE NOTICE TO PROCEED. REFER TO THE PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL PROTOCOL REGARDING PAYMENT PROCEDURE, SUBMITTALS, REQUEST FOR INFORMATION, ETC.
32. SUBCONTRACTORS ARE TO DIRECT ALL INQUIRIES FIRST TO THE CONTRACTOR AND THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION TO THE ARCHITECT.
33. EXISTING STRUCTURES AND OTHER BUILDING COMPONENTS TO BE PROTECTED DURING THE CONSTRUCTION PROCESS.
34. SMOKING IS NOT PERMITTED ON THE SITE NOR INSIDE ANY BUILDING.
35. THE CONTRACT DOCUMENTS MAY INCLUDE DELEGATED DESIGN COMPONENTS THAT REQUIRE THE CONTRACTOR TO PROVIDE PROFESSIONAL DESIGN SERVICES OR CERTIFICATIONS BY A PROFESSIONAL ENGINEER RELATED TO SYSTEMS, MATERIALS, OR EQUIPMENT. ARCHITECT AND/OR CONSULTANTS WILL REVIEW DELEGATED DESIGN SUBMITTALS ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, METAL BUILDING FRAMES, METAL STUD FRAMING, MASS TIMBER FRAMING AND WALL COMPONENTS/CONNECTIONS, STOREFRONT AND CURTAIN WALL FRAMING, METAL STAIRS, SUSPENDED CEILINGS, IRRIGATION, OSHA REQUIRED TIEBACK SYSTEMS, ELEVATORS, PANELIZED WOOD WALL SYSTEMS, PRECAST CONCRETE WALL SYSTEMS, ETC. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY EACH DELEGATED DESIGN SCOPE PRIOR TO BIDDING.

GENERAL PLAN NOTES:

1. REFER TO FINISH LEGENDS FOR KEYNOTED MATERIALS, ELEMENTS, FIXTURES, ETC.
2. DIMENSIONS ARE TO FACE OF CONCRETE WALL, FRAMING, OR OTHER STRUCTURAL ELEMENT UNLESS OTHERWISE NOTED.
3. REFER TO WALL, FLOOR, AND ROOF TYPES SCHEDULE FOR SPECIFIC COMPOSITION INFORMATION.
4. ALL UNIT AND CORRIDOR SEPARATION WALLS TO BE 1 HOUR RATED, UNLESS OTHERWISE NOTED.
5. TYPICAL EXTERIOR WALLS ARE 1 HOUR RATED, REFER TO WALL TYPE SCHEDULE FOR LOCATIONS.
6. PENETRATIONS THROUGH EGRESS EXIT ENCLOSURES AND FIRE RATED SHAFT ASSEMBLIES ARE PROHIBITED EXCEPT FOR EQUIPMENT PERTAINING TO EGRESS AND EXIT ENCLOSURES.
7. PROVIDE FIRE RATED ACCESS PANELS EVERY 100 LINEAR FT IN CORRIDORS, AS REQUIRED FOR ACCESS TO MEP, A/V, LOW VOLTAGE, OR OTHER EQUIPMENT AS INCLUDED IN THE SCOPE OF THE PROJECT.
8. AT ALL WALL LOCATIONS WHERE TWO DIFFERENT WALL TYPES REQUIRE ADDITIONAL LAYERS OF 'TYPE X' GYPSUM BOARD TO ACHIEVE REQUIRED FIRE RATING, THE EXTRA LAYER OF GYPSUM BOARD SHOULD EXTEND OVER THE NON-RATED WALL TYPE TO THE NEXT PERPENDICULAR WALL TO ENSURE A CLEAN, UNIFORM, CONTINUOUS GYPSUM BOARD SURFACE ON THE INTERIOR.
9. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL FOOTING, FOUNDATION, SLAB EDGE, AND OTHER STRUCTURAL LOCATIONS. THE CONTRACTOR IS REQUIRED TO COORDINATE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLING THE WORK.
10. PROVIDE UNDER SLAB PIPING, DUCTING, AND/ OR PREPARATION FOR INTERNAL DRAINS TO DAYLIGHT, OR TO CIVIL CONNECTION.
11. REFER TO TYPICAL PLAN DETAILS FOR COMMON TRANSITIONS OF WALL TYPES AND CORNERS.
12. REFER TO BUILDING SECTIONS FOR ADDITIONAL TOP OF WALL HEIGHTS. IF NO SECTION IS PROVIDED, REQUEST ADDITIONAL INFORMATION FROM THE ARCHITECT.
13. FIELD VERIFY ALL ROUGH-DIMENSION FOR WINDOWS, DOORS, AND OTHER ELEMENTS.
14. REFERENCE INTERIOR ELEVATIONS AND MILLWORK DETAILS TO COORDINATE APPLIANCES, FIXTURE PLACEMENTS AND OTHER ARCHITECTURAL ELEMENTS RELATIVE TO FINAL DIMENSIONS.
15. COORDINATE WITH GOVERNING AUTHORITY TO PROPERLY LOCATE ALL UTILITIES AND INFRASTRUCTURE PRIOR TO AND DURING CONSTRUCTION.

GENERAL ROOF PLAN NOTES:

1. DIMENSIONS ARE TO FACE OF FINISH MATERIALS ON ROOF PLANS, TYP.
2. REFER TO ROOF TYPES SCHEDULE FOR SPECIFIC COMPOSITION INFORMATION.
3. ROOF ACCESS HATCHES SHALL BE PROVIDED AT THE TOP OF VERTICAL CIRCULATION, MINIMUM ONE PER BUILDING.
4. FALL PROTECTION RAILING SHALL BE PROVIDED AT ANY LOCATION WHERE ROOFTOP EQUIPMENT IS WITHIN 10 FEET OF THE EDGE OF THE ROOF.
5. PROVIDE A MINIMUM OF ONE COMMERCIAL FREEZELESS ROOF HYDRANT PER BUILDING, WOODFORD MODEL RHY2, OR APPROVED EQUAL. VERIFY FINAL LOCATION WITH ARCHITECT.
6. PROVIDE A MINIMUM OF TWO DUPLEX OUTLETS PER BUILDING AT THE ROOF FOR MAINTENANCE AND OPERATIONS.
7. REFER TO BUILDING SECTIONS FOR ADDITIONAL TOP OF PARAPET HEIGHTS. IF NO SECTION IS PROVIDED, REQUEST ADDITIONAL INFORMATION FROM THE ARCHITECT.

GENERAL REFLECTED CEILING PLAN NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HOST A PRECONSTRUCTION MEETING WITH APPLICABLE TRADES AND THE ARCHITECT TO DISCUSS THE LOGISTICS AND PLACEMENT OF ITEMS AND THE JOINDER AND TRANSITIONS OF FINISH MATERIALS ON AND WITHIN THE CEILING PRIOR TO COMMENCING THE WORK.
2. ALL ITEMS LOCATED IN OR ON A CEILING ARE TO BE ALIGNED, STRAIGHT AND TRUE. IT IS THE CONTRACTOR 'S RESPONSIBILITY TO REWORK ALL FINISHES AS REQUIRED TO ENSURE ALIGNMENTS.
3. DIMENSIONS ARE NOT ALWAYS PROVIDED FOR ALL ITEMS ON THE CEILING, REQUEST ADDITIONAL INFORMATION FROM THE ARCHITECT PRIOR TO INSTALLATION TO CONFIRM PLACEMENTS, ALIGNMENTS, AND DIMENSIONS.
4. ALL EXPOSED CONDUIT, DATA, OR OTHER CABLING AND WIRING SHALL BE COLOR MATCHED OR PAINTED TO MATCH THE CEILING IN ANY LOCATION WHERE THESE ITEMS WILL BE EXPOSED.
5. ALL LOW VOLTAGE ITEMS ARE TO BE THOROUGHLY DISCUSSED PRIOR TO PLACEMENT OF THE WORK. THIS SHOULD BE PART OF THE PRECONSTRUCTION MEETING AS REQUIRED ABOVE.
6. ALL SPRINKLER HEADS ARE TO BE CONCEALED HEADS WHERE APPLICABLE, COLOR AND FINISH SELECTED BY ARCHITECT.

GENERAL SECTION + DETAIL NOTES:

1. REFER TO FINISH LEGENDS FOR KEYNOTED MATERIALS, ELEMENTS, FIXTURES, ETC.
2. SECTIONS AND DETAILS MAY BE DRAWN WITH MATERIAL ELEMENTS SEPARATED FOR CLARITY OF SEQUENCE AND OVERLAPPING. REQUEST ADDITIONAL INFORMATION FROM THE ARCHITECT IF UNCLEAR.
3. IT IS ALWAYS THE INTENT FOR BUILDING ELEMENTS TO DRAIN AWAY FROM THE BUILDING OR DIRECTLY TOWARD WATER CONVEYANCE SYSTEMS. REQUEST ADDITIONAL INFORMATION FROM THE ARCHITECT IF THE DIRECTIONAL SLOPE REQUIRED OF EXPOSED ELEMENTS IS NOT CLEAR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE WATER MOVES PROPERLY AWAY FROM THE BUILDING.
4. CREATE MONOLITHIC WATERTIGHT VAPOR BARRIER (10 MIL MINIMUM) UNDER SLAB WITH SEALED PENETRATIONS, TYP.
5. SET BOTTOM PLATES IN 1/4" BED OF BUTYL OR URETHANE SEALANT, TYP.
6. SET ALL THRESHOLDS IN A FULL BED OF URETHANE SEALANT, TYP.
7. EXTEND THROUGH WALL FLASHING VERTICALLY UP THE WALL 4" MINIMUM AND UNDER BUILDING WRAP, TYP.
8. SEAL AND SECURE TOP EDGE OF FLASHING, TYP.
9. INSTALL ROOFING MEMBRANE UP THE BACK FACE AND OVER THE TOP OF THE PARAPET AND DOWN EXTERIOR FACE AT 1" BEYOND THE BOTTOM EDGE OF TOP PLATE BLOCKING, TYP.
10. METAL EDGE AND COPING FOR LOW SLOPE ROOFING SHALL DRAIN TOWARD ROOF, TYP.
11. EXTEND ADHERED TPO FLASHING UP 8" MIN. AND TOP EDGE SEALED BEFORE TERMINATION BAR IS APPLIED AND SECURED UNDER BUILDING WRAP, TYP.
12. PROVIDE FLASHING AND COUNTERFLASHING AT LOW ROOF TO VERTICAL WALL LOCATIONS UTILIZING 2 PIECE REGLETS, TYP.
13. COMMERCIAL BUILDING WRAP AT MASONRY TO BE RESISTANT TO THE ALKALINITY OF CONCRETE, TYP.
14. ALL RATED WALL/ FLOOR CAVITIES AND ROOF/CEILING ASSEMBLIES TO USE NON COMBUSTIBLE INSULATION.
15. REFER TO GENERAL NOTES REGARDING DRAINAGE SYSTEMS AND WATERPROOFING AT FOUNDATIONS.

GENERAL ELEVATION NOTES:

1. REFER TO FINISH LEGENDS FOR KEYNOTED MATERIALS, ELEMENTS, FIXTURES, ETC.
2. NOT ALL ELEMENTS, TEXTURES, PATTERNS, OR COURSINGS ARE POSSIBLE TO INDICATE ON BUILDING ELEVATIONS. THE CONTRACTOR MAY REQUEST ADDITIONAL INFORMATION OR ENLARGED ELEVATIONS TO HELP WITH COORDINATION ACROSS SUBCONTRACTORS AND TRADES.
3. IF CONTROL JOINTS ARE NOT INDICATED ON THE ELEVATIONS, REQUEST THIS INFORMATION FROM THE ARCHITECT.
4. IF EXHAUST VENT LOCATIONS ARE NOT INDICATED ON THE ELEVATIONS, REQUEST THIS INFORMATION FROM THE ARCHITECT.
5. **DO NOT SCALE DIMENSION FROM THE ELEVATIONS FOR PLACEMENT OF ITEMS.**
6. ALL ITEMS THAT ARE ALIGNED ON THE ELEVATIONS ARE INTENDED TO BE ALIGNED IN THE BUILT CONDITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE ELEVATIONS AND SUPERVISE THE WORK OF THE SUBCONTRACTORS TO ACHIEVE ALIGNMENT AS INDICATED.
7. THE BUILDING ELEVATIONS AND BUILDING PLANS SUPERCEDE TYPICAL DWELLING UNIT PLANS FOR LOCATIONS OF WINDOWS.
8. THE ARCHITECT WILL PROVIDE CODED ELEVATIONS FOR ALL FINISH, PAINT, AND STAIN COLORS ON THE FACADE MATERIALS WHEN REQUESTED BY THE CONTRACTOR.
9. UNLESS OTHERWISE NOTED, VERTICAL DIMENSIONS ARE FROM FINISH FLOOR AND NOT SUBFLOOR.

GENERAL MISCELLANEOUS NOTES:

1. THE MINIMUM ACCEPTABLE DESIGN STC RATINGS ARE 50, WITH A MINIMUM FIELD TEST STC RATING OF 45 OR AS INDICATED FOR THE ASSEMBLY. IN CONSTRUCTING TENANT SEPARATION WALL AND FLOOR/CEILING ASSEMBLIES, THE CONTRACTOR SHALL FOLLOW RECOMMENDED GYPSUM ASSOCIATION PRACTICES FOR SOUND SEPARATION ASSEMBLIES AND MINIMUM GUIDELINES.
2. ATTIC ACCESS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND SHALL NOT BE LESS THAN 22"X36" (OR AS INDICATED FOR MECHANICAL ACCESS) AS LOCATED ON THE UNIT AND/OR ROOF PLANS. PROVIDE ACCESS POINTS AS INDICATED ON THE DRAWINGS OR A MINIMUM OF ONE PER DESIGNATED FIRE AREA.
3. MAXIMUM FLAME SPREAD RATING ON ALL INTERIOR FINISH MATERIALS SHALL NOT EXCEED 200.
4. RAIN LEADERS IN ALL CHASES TO BE INSULATED PIPE USING ADDITIONAL SOUND BATT INSULATION BETWEEN STUDS WITH CHASE WALLS.
5. STATIC COEFFICIENT OF FRICTION (SCOF) SHALL BE A MINIMUM OF 0.8 FOR ALL RAMPS AND 0.6 FOR ALL WALKS LOCATED ON ACCESSIBLE ROUTES TO PROVIDE FOR PROPER TRACTION.
6. REGARDLESS OF ANY SPECIFIC WALL, FLOOR, OR ROOF ASSEMBLIES OR DETAILS, ALL PLENUM SPACES MUST BE NONCOMBUSTIBLE OR WRAPPED IN NON COMBUSTIBLE MATERIALS.

DIVISION 02

GENERAL EXISTING CONDITIONS + DEMOLITION NOTES:

1. DASHED LINES ON DEMO PLANS REPRESENT WALLS, DOORS, SOFFITS, CASEWORK, ETC. TO BE REMOVED. PATCH AND REPAIR EXISTING ADJOINING AREAS TO REMAIN.
2. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR 'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS AND NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DEVIATION FROM CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS OR ITEMS NOT COVERED.
4. PROTECT ALL SURFACES TO REMAIN AS NECESSARY. PATCH AND MATCH SURFACES DISTURBED BY DEMOLITION OR REMOVAL OF EQUIPMENT OR UTILITIES. INSTALL PATCHING TO MATCH ADJACENT WORK IN FINISH, STRUCTURAL QUALITIES, COURSING OF MASONRY, AND OTHER CHARACTERISTICS. PATCH SURFACES TO COMPLY WITH FIRE RATINGS, SMOKE-TIGHT RATINGS, ACOUSTICAL CRITERIA AND OTHER PERFORMANCE CRITERIA INDICATED. THOROUGHLY CLEAN ADJACENT AREAS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION WORK.
5. PROVIDE TEMPORARY PARTITIONS/DUST PROTECTION AS REQUIRED.
6. ALL DEMO MATERIALS INCLUDING FRAMING, FIXTURES, DOORS, AND WINDOWS TO BE STOCKPILED ON SITE FOR REUSE OR DONATION.
7. HAZARDOUS MATERIAL NOTE: CONTRACTOR SHALL STOP WORK AND INFORM ARCHITECT IMMEDIATELY IN WRITING OF ANY HAZARDOUS MATERIAL ENCOUNTERED OR THOUGHT TO BE HAZARDOUS MATERIAL. THE ARCHITECT, AFTER RECEIVING WRITTEN NOTICE, SHALL INSTRUCT CONTRACTOR ON HOW TO PROCEED.
8. ALL WORK SHALL BE DONE IN PROTECTED SPACE. NO DUST OR DIRT SHALL TRAVEL FROM CONSTRUCTION AREA TO ADJACENT AREAS. TEMPORARY DUST PROTECTION SHALL BE ERECTED PRIOR TO START OF WORK. COORDINATE ADDITIONAL FILTRATION OF EXTERIOR AIR INTAKES TO MECHANICAL SYSTEMS.
9. PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL COORDINATE BRACING AND MAINTAIN THE STRUCTURAL INTEGRITY OF THE REMAINING ELEMENTS OF THE BUILDING AND ITS SYSTEMS AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ADJACENT STRUCTURES DURING DEMOLITION AND NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING, SCAFFOLDING, ETC., WHICH ARE NECESSARY TO PREVENT COLLAPSE, SUBSIDENCE, DEFLECTION OR ANY OTHER TYPE OF DAMAGE. REPAIR SPRAY FIREPROOFING DAMAGED DURING DEMOLITION WORK TO ITS REQUIRED ASSEMBLY AND FIRE RATING AS SCHEDULED ON ARCHITECTURAL DRAWINGS.
10. CONTRACTOR SHALL REVIEW ALL ITEMS TO BE DEMOLISHED WITH ARCHITECT TO IDENTIFY ANY ITEMS TO BE SALVAGED PRIOR TO START OF DEMOLITION.
11. REFER TO DIMENSION PLANS AND ENLARGED PLANS FOR CLARIFICATION ON WHERE PARTIALLY DEMOLISHED WALLS TERMINATE.
12. EXISTING STRUCTURES AND OTHER BUILDING COMPONENTS TO BE PROTECTED DURING THE CONSTRUCTION PROCESS.
13. ALL MISCELLANEOUS SCREWS, ANCHORS, NAILS, HOOKS, ETC. THAT ARE EMBEDDED IN WALLS THAT ARE TO REMAIN SHALL BE REMOVED AS PART OF THE DEMO PROCESS.

GENERAL MECHANICAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE EXTENT AND NATURE OF DEMOLITION AND SYSTEMS TO BE REMOVED.
2. CONTRACTOR SHALL ACCOMPLISH ALL DEMOLITION AND REMOVAL WORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
3. PATCH AND REPAIR EXTERIOR WALLS AFTER ANY PENETRATIONS THROUGH THESE WALLS HAVE BEEN DEMOLISHED.

GENERAL ELECTRICAL DEMOLITION NOTES:

1. REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING AS INDICATED ON PLANS OR AS REQUIRED BY DEMOLITION. REMOVE ALL PANELS, DISCONNECTS, BOXES, RELAYS, TIME SWITCHES, LIGHTS, DEVICES, ETC. THAT WILL NOT BE REUSED.
2. CONDUIT FOR DEMOLISHED DEVICES SHALL BE ABANDONED. REMOVE WIRING FROM CONDUIT. CONDUIT THAT IS ABANDONED SHALL BE REMOVED BACK TO FINISHED SURFACE AND CAPPED INSIDE. REPAIR SURFACES TO MATCH ADJACENT AS REQUIRED.
3. ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL REMAIN IN RESPECTIVE PANELBOARD FOR FUTURE USE UNLESS NOTED OTHERWISE ON ELECTRICAL DRAWINGS.

GENERAL PLUMBING DEMOLITION NOTES:

1. VALVE AND CAP ALL WATER AND DRAIN LINES NOT BEING USED IN A CONCEALED LOCATION ABOVE CEILING, IN WALL, OR BELOW SLAB.

DIVISION 03

GENERAL CONCRETE NOTES:

*STRUCTURAL ENGINEER'S NOTES, SPECIFICATIONS, DRAWINGS AND DETAILS TAKE PRECEDENT OVER THE FOLLOWING ITEMS, EXCEPT FOR **AESTHETIC** DIRECTIONS AS PROVIDED HEREIN.

1. ALL EXPOSED/FINISHED CONCRETE TO BE PROTECTED DURING CONSTRUCTION, THIS INCLUDES AREAS OF EXPOSED COLUMNS, WALLS, AND POLISHED CONCRETE FLOORS.
2. **DO NOT CHAMFER EDGES** OF ANY CONCRETE WITHOUT APPROVAL OF ARCHITECT.
3. **DO NOT PATCH** ANY CONCRETE WORK WITHOUT APPROVAL OF ARCHITECT.
4. MOCKUPS ARE REQUIRED FOR ALL FINISHED AND EXPOSED AREAS OF CONCRETE WALLS TO DETERMINE CONCRETE TIE PLACEMENT LOCATIONS, TYPES, AND FINISH TREATMENTS. MULTIPLE MOCKUPS MAY BE REQUIRED.
5. PROVIDE APPROVED PLASTICIZERS OR OTHER APPROVED AD-MIXTURES TO ENSURE PROPER CONSISTENCY OF THE MATERIAL TO FULLY FILL CAVITIES WITHIN THE FORMWORK TO ACHIEVE A FINISH APPROVED BY THE ARCHITECT.

DIVISION 04

GENERAL MASONRY NOTES:

1. PROVIDE EXPANSION JOINTS IN ALL MASONRY. JOINTS SHALL BE A MINIMUM OF 1/2" AND SEALED WITH BACKER ROD OVERSIZE BY 50% AND AN ELASTOMERIC SEALANT WITH +/- 25% MOVEMENT CAPABILITY. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING DEPICTING PROPOSED LOCATIONS OF ALL EXPANSION JOINTS TO THE ARCHITECT FOR APPROVAL PRIOR TO ERECTING MASONRY.
2. PROVIDE METAL STEP FLASHING AT ALL ROOF WALL INTERSECTIONS WITH MASONRY WALLS.
3. PROVIDE THROUGH WALL FLASHING AT ALL MASONRY WALLS.
4. PROVIDE CAVITY DRAIN MAT AND WEEPS AT ALL VENEER MASONRY WALLS.
5. ALL FLASHING TO HAVE ADEQUATE END DAMS.
6. WIRE MESH FABRIC SHALL BE "BROKEN" OR DECOUPLED, AT ALL CONTROL JOINT LOCATIONS.
7. PROVIDE MOCKUP OF ALL MASONRY TYPES AND APPLICATIONS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION FOR THE PORTION OF THE PROJECT.
8. ALL MORTAR WILL HAVE A COLOR ADDITIVE AS SELECTED BY THE ARCHITECT. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE CONSISTENT COLOR MIXING OF MORTAR ACROSS THE PROJECT. FAILURE TO DO SO MAY RESULT IN RE-WORK AS IDENTIFIED BY THE ARCHITECT. SPOT CHECKING AND CLEANING MAY BE REQUIRED DURING CONSTRUCTION TO ENSURE THIS REQUIREMENT IS BEING MET.
9. ALL MASONRY SHALL BE CLEANED WHEN AREAS OR ZONES ARE COMPLETE FOR VISUAL OBSERVATION BY THE ARCHITECT.
10. ANY EFFLORESCENCE SHALL BE REMEDIED BY THE SUBCONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

DIVISION 05

GENERAL STEEL FABRICATION NOTES:

1. ALL FABRICATIONS ARE TO BE STRAIGHT, PLUMB, AND TRUE. ARCHITECT WILL EVALUATE EVERY STEEL FABRICATION RELATING TO AESTHETIC QUALITIES OF CRAFTSMANSHIP. IT'S THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE SITE VISITS WITH THE ARCHITECT PRIOR TO THE INSTALLATION OF SURROUNDING FINISHES (WHERE POSSIBLE).
2. ALL STEEL EMBEDDED IN CONCRETE OR SUBGRADE TO BE GALVANIZED AND PAINTED, TYPICAL, UNLESS NOTED OTHERWISE.
3. ALL STEEL FABRICATIONS TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (LATEST EDITION).
4. PROVIDE FINISHED MATERIALS WITH SMOOTH, FLAT SURFACES, WITHOUT BLEMISHES.
5. PRE-ASSEMBLE ITEMS IN THE SHOP TO GREATEST EXTENT POSSIBLE.
6. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES.
7. CUT, DRILL AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES. WELD CORNERS AND SEAMS CONTINUOUSLY.
8. USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METAL. DISTORTED WORK WILL BE REJECTED.
9. GRIND AND POLISH ALL EXPOSED WELDS.
10. FIT PARTS SUCH THAT ALIGNMENT IS TRUE, WITHOUT GAPS, AND TRANSITIONS ARE SMOOTH. RELIANCE ON FILLERS LIKE BONDO IS NOT ACCEPTABLE.
11. FABRICATE SEAMS AND OTHER CONNECTIONS THAT WILL BE EXPOSED TO WEATHER IN A MANNER TO EXCLUDE WATER. PROVIDE WEEP HOLES WHERE WATER MAY ACCUMULATE AT DIRECTION OF ARCHITECT.
12. WHERE UNITS ARE INDICATED TO BE CAST INTO CONCRETE OR BUILT INTO MASONRY, EQUIPPED WITH INTEGRALLY WELDED STEEL STRAP ANCHORS, NOT LESS THAN 8 INCHES FROM ENDS AND CORNERS OF UNITS AND 24 INCHES O.C.
13. VERIFY WITH ARCHITECT FOR FINISH OF ALL EXPOSED STEEL PRIOR TO PRIMING OR ANY OTHER TYPE OF TREATMENT.
14. UNLESS FABRICATIONS ARE TO BE RAW MILD STEEL OR STAINLESS STEEL PER THE ARCHITECT, APPLY SHOP PRIMER TO UNCOATED SURFACES OF METAL FABRICATIONS, EXCEPT THOSE WITH GALVANIZED FINISHES AND THOSE TO BE EMBEDDED INTO CONCRETE. REFER TO PAINT SCHEDULES IN DRAWINGS FOR PROPER PRIMERS TO USE.
15. INSTALL ALL METAL FABRICATIONS LEVEL AND PLUMB AND TOUCH UP PAINTED SURFACES AS REQUIRED. REFER TO PAINT SCHEDULES IN DRAWINGS FOR PROPER PRIMERS TO USE.

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mark	date	description

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NOT FOR CONSTRUCTION

WACHTER

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION, **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents.
GENERAL NOTES

design. CD
date. 2026.09.11
project. 25.18

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16. PER THE INTERNATIONAL BUILDING CODE (IBC + IRC) ALL GUARDRAILS ARE TO BE FABRICATED TO RESIST A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT.
17. PER THE INTERNATIONAL BUILDING CODE (IBC + IRC) ALL INFILL BALUSTERS AND PANELS WITHIN A GUARDRAIL SYSTEM ARE TO BE FABRICATED TO WITHSTAND A CONCENTRATED LOAD OF 50 POUNDS.
18. ALL HANDRAIL SUPPORT BRACKETS FOR WALL-MOUNTED HANDRAILS SHALL BE PRIMED AND PAINTED WAGNER STEEL WALL MOUNT HANDRAIL BRACKET (5/8 INCH DIAMETER 90 DEGREE BAR BEND) WITH 2-1/2 INCH PROJECTION UNLESS NOTED OTHERWISE IN THE DRAWINGS.
19. ALL HANDRAILS TO BE PRIMED AND PAINTED 1-1/4 INCH ROUND BAR UNLESS NOTED OTHERWISE IN THE DRAWINGS.
20. ALL RAILINGS DESIGNATED AS CABLE RAIL SHALL USE STAINLESS STEEL FEENEY CABLERAIL HARDWARE KITS.
21. THERE ARE LIKELY VARIOUS FINISHES OF MILD STEEL IN THE PROJECT. REFER TO FINISH LEGENDS FOR VARIOUS TYPES. ANY STEEL THAT IS TO RECEIVE A BLACKENED FINISH SHALL MEAN THE FOLLOWING (MODUS RECIPE):
    a. USE STEEL FROM THE SAME ORDER TO ATTEMPT TO GET STEEL SHEET CUT FROM THE SAME COIL AT THE MILL.
    b. MATERIAL TO BE STORED ON RACKS IN AN SECURE SHOP AWAY FROM WEATHER AND EXCESSIVE MOISTURE.
    c. CLEAN THE MILL ORIGIN LABELING AND ANY OTHER MARKINGS WITH LACQUER THINNER.
    d. USE DENATURED ALCOHOL TO REMOVE THE TRACE OILS FROM THE STEEL, MINIMUM TWO PASSES AND USE CLEAN RAGS ON EVERY PASS.
    e. USE BRICHWOOD TECHNOLOGIES PRESTO BLACK BST4 BRUSH-ON BLACKENING. APPLY WITH SPRAY BOTTLE AND RUB IN FULLY WITH RAG. DO NOT LET BLACKENING AGENT SIT TOO LONG, AVOID BROWNING.
    f. AFTER FIRST PASS, REVIEW FOR DESIRED COLOR. BE CONSISTENT IN YOUR APPROACH TO ALL SHEETS FOR UNIFORMITY.
    g. WHEN BLACKENING LEVEL/COLOR IS ACHIEVED, HOSE DOWN WITH WATER TO NEUTRALIZE BLACKENING AGENT.
    h. DRY WITH COMPRESSED AIR AS SOON AS POSSIBLE AND APPLY WAX OR OTHER SPRAY-APPLIED FINISH QUICKLY.
        i. WAX: BWC COMPANY BOWLING ALLEY WAX, MINIMUM 3 COATS.
        ii. SPRAY-APPLIED CLEAR FINISH:
            1. INTERIOR: MINWAX FAST-DRYING POLYURETHANE OR CLEAR POWDERCOATING
            2. EXTERIOR: AUTO-BODY CLEAR COAT OR CLEAR POWDERCOATING

GENERAL METAL FRAMING NOTES:
1. ALL COLD-FORMED METAL FRAMING TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
2. FRAMING SHALL NOT BE CONCEALED PRIOR TO INSPECTIONS BY GOVERNING AUTHORITIES.
3. DO NOT MODIFY THE DIMENSION OR LOCATION OF ANY FRAMING WITHOUT FIRST CONSULTING THE ARCHITECT. THIS INCLUDES ANY MODIFICATIONS TO MAKE TRIM BOARDS FIT, THIS IS REQUIRED TO BE DISCUSSED WITH THE ARCHITECT PRIOR TO MODIFICATION.
4. ALL STUD WALLS ARE DIMENSIONED TO FACE OF STUD, UNLESS NOTED OTHERWISE. WINDOW AND DOOR DIMENSIONS MAY FOLLOW THE STANDARD OF DIMENSIONING TO THE CENTERLINE OR THE ROUGH OPENING. PRIOR TO LAYOUT AND FRAMING A MEETING BETWEEN ARCHITECT AND CONTRACTOR IS REQUIRED.
5. PROVIDE FULL STUDS AT ALL INSIDE AND OUTSIDE CORNERS.
6. FRAMING AT WINDOWS & DOORS SHALL BE ADEQUATE TO MINIMIZE MOVEMENT & LESSEN CRACKING OF MASONRY, STONE AND/OR STUCCO EXTERIOR. (DOUBLE STUDS REQUIRED IN SOME CASES).
7. FRAMING AND NAILING REQUIREMENTS FOR ANY FIRE RESISTANT RATED CONSTRUCTION MUST ADHERE TO THE SPECIFIC REQUIREMENTS FOR THE ASSEMBLY LISTED.

DIVISION 06

GENERAL FRAMING NOTES:
1. ALL WOOD FRAMING TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND IN CONFORMANCE WITH THE **AMERICAN WOOD COUNCIL'S** NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND WOOD FRAME CONSTRUCTION MANUAL.
2. FRAMING SHALL NOT BE CONCEALED PRIOR TO INSPECTIONS BY GOVERNING AUTHORITIES.
3. ALL WOOD FRAMING MATERIALS AND STRUCTURAL MEMBERS SHALL BE ADEQUATELY PROTECTED FROM WEATHER, WATER, AND MOISTURE CONDITIONS THAT WOULD COMPROMISE THE MATERIALS OR WORK. GLU-LAM, LVL, CLT AND OTHER LAMINATED TYPES OF WOOD SHALL BE WRAPPED, TREATED, OR PROTECTED PER THE MANUFACTURER'S REQUIREMENTS. THE MOISTURE CONTENT OF LUMBER AT TIME OF INSTALL SHALL BE A MINIMUM OF 15% AND MAXIMUM OF 19%. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS REQUIREMENT AND MONITOR MOISTURE CONTENT THROUGHOUT CONSTRUCTION RELATIVE TO THE BUILDING ENCLOSURE, HEATING, AND DRYING OF THE BUILDING. ALL ENGINEERED AND MANUFACTURED WOOD PRODUCTS SHALL EXPLICITLY FOLLOW THE REQUIREMENTS AND RECOMMENDATIONS OF THE RELEVANT MANUFACTURER.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL WIND BRACING, ANCHORAGE, STUD SPACING AND SIZING REQUIREMENTS, SHEAR WALL LOCATIONS, AND SUPPORT LINTEL SCHEDULES. REPORT ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS TO THE ARCHITECT.
5. THE CONTRACTOR SHALL PROVIDE ENGINEERED (SIGNED AND SEALED) SHOP DRAWINGS FOR ALL PRE-ENGINEERED ROOF TRUSS/JOIST SYSTEMS. SHOP DRAWING PACKAGE SHALL BE PROVIDED PRIOR TO TRUSS/JOIST FABRICATION AND INSTALLATION ON SITE. SCHEDULE MUST ANTICIPATE ADEQUATE TIME FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER AS WELL AS TIME FOR REVIEW AND APPROVAL BY THE JURISDICTIONS BUILDING DEPARTMENT AS REQUIRED.
6. DO NOT MODIFY THE DIMENSION OR LOCATION OF ANY FRAMING WITHOUT FIRST CONSULTING THE ARCHITECT. DO NOT MAKE ANY MODIFICATIONS TO FRAMING TO MAKE TRIM BOARDS FIT, THIS IS REQUIRED TO BE DISCUSSED WITH THE ARCHITECT PRIOR TO MODIFICATION.
7. INSTALL FLASHING OVER THE TOP EDGE AND BEHIND ALL BALCONY LEDGER SUPPORT MEMBERS. WATERPROOFING THE BUILDING ENVELOPE IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE WATERPROOFING SUBCONTRACTOR.
8. VERIFY WOOD SPECIES AND GRADING REQUIREMENTS WITH STRUCTURAL SPECIFICATIONS.
9. **ALL STUD WALLS ARE DIMENSIONED TO FACE OF STUD**, UNLESS NOTED OTHERWISE. WINDOW AND DOOR DIMENSIONS MAY FOLLOW THE STANDARD OF DIMENSIONING TO THE CENTERLINE OR THE ROUGH OPENING. PRIOR TO LAYOUT AND FRAMING A MEETING BETWEEN ARCHITECT AND CONTRACTOR IS REQUIRED TO REVIEW THE PLANS EITHER ON SITE OR IN THE ARCHITECT'S OFFICE.
10. PROVIDE FULL STUDS AT ALL INSIDE AND OUTSIDE CORNERS.
11. FRAMING AT WINDOWS & DOORS SHALL BE ADEQUATE TO MINIMIZE MOVEMENT & LESSEN CRACKING OF MASONRY, STONE AND/OR STUCCO EXTERIOR. (DOUBLE STUDS AS REQUIRED).
12. ANY WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED WOOD PRESERVATIVE AND SHALL BE INSTALLED OVER A CONTINUOUS SILL SEALER. SET SILL IN FULL SEALANT/MASTIC BED OR WITH OTHER SILL SEALER MATERIAL AS INDICATED OR APPROVED BY THE ARCHITECT.
13. INSTALL BLOCKING IN ALL WALL CAVITIES WHERE NEEDED TO SUPPORT CABINETS, TOWEL BARS, TOILET PAPER HOLDERS, GRAB BARS, A/V OR ANY OTHER ACCESSORY AND EQUIPMENT. INSTALL BLOCKING IN ALL WALL CAVITIES WHERE NEEDED TO SUPPORT HANDRAILS AND BALCONY GUARDRAILS. PERFORM A WALK THROUGH WITH ARCHITECT AND OWNER TO DETERMINE FINAL LOCATIONS OF BLOCKING. WHEN IN DOUBT, PROVIDE BLOCKING.
14. FRAMING AND NAILING REQUIREMENTS FOR ANY FIRE RESISTANT RATED CONSTRUCTION MUST ADHERE TO THE SPECIFIC REQUIREMENTS FOR THE ASSEMBLY LISTED.
15. ALL DECKS ARE TO BE FRAMED WITH CONCEALED FASTENERS, UNLESS NOTED OTHERWISE. ALL FASTENERS ARE TO BE OF STAINLESS STEEL OR AN APPROVED COATING. DECK BOARDS SHOULD BE LAID AND FASTENED CLOSE TOGETHER AS ALLOWED PER THE CONCEALED FASTENER THAT IS APPROVED.

GENERAL MILLWORK NOTES:
1. ALL CABINETS TO BE FRAMELESS EUROPEAN STYLE BOXES WITH ALL CABINET DOORS AND DRAWERS TO BE FULL OVERLAY SOLID SMOOTH SLAB. ALWAYS VERIFY FINISH WITH ARCHITECT PRIOR TO FABRICATION.
2. ALL PLASTIC LAMINATE FINISHED MILLWORK PANELS TO BE OVER 3/4" PARTICLE BOARD WITH MELAMINE INTERIORS, UNLESS NOTED OTHERWISE.
3. ALL STAINED MILLWORK TO BE RIFT-SAWN WHITE OAK VENEER OVER 3/4" HIGH DENSITY MDF CORE FOR ALL EXPOSED FACES, UNLESS NOTED OTHERWISE.
4. ALL PAINTED MILLWORK TO BE 3/4" HIGH DENSITY MDF FOR ALL EXPOSED FACES, UNLESS NOTED OTHERWISE.
5. ALL CABINET BASES AND INTERIOR PANELS TO BE 3/4" PARTICLE BOARD WITH WHITE MELAMINE, UNLESS NOTED OTHERWISE.
6. CORNER CABINET SPACE TO BE PROVIDED AS PART OF A STANDARD BASE CABINET, TYPICAL, UNLESS NOTED OTHERWISE.
7. ALL MILLWORK WITHOUT SPECIFIC FINISHES IDENTIFIED SHALL BE ASSUMED TO BE PAINTED, VERIFY FINAL SELECTION WITH ARCHITECT.
8. ANY COMPOSITE MATERIALS USED IN MILLWORK MAY NOT CONTAIN ANY ADDED UREA-FORMALDEHYDE RESINS.
9. PROVIDE BLUM METABOX WITH BLUMOTION SOFT CLOSE HARDWARE, OR APPROVED EQUAL, FOR ALL DRAWERS. http://www.blum.com/us/en/01/40/30/
10. PROVIDE BLUMOTION CLIPTOP HINGES, OR APPROVED EQUAL, FOR ALL CABINET DOORS. http://www.blum.com/us/en/01/20/30/
11. PROVIDE SQUARE BAR PULL HARDWARE FOR ALL CABINET DOORS AND DRAWERS, VERIFY FINISH WITH ARCHITECT. WIRE PULLS ARE NOT ACCEPTABLE: http://www.topknobs.com/tk252blk-modern-metro-pull-7-inch-c-c.html
12. PROVIDE BLOCKING AS REQUIRED IN FRAMED WALLS FOR INSTALLATION OF MILLWORK. PERFORM WALKTHROUGH WITH ARCHITECT PRIOR TO DRYWALL INSTALLATION TO REVIEW ALL BLOCKING LOCATIONS.
13. ALL ELECTRICAL FIXTURES LOCATED WITHIN MILLWORK ARE TO BE OF A COLOR SELECTED BY ARCHITECT PRIOR TO INSTALLATION.
14. FULL SCALE MOCKUPS ARE REQUIRED FOR GENERAL CABINETRY CONSTRUCTION: THE MOCKUP WILL INCLUDE A MINIMUM OF ONE PANEL EACH TO DEMONSTRATE EACH EXTERIOR AND INTERIOR BODY AND EDGE FINISH AS APPROVED IN SHOPS. MOCKUPS ARE CONSTRUCTED TO DEMONSTRATE AESTHETIC EFFECTS, QUALITIES OF MATERIALS AND EXECUTION; TO REVIEW COORDINATION; TO SHOW INTERFACE BETWEEN DISSIMILAR MATERIALS; AND TO DEMONSTRATE COMPLIANCE WITH SPECIFIED INSTALLATION TOLERANCES. MOCKUPS ARE NOT SAMPLES. UNLESS OTHERWISE INDICATED, APPROVED MOCKUPS ESTABLISH THE STANDARD BY WHICH ALL CABINETRY WILL BE JUDGED. THE MOCKUP MUST BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO BEGINNING ANY OF THE WORK ON THE INTERIOR CABINETRY.

GENERAL FINISH CARPENTRY NOTES:
1. ALL TRIM TO BE INSTALLED LEVEL, PLUMB AND TRUE.
2. PROVIDE MOCKUP OF ALL TRIM TYPE AND APPLICATIONS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION FOR THE PORTION OF THE PROJECT.
3. NO ADJUSTMENTS TO FRAMING SHALL BE MADE TO ACCOMMODATE TRIM WITHOUT THE EXPLICIT CONSENT OF THE ARCHITECT. IDENTIFY AND VERIFY ANY PROBLEMATIC LOCATIONS AND NOTIFY ARCHITECT PRIOR TO WORK.
4. RE: FIXTURE AND APPLIANCE SCHEDULE(S) TO REFERENCE AND ACCOMMODATE ALL SPECIFIED FIXTURES AND APPLIANCES TO BE LOCATED ADJACENT TO OR WITHIN MILLWORK AND TRIM LOCATIONS. THIS INCLUDES VERIFYING FINAL SELECTED REFRIGERATOR IS OPTIMIZED FOR USE WITH THE ADJACENT CABINETS.
5. PROVIDE FILLER STRIP ABOVE REFRIGERATORS THAT HAVE CABINETS ABOVE. FINAL REFRIGERATOR SELECTION VIA SUBMITTAL MUST BE MADE PRIOR TO FABRICATION OF THE CABINETS.
6. CABINET SUPPLIER TO FIELD MEASURE AREA OF WORK AFTER ROUGH FRAMING IS COMPLETE TO ASSURE THE CABINETS MATCH THE CONSTRUCTION DOCUMENTS AND FIT PRECISELY. NOTIFY ARCHITECT OF ANY DISCREPANCIES, INCLUDING ANY MODIFICATIONS THAT MUST BE MADE TO ACCOMMODATE THE SELECTED APPLIANCES. IT IS THE GENERAL AND SUBCONTRACTORS REQUIREMENT TO COORDINATE WITH THE FINAL APPLIANCE SELECTIONS.

DIVISION 07

GENERAL BUILDING ENVELOPE NOTES:
1. THE CONTRACTOR IS REQUIRED TO REVIEW ALL ENVELOPE DETAILS AND BE FAMILIAR WITH ALL WATERPROOFING, DAMPPROOFING, FLASHING, SEALING, AND INSTALLATION SEQUENCES.
2. THE CONTRACTOR SHALL RETAIN THEIR OWN INDEPENDENT THIRD PARTY ENVELOPE AND WATERPROOFING CONSULTANT TO REVIEW THE MEANS, METHODS, AND SEQUENCES BEING USED IN THE FIELD BY THE SUBCONTRACTORS AS IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO OVERSEE AND SUPERVISE ALL ACTUAL INSTALLATIONS.
3. THE CONTRACTOR SHALL HAVE MANUFACTURER'S REPRESENTATIVES PROVIDE A SITE REVIEW OF INSTALLATION OF THE ENVELOPE SYSTEMS SUCH AS WEATHER BARRIER, WINDOWS, ROOFING, ETC. AND THE REPRESENTATIVE SHALL PROVIDE A WRITTEN LETTER OF CERTIFICATION THAT THE INSTALLATIONS ARE PER MANUFACTURER'S REQUIREMENTS.
4. THE CONTRACTOR SHALL REVIEW THE STANDARD FLASHING AND INSTALLATION SEQUENCE FOR THE SELECTED WINDOW MANUFACTURER AND WEATHER BARRIER SYSTEM WITH THE ARCHITECT PRIOR TO INSTALLATION. FAILURE TO ENGAGE IN A FORMAL REVIEW WITH THE ARCHITECT SHALL INDEMNIFY THE ARCHITECT.
5. ALL JOINTS, PENETRATIONS, SEAMS OR CONNECTIONS FOR ANY ELEMENT OF THE BUILDING SHALL BE FLASHED AND/OR SEALED WITH COMPATIBLE MATERIALS AND PER MANUFACTURER'S REQUIREMENTS.
6. THE CONTRACTOR SHALL VERIFY IN WRITING THAT EACH SUBCONTRACTOR UNDERSTANDS THEIR SCOPE OF WORK AND RESPONSIBILITY FOR SEALING ANY PENETRATION THROUGH THE EXTERIOR BUILDING ENVELOPE. EACH CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD AND MATERIAL FOR SEALING OPENINGS FOR VENTS, DRYER VENTS, EXHAUST DUCTS/HOODS, PIPING, WIRE/CONDUIT LIGHTING FIXTURES, SWITCHES AND/OR RECEPTACLES, CONDENSATE LINES OR ANY OTHER SYSTEM PENETRATION OF THE EXTERIOR BUILDING ENVELOPE. ALL EXPOSED ITEMS MENTIONED ABOVE ARE TO BE PAINTED, VERIFY COLOR WITH ARCHITECT.
7. CORROSION RESISTANT FLASHING SHALL BE INSTALLED AROUND ALL DOOR AND WINDOW OPENINGS, AROUND ALL ROOF OPENINGS AND AT THE INTERSECTION OF ALL ROOF PLANES (VALLEYS, RIDGES AND HIPS) WITH FRAME WALLS AND AT THE HEAD, BASE AND OPENINGS IN ALL MASONRY WALLS. SEAL ALL UPPER LEG FLASHING MATERIAL TO THE BUILDING SUBSTRATE WITH SELF ADHERING MEMBRANE FLASHING MATERIAL (PRIME ALL SURFACES TO ACCEPT SELF ADHERING MEMBRANE FLASHING PER MANUFACTURER'S RECOMMENDATIONS). SEAL & MAKE WEATHER TIGHT. REFER TO SPECIFICATIONS FOR PROPER FLASHING AND SEALANT/CAULK TYPES. INSTALL ALL FLASHING PER SMACNA STANDARDS.
8. PROVIDE SEALANT AND CLOSURE AT INTERSECTIONS OF ALL JOINTS, TRIMS, AND FLASHINGS UNLESS THE SPECIFIC SYSTEM IS DESIGNED TO ALLOW WATER TO EXIT THE SYSTEM.
9. COORDINATE LOCATIONS OF ALL MATERIAL CONTROL JOINTS, TRANSITIONS, AND FINAL COLOR SELECTIONS WITH ARCHITECT FOR ANY INTERIOR OR EXTERIOR FINISH MATERIAL.
10. REFERENCE WINDOW SCHEDULE AND DETAILS FOR PLACEMENT AND INSTALLATION OF WINDOWS.
11. PER **IBC SECTION 1805.3**: FOR ALL LOCATIONS ON A PROJECT SITE WHERE A HYDROSTATIC PRESSURE CONDITION EXISTS ALL PERIMETER FOUNDATION WALLS AND/OR RETAINING WALLS AND FLOORS THAT ARE ADJACENT TO INTERIOR SPACES BELOW GRADE (INCLUDING CRAWL SPACES) SHALL HAVE A **FLUID APPLIED WATERPROOFING MEMBRANE** WITH A DRAINAGE MATT AND DRAINAGE FILL MATERIAL ALLOWING WATER TO PASS TO A MINIMUM 4" DRAINAGE PIPE WITH FILTER FABRIC AT THE FOOTING. DRAINAGE PIPE TO BE ROUTED BY THE CONTRACTOR TO AN APPROVED DRAINAGE SYSTEM AND ALL OF ITS REQUIREMENTS AS OUTLINED IN **IBC SECTION 1805.4** OR TO DAYLIGHT. VERIFY FINAL LOCATIONS OF WATERPROOFING AND DRAINAGE SYSTEMS WITH ARCHITECT, LANDSCAPE ARCHITECT, AND CIVIL ENGINEER.
12. PER **IBC SECTION 1805.2**, FOR ALL LOCATIONS ON A PROJECT SITE WHERE A HYDROSTATIC PRESSURE CONDITION DOES NOT EXIST, ALL FOOTINGS AND FOUNDATION SYSTEMS SHALL HAVE DAMPPROOFING WITH DRAINAGE FILL MATERIAL ALLOWING WATER TO PASS TO A MINIMUM 4" DRAINAGE PIPE WITH FILTER FABRIC AT THE FOOTING. DRAINAGE PIPE TO BE ROUTED BY THE CONTRACTOR TO AN APPROVED DRAINAGE SYSTEM AND ALL OF ITS REQUIREMENTS AS OUTLINED IN ALL CONDITIONS OF **IBC SECTION 1805.4**.
13. ALL ROOFS, GUTTERS, DOWNSPOUTS, DRAINS AND OTHER MEANS OF CONVEYING WATER DOWN AND AWAY FROM THE BUILDING SHALL BE INSTALLED ACCORDINGLY. THIS IS COMMON PRACTICE IN THE BUILDING INDUSTRY. ANY QUESTIONS OR DISCREPANCIES THAT ARE COUNTER TO THIS BASIC BUILDING CONCEPT ARE TO BE DISCUSSED WITH THE ARCHITECT.
14. ALL MECHANICAL AND UTILITY EQUIPMENT SHALL BE SCREENED. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, PROVIDE THE FOLLOWING AS A TYPICAL SYSTEM: PAINTED HSS2X1X.125 TUBE STEEL FRAMES (TOP RAIL AND VERTICALS AT 4' O.C. WITH FULLY WELDED CONNECTIONS) WITH PAINTED 16 GAUGE ROUND HOLE PERFORATED STEEL PANELS (40% OPEN AREA). SCREEN SHALL BE BUILT TO BE A MINIMUM OF 6" TALLER THAN THE HIGHEST POINT OF THE EQUIPMENT BEING SCREENED AS MEASURED FROM THE FINISHED ROOF TO THE TOP OF THE EQUIPMENT. THE ENTIRE SCREEN SYSTEM SHALL BE ADEQUATELY ANCHORED TO THE PRIMARY STRUCTURAL SYSTEM OF THE BUILDING, WHICH INCLUDES PENETRATING THE WATERPROOF ROOF MEMBRANE. PROVIDE BOOTING AND SEALING AS REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT FOR APPROVAL.
15. PER **IBC SECTION 1015.6** GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS, ROOF HATCH OPENINGS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A SPHERE 21 INCHES IN DIAMETER. THE GUARD SHALL EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF SUCH APPLIANCE, EQUIPMENT, FAN OR COMPONENT. UNLESS NOTED OTHERWISE IN THE DRAWINGS, THE GUARDRAIL SHALL BE: PAINTED HSS2X1X.125 TUBE STEEL (TOP RAIL, HORIZONTAL RAILS, AND VERTICALS AT 4' O.C. WITH FULLY WELDED CONNECTIONS) AND SHALL BE ADEQUATELY ANCHORED TO THE PRIMARY STRUCTURAL SYSTEM OF THE BUILDING, WHICH INCLUDES PENETRATING THE WATERPROOF ROOF MEMBRANE. PROVIDE BOOTING AND SEALING AS REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT FOR APPROVAL.
16. ROOF VENTING: ANY ROOF CAVITY WHERE THE THERMAL LAYER IS NOT IN DIRECT AND CONTINUOUS CONTACT WITH THE ROOF DECK SHEATHING LAYER, THIS ROOF MUST BE VENTED. VENTS SHOULD BE EVENLY DISTRIBUTED ACROSS EACH ROOF AREA AND EACH DIVIDED ROOF CAVITY. THE MIN. NET FREE VENTILATION AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE. WHERE 40-50% OF REQUIRED VENTS ARE LOCATED WITHIN 3 FEET OF THE HIGHER PORTION OF ROOF A NET FREE VENTILATION AREA CAN BE 1/300 OF THE AREA OF VENTED SPACE. ALL VENTS TO BE PROTECTED AGAINST THE ENTRANCE OF SNOW AND RAIN. COORDINATE LOCATION OF ALL VENTS WITH OTHER ROOFTOP EQUIPMENT AND STRUCTURAL MEMBERS.
17. FOR UNVENTED ROOF ASSEMBLIES. THE UNVENTED SPACE SHOULD BE COMPLETELY CONTAINED WITHIN THE BUILDING'S THERMAL ENVELOPE. WHERE AIR-PERMEABLE INSULATION IS USED, AN ADDITIONAL R-15 (FOR CLIMATE ZONE 4) AIR IMPERMEABLE LAYER SHOULD BE INSTALLED DIRECTLY ABOVE THE AIR PERMEABLE LAYER. REFERENCE IBC R806.5 FOR OTHER CLIMATE ZONES AND REQUIREMENTS.
18. ALL ROOF SLOPES TO BE 1/4" PER FOOT MINIMUM. INSTALL ROOF SYSTEMS PER MANUFACTURERS RECOMMENDED PROCEDURES FOR WARRANTY. COORDINATE VISUAL FINISH OF ALL TRIMS, FLASHING, AND EDGES WITH ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
19. TAPERED FOAM/PLYWOOD CRICKETS SLOPE 1/2" PER FOOT MINIMUM, TYP.
20. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL DRAWINGS FOR ROOFTOP EQUIPMENT PRIOR TO INSTALLATION.
21. NO PENETRATIONS OF THE ROOF DECK ARE PERMITTED WITHIN 4' OF A FIREWALL.
22. ROOF TO BE CLEANED OF ALL DEBRIS AND INSPECTED BY CONTRACTOR, SUBCONTRACTOR AND MANUFACTURER PRIOR TO SUBSTANTIAL COMPLETION.
23. ALL ADDED ELEMENTS TO THE MEMBRANE ROOF MUST HAVE SACRIFICIAL STRIPS OF COMPATIBLE 60 MIL. MEMBRANE BETWEEN ELEMENT AND MAIN ROOF MEMBRANE. ALSO PROVIDE SACRIFICIAL LAYERS AT ANY LOCATIONS THAT A SCUPPER WILL CONVEY WATER FROM A HIGHER ROOF ON TO A LOWER ROOF.
24. ALL WIRING CONDUIT, ETC. MUST HAVE APPROVED BLOCKS TO ELEVATE INSTALLED ITEMS ABOVE THE ROOF A MINIMUM OF 1.5". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OTHER TRADES OF THIS REQUIREMENT AND COORDINATE WITH THE ROOFING SUBCONTRACTOR AS REQUIRED.
25. ALL LAGS, ANCHORS, BOLTS, OR ANY OTHER PENETRATION SHALL HAVE WATERSTOP CAULKING/SEALANT AT EACH PENETRATION. IT IS THE SOLE RESPONSIBILITY OF ALL CONTRACTORS WORKING ON THE PROJECT TO HAVE THIS BASIC UNDERSTANDING THAT PENETRATIONS THROUGH THE ENVELOPE ARE NOT ALLOWED AND SHALL BE REMEDIED AT THE SOLE RESPONSIBILITY OF THAT THE CONTRACTOR THAT CREATES ANY PENETRATION WHATSOEVER.
26. ALL ROOF LOCATIONS WITH WALLS/PARAPETS SHALL BE PROVIDED WITH INTERNAL ROOF DRAINS OR DRAINAGE SCUPPERS AND OVERFLOW INLETS OR SCUPPERS SHALL BE PROVIDED FOR ALL ROOFS. VERIFY FINAL LOCATIONS AND CONFIGURATIONS WITH ARCHITECT IF THESE ARE NOT EXPLICITLY SHOWN AND DETAILED ON THE CONTRACT DOCUMENTS.
27. ALL CONDUCTOR HEADS ARE TO BE PROVIDED WITH OVERFLOW OPENINGS AT THE TOP OF DOWNSPOUT. CONFIRM SIZE AND SHAPE WITH ARCHITECT.
28. ALL ELEVATOR PITS ARE TO HAVE FLUID-APPLIED WATERPROOFING.

GENERAL SEPARATION + ACOUSTIC ASSEMBLIES.
1. ALL OUTLET/FIXTURE BOXES IN OPPOSITE FACES OF DEMISING WALLS SHALL BE SEPARATED HORIZONTALLY BY 24". BACK AND SIDES OF BOXES SHALL BE SEALED WITH 1/8" RESILIENT SEALANT.
2. COMMON PARTITIONS TO BE CONTINUOUS AND OF AIRTIGHT CONSTRUCTION ON EACH SIDE, INCLUDING THE APPLICATION OF CAULKING AND PLATE TAPE AROUND THE ENTIRE PERIMETER AND UNDER THE FLOOR PLATE.
3. GYPSUM BOARD: APPLY ACOUSTICAL SEALANT AT THE TOP AND BOTTOM OF ALL GYPSUM WALL BOARD AT THE INTERSECTION BETWEEN MATERIALS IN ALL DEMISING WALLS. HOLD GYPSUM WALL BOARD 1/8" FROM ALL FRAME EDGES. APPLY ACOUSTICAL SEALANT BETWEEN WALLBOARD AND CEILING BOARD. HOLD GYPSUM CEILING BOARD 1/8" FROM ALL FRAME EDGES.
4. PLATE: APPLY A CONTINUOUS 3/8" SEALANT BEAD AT EACH SIDE OF THE PLATE BEFORE SETTING GYPSUM WALL BOARD. GYPSUM WALL BOARD MUST BE SET INTO SEALANT TO FORM COMPLETE CONTACT WITH ADJACENT MATERIALS. PROCEDURE TO BE REPEATED FOR DOUBLE LAYER APPLICATION. DO NOT ALLOW GYPSUM WALL BOARD TO SIT DIRECTLY ON FLOOR.
5. ALL RIGID CONDUIT, DUCTS, PLUMBING PIPES, AND APPLIANCE VENTS LOCATED IN SOUND ASSEMBLIES SHALL BE ISOLATED FROM THE BUILDING CONSTRUCTION AT POINTS OF CONTACT BY MEANS OF RESILIENT SLEEVES, MOUNTS OR MINIMUM 1/4" THICK APPROVED RESILIENT MATERIAL. ALL WASTE AND SUPPLY PIPES ARE NOT TO COME IN CONTACT WITH ANY FRAMING MEMBER. USE 1/4" FELT STRIPS OR NEOPRENE WASHERS TO ISOLATE PIPES WHERE NEEDED.
6. BACKS OF ELECTRICAL BOXES, PIPES, DUCT SYSTEMS AND OTHER TYPES OF UTILITY EQUIPMENT PENETRATING WALL SURFACES SHALL BE SEALED WITH SEALANT. ALL JOINTS AT PERIMETER EDGES INCLUDING ABUTTING SURFACES AND CORNER JOINTS FORMED BY COMPONENTS SHALL BE SEALED WITH SEALANT.
7. ALL DUCTS LOCATED INSIDE ANY SOUND ASSEMBLIES (WALL AND FLOOR) SHALL BE LINED.
8. WATER CLOSETS TO BE RESILIENTLY MOUNTED WHEN SERVED BY DRAINS OR VENTING WHICH ARE INSTALLED WITHIN SOUND RATED ASSEMBLIES.
9. WHERE RESILIENT CHANNELS ARE INDICATED, VERIFY THAT THE PROPER TYPE OF CHANNEL IS SUPPLIED (25-27 GAUGE WITH MIN. 4" SLOTTED OPENINGS AND 1/2" SEPARATION SLOTS). VERIFY PROPER INSTALLATION OF CHANNEL. VERIFY PROPER SCREW SELECTION IS USED FOR DRYWALL ATTACHMENT TO PENETRATE CHANNEL AND DRYWALL ONLY AND NOT THE FRAMING MEMBER BEHIND THE DRYWALL.

GENERAL AIR SEALING NOTES.
1. THE ENERGY CODE REQUIRES THAT A CONTINUOUS AIR BARRIER AND THERMAL BARRIER AT ALL EXTERIOR LOCATIONS ON THE BUILDING(S) MUST BE PROVIDED. BLANKET INSULATION SHALL HAVE NO GAPS, VOIDS OR COMPRESSION. GAPS IN THE AIR BARRIER SHALL BE FULLY SEALED WITH CAULK, FOAM OR TAPE AND/OR AIR BARRIER MATERIALS SHALL OVERLAP TO PROVIDE A CONTINUOUS CONDITION. OPENINGS TO UNCONDITIONED SPACE ARE FULLY SEALED WITH SOLID BLOCKING, FLASHING, CAULKING OR OTHER MEANS OF COMPLETELY SEALING OFF THE SPACE.
2. FOAM OR CAULK SHOULD BE USED (SEE SPECIFICATIONS FOR APPLICABLE PRODUCT) TO SEAL AGAINST AIR LEAKAGE AT THE FOLLOWING LOCATIONS, INCLUDING BUT NOT LIMITED TO:
    a. BOTTOM AND TOP PLATE.
    b. PLATE PENETRATIONS FROM PLUMBING AND ELECTRICAL.
    c. TUB/SHOWER ON OUTSIDE WALL.
    d. TUB/SHOWER DRAIN LINE.
    e. WINDOW AND DOOR ROUGH OPENINGS.
    f. GAPS BETWEEN EXTERIOR WALL FRAMING MEMBERS GREATER THAN 1/4"
    g. BAND JOIST EXPOSED TO THE EXTERIOR.
    h. BAND AREA EXPOSED TO UNCONDITIONED SPACE.
    i. BAND AREA BETWEEN FLOORS, CONDITIONED SPACE, AND ATTIC.
    j. SEAM BETWEEN TAPERED EXTERIOR INSULATION.
    k. EXTERIOR WALL PENETRATIONS FOR REFRIGERATION LINES, CONDENSATE LINES, ETC...
    l. MECHANICAL EQUIPMENT AND DUCTWORK CHASES IN ATTICS, CRAWLSPACES.
    m. CEILING MOUNTED RECESSED LIGHTS, FANS, SPEAKERS, ETC.
    n. CEILING/ CRAWLSPACE ELECTRICAL BOXES, HVAC BOOTS, MUST BE SEALED TO DRYWALL.
    o. ALL SHAFT WALLS TO BE AIR SEALED.

GENERAL INSULATION NOTES:
1. PROVIDE SPRAY FOAM INSULATION R-21 AT TRUSS AND WALL INTERSECTIONS OR WHERE INSULATION SPECIFIED BELOW CANNOT BE ACCURATELY INSTALLED TO MAINTAIN THE THERMAL BARRIER.
2. INSULATION SHALL BE REQUIRED AS OUTLINED BELOW UNLESS OTHERWISE SCHEDULED ON THE BUILDING ENVELOPE SHEET:
    a. EXTERIOR WALL: R-19 UNFACED BATT INSULATION
    b. CATV / DATA ROOM WALLS: R-13 UNFACED BATT (INTERIOR WALLS ONLY)
    c. TENANT SEPARATION WALLS: R-13 UNFACED BATT (BOTH SIDES) (INTERIOR WALLS ONLY)
    d. INTERIOR WALLS: R-11 SOUND BATT INSULATION
    e. PARAPET WALLS: R-19 UNFACED BATTS
    f. SLAB ON GRADE: R-10 FOR 24" BELOW
    g. FLOOR (TYPE IIIB BUILDINGS): FULLY FILL CAVITY WITH BLOWN IN INSULATION
    h. FLOOR (TYPE VB BUILDINGS): DRAFTSTOP CAVITY + R-13 UNFACED BATT
    i. ROOF (TYPE IIIB BUILDINGS): FULLY FILL CAVITY WITH BLOWN IN INSULATION OR SPRINKLE CAVITY R38
    j. ROOF (TYPE VB BUILDINGS): DRAFTSTOP CAVITY + R-38 CONTINUOUS INSULATION
    k. CONDITIONED OVER UNCONDITIONED: R10.4 OPEN CELL INSULATION FOR MASS CONSTRUCTED FLOORS
3. ALL RATED FLOOR/CEILING CAVITIES AND ROOF/CEILING ASSEMBLIES TO USE NONCOMBUSTIBLE INSULATION.

DIVISION 08

GENERAL WINDOW, DOOR, AND GLAZING NOTES:
1. PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL FOR ALL WINDOW, DOOR, AND GLAZING PACKAGES AND INCLUDE ALL HARDWARE VIA SUBMITTAL TO ACCOMPANY THESE SHOP DRAWINGS.
2. ALL ENTRY DOORS TO A BUILDING OR UNIT WILL BE PAINTED THE SAME COLOR ON INTERIOR AND EXTERIOR SIDES UNLESS NOTED OTHERWISE. THIS COLOR MAY DIFFER FROM THE INTERIOR WALL AND TRIM COLOR.
3. ALL GLAZING FRAMES AND LOUVERS LOCATED WITHIN DOORS ARE TO BE PAINTED TO MATCH THE DOOR.
4. DIMENSIONED LOCATIONS FOR DOORS AND WINDOWS ARE EITHER TO THE CENTERLINE OR TO THE ROUGH FRAMING. A PRE-CONSTRUCTION MEETING BETWEEN CONTRACTOR AND ARCHITECT IS REQUIRED PRIOR TO LAYOUT FOR FRAMING.
5. DIMENSIONS ARE TYPICALLY REFERENCED FROM ROUGH FRAMING ELEVATION HEIGHTS. COORDINATE FINISH MATERIALS AND DIMENSIONS. RE: PLANS, SECTIONS, ELEVATIONS, DETAILS.
6. ALL HARDWARE ON VINYL WINDOWS AND DOORS SHALL BE COLOR MATCHED TO THE SIDE (EXTERIOR OR INTERIOR) ON WHICH THEY ARE INSTALLED.
7. HOLLOW METAL FRAME DEPTHS INDICATED IN THE DETAILS ARE NOMINAL. MANUFACTURER'S STANDARD WIDTH FRAME, WITH THROAT OPENING APPROPRIATE TO WALL TYPE MAY BE PROPOSED IN SHOP DRAWINGS IF NO OTHER MODIFICATION OF THE DETAIL IS REQUIRED.
8. FIELD VERIFY ALL DIMENSIONS FOR ALUMINUM STOREFRONTS, AND BUTT-GLAZED SYSTEMS.
9. ALL ANODIZED ALUMINUM STOREFRONT FRAMES TO BE BLACK UNLESS NOTED OTHERWISE, PROVIDE OPTIONS VIA SUBMITTAL.
10. VERIFY COLOR OF ALL SILICONE WITH ARCHITECT.
11. COLOR AND FINISH OF ALL SPACERS WITHIN INSULATED GLAZING UNITS ARE TO MATCH COLOR OF STOREFRONT, TYPICAL.
12. LOW PROFILE ALUMINUM GLAZING CHANNELS TO BE USED WHERE STOREFRONT IS NOT EXPLICITLY DEPICTED.
13. GLAZING MATERIALS SHALL BE QUALIFIED BY TESTS IN ACCORDANCE WITH NFPA-80, (FOR FIRE DOORS), AS APPROPRIATE FOR USE. THEY SHALL BE LABELED FOR THE REQUIRED FIRE PROTECTION RATING AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
14. PROVIDE SELF-ADHERING FLASHING TAPE AND PREFINISHED METAL FLASHING AT HEAD, JAMB, AND SILL LOCATIONS, TYP.
15. ALL DOOR SILL PLATES AND THRESHOLDS SHOULD BE SET IN A CONTINUOUS BED OF SEALANT. SEALANT SHOULD BE CONTINUOUS 6" UP BOTH JAMBS.
16. ALLOW FOR A 3/8" TO 1/2" SEALANT JOINT FOR GOOD ADHESION AND TOOLING AT DOORS AND WINDOWS. EXTEND ALL SILL FLASHING UP THE WALL 4" MINIMUM VERTICALLY, TYP. SEAL TOP EDGE OF FLASHING WITH URETHANE OR BUTYL MASTIC, TYP.
17. CAULK ALL ROUGH OPENINGS AROUND WINDOWS AND DOORS.
18. UNDERCUT INTERIOR DOORS IN DWELLING UNITS AS REQUIRED BY MECHANICAL, THIS SHALL BE INDICATED ON SHOP DRAWINGS.
19. ALL PRIMARY ENTRY/PUBLIC ACCESS DOORS ARE TO HAVE A SMOOTH 10" UNINTERRUPTED SURFACE ON THE PUSH SIDE OF THE DOOR MEASURED VERTICALLY. THIS WILL BE A 10" MEDIUM STILE ON THE LOWER STILE OF THE DOOR ON ALL STOREFRONT, UNLESS NOTED OTHERWISE.
20. PERFORM WALK-THROUGH WITH ARCHITECT AND OWNER PRIOR TO ORDERING WINDOWS AND DOORS TO VERIFY SIZES AND LOCATIONS. REFERENCE SPECIFICATION REQUIREMENTS FOR PERFORMANCE AND DESCRIPTION.
21. ALL WINDOWS AND DOORS TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE MANUFACTURER'S REQUIREMENTS WITH ARCHITECTURAL DETAILS AND MANUFACTURER FLASHING REQUIREMENTS PER THE APPROVED ENVELOPE SUBMITTALS, PRIOR TO ORDERING WINDOWS AND DOORS.
22. ALL WINDOW AND DOOR SILL FLASHINGS SHALL BE FLUID-APPLIED MEMBRANES BY A MANUFACTURER THAT IS APPROVED VIA SUBMITTAL AND ALL MANUFACTURER REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AND TESTED BY THE CONTRACTOR'S BUILDING ENVELOPE/WATERPROOFING CONSULTANT.
23. PROVIDE BLOCKING AS REQUIRED FOR ALL INTERIOR GLASS INSTALLATIONS, INCLUDING MIRRORS AND SHOWER GLASS.
24. PER THE INTERNATIONAL CODE COUNCIL (IBC + IRC): RESIDENTIAL DWELLINGS WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE NOT LESS THAN 36 INCHES ABOVE THE FINISHED INTERIOR FLOOR SURFACE. OPERABLE SECTIONS OF THE WINDOWS SHALL NOT PERMIT OPENING THAT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 36 INCHES OF THE FINISHED FLOOR. EXCEPTIONS: 1) OPERABLE WINDOWS WHERE THE SILL PORTION OF THE OPENING IS LOCATED MORE THAN 7 FEET ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW AND THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2006. 2) WINDOWS WHOSE OPENINGS WILL NOT ALLOW A 4-INCH DIAMETER SPHERE TO PASS THROUGH THE OPENING WHEN THE WINDOW IS IN ITS LARGEST OPENED POSITION. 3) OPENINGS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2090. 4) WINDOWS THAT ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION 1013.8.1.
25. PER THE INTERNATIONAL CODE COUNCIL (IBC + IRC): GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION AND **TEMPERED GLASS IS REQUIRED**.
26. PER THE INTERNATIONAL CODE COUNCIL (IBC + IRC): GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION AND **TEMPERED GLASS IS REQUIRED**, EXCEPT WHERE THERE IS AN INTERVENING WALL OR OTHER PERMANENT BARRIER BETWEEN THE DOOR AND THE GLAZING OR IF THE GLAZING ADJACENT TO THE DOOR IS ON THE LATCH SIDE OF AND PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION IN ONE AND TWO FAMILY DWELLINGS OR WITHIN DWELLING UNITS IN GROUP R-2.
27. PER THE INTERNATIONAL CODE COUNCIL (IBC + IRC): GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION AND **TEMPERED GLASS IS REQUIRED**: 1) THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET. 2) THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR. 3) THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES ABOVE THE FLOOR. 4) ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE PLANE OF THE GLAZING. EXCEPTION: SAFETY GLAZING IS NOT REQUIRED IF A PROTECTIVE BAR 1-½ INCHES OR MORE IN HEIGHT, CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PLF WITHOUT CONTACTING THE GLASS IS INSTALLED ON THE ACCESSIBLE SIDES OF THE GLAZING BETWEEN 34 AND 38 INCHES ABOVE THE FLOOR.
28. DUE TO THE POSSIBILITY OF FIELD MODIFICATIONS OF WINDOW OPENINGS AND HEIGHTS WITHIN THE CONSTRUCTION PROCESS, THE CONTRACTOR, SUBCONTRACTOR, AND WINDOW/GLAZING SUPPLIER ARE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL WINDOWS THAT MEET THE ABOVE CRITERIA AND MUST PROVIDE SHOP DRAWINGS AND ORDER SHEETS TO THE ARCHITECT PRIOR TO ORDERING THE WINDOWS AND PRIOR TO INSTALLATION FOR CONSULTATION AND CONFIRMATION OF THESE REQUIREMENTS.
29. WHERE FIRE RATED DOORS ARE CALLED OUT IN CORRIDORS THESE DOORS SHALL ALSO MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784. INSTALLATION OF SMOKE DOORS SHALL BE IN ACCORDANCE WITH NFPA 105.

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issue for construction:

revisions:
mark date description

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now IMEG

NOT FOR CONSTRUCTION

WACHTER

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION, **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents.
GENERAL NOTES

design. CD
date. 2026.09.11
project. 25.18

G0.02

DIVISION 09

GENERAL FINISH NOTES:

1. ALL RAW MATERIALS INSTALLED IN THE PROJECT WILL BE PAINTED UNLESS OTHERWISE NOTED. SUBMIT A REQUEST FOR INFORMATION TO THE ARCHITECT AT THE TIME OF BIDDING IF THERE ARE ANY QUESTIONS ON THE SPECIFIC FINISH OF A MATERIAL.
2. ALL FINISH COLORS, STAINS, MATERIALS, ETC. MUST BE PROVIDED FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO INSTALLATION. A MINIMUM OF (3) 12 " X 12" SAMPLES OF THE FINAL SELECTED FINISH MATERIALS ARE REQUIRED. (1) SAMPLE WILL REMAIN ON THE JOBSITE, (1) SAMPLE WILL REMAIN AT THE ARCHITECT 'S OFFICE FOR COORDINATION WITH THE ENTIRE PALETTE OF THE PROJECT. (1) SAMPLE WILL BE PROVIDED TO THE OWNER. **THERE ARE ZERO EXCEPTIONS TO THIS REQUIREMENT .**
3. NO MODIFICATIONS OR ADDITIONAL TRIM IS TO BE ADDED TO ANY BUILT COMPONENT WITHOUT ARCHITECT 'S AUTHORIZATION.
4. GYPSUM DRYWALL INSTALLATION SHALL BE IN CONFORMANCE WITH THE GYPSUM ASSOCIATION'S RECOMMENDED PRACTICES FOR THICKNESS, ATTACHMENT, TAPING, FINISHING, AND STUD SPACING. WHEN GYPSUM DRYWALL IS USED IN CONJUNCTION WITH A FIRE RESISTANT RATED ASSEMBLY, THE INSTALLATION MATERIALS AND CONSTRUCTION SHALL CONFORM EXACTLY TO THE REQUIREMENTS OF THE ASSEMBLY LISTED.
5. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL AREAS OF GYPSUM BOARD SHALL HAVE CONTROL JOINTS SUCH THAT ANY LENGTH OF WALL OR CEILING IS NOT LONGER THAN 25 FEET. COORDINATE ALL FINAL LOCATIONS FOR CONTROL JOINTS WITH ARCHITECT.
6. ALL GYPSUM BOARD TO BE CAREFULLY COPED AROUND ALL STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING ELEMENTS WHERE EXPOSED.
7. GYPSUM DRYWALL FINISH SHALL BE A **LEVEL 4 SMOOTH FINISH AT ALL LOCATIONS** UNLESS NOTED OTHERWISE. ALL WALLS AND CEILINGS AT AMENITY AREAS MUST HAVE A WALK-THROUGH INSPECTION WITH THE ARCHITECT AFTER THE PRIME COAT IS APPLIED TO ENSURE DRYWALL FINISH WORK IS SMOOTH, SANDED, AND BLEMISH-FREE. IT IS THE CONTRACTOR 'S RESPONSIBILITY TO COORDINATE THIS MEETING WITH THE ARCHITECT AND SUBCONTRACTOR.
8. ALL SPRAYED PRIME COAT APPLICATIONS MUST BE BACKROLLED. THIS IS THE ONLY WAY TO SEE THE QUALITY OF FINISH ON THE ABOVE-MENTIONED DRYWALL WALKTHROUGH.
9. PROVIDE L-BEAD TRIMS AT ANY LOCATION THAT DETAILS A PROJECTED TRIM OPENING OR AT ANY LOCATION THAT REQUIRES AN INLINE SHARP EDGE.
10. MOISTURE RESISTANT GYPSUM DRYWALL SHALL BE PROVIDED IN ALL BATHROOM, BATHTUB AND SHOWER LOCATIONS AND IN ALL PLUMBING "WET WALLS" (EXCEPT EXTERIOR WALL LOCATIONS). PROVIDE 5/8" TYPE X FIRE RESISTANT/MOISTURE RESISTANT DRYWALL IN THOSE "WET WALLS" REQUIRING A FIRE RESISTANCE RATING.
11. CEMENT BACKERBOARD AND WATERPROOFING SYSTEM SHALL BE PROVIDED BEHIND ALL TILE AT WET LOCATIONS.
12. TYPICAL PROJECT BASE TRIM AS DEFINED ON THE FINISH LEGEND IS TO BE PROVIDED AT GYPSUM BOARD LOCATIONS ONLY. UNLESS OTHERWISE NOTED, ALL BASE TRIM SHALL BE PAINTED 1X4 FINGER-JOINTED PAINT-GRADE PINE. ALL OTHER BASE MATERIALS AT OTHER MATERIAL WALLS TO BE DISCUSSED PRIOR TO INSTALLATION.
13. CONTRACTOR AND SUBCONTRACTOR SHALL ASSUME THAT ALL SURFACES ARE TO BE PAINTED UNLESS OTHERWISE NOTED OR CLARIFIED IN WRITING BY THE ARCHITECT.
14. CHANGES IN FLOOR FINISH OR DIRECTION SHALL OCCUR AT THE CENTER OF THE DOOR IN THE CLOSED POSITION UNLESS NOTED OTHERWISE.
15. ALL EXPOSED DUCTWORK, PIPING, PLUMBING, CONDUIT OR ANY OTHER DEVICES OR ELEMENTS ARE TO BE PAINTED IN ANY PUBLIC AREA THAT DOES NOT HAVE A FINISHED CEILING CONCEALING THESE ITEMS.
16. ALL PAINT MATERIAL SHALL BE 'NO VOC'.
17. ALL ADHESIVES AND SEALANTS SHALL BE 'LOW VOC' OR 'NO VOC'
18. FINISH ALL EXPOSED SURFACES OF CASEWORK, INCLUDING THE TOP.
19. FIELD-FINISHED WOOD FLOORS TO INCLUDE A NON-YELLOWING TRAFFIC COAT IN SATIN FINISH UNLESS NOTED OTHERWISE.
20. ALL WOOD STAIR TREADS AND RISERS TO BE FIELD-FINISHED WOOD TO MATCH THE FIELD-FINISHED FLOORS, UNLESS NOTED OTHERWISE.
21. USE NON-PAPER-FACED BACKER BOARD BEHIND ALL TUB/SHOWER AREAS.
22. WHERE PAINT COLOR IS INDICATED ON PLAN OR FINISH SCHEDULE, ONLY APPLY FINISH TO DRYWALL SURFACES UNLESS OTHERWISE NOTED.
23. CONTRACTOR TO ENSURE ALL FLOORS RECEIVING FINISHES ARE PROPERLY PREPARED FOR SPECIFIED FINISH INCLUDING FLOOR PREPARATION, TEMPERATURE, AND HUMIDITY.
24. CONTRACTOR TO ENSURE ALL WALLS RECEIVING NEW FINISHES ARE PROPERLY PREPARED FOR SPECIFIED FINISH.
25. ALL FLOOR FINISH CHANGES ARE TO RECEIVE METAL TRANSITION STRIPS, COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
26. UNLESS NOTED OTHERWISE, ALL PAINT FINISHES SHALL BE AS FOLLOWS:
    a. GYPSUM BOARD WALLS - SATIN FINISH (CLEANABLE/SCRUBBABLE).
    b. GYPSUM BOARD CEILINGS - FLAT FINISH
    c. TRIM - SATIN FINISH (CLEANABLE/SCRUBBABLE).
    d. METAL - SATIN FINISH
27. ALL DOORS AND FRAMES TO BE PAINTED SHALL MATCH ADJACENT WALL COLOR. UNLESS NOTED OTHERWISE, WHERE REQUIRED, ANY PAINT CHANGE FROM INTERIOR TO EXTERIOR OF DOOR FRAME SHALL TRANSITION AT INTERIOR CORNER ON THE CLOSED SIDE OF DOOR.
28. ALL INTERIOR WOOD SURFACES ARE TO RECEIVE 2 COATS OF MINWAX POLYCRYLIC MATTE FINISH ON ALL EXPOSED FINISHED FACES OF THE ELEMENT, UNLESS NOTED OTHERWISE.
29. ALL EXTERIOR WOOD SURFACES ARE TO RECEIVE 2 COATS OF MINWAX HELMSMAN SPAR URETHANE ON ALL 4 SIDES, UNLESS NOTED OTHERWISE.
30. ALL WET WALL LOCATIONS SHALL USE MOISTURE RESISTANT GYPSUM BOARD.
31. ALL TUB AND SHOWER AREAS TO USE CEMENT BACKER BOARD.

DIVISION 10

GENERAL SPECIALTY NOTES:

1. COORDINATE ALL SPECIALTIES WITH ARCHITECT FOR FINAL PLACEMENT AND ENSURE THAT BLOCKING IS PROVIDED AS REQUIRED. CONTRACTOR MUST SCHEDULE A WALK-THROUGH AT THE APPROPRIATE TIME IN THE CONSTRUCTION PROCESS.
2. CONTRACTOR SHALL PROVIDE AMERICAN SPECIALTIES STAINLESS STEEL TOILET ACCESSORIES FOR EACH PUBLIC RESTROOM, INCLUDING THE FOLLOWING ITEMS, UNLESS OTHERWISE NOTED OR SPECIFIED IN THE DRAWINGS AND PROJECT MANUAL:
    a. TWIN HIDE-A-ROLL RECESSED TOILET TISSUE DISPENSER, MODEL 0031 FOR RECESSED LOCATIONS, MODEL 0030 FOR SURFACE MOUNTED LOCATIONS
    b. SIMPLICITY COLLECTION - RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
    c. SIMPLICITY COLLECTION - RECESSED SOAP DISPENSER
    d. SIMPLICITY COLLECTION - RECESSED SANITARY NAPKIN DISPOSAL (1 PER ALL GENDER RESTROOM/1 PER FEMALE TOILET STALL)
    e. TURBO-TUFF RECESS MOUNTED HIGH SPEED HAND DRYER – ADA COMPLIANT
    f. STAINLESS STEEL RECESSED BABY CHANGING STATION
    g. 3000 SERIES GRAB BARS
    h. STAINLESS STEEL INTER-LOK ANGLE FRAME PLATE GLASS MIRROR (24 " X 42")

DIVISION 11

GENERAL EQUIPMENT NOTES:

1. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, OPENINGS AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT TO BE FURNISHED BY THE OWNER OR OTHERS WITH THE MANUFACTURER OR SUPPLIER BEFORE STARTING ANY CONSTRUCTION RELATED TO SAID WORK AND/OR EQUIPMENT.
2. ALL FINAL APPLIANCE AND EQUIPMENT SELECTIONS ARE TO BE COORDINATED DIRECTLY WITH FRAMING, MILLWORK, AND TRIM FABRICATIONS AND INSTALLATIONS.
3. ALL REQUIRED BLOCKING SHALL BE REVIEWED PER SELECTED EQUIPMENT AND APPLIANCES.

DIVISION 12

GENERAL FURNISHING NOTES:

1. ALL COUNTERTOPS SHALL BE 2CM STANDARD/COMMERCIAL GRADE QUARTZ, UNLESS OTHERWISE NOTED.
2. PROVIDE MINIMUM 1/4 " STEEL FLAT BAR COUNTERTOP SUPPORTS FOR ANY COUNTERTOP OVERHANG GREATER THAN 6 ". STEEL FLAT BAR TO BE HELD 3" AWAY FROM OUTER EDGE OF ANY COUNTERTOP OVERHANGS. STEEL FLAT BAR TO EXTEND A MINIMUM OF 2 ' BACKSPAN AND SHALL BE PROVIDED AT A MAXIMUM OF 18" O.C.
3. ALL EDGES OF COUNTERTOPS SHALL BE EASED VERTICAL EDGES, UNLESS OTHERWISE NOTED.
4. PROVIDE 4" VERTICAL BACKSPLASH/SIDESPLASH MATCHING THE MATERIAL OF THE COUNTERTOP AT ALL LOCATIONS WHERE THE COUNTERTOP MEETS A WALL, UNLESS OTHERWISE NOTED.

DIVISION 14

GENERAL ELEVATOR NOTES:

1. PROVIDE ALL STAINLESS STEEL ELEVATOR DOORS, FRAMES, AND INTERIOR FINISH OF CABS, UNLESS OTHERWISE NOTED OR SPECIFIED IN THE PROJECT MANUAL.
2. AN APPROVED PICTORIAL SIGN OF A STANDARD DESIGN SHALL BE POSTED ADJACENT TO EACH ELEVATOR CALL STATION ON ALL FLOORS INSTRUCTING OCCUPANTS TO USE THE EXIT STAIRWAYS AND NOT TO USE THE ELEVATORS IN CASE OF FIRE. THE SIGN SHALL READ: IN FIRE EMERGENCY, DO NOT USE ELEVATORS. USE EXIT STAIRS. AFPC 607.2
3. ELEVATOR KEY BOXES WITH FIREFIGHTER CONTROL KEYS AND THE ELEVATOR CAR DOOR KEY ARE REQUIRED AT THE MAIN FLOOR ELEVATOR LOBBY CALL BUTTON LOCATION. THE KEY TO THESE BOXES WILL BE IN THE BUILDING KNOX BOX. AFPC 607.3 KEYS FOR THE ELEVATOR CAR DOORS AND FIRE-FIGHTER SERVICE KEYS SHALL BE KEPT IN AN APPROVED LOCATION FOR IMMEDIATE USE BY THE FIRE DEPARTMENT.
4. NEW ELEVATORS SHALL BE PROVIDED WITH PHASE I EMERGENCY RECALL OPERATION AND PHASE II EMERGENCY IN-CAR OPERATION IN ACCORDANCE WITH ASME A17.1. AFPC 607.1
5. ALL ELEVATOR PITS ARE TO HAVE FLUID-APPLIED WATERPROOFING.

DIVISION 21

GENERAL FIRE RATING + SUPPRESSION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING STRICT COMPLIANCE WITH THE PUBLISHED MATERIAL AND CONSTRUCTION REQUIREMENTS FOR ALL IDENTIFIED FIRE RESISTANCE RATED WALL, FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES.
2. THE CONTRACTOR SHALL VERIFY IN WRITING THAT EACH SUBCONTRACTOR AND SUPPLIER IS AWARE OF THE LOCATION OF ALL FIRE RESISTANT RATED SEPARATION ASSEMBLIES AND HAS A FULL UNDERSTANDING OF THEIR RESPONSIBILITIES TO PROVIDE A UL RATED PENETRATION PROTECTION ASSEMBLY FOR ANY PENETRATION OF THEIR WORK OR SYSTEMS THROUGH ANY RATED WALL AND FLOOR/CEILING, ROOF/CEILING ASSEMBLIES. PROPOSED PENETRATION ASSEMBLIES SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL AND SUBMITTED TO THE AHJ PRIOR TO INSTALLATION AT THE PROJECT SITE. PROVIDE BOUND COPIES OF PROPOSED PROTECTION ASSEMBLIES, CLEARLY INDICATING THE ASSEMBLY, THE PENETRATION AND THE ASSEMBLY TYPE BEING PENETRATED.
3. DRAFTSTOPPING AND FIREBLOCKING SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS. DRAFTSTOPPING SHALL BE INSTALLED IN ALL FLOOR/CEILING ASSEMBLIES AND IN ATTIC SPACES IN LINE WITH **TYPICAL TENANT SEPARATION ASSEMBLIES** IN ADDITION TO THOSE LOCATIONS INDICATED ON THE ROOF PLAN.
4. FIREBLOCK ALL INTERSECTIONS OF WALL CAVITIES WITH FURRED-DOWN AREAS.
5. ALL CAVITY OR CONCEALED SPACES SHALL BE DRAFTSTOPPED PER CODE REQUIREMENTS. REFER TO IBC CHAPTER 7.
6. PROVIDE FIRE EXTINGUISHER TYPES AS REQUIRED PER CODE/AHJ BASED ON THE LOCATION OF THE FIRE EXTINGUISHER. ONE FIRE EXTINGUISHER SHALL BE PROVIDED FOR EACH DWELLING UNIT AT INTERVALS A MAXIMUM TRAVEL DISTANCE OF 75 FEET WITHIN ANY OCCUPIED SPACE. FINAL LOCATIONS TO BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. FIRE EXTINGUISHERS IN PUBLIC AREAS SHALL BE INSTALLED IN SEMI-RECESSED STEEL CABINETS. PAINT COLOR TO BE SELECTED BY ARCHITECT.
7. ALL EXTERIOR SPACES SUCH AS BALCONIES, TERRACES, ETC. THAT REQUIRE A SPRINKLER HEAD SHALL HAVE A VICTAULIC VICFLEX DRY SPRINKLER HEAD OR APPROVED EQUAL, IN THE EVENT THAT A DRY HEAD SPRINKLER WILL NOT WORK, A FUR DOWN SOFFIT SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
8. SHOP DRAWINGS FROM THE DESIGN-BUILD FIRE SPRINKLER SUBCONTRACTOR ARE REQUIRED TO BE SUBMITTED TO THE ARCHITECT FOR ALL FIRE SPRINKLER SYSTEMS. FIRE SUPPRESSION SUBCONTRACTOR IS REQUIRED TO CREATE SHOP DRAWINGS UTILIZING BASE DRAWINGS THAT ACCURATELY DEPICT MECHANICAL AND OTHER PLUMBING ITEMS. AS THE FIRE SPRINKLER SYSTEM IS TYPICALLY INSTALLED FIRST IT IS REQUIRED THAT THE CONTRACTOR AND SUBCONTRACTOR HAVE A COORDINATED MEETING WITH OTHER SUBCONTRACTORS TO AVOID CONFLICTS. FAILURE TO COORDINATE MAY RESULT IN RE-WORK THAT SHALL NOT BE BILLED TO THE OWNER.
9. **ALL SPRINKLER HEADS ARE TO BE BLACK CONCEALED HEADS, OR OTHER COLOR AS SELECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. THIS NOTE SUPERSEDES THE TYPE CALLOUTS ON ANY MEPFP SPECIFICATIONS.**
10. ALL EXPOSED FIRE PROTECTION PIPING WITHIN PUBLIC AREAS THAT DO NOT HAVE A FINISH CEILING SHALL BE PAINTED.

DIVISION 22

GENERAL PLUMBING NOTES:

1. COORDINATE FINISH AND FINAL LOCATION OF ALL FIXTURES WITH ARCHITECT.
2. SHOWER CONTROL VALVES AND SHOWER HEAD TO BE SPECIFICALLY COORDINATED WITH ARCHITECT FOR PROPER MOUNTING HEIGHT AND LOCATIONS PRIOR TO INSTALLATION. THIS REQUIREMENT IS CRITICAL TO FINALIZING LOCATIONS RELATIVE TO FAIR HOUSING AND ANSI/ADA REQUIREMENTS FOR ALL FIXTURES
3. WATER HEATER OR AIR HANDLING UNIT PLATFORMS TO BE 2X4 PRESSURE TREATED FRAMING WITH ¾ " OSB ON TOP UNLESS OTHERWISE NOTED. PROVIDE BLOCKING IN ADJACENT FRAMED WALLS AS REQUIRED.
4. ALL WATER HEATERS TO HAVE PAN, TYP.
5. ALL DOMESTIC COLD WATER PLUMBING IS TO HAVE ½ " INSULATION AT ABOVE AND BELOW GROUND LOCATIONS.
6. ALL DOMESTIC HOT WATER PLUMBING IS TO HAVE 1 " INSULATION AT ALL ABOVE AND BELOW GROUND LOCATIONS.
7. ALL EXPOSED PLUMBING AND PIPING WITHIN PUBLIC AREAS THAT DO NOT HAVE A FINISH CEILING SHALL BE PAINTED.

DIVISION 23

GENERAL MECHANICAL + VENTING NOTES:

1. MECHANICAL SUBCONTRACTOR MUST PROVIDE SHOP DRAWING SUBMITTALS OF ALL EXPOSED DUCTWORK TO THE ARCHITECT, NO EXCEPTIONS.
2. COORDINATE SIZE, TYPE, FINISH, AND LOCATION OF ALL SUPPLY AND RETURN AIR GRILLS WITH ARCHITECT PRIOR TO INSTALLATION.
3. PROVIDE MINIMUM MERV 8 FILTERS FOR HVAC SYSTEMS.
4. SUBCONTRACTOR TO NOTIFY CONTRACTOR AND ARCHITECT OF ANY CONCERNS REGARDING CFM DISTRIBUTION, SOUND LEVELS, ETC. FOR THE DESIGNED OR IMPLIED HVAC SYSTEM. CALCULATIONS FOR TONNAGE AND LOADING ARE THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR IF THIS INFORMATION IS NOT PROVIDED AND SPECIFIED BY AN MEP ENGINEER WITHIN THE CONSTRUCTION DOCUMENTS.
5. VENTING SHALL COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE STATE OR LOCAL BUILDING CODE REQUIREMENTS.
6. INTERIOR DRYER VENT HOOK UPS SHALL BE IN THE SAME PROXIMITY TO THE DRYER FOR ALL UNITS. REFER TO DRYER/APPLIANCE INFORMATION FOR EXACT LOCATION OF EXHAUST CONNECTION TO APPLIANCE.
7. ALL EXHAUST VENT ROUTING SHALL COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS. DRYER AND EXHAUST VENT DUCTS RUNNING THROUGH RATED ASSEMBLIES AND/OR OTHER UNITS SHALL BE PROTECTED IN A SHAFT OR RATED ENCLOSURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS.
8. HVAC UNIT RETURN AIR INTAKE LOCATIONS SHALL NOT BE WITHIN 10 ' OF ANY COOKING APPLIANCE, COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL EXTERIOR THROUGH-WALL EXHAUST OR OTHER MECHANICAL PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECT FOR FINAL LOCATION AND SHALL INCLUDE ALIGNMENT AND STACKING FLOOR TO FLOOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING WITH THE APPLICABLE SUBCONTRACTORS TO ENSURE THIS REQUIREMENT IS ADHERED TO FROM FRAMING TO FINAL INSTALLATION. FAILURE TO COMPLY WITH THIS NOTE FOR LOCATIONS AND ROUTING TO ACHIEVE UNIFORM AND PROPERLY PLACED EXHAUST VENTS ON THE FACADE OF THE BUILDING MAY REQUIRE RE-WORK AT NO ADDITIONAL COST TO THE OWNER AND AT THE DISCRETION OF THE ARCHITECT.
10. TYPICAL EXHAUST VENT IS TO BE A PAINTED METAL FLUSH LOUVER (RUSKIN ELF837, TYP.) INTENDED FOR INSTALLATION IN THE APPLICABLE FACADE FINISH MATERIAL. THIS REQUIREMENT SUPERSEDES THE MECHANICAL, ELECTRICAL, OR PLUMBING SHEETS.
11. ALL EXPOSED MECHANICAL DUCTWORK AND DEVICES WITHIN PUBLIC AREAS THAT DO NOT HAVE A FINISH CEILING SHALL BE PAINTED.

DIVISION 26

GENERAL ELECTRICAL NOTES:

1. ALL LIGHTING FIXTURES ARE TO BE DIMMABLE FIXTURES **(THIS REQUIREMENT SUPERCEDES ANY NOTE ON ANY MEPFP OR OTHER CONSULTANT DRAWINGS)** AND A SUBMITTAL MUST BE PROVIDED FOR REVIEW BY THE ARCHITECT, NO EXCEPTIONS. ANY SUBMITTED LIGHTING FIXTURES THAT ARE SUBSTITUTIONS FOR THE ORIGINALLY SPECIFIED FIXTURES SHALL BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR FOR EQUIVALENT PHOTOMETRICS, TYPE, LUMENS, COLOR TEMPERATURE, AND COLOR FINISH OF THE ORIGINAL FIXTURE, NO EXCEPTIONS. THE ARCHITECT WILL NOT REVIEW ANY LIGHTING SUBMITTAL THAT DOES NOT FIRST MEET THIS REQUIREMENT, NO EXCEPTIONS.
2. CONTRACTOR TO SCHEDULE A WALK THROUGH OF THE BUILDING(S) WITH ARCHITECT PRIOR TO PLACEMENT OF ANY ROUGH-IN BOXES, FIXTURES OR OTHERWISE IN ORDER TO DISCUSS COORDINATION AND FINAL PLACEMENT. THE CONTRACTOR AND SUBCONTRACTORS SHALL NOT GUESS LOCATIONS OF ROUGH-IN BOXES/FIXTURES IN FRAMED WALLS BASED ON THE ELECTRICAL DRAWINGS. THIS INCLUDES ALL ITEMS INCLUDING LOW VOLTAGE, DATA, SECURITY OR OTHERWISE.
3. ALL SWITCHES TO BE DECORATIVE ROCKER TYPE DIMMERS UNLESS NOTED OTHERWISE.
4. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL LIGHTING + POWER PLANS, ALL ARCHITECTURAL PLANS, AND ALL LANDSCAPE ARCHITECTURAL PLANS FOR ALL LIGHTING FIXTURE LOCATIONS. COORDINATE FINAL DIMENSIONS AND PLACEMENT WITH ARCHITECT. NO EXCEPTIONS.
5. ALL LIGHTING FIXTURES LOCATED IN CEILINGS ARE TO BE ALIGNED IN ROWS AS INDICATED ON THE DRAWINGS. NO EXCEPTIONS.
6. THE COLOR OF ALL ELECTRICAL OUTLETS, FIXTURES, SWITCHES, AND COVER PLATES TO BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION. WALLS AND MILLWORK MAY VARY IN SELECTED COLOR FROM ROOM TO ROOM.
7. COORDINATE LOCATION OF ALL DATA/CABLE RACEWAYS OR CONDUIT IN EXPOSED CEILINGS WITH ARCHITECT AND WITH OTHER SUBCONTRACTORS SCOPE OF WORK.
8. ALL LIGHTING IS TO BE COORDINATED FOR COLOR TEMPERATURE AND SHALL BE 3000K, UNLESS NOTED OTHERWISE.
9. ALL ELECTRICAL PANELS, DOORS OR COMPONENTS THAT ARE EXPOSED TO VIEW IN RESIDENTIAL UNITS OR COMMON SPACES SHALL BE PAINTED TO MATCH THE ADJACENT WALL, UNLESS NOTED OTHERWISE.
10. ALL EXPOSED ELECTRICAL CONDUIT OR DEVICES WITHIN PUBLIC AREAS THAT DO NOT HAVE A FINISH CEILING SHALL BE PAINTED.

DIVISION 28

GENERAL LOW VOLTAGE NOTES:

1. ALL LOW VOLTAGE ITEMS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. LOW VOLTAGE SUBCONTRACTOR SHALL PROVIDE A LAYOUT IN PLAN AND ELEVATION AS REQUIRED SO THAT THE AESTHETIC PLACEMENT CAN BE CONTROLLED.
2. ALL CAMERAS MUST BE APPROVED BY THE ARCHITECT FOR COLOR, SIZE AND MOUNTING LOCATIONS.
3. ALL ACCESS CONTROL SHALL COORDINATED BETWEEN THE SUBCONTRACTOR AND THE OWNER.

DIVISION 32

GENERAL SITE + EXTERIOR IMPROVEMENT NOTES:

1. THE CONTRACTOR SHALL REFERENCE AND COORDINATE WITH ALL SURVEYING, CIVIL ENGINEERING, LANDSCAPE ARCHITECT, AND ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT EXCAVATION AND SITE WORK.
2. THE CONTRACTOR SHALL KNOW AND COORDINATE ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION RELATIVE TO SITE MANAGEMENT PRACTICES RELATIVE TO STORMWATER AND UTILITIES.
3. ALL SITE WORK AND LANDSCAPING HAS BEEN DEVELOPED AND DESIGNED BY THE ARCHITECT, CIVIL ENGINEER, AND LANDSCAPE ARCHITECT UNDER THE DIRECTION OF THE ARCHITECT. THE ARCHITECT HAS COORDINATED THE CONSTRUCTION DOCUMENT PACKAGE WITH THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT. HOWEVER, SHOULD THERE BE ANY DISCREPANCY BETWEEN THE DISCIPLINES, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR RESOLUTION, COORDINATED BY ALL DISCIPLINES. FURTHERMORE, IT IS KNOWN AND UNDERSTOOD BY THE CONTRACTOR THAT A COMPLETE AND FINISHED SITE SHALL BE HANDED OVER TO THE OWNER WHICH INCLUDES TOP SOIL COVERING ACROSS THE SITE FOR REQUIRED PLANTING, SOD, ETC. NO TOPSOIL FROM THE SITE SHALL BE ASSUMED TO BE AVAILABLE ON THE SITE UNLESS AN EXHIBIT, REPORT, OR OTHER DOCUMENT CLEARLY IDENTIFIES THIS TO BE THE CASE.
4. ALL EXISTING WORK OR LANDSCAPING NOT SHOWN TO BE ALTERED OR REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR AND SHALL REPAIR TO EXISTING CONDITION ANY DAMAGE TO EXISTING CONSTRUCTION, EQUIPMENT OR IMPROVEMENTS NOT INDICATED IN THE DRAWINGS OR SPECIFICATIONS TO RECEIVE ALTERATIONS, ADDITIONS, OR REMOVAL.
5. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES, PIPING CONDUIT OR EQUIPMENT.
6. THE CONTRACTOR SHALL PROVIDE A SECURE, SAFE, AND CLEAN SITE. SECURING OF ALL PERIMETERS WITH ADEQUATE FENCING SHALL BE INSPECTED AND INSTALLED DAILY.
7. REFER TO ARCHITECTURAL, LANDSCAPE AND ELECTRICAL DRAWINGS FOR EXTERIOR SITE AND BUILDING LIGHTING. ALL LIGHTING SHALL BE MATCHED IN COLOR TEMPERATURE.
8. REFER TO CIVIL ENGINEERING AND LANDSCAPE DRAWINGS FOR LOCATION OF RETAINING WALLS AND DETAILS.
9. LOCATION OF ALL BUILDING-MOUNTED AND GROUND-MOUNTED EQUIPMENT AND MATERIALS ARE TO BE COORDINATED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. THIS INCLUDES ALL TRANSFORMERS, METERS, CONTROL AND DISTRIBUTION BOXES, ETC.
10. ALL WALL MOUNTED EQUIPMENT, SUCH AS ELECTRICAL METERS/ETC., ARE REQUIRED TO BE PAINTED, VERIFY COLOR WITH ARCHITECT.
11. SLOPE ALL SIDEWALKS AWAY FROM BUILDING. PROVIDE A 1/2" DROP BETWEEN ALL EXTERIOR SLABS, PATIOS OR STOOPS AND THE INTERIOR FINISH FLOOR OF ADJACENT SPACE. FINAL RESULTING FLOOR DIFFERENCE AND THRESHOLD SHALL COMPLY WITH ACCESSIBILITY AND FAIR HOUSING REQUIREMENTS AS APPLICABLE.
12. ALL PATIOS, BALCONIES, BREEZEWAYS, AND GARAGES TO BE SLOPED A MINIMUM OF 1/4" PER 1'-0" (2%) IN DIRECTION INDICATED ON THE DRAWINGS OR AWAY FROM THE BUILDING WHERE DIRECTION IS NOT NOTED, NO EXCEPTIONS. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO SUPERVISE AND CONFIRM THE INSTALLATION OF PROPER SLOPE ON HORIZONTAL SURFACES.
13. STORE MATERIALS ONLY IN SPACES DESIGNATED BY THE CONTRACTOR. REMOVE RUBBISH FROM PREMISES AS OFTEN AS NECESSARY OR AS DIRECTED BY THE CONTRACTOR. THE AUTHORITY HAVING JURISDICTION REQUIRES STRICT CONFORMANCE WITH CONSTRUCTION LAY-DOWN AREAS AND OVERALL SITE CLEANLINESS.
14. VERIFY ALL GUTTER/DOWNSPOUT/DRAINAGE CONNECTION SYSTEMS FOR SIZE, FINISH, AND CONNECTION TYPES TO BUILDING(S) PRIOR TO FABRICATION AND INSTALLATION. VERIFY THE LOCATION AND TYPE OF CONNECTION TO STORM SEWER SYSTEM WITH CIVIL ENGINEER'S DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE SITE DRAINAGE CONTRACTOR TO PROVIDE UNDERGROUND PIPING FROM ALL DOWNSPOUT LOCATIONS INTO THE STORMWATER COLLECTION SYSTEM UNLESS NOTED OTHERWISE. TERMINATION AND TRANSITION BOOT AT THE DOWNSPOUT CONNECTION TO BE PROVIDED BY THE GUTTER AND DOWNSPOUT INSTALLER, IF REQUIRED. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT LOCATIONS THAT ARE NOT CONNECTED TO SUBSURFACE DRAINAGE, TYP.
15. REFER TO CIVIL ENGINEERING AND LANDSCAPE DRAWINGS FOR LOCATION OF SIDEWALKS, ROADS, CURBS AND ALL SITE RELATED DETAILS AS REQUIRED, INCLUDING UTILITY INFRASTRUCTURE REQUIREMENTS SUCH AS FIRE HYDRANTS.
16. CONTRACTOR SHALL PROVIDE STREET SWEEPING/CLEANING AT REGULAR INTERVALS.
17. REFER TO CIVIL, ARCHITECTURAL, AND LANDSCAPE DRAWINGS FOR ALL SITE RELATED ADA ACCESS ELEMENTS INCLUDING RAMPS AND SIGNAGE, ALL SITE PARKING CONFIGURATIONS AND FOR ALL PUBLIC AND PRIVATE WALKS. PROVIDE RAMPS, PARKING DESIGNATION, SPACES AND SIGNAGE IN FULL COMPLIANCE WITH AUTHORITY HAVING JURISDICTION 'S CODE REQUIREMENTS AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE.
18. REFER TO ARCHITECTURE DRAWINGS FOR LIGHTING AND ALL OTHER ELEMENTS RELATIVE TO OUTDOOR AMENITY SPACES. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

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issue for construction:
revisions: mark date description

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contents: GENERAL NOTES
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MAIN ENTRY - EAST



BACK ENTRY - SOUTH

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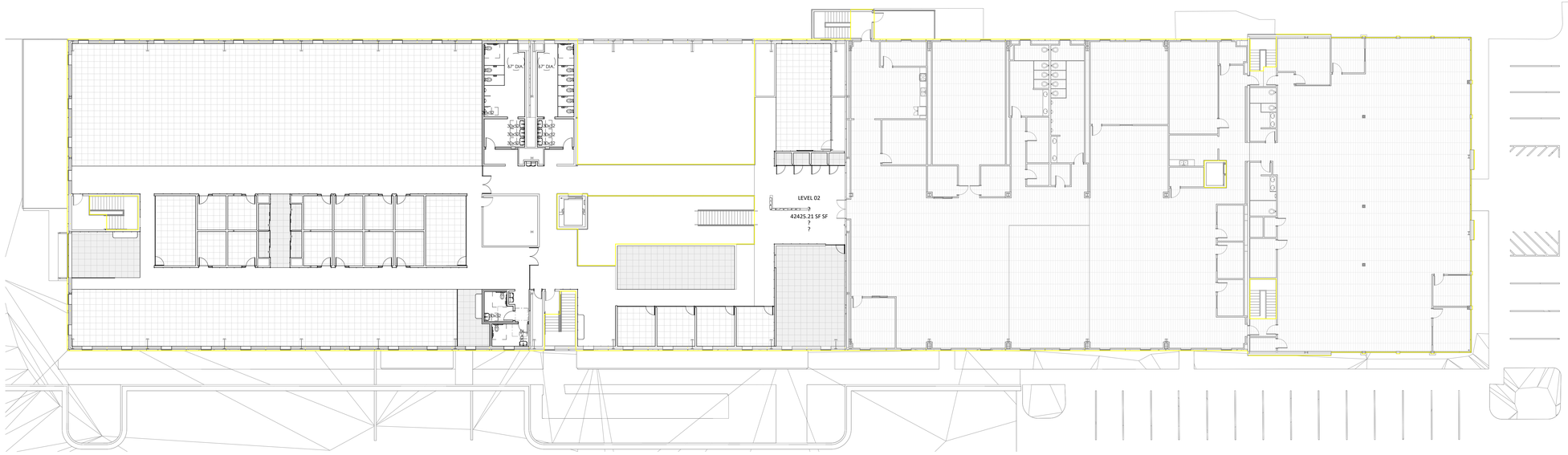
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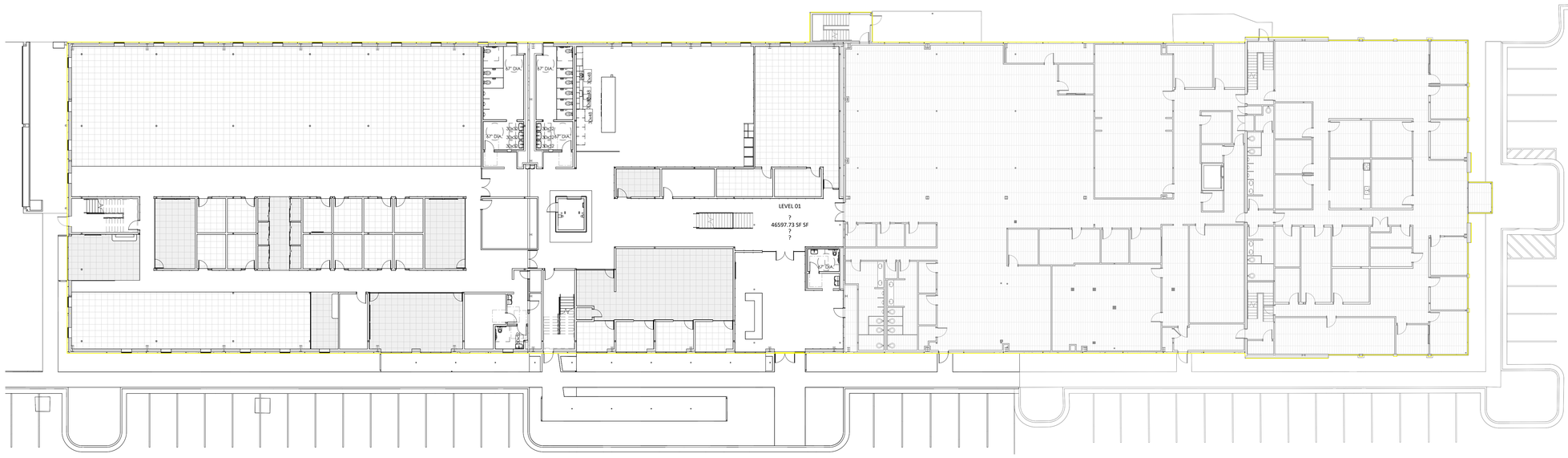
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PERSPECTIVES

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B1 LEVEL 02
A1.20 1/16" = 1'-0"



D1 LEVEL 01
A1.20 1/16" = 1'-0"

AREA - LIFE SAFETY - EQUATION 5-3								
Level	BUILDING TYPE	ACTUAL AREA	EQUATION 5-3	FORMULA 5-3	CALCULATED MAX ALLOWABLE AREA PER STORY PER BUILDING TYPE	A sub t	NS	I sub f
LEVEL 01	IIB (OCCUP. B)	46597.73 SF	(none)	Aa = [At + (NS x If)]				
LEVEL 02	IIB (OCCUP. B)	42425.21 SF	(none)					

AREA (LIFE SAFETY - OCCUP+USE, ALLOWABLE BUILDING AREA						
LEVEL	ACTUAL AREA	MAX ALLOWABLE AREA PER STORY PER BUILDING TYPE	OCCUPANCY TYPE	BUILDING TYPE	MAX ALLOWABLE STORIES PER BUILDING TYPE	MAX ALLOWABLE HEIGHT ABOVE AVERAGE GRADE PLANE
LEVEL 01	46597.73 SF 46597.73 SF			IIB (OCCUP. B)	4	75
LEVEL 02	42425.21 SF 42425.21 SF			IIB (OCCUP. B)	4	75

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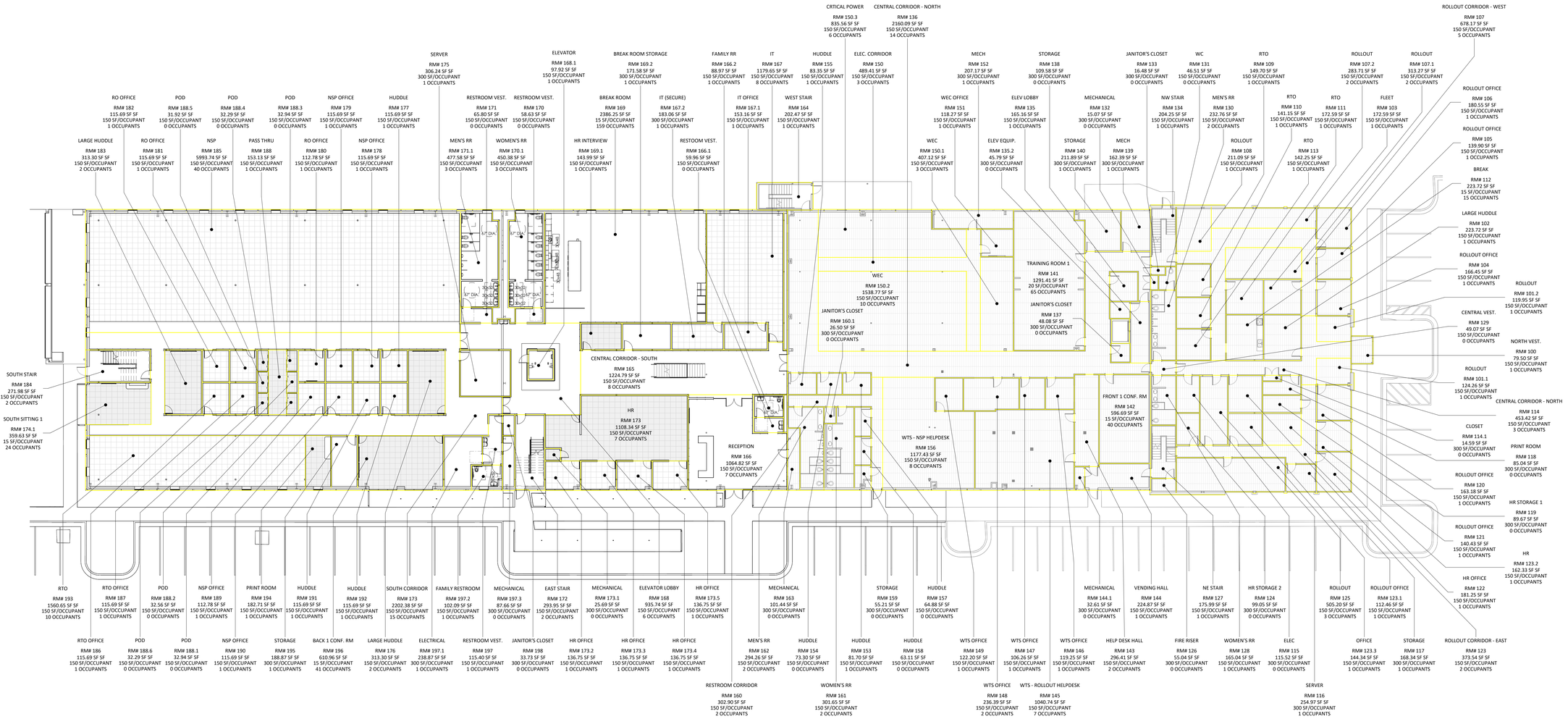
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contents.
ALLOWABLE BUILDING AREA

design. CD
date. 2026.09.11
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G1.00



AREA - (LIFE SAFETY - OCCUPANT LOAD)

NAME	NUMBER	LEVEL	AREA	AREA TYPE (LOAD FACTOR)	OCCUPANT LOAD FACTOR (KEY)	GROSS VS NET (KEY)	CALCULATED OCCUPANT LOAD
NORTH VEST.	100	LEVEL 01	79	BUSINESS	150	GROSS	1
ROLLOUT	101.1	LEVEL 01	124	BUSINESS	150	GROSS	1
ROLLOUT	101.2	LEVEL 01	120	BUSINESS	150	GROSS	1
LARGE HUDDLE	102	LEVEL 01	224	BUSINESS	150	GROSS	1
FLEET	103	LEVEL 01	173	BUSINESS	150	GROSS	1
ROLLOUT OFFICE	104	LEVEL 01	166	BUSINESS	150	GROSS	1
ROLLOUT OFFICE	105	LEVEL 01	140	BUSINESS	150	GROSS	1
ROLLOUT OFFICE	106	LEVEL 01	181	BUSINESS	150	GROSS	1
ROLLOUT CORRIDOR - WEST	107	LEVEL 01	678	BUSINESS	150	GROSS	5
ROLLOUT	107.1	LEVEL 01	313	BUSINESS	150	GROSS	2
ROLLOUT	107.2	LEVEL 01	284	BUSINESS	150	GROSS	2
ROLLOUT	108	LEVEL 01	211	BUSINESS	150	GROSS	1
RTO	109	LEVEL 01	150	BUSINESS	150	GROSS	1
RTO	110	LEVEL 01	141	BUSINESS	150	GROSS	1
RTO	111	LEVEL 01	173	BUSINESS	150	GROSS	1
BREAK	112	LEVEL 01	224	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	15
RTO	113	LEVEL 01	142	BUSINESS	150	GROSS	1
CENTRAL CORRIDOR - NORTH	114	LEVEL 01	453	BUSINESS	150	GROSS	3
CLOSET	114.1	LEVEL 01	15	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
ELEC	115	LEVEL 01	116	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
SERVER	116	LEVEL 01	255	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
STORAGE	117	LEVEL 01	168	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
PRINT ROOM	118	LEVEL 01	85	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
HR STORAGE 1	119	LEVEL 01	90	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
ROLLOUT OFFICE	120	LEVEL 01	163	BUSINESS	150	GROSS	1
ROLLOUT OFFICE	121	LEVEL 01	140	BUSINESS	150	GROSS	1
HR OFFICE	122	LEVEL 01	181	BUSINESS	150	GROSS	1
ROLLOUT CORRIDOR - EAST	123	LEVEL 01	374	BUSINESS	150	GROSS	2
ROLLOUT OFFICE	123.1	LEVEL 01	112	BUSINESS	150	GROSS	1
HR	123.2	LEVEL 01	162	BUSINESS	150	GROSS	1
OFFICE	123.3	LEVEL 01	144	BUSINESS	150	GROSS	1
HR STORAGE 2	124	LEVEL 01	99	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
ROLLOUT	125	LEVEL 01	505	BUSINESS	150	GROSS	3
FIRE RISER	126	LEVEL 01	55	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
NE STAIR	127	LEVEL 01	176	BUSINESS	150	GROSS	1
WOMEN'S RR	128	LEVEL 01	165	BUSINESS	150	GROSS	1
CENTRAL VEST.	129	LEVEL 01	49	BUSINESS	150	GROSS	0
MEN'S RR	130	LEVEL 01	233	BUSINESS	150	GROSS	2
WC	131	LEVEL 01	47	BUSINESS	150	GROSS	0
MECHANICAL	132	LEVEL 01	15	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
JANITOR'S CLOSET	133	LEVEL 01	16	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
NW STAIR	134	LEVEL 01	204	BUSINESS	150	GROSS	1
ELEV LOBBY	135	LEVEL 01	165	BUSINESS	150	GROSS	1
ELEV EQUIP.	135.2	LEVEL 01	46	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
CENTRAL CORRIDOR - NORTH	136	LEVEL 01	2160	BUSINESS	150	GROSS	14
JANITOR'S CLOSET	137	LEVEL 01	48	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
STORAGE	138	LEVEL 01	110	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
MECH	139	LEVEL 01	162	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
STORAGE	140	LEVEL 01	212	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
TRAINING ROOM 1	141	LEVEL 01	1291	EDUCATIONAL - CLASSROOMS	20	NET	65
FRONT 1 CONF. RM	142	LEVEL 01	597	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	40
HELP DESK HALL	143	LEVEL 01	296	BUSINESS	150	GROSS	2
VENDING HALL	144	LEVEL 01	225	BUSINESS	150	GROSS	1
MECHANICAL	144.1	LEVEL 01	33	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
WTS - ROLLOUT HELPDESK	145	LEVEL 01	1041	BUSINESS	150	GROSS	7
WTS OFFICE	146	LEVEL 01	119	BUSINESS	150	GROSS	1
WTS OFFICE	147	LEVEL 01	106	BUSINESS	150	GROSS	1
WTS OFFICE	148	LEVEL 01	236	BUSINESS	150	GROSS	2
WTS OFFICE	149	LEVEL 01	122	BUSINESS	150	GROSS	1

AREA - (LIFE SAFETY - OCCUPANT LOAD)

NAME	NUMBER	LEVEL	AREA	AREA TYPE (LOAD FACTOR)	OCCUPANT LOAD FACTOR (KEY)	GROSS VS NET (KEY)	CALCULATED OCCUPANT LOAD
ELEC. CORRIDOR	150	LEVEL 01	489	BUSINESS	150	GROSS	3
WEC	150.1	LEVEL 01	407	BUSINESS	150	GROSS	3
WEC	150.2	LEVEL 01	1539	BUSINESS	150	GROSS	10
CRTICAL POWER	150.3	LEVEL 01	836	BUSINESS	150	GROSS	6
WEC OFFICE	151	LEVEL 01	118	BUSINESS	150	GROSS	1
MECH	152	LEVEL 01	207	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
HUDDLE	153	LEVEL 01	82	BUSINESS	150	GROSS	1
HUDDLE	154	LEVEL 01	73	BUSINESS	150	GROSS	0
HUDDLE	155	LEVEL 01	83	BUSINESS	150	GROSS	1
WTS - NSP HELPDESK	156	LEVEL 01	1177	BUSINESS	150	GROSS	8
HUDDLE	157	LEVEL 01	65	BUSINESS	150	GROSS	0
HUDDLE	158	LEVEL 01	63	BUSINESS	150	GROSS	0
STORAGE	159	LEVEL 01	55	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
RESTROOM CORRIDOR	160	LEVEL 01	303	BUSINESS	150	GROSS	2
JANITOR'S CLOSET	160.1	LEVEL 01	27	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
WOMEN'S RR	161	LEVEL 01	302	BUSINESS	150	GROSS	2
MEN'S RR	162	LEVEL 01	294	BUSINESS	150	GROSS	2
MECHANICAL	163	LEVEL 01	101	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
WEST STAIR	164	LEVEL 01	202	BUSINESS	150	GROSS	1
CENTRAL CORRIDOR - SOUTH	165	LEVEL 01	1225	BUSINESS	150	GROSS	8
RECEPTION	166	LEVEL 01	1065	BUSINESS	150	GROSS	7
RESTOOM VEST.	166.1	LEVEL 01	60	BUSINESS	150	GROSS	0
FAMILY RR	166.2	LEVEL 01	89	BUSINESS	150	GROSS	1
IT	167	LEVEL 01	1180	BUSINESS	150	GROSS	8
IT OFFICE	167.1	LEVEL 01	153	BUSINESS	150	GROSS	1
IT (SECURE)	167.2	LEVEL 01	183	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
ELEVATOR LOBBY	168	LEVEL 01	936	BUSINESS	150	GROSS	6
ELEVATOR	168.1	LEVEL 01	98	BUSINESS	150	GROSS	1
BREAK ROOM	169	LEVEL 01	2386	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	159
HR INTERVIEW	169.1	LEVEL 01	144	BUSINESS	150	GROSS	1
BREAK ROOM STORAGE	169.2	LEVEL 01	172	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
RESTROOM VEST.	170	LEVEL 01	59	BUSINESS	150	GROSS	0
WOMEN'S RR	170.1	LEVEL 01	450	BUSINESS	150	GROSS	3
RESTROOM VEST.	171	LEVEL 01	66	BUSINESS	150	GROSS	0
MEN'S RR	171.1	LEVEL 01	478	BUSINESS	150	GROSS	3
EAST STAIR	172	LEVEL 01	294	BUSINESS	150	GROSS	2
HR	173	LEVEL 01	1108	BUSINESS	150	GROSS	7
SOUTH CORRIDOR	173	LEVEL 01	2202	BUSINESS	150	GROSS	15
MECHANICAL	173.1	LEVEL 01	26	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
HR OFFICE	173.2	LEVEL 01	137	BUSINESS	150	GROSS	1
HR OFFICE	173.3	LEVEL 01	137	BUSINESS	150	GROSS	1
HR OFFICE	173.4	LEVEL 01	137	BUSINESS	150	GROSS	1
HR OFFICE	173.5	LEVEL 01	137	BUSINESS	150	GROSS	1
SOUTH SITTING 1	174.1	LEVEL 01	360	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	24
SERVER	175	LEVEL 01	306	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
LARGE HUDDLE	176	LEVEL 01	313	BUSINESS	150	GROSS	2
HUDDLE	177	LEVEL 01	116	BUSINESS	150	GROSS	1
NSP OFFICE	178	LEVEL 01	116	BUSINESS	150	GROSS	1
NSP OFFICE	179	LEVEL 01	116	BUSINESS	150	GROSS	1
RO OFFICE	180	LEVEL 01	113	BUSINESS	150	GROSS	1
RO OFFICE	181	LEVEL 01	116	BUSINESS	150	GROSS	1
RO OFFICE	182	LEVEL 01	116	BUSINESS	150	GROSS	1
LARGE HUDDLE	183	LEVEL 01	313	BUSINESS	150	GROSS	2
SOUTH STAIR	184	LEVEL 01	272	BUSINESS	150	GROSS	2
NSP	185	LEVEL 01	5994	BUSINESS	150	GROSS	40
RTO OFFICE	186	LEVEL 01	116	BUSINESS	150	GROSS	1
RTO OFFICE	187	LEVEL 01	116	BUSINESS	150	GROSS	1
PASS THRU	188	LEVEL 01	153	BUSINESS	150	GROSS	1
POD	188.1	LEVEL 01	33	BUSINESS	150	GROSS	0

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

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modus studio
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479.455.5577
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contact@modusstudio.com

HP ENGINEERING by IMEG

ESI

wachter

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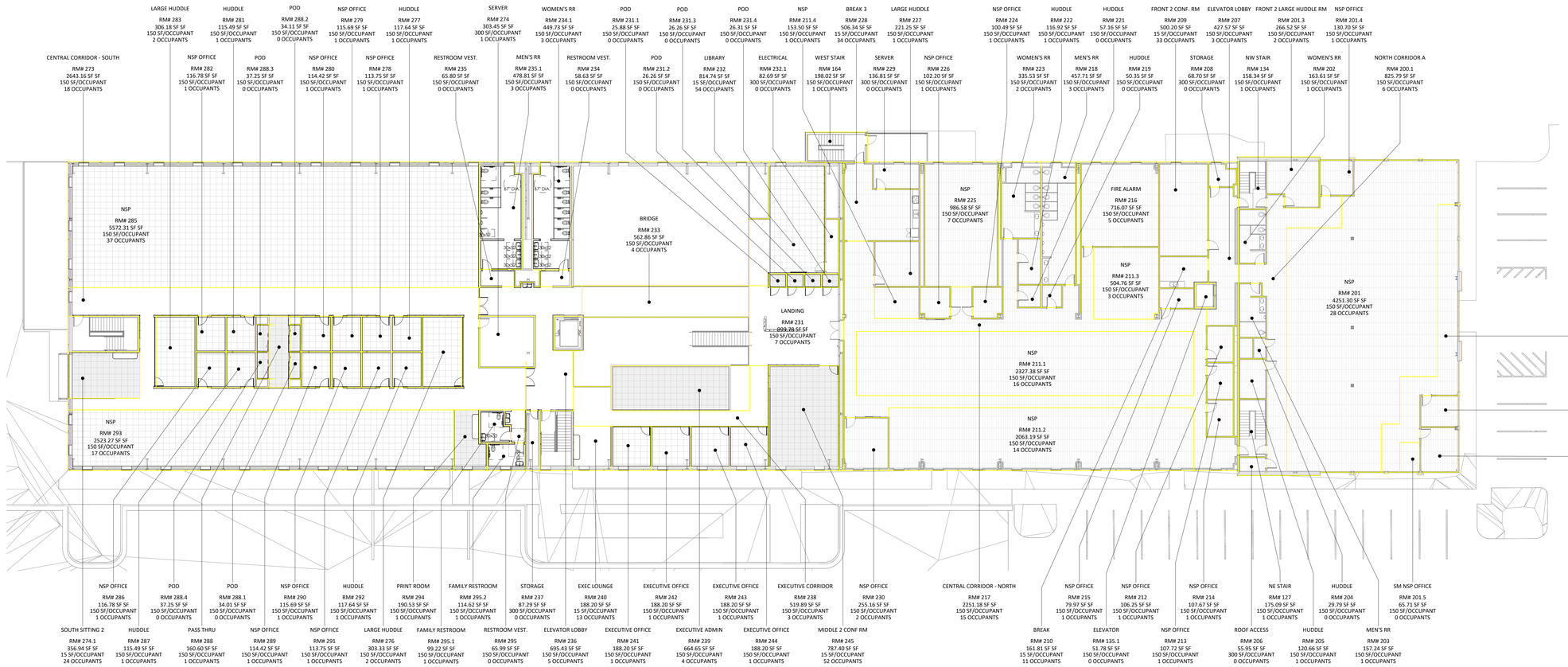
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contents: OCCUPANT LOAD

design. CD
date. 2026.09.11
project. 25.18

G1.10



AREA - (LIFE SAFETY - OCCUPANT LOAD)

NAME	NUMBER	LEVEL	AREA	AREA TYPE (LOAD FACTOR)	OCCUPANT LOAD FACTOR (KEY)	GROSS VS NET (KEY)	CALCULATED OCCUPANT LOAD
POD	188.2	LEVEL 01	33	BUSINESS	150	GROSS	0
POD	188.3	LEVEL 01	33	BUSINESS	150	GROSS	0
POD	188.4	LEVEL 01	32	BUSINESS	150	GROSS	0
POD	188.5	LEVEL 01	32	BUSINESS	150	GROSS	0
POD	188.6	LEVEL 01	32	BUSINESS	150	GROSS	0
NSP OFFICE	189	LEVEL 01	113	BUSINESS	150	GROSS	1
NSP OFFICE	190	LEVEL 01	116	BUSINESS	150	GROSS	1
HUDDLE	191	LEVEL 01	116	BUSINESS	150	GROSS	1
HUDDLE	192	LEVEL 01	116	BUSINESS	150	GROSS	1
RTO	193	LEVEL 01	1561	BUSINESS	150	GROSS	10
PRINT ROOM	194	LEVEL 01	183	BUSINESS	150	GROSS	1
STORAGE	195	LEVEL 01	189	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
BACK 1 CONF. RM	196	LEVEL 01	611	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	41
RESTROOM VEST.	197	LEVEL 01	115	BUSINESS	150	GROSS	1
ELECTRICAL	197.1	LEVEL 01	239	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
FAMILY RESTROOM	197.2	LEVEL 01	102	BUSINESS	150	GROSS	1
MECHANICAL	197.3	LEVEL 01	88	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
JANITOR'S CLOSET	198	LEVEL 01	34	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
							605
NE STAIR	127	LEVEL 02	175	BUSINESS	150	GROSS	1
NW STAIR	134	LEVEL 02	158	BUSINESS	150	GROSS	1
ELEVATOR	135.1	LEVEL 02	52	BUSINESS	150	GROSS	0
WEST STAIR	164	LEVEL 02	198	BUSINESS	150	GROSS	1
NORTH CORRIDOR A	200.1	LEVEL 02	826	BUSINESS	150	GROSS	6
NORTH CORRIDOR B	200.2	LEVEL 02	716	BUSINESS	150	GROSS	5
NSP	201	LEVEL 02	4251	BUSINESS	150	GROSS	28
NSP OFFICE	201.1	LEVEL 02	186	BUSINESS	150	GROSS	1
NSP OFFICE	201.2	LEVEL 02	130	BUSINESS	150	GROSS	1
FRONT 2 LARGE HUDDLE RM	201.3	LEVEL 02	267	BUSINESS	150	GROSS	2
NSP OFFICE	201.4	LEVEL 02	131	BUSINESS	150	GROSS	1
SM NSP OFFICE	201.5	LEVEL 02	66	BUSINESS	150	GROSS	0
WOMEN'S RR	202	LEVEL 02	164	BUSINESS	150	GROSS	1
MEN'S RR	203	LEVEL 02	157	BUSINESS	150	GROSS	1
HUDDLE	204	LEVEL 02	30	BUSINESS	150	GROSS	0
HUDDLE	205	LEVEL 02	121	BUSINESS	150	GROSS	1
ROOF ACCESS	206	LEVEL 02	56	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
ELEVATOR LOBBY	207	LEVEL 02	428	BUSINESS	150	GROSS	3
STORAGE	208	LEVEL 02	69	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
FRONT 2 CONF. RM	209	LEVEL 02	500	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	33
BREAK	210	LEVEL 02	162	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	11
NSP	211.1	LEVEL 02	2327	BUSINESS	150	GROSS	16
NSP	211.2	LEVEL 02	2063	BUSINESS	150	GROSS	14
NSP	211.3	LEVEL 02	505	BUSINESS	150	GROSS	3
NSP	211.4	LEVEL 02	154	BUSINESS	150	GROSS	1
NSP OFFICE	212	LEVEL 02	106	BUSINESS	150	GROSS	1
NSP OFFICE	213	LEVEL 02	108	BUSINESS	150	GROSS	1
NSP OFFICE	214	LEVEL 02	108	BUSINESS	150	GROSS	1
NSP OFFICE	215	LEVEL 02	80	BUSINESS	150	GROSS	1
FIRE ALARM	216	LEVEL 02	716	BUSINESS	150	GROSS	5
CENTRAL CORRIDOR - NORTH	217	LEVEL 02	2251	BUSINESS	150	GROSS	15
MEN'S RR	218	LEVEL 02	458	BUSINESS	150	GROSS	3
HUDDLE	219	LEVEL 02	50	BUSINESS	150	GROSS	0

AREA - (LIFE SAFETY - OCCUPANT LOAD)

NAME	NUMBER	LEVEL	AREA	AREA TYPE (LOAD FACTOR)	OCCUPANT LOAD FACTOR (KEY)	GROSS VS NET (KEY)	CALCULATED OCCUPANT LOAD
HUDDLE	221	LEVEL 02	57	BUSINESS	150	GROSS	0
HUDDLE	222	LEVEL 02	117	BUSINESS	150	GROSS	1
WOMEN'S RR	223	LEVEL 02	336	BUSINESS	150	GROSS	2
NSP OFFICE	224	LEVEL 02	100	BUSINESS	150	GROSS	1
NSP	225	LEVEL 02	987	BUSINESS	150	GROSS	7
NSP OFFICE	226	LEVEL 02	102	BUSINESS	150	GROSS	1
LARGE HUDDLE	227	LEVEL 02	221	BUSINESS	150	GROSS	1
BREAK 3	228	LEVEL 02	506	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	34
SERVER	229	LEVEL 02	137	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
NSP OFFICE	230	LEVEL 02	255	BUSINESS	150	GROSS	2
LANDING	231	LEVEL 02	1000	BUSINESS	150	GROSS	7
POD	231.1	LEVEL 02	26	BUSINESS	150	GROSS	0
POD	231.2	LEVEL 02	26	BUSINESS	150	GROSS	0
POD	231.3	LEVEL 02	26	BUSINESS	150	GROSS	0
POD	231.4	LEVEL 02	26	BUSINESS	150	GROSS	0
LIBRARY	232	LEVEL 02	815	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	54
ELECTRICAL	232.1	LEVEL 02	83	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
BRIDGE	233	LEVEL 02	563	BUSINESS	150	GROSS	4
RESTROOM VEST.	234	LEVEL 02	59	BUSINESS	150	GROSS	0
WOMEN'S RR	234.1	LEVEL 02	450	BUSINESS	150	GROSS	3
RESTROOM VEST.	235	LEVEL 02	66	BUSINESS	150	GROSS	0
MEN'S RR	235.1	LEVEL 02	479	BUSINESS	150	GROSS	3
ELEVATOR LOBBY	236	LEVEL 02	695	BUSINESS	150	GROSS	5
STORAGE	237	LEVEL 02	87	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	0
EXECUTIVE CORRIDOR	238	LEVEL 02	520	BUSINESS	150	GROSS	3
EXECUTIVE ADMIN	239	LEVEL 02	665	BUSINESS	150	GROSS	4
EXEC LOUNGE	240	LEVEL 02	188	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	13
EXECUTIVE OFFICE	241	LEVEL 02	188	BUSINESS	150	GROSS	1
EXECUTIVE OFFICE	242	LEVEL 02	188	BUSINESS	150	GROSS	1
EXECUTIVE OFFICE	243	LEVEL 02	188	BUSINESS	150	GROSS	1
EXECUTIVE OFFICE	244	LEVEL 02	188	BUSINESS	150	GROSS	1
MIDDLE 2 CONF RM	245	LEVEL 02	787	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	52
CENTRAL CORRIDOR - SOUTH	273	LEVEL 02	2643	BUSINESS	150	GROSS	18
SERVER	274	LEVEL 02	303	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1
SOUTH SITTING 2	274.1	LEVEL 02	357	ASSEMBLY - UNCONCENTRATED TABLES AND CHAIRS	15	NET	24
LARGE HUDDLE	276	LEVEL 02	303	BUSINESS	150	GROSS	2
HUDDLE	277	LEVEL 02	118	BUSINESS	150	GROSS	1
NSP OFFICE	278	LEVEL 02	114	BUSINESS	150	GROSS	1
NSP OFFICE	279	LEVEL 02	116	BUSINESS	150	GROSS	1
NSP OFFICE	280	LEVEL 02	114	BUSINESS	150	GROSS	1
HUDDLE	281	LEVEL 02	115	BUSINESS	150	GROSS	1
NSP OFFICE	282	LEVEL 02	117	BUSINESS	150	GROSS	1
LARGE HUDDLE	283	LEVEL 02	306	BUSINESS	150	GROSS	2
NSP	285	LEVEL 02	5572	BUSINESS	150	GROSS	37
NSP OFFICE	286	LEVEL 02	117	BUSINESS	150	GROSS	1
HUDDLE	287	LEVEL 02	115	BUSINESS	150	GROSS	1
PASS THRU	288	LEVEL 02	161	BUSINESS	150	GROSS	1
POD	288.1	LEVEL 02	34	BUSINESS	150	GROSS	0
POD	288.2	LEVEL 02	34	BUSINESS	150	GROSS	0
POD	288.3	LEVEL 02	37	BUSINESS	150	GROSS	0
POD	288.4	LEVEL 02	37	BUSINESS	150	GROSS	0
NSP OFFICE	289	LEVEL 02	114	BUSINESS	150	GROSS	1
NSP OFFICE	290	LEVEL 02	116	BUSINESS	150	GROSS	1
NSP OFFICE	291	LEVEL 02	114	BUSINESS	150	GROSS	1
HUDDLE	292	LEVEL 02	118	BUSINESS	150	GROSS	1
NSP	293	LEVEL 02	2523	BUSINESS	150	GROSS	17
PRINT ROOM	294	LEVEL 02	191	BUSINESS	150	GROSS	1
RESTROOM VEST.	295	LEVEL 02	66	BUSINESS	150	GROSS	0
FAMILY RESTROOM	295.1	LEVEL 02	99	BUSINESS	150	GROSS	1
FAMILY RESTROOM	295.2	LEVEL 02	115	BUSINESS	150	GROSS	1
							477
							1082

issue for review: 2026.08.05
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REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents.
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revisions:

PRELIMINARY PLANS FOR

LARGE SCALE DEVELOPMENT

TO SERVE

BWB PROPERTIES, LLC

1419 W MONROE AVE
LOWELL, AR 72745
PHONE: 817.706.4059
IN THE CITY OF

LOWELL, ARKANSAS

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING STRUCTURES, RELATED UTILITIES, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED. THE REMOVAL AND DISPOSAL OF ALL MATERIALS SHALL BE DONE PER ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
3. THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH DESIGN STANDARDS OF THE CITY OF LOWELL. HOWEVER, NEITHER THE ENGINEER NOR ITS EMPLOYEES CAN OR DO ASSURE THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON SITE.
4. THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE THE SAFETY OF BUT NOT LIMITED TO THE PERSONS, PROPERTY, AND EQUIPMENT RELATED TO THE CONSTRUCTION OF THE SITE. THIS REQUIREMENT WILL APPLY DURING THE COMPLETE CONSTRUCTION OF THE PROJECT.
5. ALL CONSTRUCTION IN ARKANSAS HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE APPROVED BY THE ARKANSAS HIGHWAY DEPARTMENT.

NOTICE TO BIDDERS:

SUBCONTRACTOR MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR. THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

ZONING & USE:

EXISTING ZONING = C
PROPOSED USE = OFFICE

FLOOD ZONE NOTE:

THIS PROPERTY IS WITHIN THE FLOOD PLAIN ZONE 'X', (NO SHADING) DESIGNATED AS AN AREA DETERMINED TO BE OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE F.I.R.M. MAP # 05007C0270 5, PANEL 270 OF 560, BENTON COUNTY, ARKANSAS & INCORPORATED AREAS. EFFECTIVE DATE: JUNE 5, 2012.

PLAN PREVIEW NOTE:

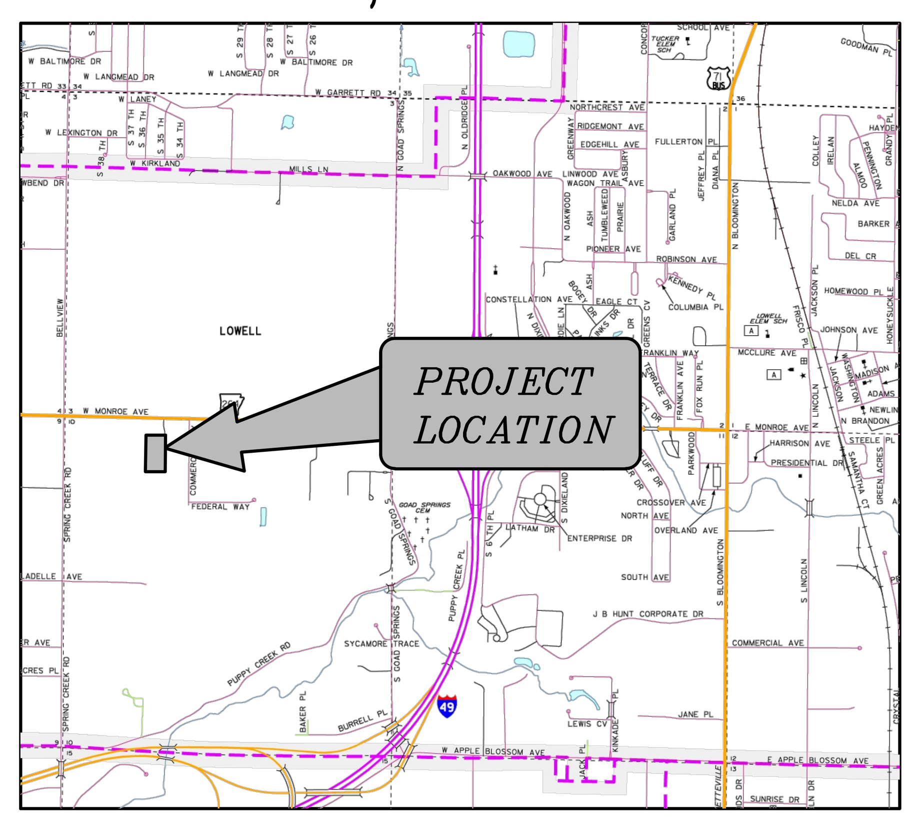
REVIEW OF THESE PLANS IS LIMITED TO GENERAL COMPLIANCE WITH CITY OF LOWELL CODES AND REGULATIONS AND DOES NOT WARRANT THE ENGINEER'S DESIGN OR RELIEVE THE DEVELOPER OF ANY REQUIREMENTS, EVEN IF ERRORS, OMISSIONS OR ANY INADEQUACIES ARE DISCOVER AFTER PLAN APPROVAL. THE CITY OF LOWELL REQUIREMENTS SHALL GOVERN OVER ANY CONFLICTS WITH THE PLANS OR SPECIFICATIONS. ANY CONDITIONS DETERMINED IN THE FIELD WHICH REQUIRE CHANGES SHALL BE SUBJECT TO FURTHER REVIEW AND CORRECTIVE ACTION.

INSPECTOR'S NOTE:

THE CITY OF LOWELL REQUIRES THAT THE ENGINEER PROVIDES CONSTRUCTION OBSERVATION THAT WILL INCLUDE WEEKLY REPORTS AND A MONTHLY ON-SITE MEETING, HOSTED BY THE ENGINEER AND INCLUDING OWNER, CONTRACTOR, AND THE CITY OF LOWELL.

SITE MAINTENANCE NOTE:

DURING THE CONSTRUCTION PHASE, THE DEVELOPER SHALL MAINTAIN SITE BY MOWING MONTHLY (OR AS NEEDED), PROVIDE DUST CONTROL, AND THE DAILY PICK-UP OF RUBBISH, TRASH, GARBAGE, OR LITTER, AND PROVIDING COLLECTION AS APPROVED BY THE CITY.



VICINITY MAP
September 25, 2026

BY
ENGINEERING SERVICES INC.

CONSULTING ENGINEERS
SPRINGDALE, ARKANSAS
PHONE: 479-751-8733
FAX: 479-751-8746
WWW.ENGINEERINGSERVICES.COM

INDEX OF SHEETS

SHEET No.	DESCRIPTION
–	COVER
1	DEMOLITION PLAN
2	LARGE-SCALE DEVELOPMENT PLAN
3	STORM & GRADING PLAN
4–7	TYPICAL DETAILS
7–9	UTILITY PLAN & DETAILS
10	PAVING & SIGNAGE PLAN
11	SWPPP
12–13	LANDSCAPING PLAN & DETAILS

UTILITY CONTACT LIST

SWEPCO
888-216-3523

BLACK HILLS
800-563-0012

AT&T
800-464-7928

CENTURY LINK
866-904-1817

CARROLL ELECTRIC
800-432-9720

COX COMMUNICATION
479-751-2000

SPINGDALE WATER UTILITIES
LARRY PECKHAM – 479-751-5751

WASTE MANAGEMENT
479-361-4200

CONTACT LIST

SURVEYOR/ENGINEER:
ENGINEERING SERVICES, INC.
1207 SOUTH OLD MISSOURI RD.
SPRINGDALE, AR 72764

CONTACT:
NICHOLAS BOHNING
479-751-8733

OWNERS/DEVELOPER:
BWB PROPERTIES LLC
16001W 99TH STREET
LENEXA, KS 66219-1293

CONTACT:
CHRISTOPHER LASKOSKI
479-455-5577

ARCHITECT:
MODUS STUDIO
15 N CHURCH AVE #102
FAYETTEVILLE, AR 72701

CONTACT:
CHRISTOPHER LASKOSKI
479-455-5577

PRELIMINARY PLANS

BRIAN J MOORE, P.E. No. 10025
ENGINEERING SERVICES, INC.

ENGINEERING CERTIFICATE :

I, BRIAN J MORE, REGISTERED PROFESSIONAL ENGINEER NO. 10025 IN THE STATE OF ARKANSAS, HEREBY CERTIFY THAT THE ENGINEERING DESIGN, DRAINAGE STUDIES, REPORTS, CALCULATIONS AND SPECIFICATIONS OF THIS PROPOSED DEVELOPMENT HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LOWELL AND GENERALLY ACCEPTED STANDARDS OF ENGINEERING PRACTICE.

NOTE :

ALL STREET AND DRAINAGE CONSTRUCTION MUST COMPLY WITH THE REQUIREMENTS OF THE CITY OF LOWELL, ARKANSAS.

ALL WATER AND SEWER CONSTRUCTION MUST COMPLY WITH THE SPECIFICATION REQUIREMENTS FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES OF SPRINGDALE WATER UTILITIES.
ADOPTED ON MARCH 10TH 1987 BY ORDINANCE No. 1640
AMENDED ON AUGUST 27TH, 2014 BY RESOLUTION No. 15-14

NOTE :

NO CHANGE MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR WRITTEN WRITTEN APPROVAL BY THE CITY OF LOWELL.

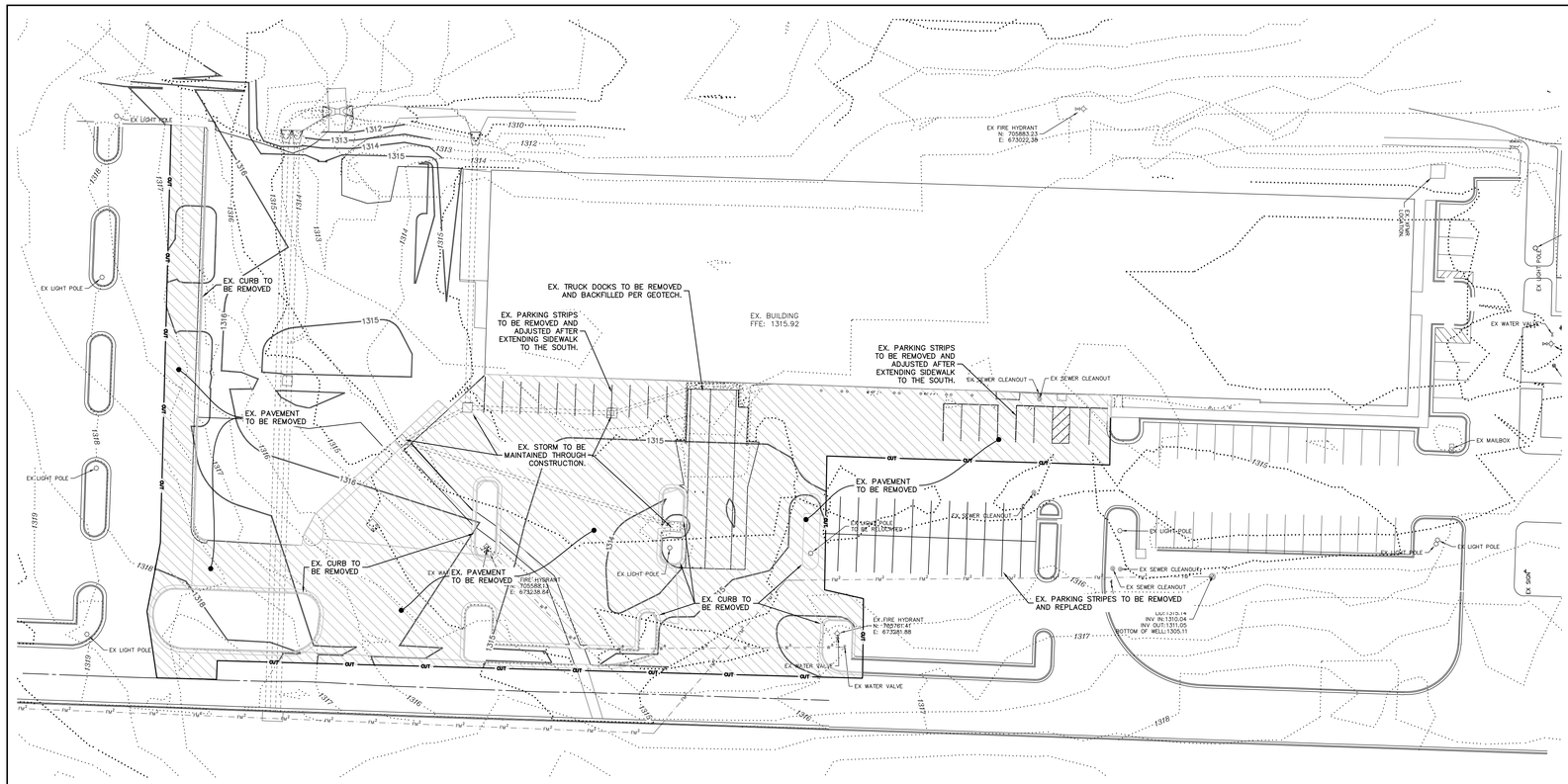
WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

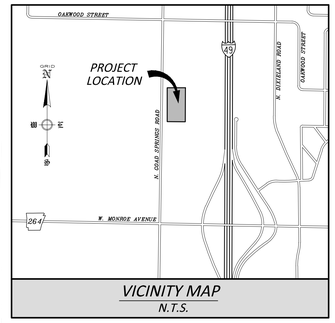
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project. 26913

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VICINITY MAP
N.T.S.

LEGEND

- IRON PIN FOUND
- IRON PIN SET
- PROPERTY LINE
- EX. EASEMENT LINE
- EX. BUILDING SETBACK LINE
- EX. ROAD CENTERLINE
- EX. CURB & GUTTER
- EX. WATER LINE
- EX. 8" SEWER LINE
- EX. STORM DRAIN LINE
- EX. OVERHEAD POWER LINE
- EX. FIBER OPTIC LINE
- EX. ONE CALL MARK
- EX. WATER METER
- EX. FIRE HYDRANT
- EX. SEWER MANHOLE
- EX. POWER POLE
- EX. WATER VALVE
- EX. LIGHT POLE
- EX. WATER METER
- EX. CONTOUR
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED EASEMENT LINE
- PROPOSED BUILDING SETBACK LINE
- PROPOSED CURB & GUTTER
- PROPOSED FIRE HYDRANT
- PROPOSED WATERLINE
- PROPOSED SEWER MANHOLE & PIPE
- PROPOSED SINGLE WATER SERVICE
- PROPOSED DOUBLE WATER SERVICE
- PROPOSED SEWER SERVICE
- PROPOSED LIGHT POLE
- PROPOSED HANDICAP RAMP
- PROPOSED STORM BOX & PIPE

GRAPHIC REPRESENTATION ONLY
SCALE 1" = 30'
0 15' 30' 60'

FEMA FLOOD PLAIN ZONE:

THIS PROPERTY IS WITHIN THE FLOOD PLAIN ZONE 'X', (NO SHADING) DESIGNATED AS AN AREA DETERMINED TO BE OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE F.I.R.M. MAP # 05007C0270K, BENTON COUNTY, ARKANSAS & INCORPORATED AREAS. EFFECTIVE DATE: JUNE 5, 2012.

NOTE:

NO CHANGE MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF LOWELL.

DEED LEGAL DESCRIPTION:

PARCEL # 12-02649-000

PART OF THE EAST 1/2 OF THE NW 1/4 OF SECTION 10, TOWNSHIP 18 NORTH, RANGE 30 WEST OF THE FIFTH PRINCIPAL MERIDIAN BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT THAT IS SOUTH 89°16' EAST-100.00 FEET FROM THE NORTHWEST CORNER OF THE EAST 1/2 OF THE NW 1/4 OF SECTION 10 AND RUNNING THENCE SOUTH 89°16' EAST-230.00 FEET; THENCE SOUTH-1980.00 FEET TO AN IRON PIN; THENCE NORTH 89°08' WEST-330.00 FEET TO AN IRON PIN; THENCE NORTH 00°01' WEST-1620.00 FEET TO AN IRON PIN; THENCE SOUTH 88°50' EAST-100.00 FEET TO AN IRON PIN; THENCE NORTH 00°04' EAST-360.00 FEET TO THE POINT OF BEGINNING.

SUBJECT TO ARKANSAS STATE HIGHWAY 264 RIGHT-OF-WAY ALONG THE NORTH LINE AND ANY OTHER EASEMENTS AND/OR RIGHT-OF-WAYS OF RECORD.

RECORDED IN THE CIRCUIT CLERK BENTON COUNTY, ARKANSAS BOOK 2011, PAGE 1191.

OWNER/DEVELOPER :	BWB PROPERTIES LLC 16001 W 99TH STREET LENEXA, KS 66219-1293
ENGINEER/SURVEYOR :	ENGINEERING SERVICES, INC. 1207 S. OLD MISSOURI RD. P.O. BOX 282 SPRINGDALE, AR 72762
ZONING :	C-2 (COMMERCIAL)
NET /GROSS AREA:	14.17 ACRES
PROPOSED BUILDING SIZE:	NO NEW BUILDINGS PROPOSED

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING STRUCTURES, RELATED UTILITIES, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED. THE REMOVAL AND DISPOSAL OF ALL MATERIALS SHALL BE DONE PER ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
3. THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH DESIGN STANDARDS OF THE CITY OF LOWELL HOWEVER, NEITHER THE ENGINEER NOR ITS EMPLOYEES CAN OR DO ASSURE THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON SITE.
4. THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE THE SAFETY OF BUT NOT LIMITED TO THE PERSONS, PROPERTY, AND EQUIPMENT RELATED TO THE CONSTRUCTION OF THE SITE. THIS REQUIREMENT WILL APPLY DURING THE COMPLETE CONSTRUCTION OF THE PROJECT.
5. ALL CONSTRUCTION IN ARKANSAS HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE APPROVED BY THE ARKANSAS HIGHWAY DEPARTMENT.
6. DAMAGE TO OR RELOCATION OF EXISTING UTILITIES SHALL BE AT THE DEVELOPER'S EXPENSE.
7. ANY CURBS NOT UTILIZED FOR PARKING SHALL BE PAINTED RED AND LABELLED IN WHITE PAINT "NO PARKING – FIRE LANE"
8. THE BUILDING PAD TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AND TEST RESULTS SHALL BE PROVIDED TO THE CITY OF LOWELL BUILDING INSPECTOR.
9. THERE ARE NO KNOWN WETLANDS ON THIS SITE.
10. NO CHANGES MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR APPROVAL BY THE CITY OF LOWELL

ENGINEERING SERVICES INC.
1207 S. OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

DEMOLITION PLAN
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: NAB
W.O. #: 26913

1

HP ENGINEERING
IMEG
wachter

ARKANSAS REGISTERED PROFESSIONAL ARCHITECT
NOT FOR CONSTRUCTION

WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents:
DEMO PLAN

design. CD
date. 2026.09.11
project. 26913

C1.00

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

LEGEND

Symbol	Description
●	IRON PIN FOUND
○	IRON PIN SET
	PROPERTY LINE
	EX. EASEMENT LINE
	EX. BUILDING SETBACK LINE
	EX. ROAD CENTERLINE
	EX. CURB & GUTTER
W	EX. WATER LINE
SS	EX. 8" SEWER LINE
	EX. STORM DRAIN LINE
OHP/T	EX. OVERHEAD POWER LINE
F.O.	EX. FIBER OPTIC LINE
OC	EX. ONE CALL MARK
	EX. WATER METER
	EX. FIRE HYDRANT
	EX. SEWER MANHOLE
	EX. POWER POLE
	EX. WATER VALVE
	EX. LIGHT POLE
	EX. WATER METER
1369	EX. CONTOUR
1368	PROPOSED CONTOUR
X	PROPOSED FENCE
	PROPOSED EASEMENT LINE
	PROPOSED BUILDING SETBACK LINE
	PROPOSED CURB & GUTTER
	PROPOSED FIRE HYDRANT
W	PROPOSED WATERLINE
	PROPOSED SEWER MANHOLE & PIPE
	PROPOSED SINGLE WATER SERVICE
	PROPOSED DOUBLE WATER SERVICE
	PROPOSED SEWER SERVICE
	PROPOSED LIGHT POLE
HR	PROPOSED HANDICAP RAMP
	PROPOSED STORM BOX & PIPE

GRAPHIC REPRESENTATION ONLY
SCALE 1" = 30'
0 15' 30' 60'

DEED LEGAL DESCRIPTION:

PARCEL # 12–02649–000

PART OF THE EAST 1/2 OF THE NW 1/4 OF SECTION 10, TOWNSHIP 18 NORTH, RANGE 30 WEST OF THE FIFTH PRINCIPAL MERIDIAN BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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SUBJECT TO ARKANSAS STATE HIGHWAY 264 RIGHT–OF–WAY ALONG THE NORTH LINE AND ANY OTHER EASEMENTS AND/OR RIGHT–OF–WAYS OF RECORD.

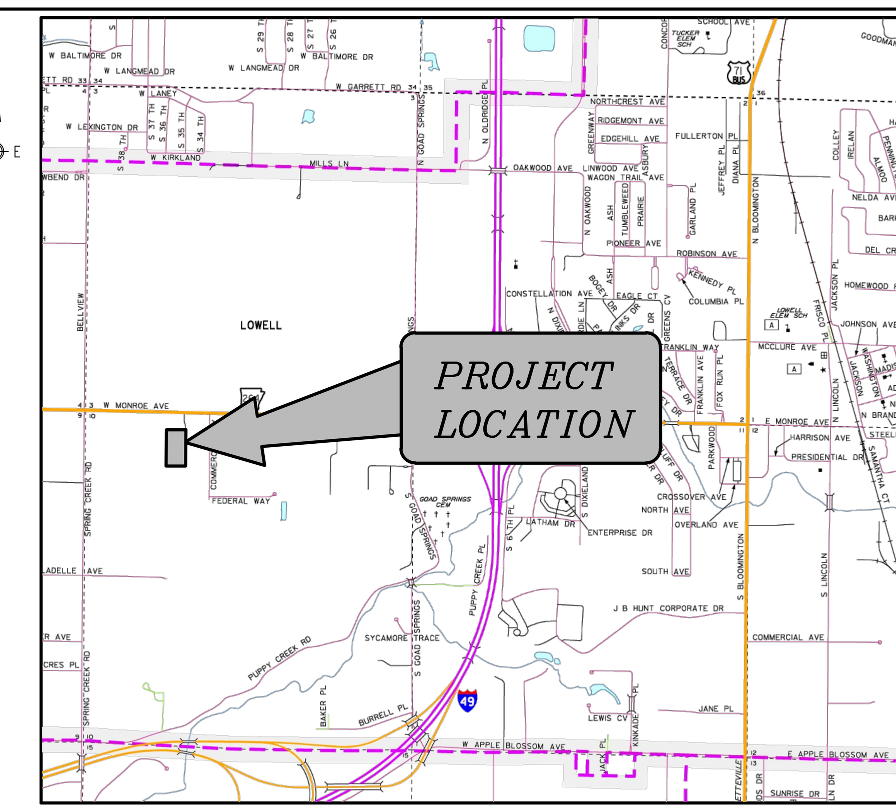
RECORDED IN THE CIRCUIT CLERK BENTON COUNTY, ARKANSAS BOOK 2011, PAGE 1191.

FEMA FLOOD PLAIN ZONE:

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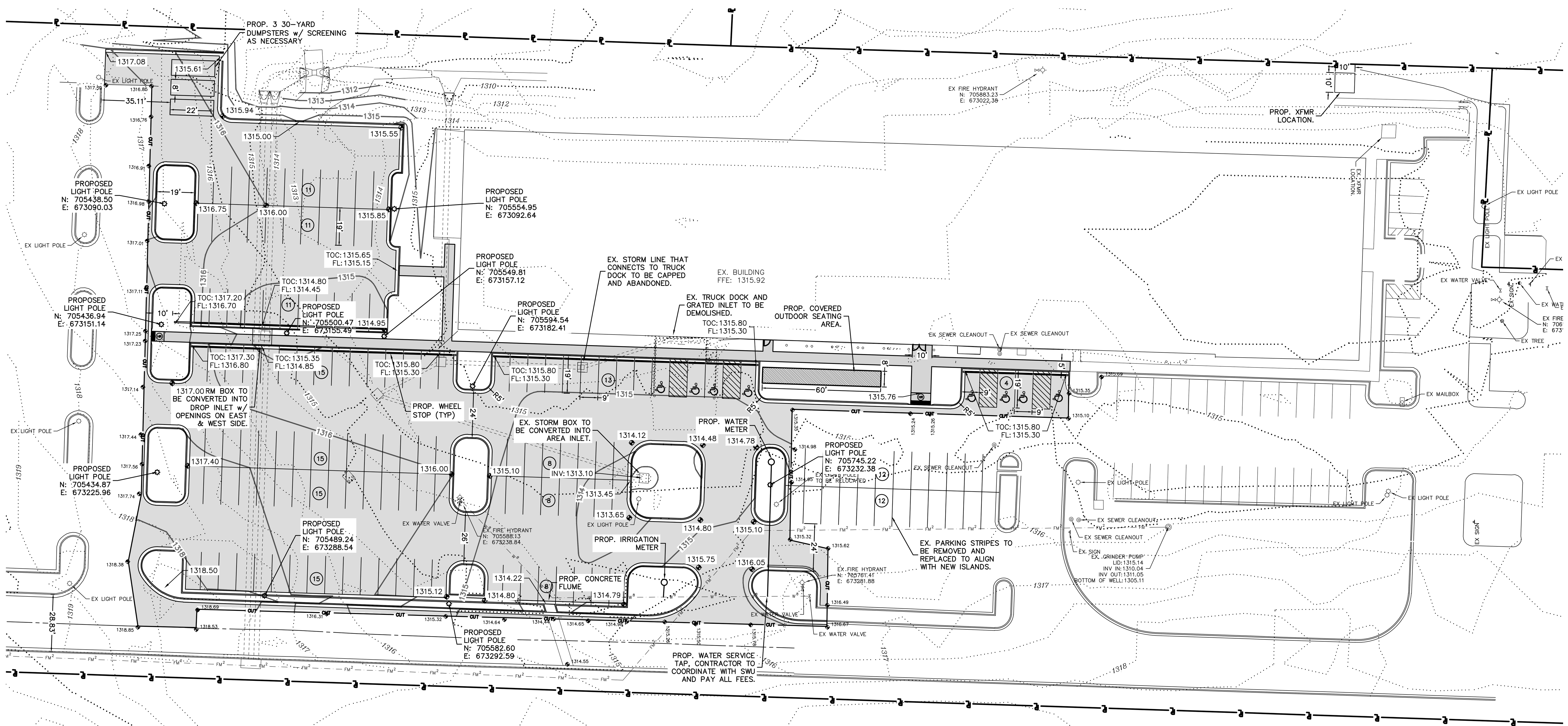
GENERAL NOTES:

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3. THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH DESIGN STANDARDS OF THE CITY OF LOWELL. HOWEVER, NEITHER THE ENGINEER NOR ITS EMPLOYEES CAN OR DO ASSURE THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON SITE.
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8. THE BUILDING PAD TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AND TEST RESULTS SHALL BE PROVIDED TO THE CITY OF LOWELL BUILDING INSPECTOR.
9. THERE ARE NO KNOWN WETLANDS ON THIS SITE.
10. NO CHANGES MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR APPROVAL BY THE CITY OF LOWELL



VICINITY MAP

OWNER/DEVELOPER :	BWB PROPERTIES LLC 16001 W 99TH STREET LENEXA, KS 66219–1293
ENGINEER/SURVEYOR :	ENGINEERING SERVICES, INC. 1207 S. OLD MISSOURI RD. P.O. BOX 282 SPRINGDALE, AR 72762
ZONING :	C–2 (COMMERCIAL)
NET /GROSS AREA:	14.17 ACRES
PROPOSED BUILDING SIZE:	NO NEW BUILDINGS PROPOSED
PARKING SPACES PROPOSED:	400 PARKING SPOTS (INCL. 8 ADA) 8 ADA PROPOSED, 2 ADA SPACES WERE PROVIDED WITH THE FIRST TWO PHASES.



NOTE:

NO CHANGE MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF LOWELL.

ENGINEERING SERVICES INC.
1207 SOUTH OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING now IMEG

wachter

LARGE–SCALE DEVELOPMENT PLAN
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

© COPYRIGHT 2026, ENGINEERING SERVICES, INC. 9/25/2026 5:24 PM
Z:\LSD\26913 - WACHTER LOWELL\26913 - LARGE-SCALE DEVELOPMENT PLAN.DWG

SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: NMB
W.O. #: 26913

2

WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents.
LSD PLAN

design. CD
date. 2026.09.11
project. 26913

C2.00

issue for review: 2026.08.05

issue for pricing: 2026.09.11

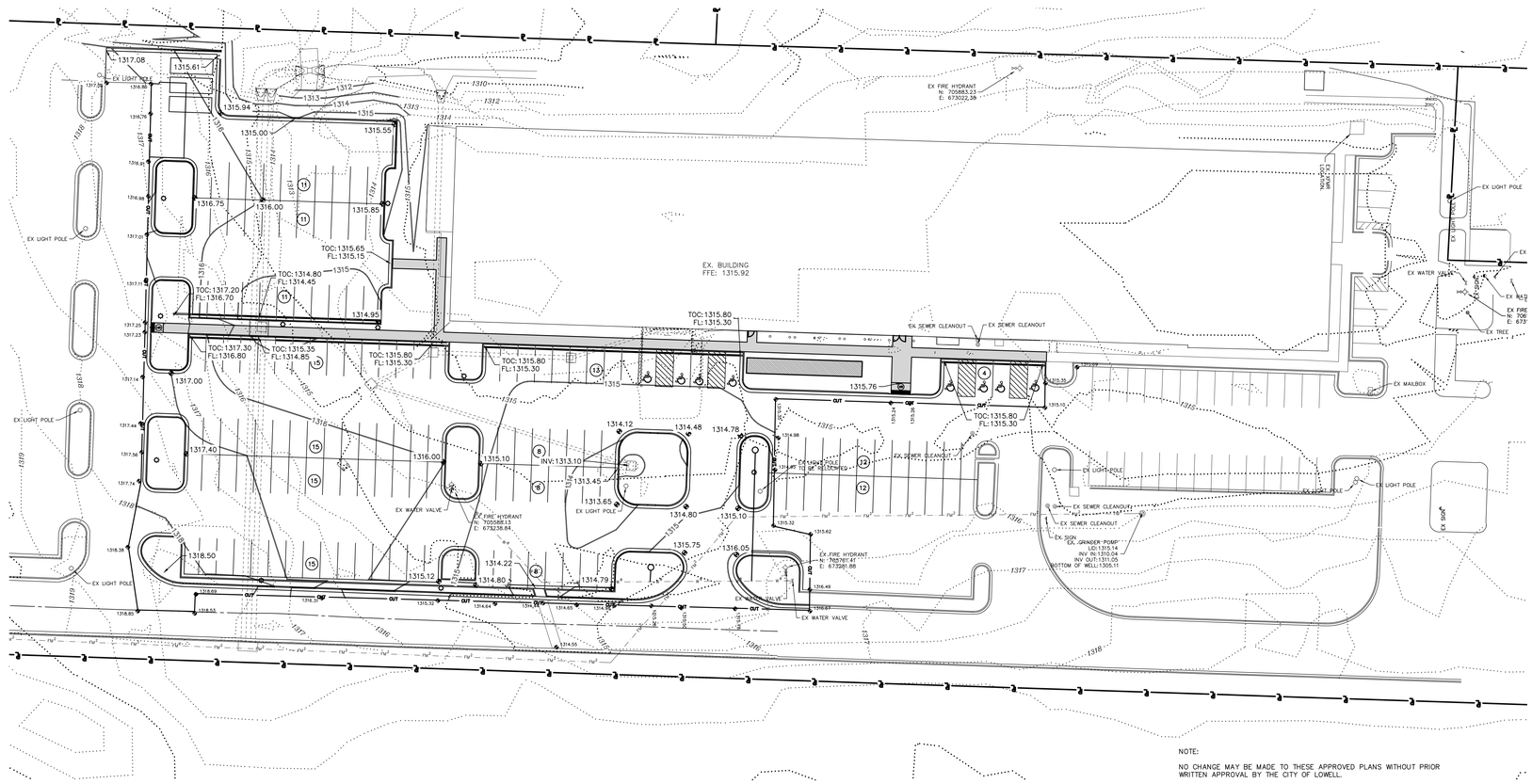
issue for construction:

revisions:

*NOTE:

1. ALL SPOT ELEVATIONS ARE TO BE FLOW LINE UNLESS OTHERWISE NOTED.

GRAPHIC REPRESENTATION ONLY
SCALE 1"= 30'
0 15' 30' 60'



LEGEND		
JB	=	JUNCTION BOX
DI	=	DROP INLET
GI	=	GRATED INLET
AI	=	AREA INLET
OS	=	OUTLET STRUCTURE
FES	=	FLARED END SECTION
HW	=	HEADWALL
AS	=	AQUA SWIRL
RCP	=	REINFORCED CONCRETE PIPE
HERCP	=	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HDPE	=	HIGH DENSITY POLYETHYLENE

*ALL RCP SHALL BE CLASS 3 UNLESS OTHERWISE SPECIFIED

LEGEND

- IRON PIN FOUND
- IRON PIN SET
- PROPERTY LINE
- EX. EASEMENT LINE
- EX. BUILDING SETBACK LINE
- EX. ROAD CENTERLINE
- EX. CURB & GUTTER
- EX. WATER LINE
- EX. 8" SEWER LINE
- EX. STORM DRAIN LINE
- EX. OVERHEAD POWER LINE
- EX. FIBER OPTIC LINE
- EX. ONE CALL MARK
- EX. WATER METER
- EX. FIRE HYDRANT
- EX. SEWER MANHOLE
- EX. POWER POLE
- EX. WATER VALVE
- EX. LIGHT POLE
- EX. WATER METER
- EX. CONTOUR
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED EASEMENT LINE
- PROPOSED BUILDING SETBACK LINE
- PROPOSED CURB & GUTTER
- PROPOSED FIRE HYDRANT
- PROPOSED WATERLINE
- PROPOSED SEWER MANHOLE & PIPE
- PROPOSED SINGLE WATER SERVICE
- PROPOSED DOUBLE WATER SERVICE
- PROPOSED SEWER SERVICE
- PROPOSED LIGHT POLE
- PROPOSED HANDICAP RAMP
- PROPOSED STORM BOX & PIPE

ENGINEERING SERVICES INC.
2101 SOUTH OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING
IMEG

SHEET NAME
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: NAB
W.O. #: 26913

3

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WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

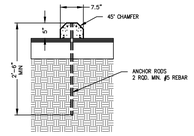
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contents
STORM & GRADING PLAN

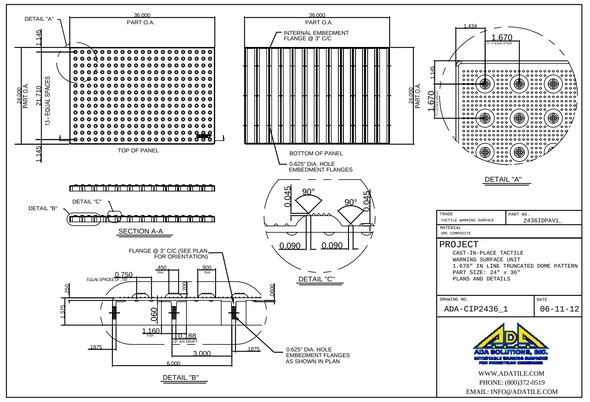
design. CD
date. 2026.09.11
project. 26913

C3.00



WHEEL STOP DETAIL

NOT TO SCALE



TRADE: TACTILE WARNING SURFACE	PART NO.: 243610PAV1_
MATERIAL: CAST IRON	

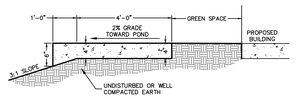
PROJECT

CAST-IN-PLACE TACTILE
WARNING SURFACE UNIT
1.670" IN LINE TRUNCATED DOME PATTERN
PART SIZE: 24" x 36"
PLANS AND DETAILS

DRAWING NO.	DATE
ADA-CIP2436_1	06-11-12

ADA SOLUTIONS, INC.
DETECTABLE WARNING PRODUCTS
FOR PEDESTRIAN ACCESS

WWW.ADATILE.COM
PHONE: (800)372-0519
EMAIL: INFO@ADATILE.COM

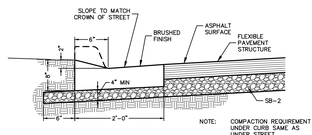


NOTE: PROVIDE EXPANSION JOINTS AT EACH STRUCTURE, CURB, AND A MINIMUM INTERVAL OF 200 FOOT.

NOTE: TRANSVERSE JOINTS BETWEEN EXPANSION JOINTS TO BE SCORED AT 5 FOOT INTERVALS.

SIDEWALK 6" TURNDOWN DETAIL

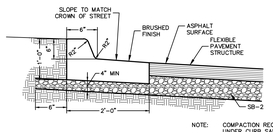
NOT TO SCALE



NOTE: COMPACTION REQUIREMENT UNDER CURB SAME AS UNDER STREET.

MODIFIED CONCRETE CURB & GUTTER

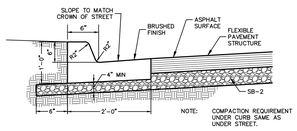
NOT TO SCALE



NOTE: COMPACTION REQUIREMENT UNDER CURB SAME AS UNDER STREET.

STANDARD 6" CONCRETE SPILL CURB & GUTTER

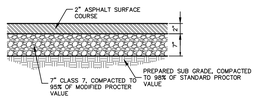
NOT TO SCALE



NOTE: COMPACTION REQUIREMENT UNDER CURB SAME AS UNDER STREET.

STANDARD 6" CONCRETE CURB & GUTTER

NOT TO SCALE



LIGHT DUTY PAVING

NOT TO SCALE

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

ESI ENGINEERING SERVICES INC.
1201 SOUTH MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING
IMEG

wachter

TYPICAL DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: 1"=30"
DATE: Sep 25, 2026
ENGINEER: SJM
DRAWN BY: NAB
W.O. #: 26913

4

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WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

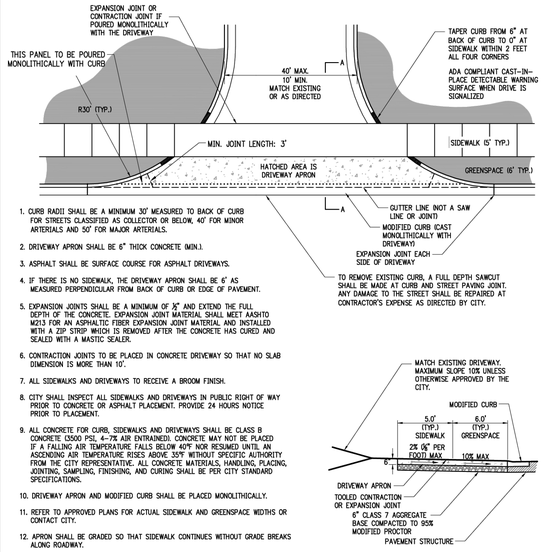
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contents:
TYPICAL DETAILS

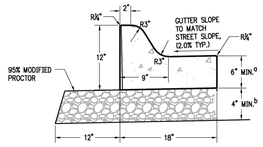
design: CD
date: 2026.09.11
project: 26913

C4.00

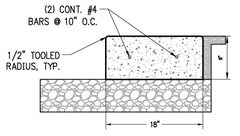


1. CURB RADII SHALL BE A MINIMUM 30' MEASURED TO BACK OF CURB FOR STREETS CLASSIFIED AS COLLECTOR OR BELOW, 40' FOR MINOR ARTERIALS AND 50' FOR MAJOR ARTERIALS.
2. DRIVEWAY APRON SHALL BE 6" THICK CONCRETE (MIN.).
3. ASPHALT SHALL BE SURFACE COURSE FOR ASPHALT DRIVEWAYS.
4. IF THERE IS NO SIDEWALK, THE DRIVEWAY APRON SHALL BE 6' AS MEASURED PERPENDICULAR FROM BACK OF CURB OR EDGE OF PAVEMENT.
5. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER.
6. CONTRACTION JOINTS TO BE PLACED IN CONCRETE DRIVEWAY SO THAT NO SLAB DIMENSION IS MORE THAN 10'.
7. ALL SIDEWALKS AND DRIVEWAYS TO RECEIVE A BROOM FINISH.
8. CITY SHALL INSPECT ALL SIDEWALKS AND DRIVEWAYS IN PUBLIC RIGHT OF WAY PRIOR TO CONCRETE OR ASPHALT PLACEMENT. PROVIDE 24 HOURS NOTICE PRIOR TO PLACEMENT.
9. ALL CONCRETE FOR CURB, SIDEWALKS AND DRIVEWAYS SHALL BE CLASS B CONCRETE (3500 PSI, 4-7% AIR ENTRAINED). CONCRETE MAY NOT BE PLACED IF A FALLING AIR TEMPERATURE FALLS BELOW 40°F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35°F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING, AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
10. DRIVEWAY APRON AND MODIFIED CURB SHALL BE PLACED MONOLITHICALLY.
11. REFER TO APPROVED PLANS FOR ACTUAL SIDEWALK AND GREENSPACE WIDTHS OR CONTACT CITY.
12. APRON SHALL BE GRADED SO THAT SIDEWALK CONTINUES WITHOUT GRADE BREAKS ALONG ROADWAY.
13. DRIVEWAY SHALL BE HARD SURFACE FOR ANY SLOPES OVER 8%.

COMMERCIAL DRIVEWAY DETAIL
NOT TO SCALE

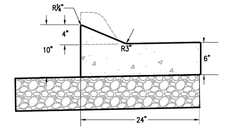


STANDARD CURB AND GUTTER



TYP. 8"X18" FLAT RIBBON CURB

1. CONCRETE SHALL BE CLASS B, 3500 PSI, 4-7% AIR ENTRAINED. CONCRETE MAY NOT BE POURED IF A FALLING AIR TEMPERATURE FALLS BELOW 40°F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35°F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
2. CONTRACTION JOINTS SHALL BE PLACED AT 15 FOOT INTERVALS WITH EXPANSION JOINTS AT 75 FOOT INTERVALS.
3. ALL CONTRACTION JOINTS SHALL BE SEALED WITH SONNEBORN® SONOLASTIC SL 1™ (OR APPROVED EQUAL) ACCORDING TO MANUFACTURER'S INSTRUCTIONS PRIOR TO FINAL ASPHALT PLACEMENT.
4. EXPANSION JOINT MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES OR AS DIRECTED BY ENGINEER. THE EXPANSION MATERIAL SHALL BE ½" ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. MATERIAL SHALL BE LEFT LOWER OR TRIMMED TO BE ½" BELOW THE TOP OF CURB.
5. EXPANSION JOINT MATERIAL SHALL BE FULL DEPTH OF THE CURB AND PERPENDICULAR TO THE CURB LINE.
6. ALL CURB AND GUTTER SHALL RECEIVE A BROOM FINISH.
7. CONTRACTOR SHALL PROVIDE THE CITY 24 HOURS NOTICE WHEN FORMS OR STRINGLINE ARE READY PRIOR TO CONCRETE PLACEMENT.
8. FOR CONCRETE STREETS, IF THE CURB AND GUTTER IS CAST SEPARATELY, ⅝"ø DOWEL RODS 30" LONG SHALL BE PROVIDED A MINIMUM OF EVERY 30" ON-CENTER.

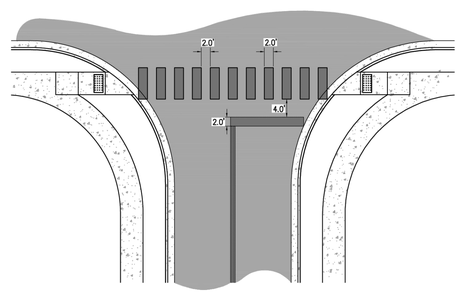


MODIFIED CURB AND GUTTER
(PLACE ACROSS ALL DRIVEWAYS)

c. IF MONOLITHICALLY CAST WITH THE STREET, THICKNESS SHALL MATCH STREET PAVING THICKNESS.

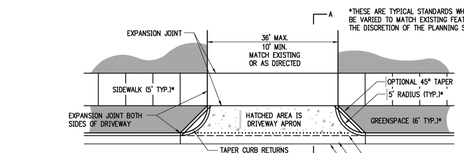
b. IF PAVEMENT SECTION IS 10" THICK OR MORE, 4" OF CLASS 7 AGGREGATE SHALL EXTEND UNDER CURB AND 1 FOOT BEYOND. IF THE PAVEMENT SECTION IS LESS THAN 10" THICK, THE CURB AND GUTTER MAY BE PLACED ON SUBGRADE. SUBGRADE SHALL BE PROOF-ROLLED BY A LOADED TANDEM-AXLE DUMP TRUCK.

CURB AND GUTTER DETAIL
NOT TO SCALE

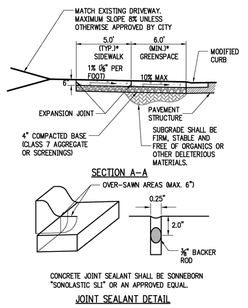


1. WIDTH OF THE CROSSWALK STRIPING SHALL BE THE WIDTH OF THE SIDEWALK PLUS TWO (2) FEET. 1 FOOT EXTRA ON EACH SIDE OF RAMP.
2. CROSSWALK STRIPING SHALL BE CENTERED ON THE ADA RAMP.
3. CROSSWALKS SHALL BE PLACED AT ALL STREET INTERSECTIONS WHERE THERE ARE ADA RAMPS.
4. ALL CROSSWALKS AND STOP BARS SHALL BE WHITE THERMOPLASTIC WHEN INSTALLED ON ASPHALT PAVEMENT. STRIPING ON CONCRETE PAVEMENT TO BE METHYL METHACRYLATE (MMA) PAINT WITH REFLECTIVE BEADS PER MUTCD REQUIREMENTS.
5. CROSSWALKS ARE TO BE INSTALLED PERPENDICULAR TO THE STREET UNLESS APPROVED OTHERWISE BY THE CITY.
6. CROSSWALK PANELS SHALL BE PLACED PARALLEL WITH THE ROAD CENTERLINE.
7. ALL MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF MUTCD.

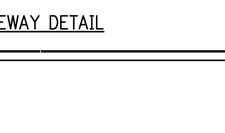
TYPICAL CROSSWALK DETAILS
NOT TO SCALE



1. CURB RADII SHALL BE 5' MEASURED TO BACK OF CURB.*
2. DRIVEWAY APRON SHALL BE 6" THICK CONCRETE (MIN.)
3. ASPHALT SHALL BE SURFACE COURSE FOR ASPHALT DRIVEWAYS.
4. IF THERE IS NO SIDEWALK, THE DRIVEWAY APRON SHALL BE 6' AS MEASURED PERPENDICULAR FROM BACK OF CURB OR EDGE OF PAVEMENT.
5. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER.
6. CONTRACTION JOINTS TO BE PLACED IN CONCRETE DRIVEWAY SO THAT NO SLAB DIMENSION IS MORE THAN 15'.
7. ALL SIDEWALKS AND DRIVEWAYS TO RECEIVE A BROOM FINISH.
8. CITY SHALL INSPECT ALL SIDEWALKS AND DRIVEWAYS IN PUBLIC RIGHT OF WAY PRIOR TO CONCRETE OR ASPHALT PLACEMENT. PROVIDE 24 HOURS NOTICE PRIOR TO PLACEMENT.
9. ALL CONCRETE FOR CURB, SIDEWALKS AND DRIVEWAYS SHALL BE CLASS B CONCRETE (3500 PSI, 4-7% AIR ENTRAINED). CONCRETE MAY NOT BE PLACED IF A FALLING AIR TEMPERATURE FALLS BELOW 40°F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35°F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING, AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
10. DRIVEWAY APRON AND MODIFIED CURB SHALL BE PLACED MONOLITHICALLY.
11. REFER TO APPROVED PLANS FOR ACTUAL SIDEWALK AND GREENSPACE WIDTHS OR CONTACT CITY.
12. APRON SHALL BE GRADED SO THAT SIDEWALK CONTINUES WITHOUT GRADE BREAKS ALONG ROADWAY.
13. DRIVEWAY SHALL BE HARD SURFACE FOR ANY SLOPES OVER 8%.



SECTION A-A

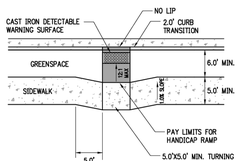


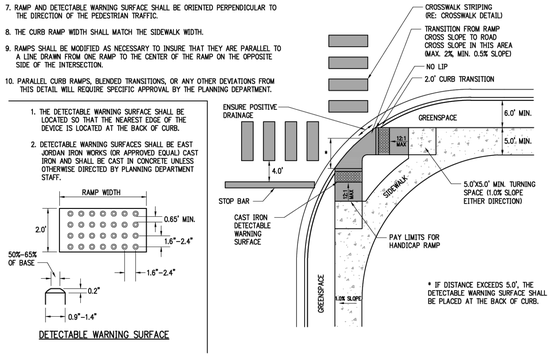
CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL1" OR AN APPROVED EQUAL.

JOINT SEALANT DETAIL

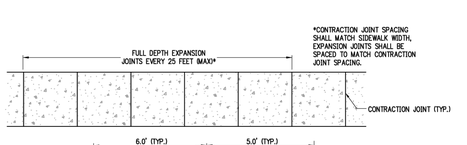
RESIDENTIAL DRIVEWAY DETAIL
NOT TO SCALE

1. ALL CURB RAMPS SHALL HAVE A MAXIMUM SLOPE OF 8.3%, BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FT.
2. ALL SIDEWALKS SHALL HAVE A TARGET CROSS SLOPE OF 1.0%. SEE SIDEWALK DETAILS FOR SIDEWALK CONSTRUCTION REQUIREMENTS. NO PORTION OF ANY SIDEWALK WILL BE ACCEPTED IF THIS CROSS SLOPE EXCEEDS 2.0% OVERANY 4 FT. WIDE SECTION.
3. CONCRETE SHALL BE 6" THICK AND 3500 PSI WITH 4-7% AIR ENTRAINMENT. 4" OF AGGREGATE BASE SHALL BE REQUIRED BENEATH THE RAMP JUST LIKE THE SIDEWALK. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
4. DETECTABLE WARNING SURFACES SHALL BE PLACED AT ALL LOCATIONS WHERE RAMPS CROSS A STREET OR A SIGNALIZED COMMERCIAL DRIVEWAY FOR THE FULL WIDTH OF THE RAMP.
5. THE CONTRACTOR SHALL ENSURE THAT THE GUTTER IS MAINTAINED THROUGH THE AREA OF THE RAMP AND THAT ANY TRANSITION AREAS DRAIN TO THE STREET.
6. THE SHADED AREA SHOWN ON THE DETAIL SHALL BE THE PAY LIMITS CONSIDERED AS PART OF THE CURB RAMP.
7. RAMP AND DETECTABLE WARNING SURFACE SHALL BE ORIENTED PERPENDICULAR TO THE DIRECTION OF THE PEDESTRIAN TRAFFIC.
8. THE CURB RAMP WIDTH SHALL MATCH THE SIDEWALK WIDTH.
9. RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.
10. PARALLEL CURB RAMPS, BLENDED TRANSITIONS, OR ANY OTHER DEVIATIONS FROM THIS DETAIL WILL REQUIRE SPECIFIC APPROVAL BY THE PLANNING DEPARTMENT.



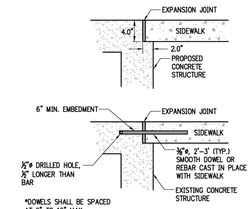


PERPENDICULAR CURB RAMP DETAILS
NOT TO SCALE



1. ALL SIDEWALKS SHALL HAVE A TARGET 1.0% CROSS SLOPE. NO PORTION OF ANY SIDEWALK WILL BE ACCEPTED IF THE CROSS SLOPE EXCEEDS 2.0% OVER ANY 4 FT. WIDE SECTION.
2. ALL SIDEWALKS SHALL RECEIVE A BROOM FINISH.
3. ALL SIDEWALK EDGES SHALL HAVE A ½" RADIUS EDGE.
4. ALL CONCRETE SHALL BE CLASS B (3500 PSI, 4-7% AIR ENTRAINED). CONCRETE MAY NOT BE PLACED IF A FALLING AIR TEMPERATURE FALLS BELOW 40°F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35°F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
5. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND BE INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER.
6. CONTRACTION JOINTS SHALL BE PLACED AT 5 FOOT INTERVALS.*
7. WHEN PLACING SIDEWALK AGAINST AN EXISTING CONCRETE STRUCTURE WHERE IT IS DESIRABLE THAT THE SIDEWALK REMAIN FLUSH, THE SIDEWALK SHALL BE DOWELED INTO THE STRUCTURE.
8. ALL SIDEWALK BASE SHALL BE PLACED ON FIRM, STABLE SUBGRADE.
9. CITY SHALL INSPECT ALL SIDEWALKS IN PUBLIC RIGHT OF WAY PRIOR TO CONCRETE PLACEMENT. PROVIDE 24 HOURS NOTICE PRIOR TO PLACEMENT.
10. CONTACT CITY FOR ACTUAL GREENSPACE AND SIDEWALK WIDTHS REQUIRED PRIOR TO BEGINNING OF CONSTRUCTION. SIDEWALK AND GREENSPACE WIDTH MAY BE VARIED TO MATCH EXISTING FEATURES IF APPROVED BY THE PLANNING STAFF.

CONNECTION TO CONCRETE STRUCTURES



*DOWELS SHALL BE SPACED AT 6' TO 16' MAX.

TYPICAL SIDEWALK DETAILS
NOT TO SCALE

THE CITY OF LOWELL ARKANSAS
216 N LINCOLN ST
LOWELL, AR 72745
PH: 479-770-2185
www.lowellarkansas.gov

STANDARD DETAILS

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REVISIONS:

No.	Description	Date

NOTES:

DATE: 04/09/2026

SHEET NUMBER: OF

ENGINEERING SERVICES INC.
1 SOUTHERN HILLS BLVD.
SUITE 101
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING
IMEG

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

TYPICAL DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: 1"=30"
DATE: Sep 25, 2026
ENGINEER: DJM
DRAWN BY: NAR
W.O. #: 26913

5

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WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

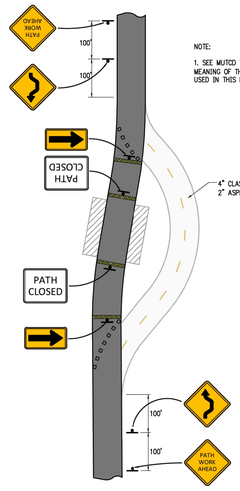
REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents:
LOWELL DETAILS

design. CD
date. 2026.09.11
project. 26913

C5.00

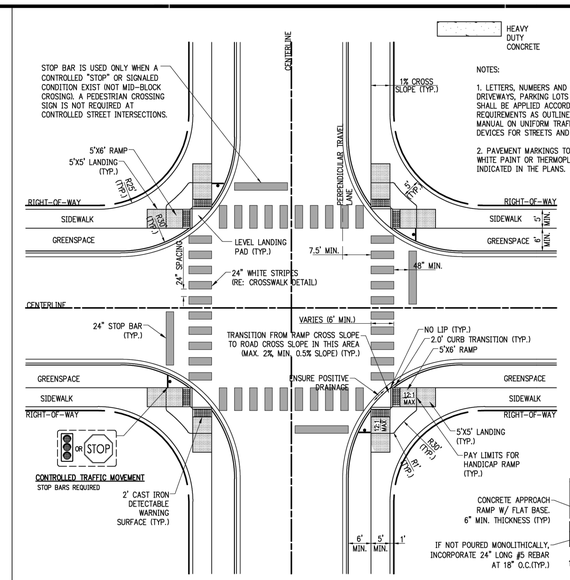


NOTE:

1. SEE MUTCD TABLES 6H-2 AND 6H-3 FOR THE MEANING OF THE SYMBOLS AND/OR LETTER CODES USED IN THIS FIGURE.

TEMPORARY PATH DETOUR FOR SHARED-USE PATH (TA-B3)

NOT TO SCALE

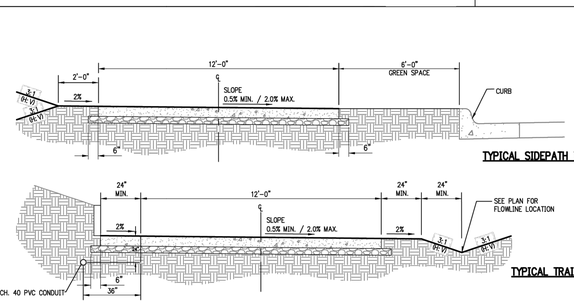


STANDARD LOCAL STREET INTERSECTION

NOT TO SCALE

STANDARD LOCAL STREET RAISED INTERSECTION

NOT TO SCALE



NOTES:

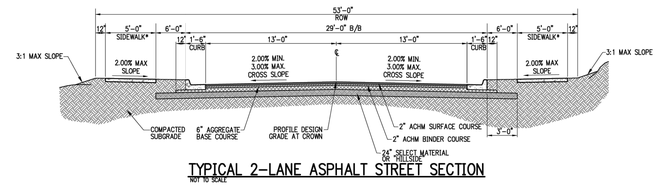
1. ASSURE SAW JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. SPECIFIED JOINT SEALANT APPLIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

NOTES:

1. MINIMUM VERTICAL CLEARANCE IS 8 FEET.
2. SOILS AND VEHICLE LOADS PER GEOTECHNICAL REPORT
3. MAXIMUM LONGITUDINAL SLOPE IS 5.0% UNLESS OTHERWISE APPROVED BY CITY ENGINEER.

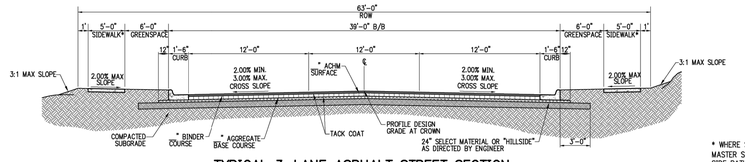
CONCRETE MULTI-USE TRAIL

NOT TO SCALE



TYPICAL 2-LANE ASPHALT STREET SECTION

NOT TO SCALE

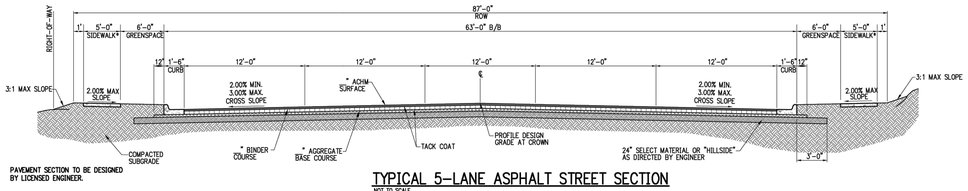


PAVEMENT SECTION TO BE DESIGNED BY LICENSED ENGINEER.

* WHERE SHOWN ON THE LOWELL MASTER STREET PLAN, A 12' WIDE SIDE PATH IS REQUIRED IN LIEU OF SIDEWALK.

TYPICAL 3-LANE ASPHALT STREET SECTION

NOT TO SCALE



PAVEMENT SECTION TO BE DESIGNED BY LICENSED ENGINEER.

TYPICAL 5-LANE ASPHALT STREET SECTION

NOT TO SCALE

ESI
ENGINEERING SERVICES INC.
2101 SOUTH MISSION RD.
SPRINGDALE, ARKANSAS 72764

THE CITY OF LOWELL ARKANSAS
216 N LINCOLN ST
LOWELL, AR 72745
PH: 479-770-2185
www.lowellarkansas.gov

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STANDARD DETAILS

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issue for pricing:	2026.09.11
issue for construction:	
revisions:	

REVISIONS:

No.	Description	Date

NOTES:

DATE: 04/09/2026

SHEET NUMBER: OF

TYPICAL DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: NAB
W.O. #: 26913

6

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

contents: LOWELL DETAILS

design. CD
date. 2026.09.11
project. 26913

C6.00

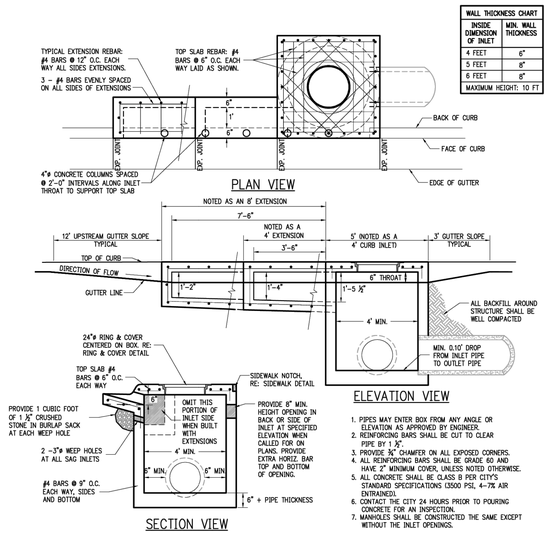
issue for review: 2026.08.05

issue for pricing: 2026.09.11

issue for construction:

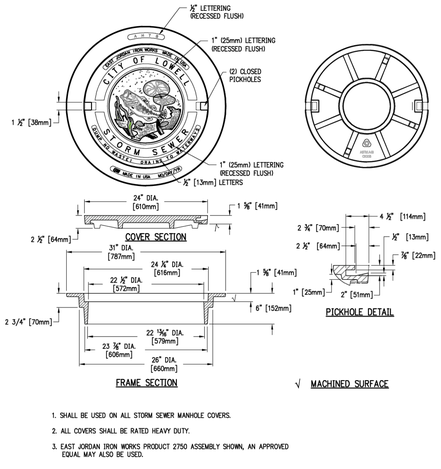
revisions:

WALL THICKNESS CHART	
INSIDE DIMENSION OF INLET	MIN. WALL THICKNESS
4 FEET	6"
5 FEET	8"
6 FEET	8"
MAXIMUM HEIGHT: 10 FT	



1. PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS APPROVED BY ENGINEER.
2. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 1 ½".
3. PROVIDE ¾" CHAMFER ON ALL EXPOSED CORNERS.
4. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE 2" MINIMUM COVER, UNLESS NOTED OTHERWISE.
5. ALL CONCRETE SHALL BE CLASS B PER CITY'S STANDARD SPECIFICATIONS (3500 PSI, 4–7% AIR ENTRAINED).
6. CONTACT THE CITY 24 HOURS PRIOR TO POURING CONCRETE FOR AN INSPECTION.
7. MANHOLES SHALL BE CONSTRUCTED THE SAME EXCEPT WITHOUT THE INLET OPENINGS.

CIRCULAR CURB INLET/MANHOLE DETAIL
NOT TO SCALE

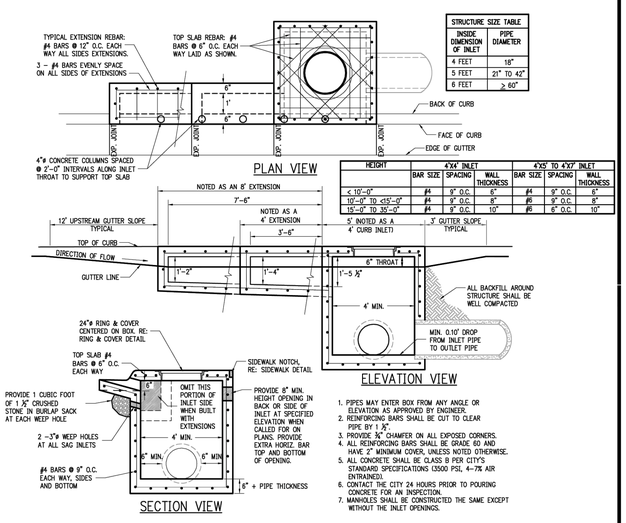


1. SHALL BE USED ON ALL STORM SEWER MANHOLE COVERS.
2. ALL COVERS SHALL BE RAITED HEAVY DUTY.
3. EAST JORDAN IRON WORKS PRODUCT 2750 ASSEMBLY SHOWN, AN APPROVED EQUAL MAY ALSO BE USED.

RING AND COVER DETAIL
NOT TO SCALE

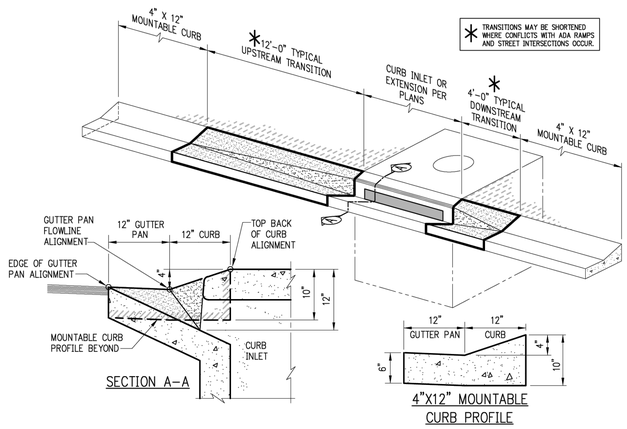
STRUCTURE SIZE TABLE	
INSIDE DIMENSION OF INLET	PIPE DIAMETER
4 FEET	18"
5 FEET	21" TO 42"
6 FEET	> 60"

HEIGHT	4'X4' INLET			4'X5' TO 4'X7' INLET		
	BAR SIZE	SPACING	WALL THICKNESS	BAR SIZE	SPACING	WALL THICKNESS
< 10'–0"	#4	9" O.C.	6"	#4	9" O.C.	6"
10'–0" TO <15'–0"	#4	9" O.C.	8"	#6	9" O.C.	8"
15'–0" TO 35'–0"	#4	9" O.C.	10"	#8	6" O.C.	10"



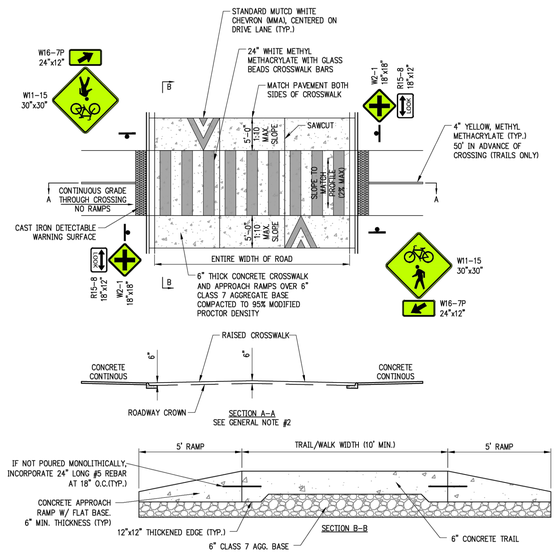
1. PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS APPROVED BY ENGINEER.
2. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 1 ½".
3. PROVIDE ¾" CHAMFER ON ALL EXPOSED CORNERS.
4. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE 2" MINIMUM COVER, UNLESS NOTED OTHERWISE.
5. ALL CONCRETE SHALL BE CLASS B PER CITY'S STANDARD SPECIFICATIONS (3500 PSI, 4–7% AIR ENTRAINED).
6. CONTACT THE CITY 24 HOURS PRIOR TO POURING CONCRETE FOR AN INSPECTION.
7. MANHOLES SHALL BE CONSTRUCTED THE SAME EXCEPT WITHOUT THE INLET OPENINGS.

RECTANGULAR CURB INLET/MANHOLE DETAIL
NOT TO SCALE



4"X12" MOUNTABLE CURB TRANSITION at CURB INLETS & EXTENSIONS
NOT TO SCALE

NON-TRAFFIC ONLY



1. SIDEWALK GRADE SHALL BE CONTINUOUS ACROSS STREET – NO RAMPS DOWN TO CROSSWALK.
2. TOP OF CROSSWALK SHALL BE RAISED 6 INCHES ABOVE THE FINISHED GRADE FOR ENTIRE LENGTH AND WIDTH OF THE CROSSING UNLESS APPROVED OTHERWISE.
3. TOP OF CROSSWALK WIDTH MAY BE REDUCED TO 10 FEET IN SIDEWALK APPLICATIONS UNLESS DIRECTED OTHERWISE.
4. W2–1 AND R15–8 SIGNS SHALL BE ONLY USED FOR MULTI–USE TRAIL APPLICATIONS UNLESS DIRECTED OTHERWISE.
5. STORM DRAINAGE SHALL BE INCORPORATED AS NECESSARY TO DRAIN GUTTERS.
6. IF THE TOP IS POURED SEPARATELY FROM THE 6 FOOT SIDE SLOPES, INCORPORATE 24" LONG #5 REBAR AT 18" ON CENTER TO BIND THE SIDE SLOPES TO THE MAIN TRAIL – NOT SMOOTH DOWELS.
7. SEAL ALL JOINTS WITH APPROVED JOINT SEALANT.
8. PLACEMENT OF ROADWAY AND SHARED–USE PATH SIGNAGE SHALL MAINTAIN 2' MIN. CLEARANCE FROM EDGE OF PATH.
9. WARNING SIGNAGE AND SUPPLEMENTAL PLAQUES FOR SHARED–USE PATH CROSSINGS SHALL HAVE A FLUORESCENT YELLOW–GREEN BACKGROUND UNLESS DIRECTED OTHERWISE.
10. PAVEMENT PARKINGS ON CONCRETE TO BE METHYL METHACRYLATE (MMA) PAINT WITH REFLECTIVE BEADS PER MUTCD STANDARDS.
11. PEDESTRIAN HYBRID BEACON OR RECTANGULAR RAPID FLASHING BEACONS (RRFBS) MAY BE REQUIRED BASED ON TRAFFIC VOLUMES OR SITE–SPECIFIC CONDITIONS, PER THE CITY ENGINEER'S DETERMINATION.
12. CONTACT THE PUBLIC WORKS DEPARTMENT AT 479–770–2185 PRIOR TO PLACING CONCRETE.

RAISED MID–BLOCK CROSSING DETAIL
NOT TO SCALE

ENGINEERING SERVICES INC.
2101 SOUTH O STREET
SPRINGDALE, ARKANSAS 72764

THE CITY OF LOWELL ARKANSAS
216 N LINCOLN ST
LOWELL, AR 72745
PH: 479-770-2185
www.lowellarkansas.gov

STANDARD DETAILS

Arkansas One Call 811
Know what's **below**.
Call before you dig.

REVISIONS:

No.	Description	Date

NOTES:

DATE: 04/09/2026

SHEET NUMBER: 7 OF

TYPICAL DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: RJM
DRAWN BY: NAB
W.O. #: 26913

HP ENGINEERING
IMEG
wachter

WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

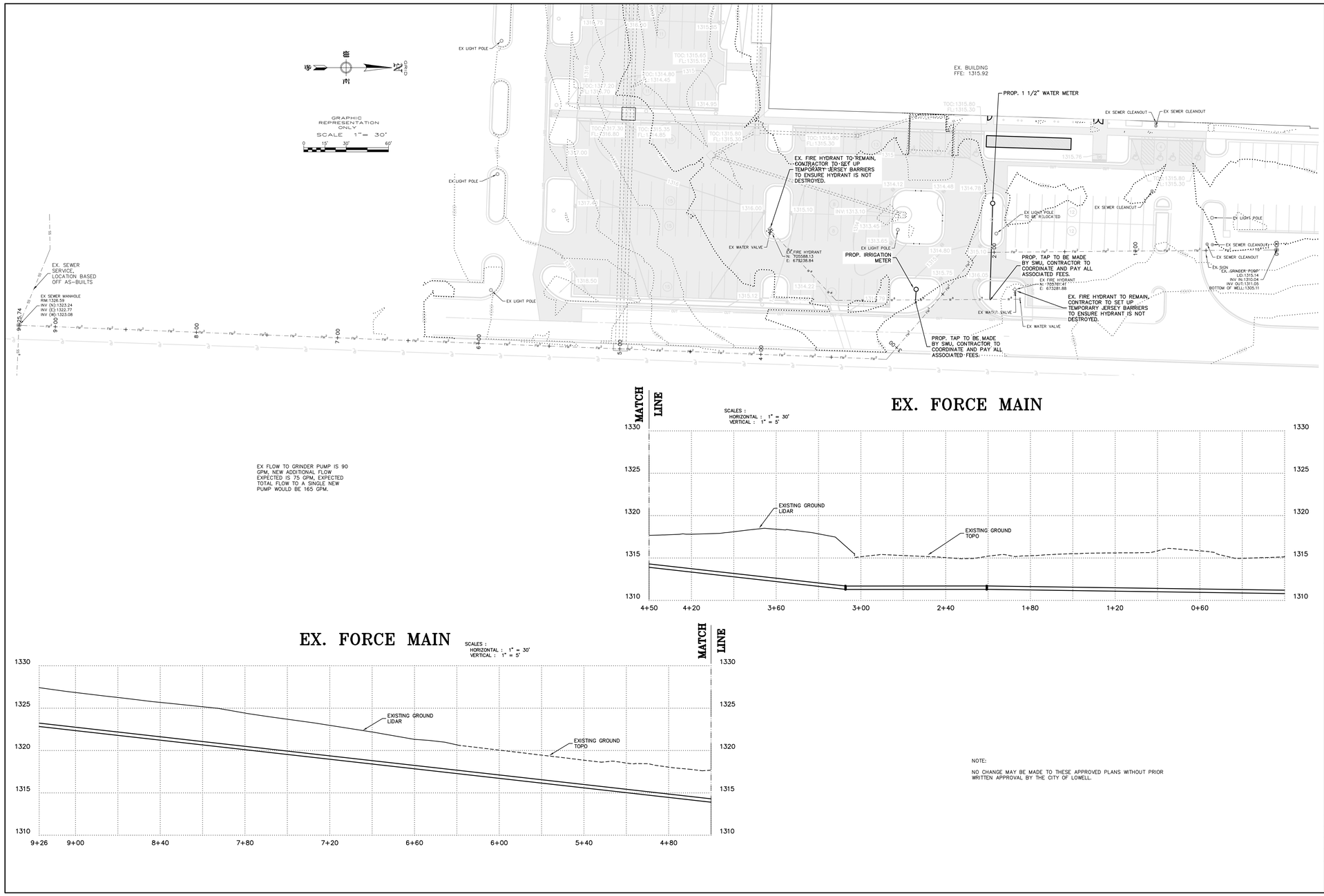
REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents: LOWELL DETAILS

design. CD
date. 2026.09.11
project. 26913

C7.00



ENGINEERING SERVICES INC.
1201 SENTINEL DR.
SPRINGDALE, ARKANSAS 72764

UTILITY PLAN
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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SCALE: 1"=30'
DATE: Sep 25, 2026
DESIGN: SJM
DRAWN BY: NMB
W.O. #: 26913

8

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

HP ENGINEERING
IMEG
wachter

WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS, WITHOUT EXCEPTION. ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

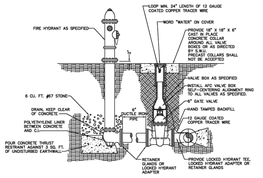
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UTILITY PLAN

design. CD
date. 2026.09.11
project. 26913

C8.00

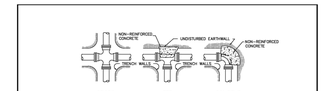
issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

NOTES:
1. ALL HYDRANTS TO BE SET PLUMB W/PUMPER NOZZLE FACING STREET OR AS DIRECTED BY THE ENGINEER.
2. SEE DRAWING NUMBER FOR FIRE HYDRANT PLACEMENT.



FIRE HYDRANT & GATE VALVE
N.T.S.
S-1

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: JSB — DRAWING NO: S-1 — DATE: AUGUST 2025

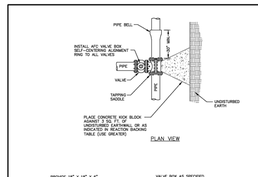


SIZE	REACTION BACKING TABLE: REQUIRED SQ. FT. OF UNDISTURBED EARTH/WALL FOR REACTION BACKING — TYPE OF FITTINGS: TEE	90°	45°	22 1/2°
4"	4	4	2	1
6"	9	9	4	2
8"	16	16	7	4
10"	25	25	11	6
12"	36	36	16	8
14"	49	49	21	11
16"	64	64	28	14
18"	81	81	35	18
20"	100	100	44	22
24"	144	144	63	32

NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS, UNLESS OTHERWISE SPECIFIED.
2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
3. WRAP ALL FITTINGS WITH POLYETHYLENE AS SPECIFIED.
4. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
5. BACKING FOR FUTURE LINE EXTENSIONS SHALL BE PROVIDED. WHEN REMOVAL OF BACKING IS POSSIBLE IN THE FUTURE.
6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL AND VERTICAL SHALL BE BACKED.
7. THE REACTION BACKING TABLE IS BASED ON 150 PSI WATER PRESSURE, TWICE THE WORKING PRESSURE (WP) PLUS SURGE ALLOWANCE AT 2' MINIMUM COVER IN SOME AREAS AS DIRECTED BY THE ENGINEER.

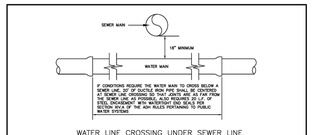
REACTION BACKING
N.T.S.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: KM/JW — DRAWING NO: S-3 — DATE: MARCH 2008

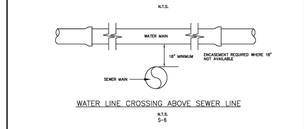


TAPPING SADDLE & VALVE
N.T.S.
S-3

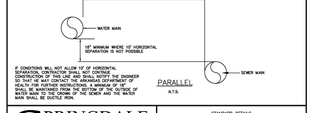
SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: CRG — DRAWING NO: S-5 — DATE: AUGUST 2014



WATER LINE CROSSING UNDER SEWER LINE
N.T.S.

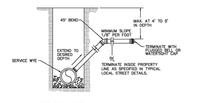


WATER LINE CROSSING ABOVE SEWER LINE
N.T.S.
S-6

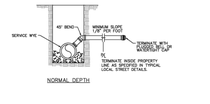


PARALLEL
N.T.S.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: CRG — DRAWING NO: S-6 — DATE: AUGUST 2025



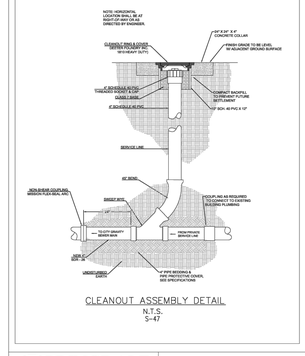
RISER FROM DEEP MAIN



NORMAL DEPTH

SEWER SERVICE CONNECTIONS
N.T.S.

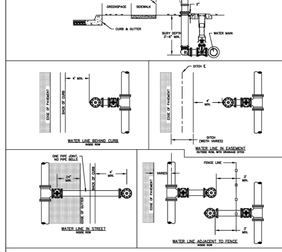
SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: TLS — DRAWING NO: S-16 — DATE: MARCH 2008



CLEANOUT ASSEMBLY DETAIL
N.T.S.
S-47

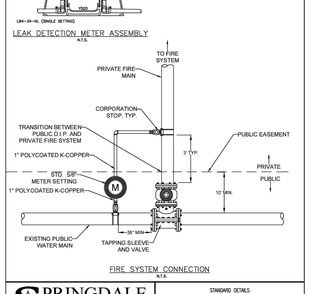
SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: CRM/JJ — DRAWING NO: S-47 — DATE: APRIL 2015

NOTES:
1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 2'-6" BURY.
3. HYDRANT LEAD SHALL BE 6" DIAMETER AND NOT EXCEED 10' IN EXTENSION PER HYDRANT.
4. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
5. NO RETAINER GLANDS ARE REQUIRED FOR MJ FITTINGS.
6. ALL HYDRANTS SHALL BE SET PLUMB WITH THE PUMPER NOZZLE FACING THE STREET OR AS DIRECTED BY ENG.
7. IF HYDRANT LEAD EXCEEDS ONE (1) JOINT OF PIPE VALVES SHALL BE INSTALLED AT HYDRANT AND MAIN.



FIRE HYDRANT PLACEMENT
N.T.S.
H-1

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: JSB — DRAWING NO: S-42 — DATE: DECEMBER 2019



LEAK DETECTION METER ASSEMBLY
N.T.S.

FIRE SYSTEM CONNECTION
N.T.S.

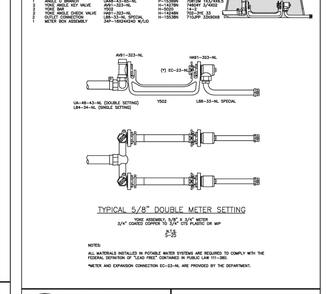
SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: JSB — DRAWING NO: S-36 — DATE: OCTOBER 2022

SINGLE SETTING MATERIAL LIST

QTY	DESCRIPTION	CODE	CATALOG NUMBER	AY MCDONALD
1	INLET CONNECTION	FORD	LBA-34-16L	74378W-22-7/8"x
1	FORD ANGLE KEY VALVE	FORD	KV43-333-16L	74612W 2"MXC
1	YOKE BAR	FORD	VBH2-333-16L	14"x
1	FORD DUAL CHECK VALVE	FORD	VBH2-333-16L	74612W 33
1	OUTLET CONNECTION	FORD	LBA-12-NL SPECIAL	74612W 12606NR
1	METER BOX ASSEMBLY	FORD	AVK-333-16-NL W/LID	

DOUBLE SETTING MATERIAL LIST

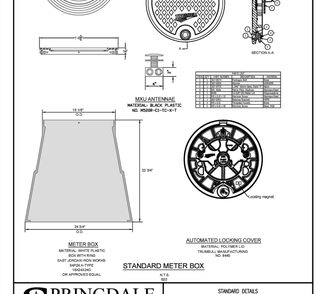
QTY	DESCRIPTION	CODE	CATALOG NUMBER	AY MCDONALD
1	ANGLE U (BRANCH)	FORD	LBA48-44-16-NL	P-15390B 74612W 15X7/8X3
1	FORD ANGLE KEY VALVE	FORD	KV43-333-16L	P-15390B 74612W 2"MXC
1	YOKE BAR	FORD	VBH2-333-16L	P-15390B 14"x
1	DUAL CHECK VALVE	FORD	VBH2-333-16L	P-15390B 74612W 33
1	OUTLET CONNECTION	FORD	LBA-12-NL SPECIAL	P-15390B 74612W 12606NR
1	METER BOX ASSEMBLY	FORD	24P-1836M24KD W/LID	



TYPICAL 5/8" DOUBLE METER SETTING
YOKE ASSEMBLY, 5/8" X 3/4" METER
3/4" COATED COPPER TO 3/4" CTS PLASTIC OR MIP

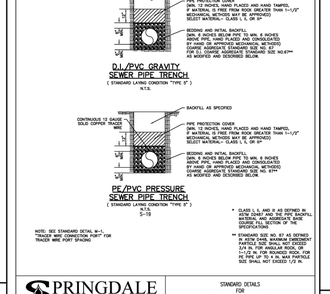
NOTES:
ALL MATERIALS INSTALLED IN POTABLE WATER SYSTEMS ARE REQUIRED TO COMPLY WITH THE FEDERAL DEFINITION OF "LEAD FREE" CONTAINED IN PUBLIC LAW 111-380.
*METER AND EXPANSION CONNECTION ED-33-NL ARE PROVIDED BY THE DEPARTMENT.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: TLS — DRAWING NO: S-25 — DATE: AUGUST 2025



STANDARD METER BOX
N.T.S.
S-22

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: TLS — DRAWING NO: S-22 — DATE: AUGUST 2025



D.I./PVC GRAVITY SEWER PIPE TRENCH
(STANDARD LAYING CONDITION "TYPE B")
N.T.S.
S-19

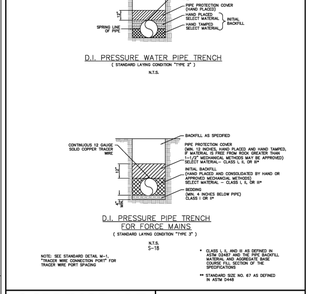


PE/PVC PRESSURE SEWER PIPE TRENCH
(STANDARD LAYING CONDITION "TYPE B")
N.T.S.
S-19

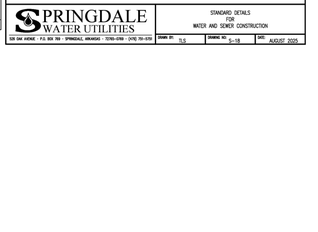
NOTE: SEE STANDARD DETAIL W-1, "TRACER WIRE CONNECTION POINT" FOR TRACER WIRE PORT SPACING

* CLASS I, II, AND III AS DEFINED IN ASTM D2487 AND, SEE PIPE BACKFILL MATERIAL AND AGGREGATE BASE MATERIAL SECTION OF THE SPECIFICATIONS.
** STANDARD SIZE NO. 67 AS DEFINED IN ASTM D448. MAXIMUM EMBEDMENT FOR SIZE NO. 67 IS 20'. MAXIMUM FOR SIZE NO. 8 IS 10'. MAXIMUM FOR 1-1/2 IN. PVC INSULATED ROCK. FOR 2 IN. PVC INSULATED ROCK, ROCK SIZE SHALL NOT EXCEED 1/2 IN.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: TLS — DRAWING NO: S-19 — DATE: AUGUST 2025



D.I. PRESSURE WATER PIPE TRENCH
(STANDARD LAYING CONDITION "TYPE D")
N.T.S.



D.I. PRESSURE PIPE TRENCH FOR FORCE MAINS
(STANDARD LAYING CONDITION "TYPE D")
N.T.S.
S-18

NOTE: SEE STANDARD DETAIL W-1, "TRACER WIRE CONNECTION POINT" FOR TRACER WIRE PORT SPACING

* CLASS I, II, AND III AS DEFINED IN ASTM D2487 AND, SEE PIPE BACKFILL MATERIAL AND AGGREGATE BASE MATERIAL SECTION OF THE SPECIFICATIONS.
** STANDARD SIZE NO. 67 AS DEFINED IN ASTM D448

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: TLS — DRAWING NO: S-18 — DATE: AUGUST 2025

NOMINAL PIPE DIAMETER	"D"
3" AND 4"	2'-4"
6"	2'-6"
8"	2'-8"
10"	2'-10"
12"	3'-0"
14"	3'-2"
16"	3'-4"
18"	3'-6"
20"	3'-8"
24"	4'-0"
27"	4'-4"
30"	4'-8"
36"	5'-0"
42"	5'-6"
48"	6'-0"

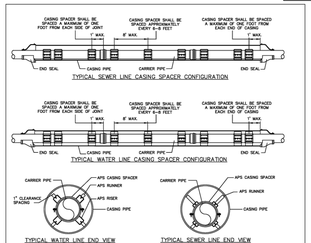
TRENCH WIDTH SCHEDULE

NOTES:
TRENCH WIDTH SHALL BE AS SET FORTH IN THE TABLE, UNLESS NOTED ON THE PLANS OR THE PROJECT SPECIFICATIONS. IT MAY BE NECESSARY FOR THE PLACEMENT OF SHEETING AND BRACING SYSTEM OR AS DIRECTED BY THE ENGINEER.



TYPICAL PIPE TRENCH
N.T.S.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: JNK — DRAWING NO: S-17 — DATE: MARCH 2008



TYPICAL SEWER LINE CASING SPACER CONFIGURATION

TYPICAL WATER LINE CASING SPACER CONFIGURATION

TYPICAL WATER LINE END VIEW

TYPICAL SEWER LINE END VIEW

ENCASEMENT DETAILS
N.T.S.

ENCASEMENT/CARRIER PIPE SIZING CHART

WATER MAINS SHALL BE SPECIAL CLASS 50, D.I.P. OR CLASS 200 C-900, SEWER MAINS SHALL BE SDR 26 PVC WITH D3034 O.D. OR SCH 40 PVC WITH 1120 O.D. (EQUAL OR 1/2 FOR SEWER FORCE MAIN

CARRIER PIPE	CARRIER O.D.	CASING PIPE	CASING I.D.
4"	4.80	8"	8.00"
6"	6.90	10"	10"
8"	9.05	12"	12"
10"	11.10	14"	14"
12"	13.20	16"	16"
14"	15.30	18"	18"
16"	17.40	20"	20"
18"	19.50	22"	22"
20"	21.60	24"	24"
24"	25.80	30"	30"

* ALL ENCASEMENT PIPE SHALL BE NEW AND HAVE A MINIMUM WALL THICKNESS OF 0.25 INCHES.

1. SPACERS SHALL BE MODEL SS OR SSM AS MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS (APS) AS SPECIFIED.
2. QUANTITY OF RUNNERS SHALL BE IN ACCORDANCE WITH CARRIER PIPE SIZE AS FOLLOWS:
   - TO 14" DIAMETER = 4 RUNNERS
   - 16" TO 24" DIAMETER = 6 RUNNERS
   - 26" TO 48" DIAMETER = 8 RUNNERS
3. DIMENSIONS BETWEEN SPACERS SHALL BE AS FOLLOW:
   - STAINLESS STEEL = 8' TO 9 FEET.
4. WIDTH OF SPACERS SHALL BE IN ACCORDANCE WITH CARRIER PIPE SIZE AS FOLLOWS:
   - TO 14" DIAMETER = 8" WIDTH
   - 16" AND LARGER DIAMETER = 12" WIDTH
5. A MINIMUM OF THREE SPACERS PER FULL JOINT OF PIPE.
6. WATER LINES SHALL BE "CENTERED" IN CASING.
7. SEWER LINES SHALL BE HELD TO SPECIFIED SLOPE.
8. ALL CASINGS SHALL BE SEALED WELLS LOOK GASKETS INSTALLED WITHIN THE CASING PIPE.

SPRINGDALE WATER UTILITIES — STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION
328 SW AVENUE · P.O. BOX 769 · SPRINGDALE, ARKANSAS · 72765-0769 · (479) 751-5270 — DRAWN BY: KM/JW — DRAWING NO: S-31 — DATE: AUGUST 2025

ENGINEERING SERVICES INC.
1401 S. 60TH ST. SUITE 101
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING
IMEG
wachter

UTILITY DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: N.T.S.
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: NAB
W.O. #: 26913

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WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents
UTILITY DETAILS

design. CD
date. 2026.09.11
project. 26913

C9.00

issue for review:	2026.08.05
issue for pricing:	2026.09.11
issue for construction:	
revisions:	

***NOTE:**

1. *PAVING SECTIONS ARE TO BE DETERMINED BY A GEOTECHNICAL ENGINEER. SECTIONS SHOWN SHALL BE MODIFIED TO THE GEOTECHNICAL ENGINEER RECOMMENDATION.*

2. *ALL STRIPING AND SYMBOLS SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALLATION.*

3. *CONTRACTOR IS TO SUBMIT A PLAN SHOWING JOINTS FOR OWNER APPROVAL AS PART OF THE PAVING SUBMITTAL.*

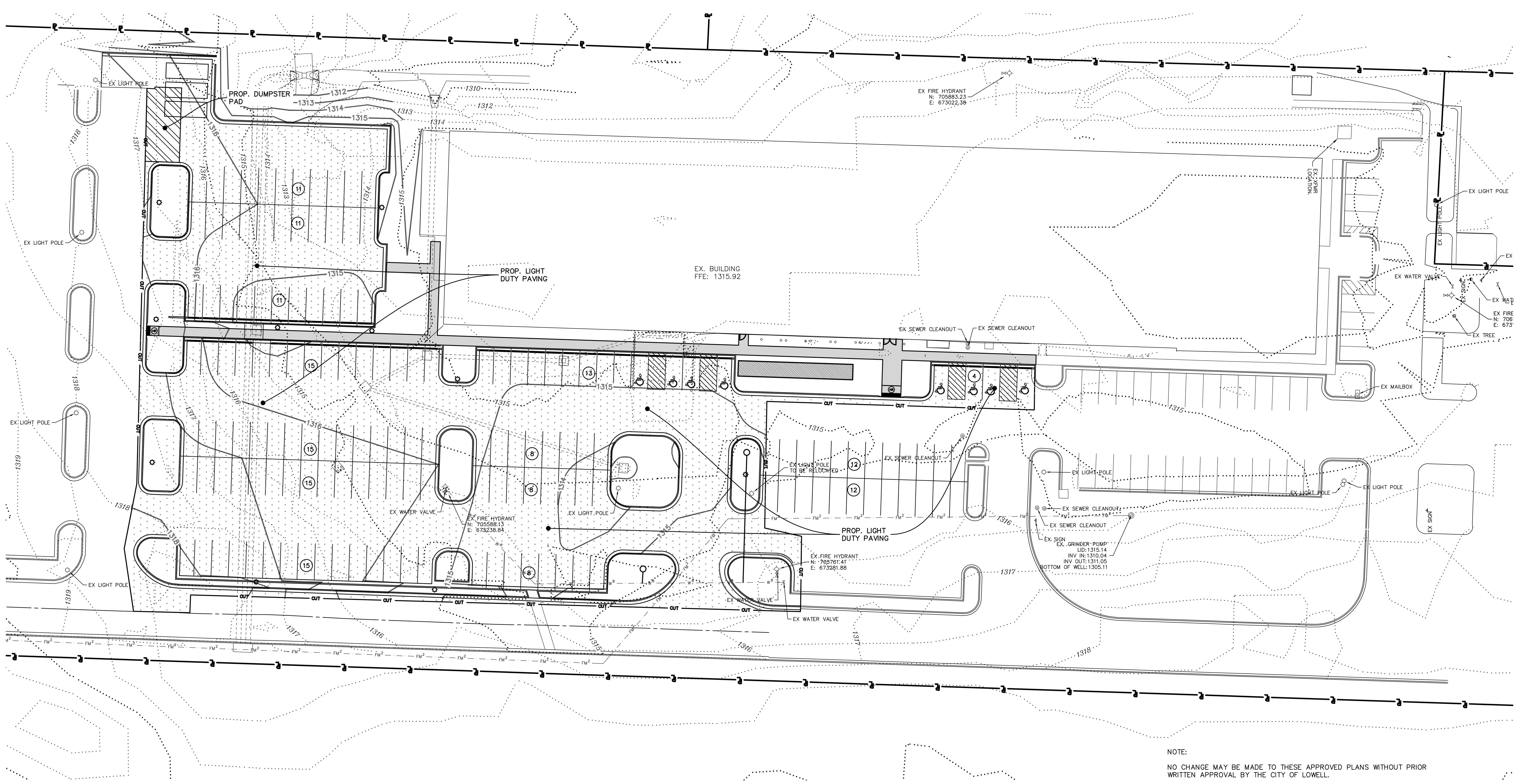
4. *WITHIN 40 DAYS OF PLACEMENT OF CURBS, THEY SHALL BE BACKFILLED, FINE GRADED WITH A MINIMUM OF 4-INCHES OF TOPSOIL, AND HYDROMULCHED OR SODDED WITH PERMANENT GRASSES.*

GRID N

GRAPHIC REPRESENTATION ONLY
SCALE 1"= 30'
0 15' 30' 60'

LIGHT DUTY PAVING:

DUMPSTER PAD:



LEGEND

JB	=	JUNCTION BOX
DI	=	DROP INLET
GI	=	GRATED INLET
AI	=	AREA INLET
OS	=	OUTLET STRUCTURE
FES	=	FLARED END SECTION
HW	=	HEADWALL
AS	=	AQUA SWIRL
RCP	=	REINFORCED CONCRETE PIPE
HERCP	=	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HDPE	=	HIGH DENSITY POLYETHYLENE

*ALL RCP SHALL BE CLASS 3 UNLESS OTHERWISE SPECIFIED

LEGEND

- IRON PIN FOUND
- IRON PIN SET
- PROPERTY LINE
- EX. EASEMENT LINE
- EX. BUILDING SETBACK LINE
- EX. ROAD CENTERLINE
- EX. CURB & GUTTER
- EX. WATER LINE
- EX. 8" SEWER LINE
- EX. STORM DRAIN LINE
- EX. OVERHEAD POWER LINE
- EX. FIBER OPTIC LINE
- EX. ONE CALL MARK
- EX. WATER METER
- EX. FIRE HYDRANT
- EX. SEWER MANHOLE
- EX. POWER POLE
- EX. WATER VALVE
- EX. LIGHT POLE
- EX. WATER METER
- EX. CONTOUR (1369)
- PROPOSED CONTOUR (1368)
- PROPOSED FENCE
- PROPOSED EASEMENT LINE
- PROPOSED BUILDING SETBACK LINE
- PROPOSED CURB & GUTTER
- PROPOSED FIRE HYDRANT
- PROPOSED WATERLINE
- PROPOSED SEWER MANHOLE & PIPE
- PROPOSED SINGLE WATER SERVICE
- PROPOSED DOUBLE WATER SERVICE
- PROPOSED SEWER SERVICE
- PROPOSED LIGHT POLE
- PROPOSED HANDICAP RAMP
- PROPOSED STORM BOX & PIPE

NOTE:

NO CHANGE MAY BE MADE TO THESE APPROVED PLANS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF LOWELL.

ENGINEERING SERVICES INC.
1207 SOUTH OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

PAVING AND SIGNAGE PLAN

WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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Z:\LSD\26913 - WACHTER LOWELL\26913 - PAVING AND SIGNAGE PLAN.DWG

SCALE: 1"=30'

DATE: Sep 25, 2026

ENGINEER: BJM
DRAWN BY: NMB

W.O. #: 26913

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WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

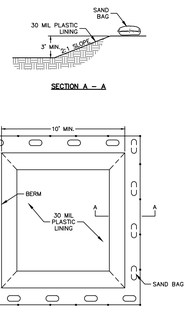
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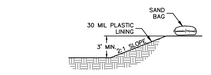


PLAN

NOTES:
1) LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
2) PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 30 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

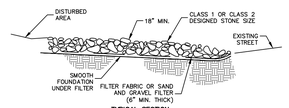
CONCRETE WASH-OUT AREA

NOT TO SCALE



SECTION A – A

NOTES:
1.) ALL DISTURBED AREAS SHALL RECEIVE 4 INCHES OF TOP SOIL AND RE-VEGETATED PER SECTION 169.06 OF THE UDC. VEGETATION MUST BE ESTABLISHED TO MINIMIZE EROSION PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
2.) WHEN SILT FENCE IS NOT PLACED AT A CONSTANT ELEVATION FOLLOWING CONTOURS ON STEEP SLOPES, THE "J" HOOP METHOD SHOULD BE USED (AT 50 FT INTERVALS) TO CREATE PONDING AND PREVENT EROSION OF THE TRENCH BACKFILL OF SILT FENCE INSTALLATION.
3.) ALL GRADED AND OTHERWISE DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS IMMEDIATELY AFTER GRADING OR DISTURBANCE HAS CEASED.
4.) PERMANENT IMPROVEMENTS SUCH AS STREETS, STORM SEWERS, CURB AND GUTTERS, AND OTHER FEATURES FOR CONTROL OF RUNOFF SHALL BE SCHEDULED COINCIDENTAL TO REMOVING VEGETATIVE COVER FROM THE AREA SO THAT LARGE AREAS ARE NOT LEFT EXPOSED BEYOND THE CAPACITY OF TEMPORARY CONTROL MEASURES.
5.) TOP SOIL OR OTHER SOIL IS TO BE STOCKPILED FOR MORE THAN 30 DAYS, A TEMPORARY COVER OF ANNUAL RYE OR OTHER SUITABLE GRASS SHALL BE PLANTED.
6.) RE-VEGETATION. RE-VEGETATION SHALL BE REQUIRED TO MEET THE FOLLOWING PERFORMANCE STANDARDS (SEDIMENT CONTROLS SHALL REMAIN IN PLACE UNTIL RE-VEGETATION IS ESTABLISHED) UNLESS OTHERWISE ALLOWED BY THE CITY ENGINEER:
   - TOPSOIL. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE REQUIRED TO BE EITHER EXISTING OR INSTALLED IN AREAS TO BE REVEGETATED AS SET FORTH IN§169.06(J)(6) BELOW. ANY APPLICATION OF TOPSOIL AND SEEDING UNDER THE DRIP LINE OF A TREE SHOULD BE MINIMIZED TO 3 INCHES SO AS NOT TO DAMAGE THE TREES ROOT SYSTEM.
   - ZERO TO 10% GRADE: RE-VEGETATION SHALL BE A MINIMUM OF SEEDING AND MULCHING. SAID SEEDING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE THAT MINIMIZES EROSION AND RUNOFF.
   - 10:1 UP TO 4:1 GRADE: RE-VEGETATION SHALL BE A MINIMUM OF HYDRO-SEEDING WITH MULCH AND FERTILIZER, SOD, OR GROUNDCOVER. SAID PLANTING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE THAT MINIMIZES EROSION AND RUNOFF.
   - 4:1 TO 3:1 GRADE: THE SLOPE SHALL BE COVERED WITH LANDSCAPE FABRIC AND HYDRO-SEEDED WITH MULCH AND FERTILIZER, OR STAKED SOD, OR GROUNDCOVER. SAID PLANTING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE THAT MINIMIZES EROSION AND RUNOFF.
   - MORE THAN 3:1 GRADE: ANY FINISH GRADE OVER 3:1 SHALL BE STABILIZED WITH ONE OR MORE OF THE FOLLOWING: RETAINING WALLS; CRIBBING WITH LANDSCAPE FABRIC; TERRACING WITH GROUNDCOVER; RIPRAP; STAKED SOD (UP TO 2:1 SLOPE)
     - IF CRIBBING, TERRACING, OR RIPRAP IS USED, THE SLOPE'S STABILITY AND ERODIBILITY MUST BE EQUIVALENT TO OR BETTER THAN ITS PREDEVELOPMENT STATE.
7.) PERMANENT EROSION CONTROL. THE DEVELOPER SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES AT THE EARLIEST PRACTICAL TIME. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE UNFORESEEN DURING THE DESIGN STAGE, THAT ARE NEEDED PRIOR TO INSTALLATION OF PERMANENT EROSION CONTROL FEATURES, OR THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PROJECTS, BUT ARE NOT ASSOCIATED WITH PERMANENT CONTROL FEATURES ON THE PROJECT.
8.) DUST. WHERE EXCESSIVE DUST MAY BECOME A PROBLEM, A PLAN FOR SPRAYING WATER ON HEAVILY TRAVELED DIRT AREAS SHALL BE ADDRESSED.
9.) CONSTRUCTION EXITS. A STABILIZED ROCK EXIT IS REQUIRED ON CONSTRUCTION SITES. ROCK EXITS MUST BE AT LEAST 20' WIDE BY 50' LONG BY 6" THICK STABILIZED ROCK HAVING A MINIMUM AVERAGE DIAMETER OF 3". IF THERE IS AN EXISTING CURB, LOOSE MATERIAL SUCH AS FILL DIRT OR GRAVEL SHALL NOT BE USED TO RAMP UP TO IT FROM THE STREET. TEMPORARY WOODEN RAMPS IN FRONT OF CURBS ARE ACCEPTABLE.
10.) DEBRIS, MUD, AND SOIL IN PUBLIC STREETS. DEBRIS, MUD AND SOIL SHALL NOT BE ALLOWED ON PUBLIC STREETS BUT IF ANY DEBRIS, MUD, OR SOIL FROM DEVELOPMENT SITES REACHES THE PUBLIC STREET IT SHALL BE IMMEDIATELY REMOVED VIA SWEEPING OR OTHER METHODS OF PHYSICAL REMOVAL. DEBRIS, MUD, OR SOIL IN THE STREET MAY NOT BE WASHED OFF THE STREET OR WASHED INTO THE STORM DRAINAGE SYSTEM. STORM DRAINAGE SYSTEMS DOWNSTREAM OF A DEVELOPMENT SITE SHOULD BE PROTECTED FROM DEBRIS, MUD, OR SOIL IN THE EVENT THAT DEBRIS, MUD, OR SOIL REACHES THE DRAINAGE SYSTEM.
11.) FRANCHISE AND PRIVATE UTILITIES. THE PROPERTY OWNER OR MAIN CONTRACTOR ONSITE WILL BE RESPONSIBLE FOR RESTORING ALL EROSION AND SEDIMENT CONTROL SYSTEMS AND PUBLIC INFRASTRUCTURE DAMAGED OR DISTURBED BY UNDERGROUND PRIVATE OR FRANCHISE UTILITY CONSTRUCTION SUCH AS WATER AND SEWER SERVICE LEADS, TELEPHONE, GAS, CABLE, ETC. EROSION AND SEDIMENT CONTROL SYSTEMS MUST BE IMMEDIATELY RESTORED AFTER EACH UTILITY CONSTRUCTION.



TYPICAL SECTION

NOTES:
1) MINIMUM THICKNESS SHALL BE 18". THE STONE DIAMETER, NEVER LESS THAN 6".
2) MINIMUM LENGTH SHALL BE 50'

MUD ABATEMENT ENTRANCE

NOT TO SCALE

NOTE:

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WITHIN 40 DAYS OF PLACEMENT OF CURBS, THEY SHALL BE BACKFILLED, FINE GRADED WITH A MINIMUM OF 4-INCHES OF TOPSOIL, AND HYDROMULCHED OR SODDED WITH PERMANENT GRASSES.

ALL DISTURBED AREAS, THAT ARE NOT PAVED, SHALL BE TOPSOILED, SEEDED AND STRAWED UNTIL GRASS IS ESTABLISHED.

CONSTRUCTION SEQUENCE:

1.) INSTALL EROSION CONTROL.
2.) STRIP EXISTING TOP SOIL.
3.) PREPARE SUB-GRADE AND BASE MATERIAL.
4.) POUR CONCRETE AND ASPHALT.
5.) FINAL GRADING AND ESTABLISH VEGETATION.

LEGEND

- PROPOSED FLOWLINE DIRECTION
- INLET PROTECTION
- ROCK CHECK DAM
- WIRED REINFORCED BURIED EDGE SILT FENCE
- MUD ABATEMENT ENTRANCE
- 1390 EXISTING CONTOURS
- 1388 PROPOSED CONTOURS
- AREA OF SOIL DISTURBANCE
- WATTLE

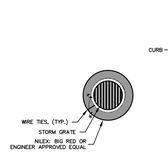
NOTES:

1) NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE.
2) SEED AND MULCH SHALL BE PLACED (BY OWNER) IN ALL AREAS WHERE VEGETATION IS DISTURBED.
3) STRAW AND WOOD CHIPS SHALL BE PLACED TO PROVIDE TEMPORARY PROTECTION WHILE FINAL GRADING IS BEING COMPLETED.
4) PLACE BIG RED FILTER ON ALL CURB INLETS.

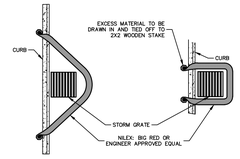
*SILT FENCE IS USED AS AN ENERGY DISSIPATION DEVICE

*SILT FENCE IS USED TO CONTROL POLLUTANTS DURING STORM WATER DISCHARGE

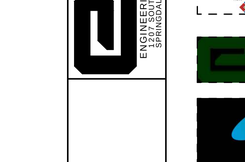
*SILT FENCE MUST BE MAINTAINED UNTIL SITE IS PERMANENTLY STABILIZED



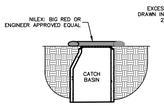
DRAIN INLET PLAN



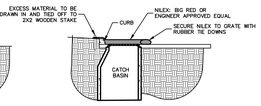
CURBSIDE OPTION "A" PLAN



CURBSIDE OPTION "B" PLAN



DRAIN INLET SECTION



CURBSIDE SECTION

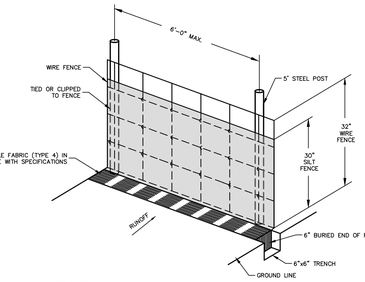
NOTES:
1) ALL MATERIAL TO MEET SPECIFICATIONS.
2) NILEX-BIG RED TO MEET APPLICATION REQUIREMENTS.
3) COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

INLET PROTECTION

NOT TO SCALE

Maximum Slope Length for Silt Fence		
Slope – Percent	Maximum Slope Length (ft) Above Fence	
	Standard (18" High) Silt Fence	Reinforced (30" High) Silt Fence
2 (or less)	150	250
5	100	250
10	50	150
15	35	100
20	25	70
25	20	55
30	15	45
35	15	40
40	15	35
45	10	30
50	10	25

NOTES:
1. THE SLOPE LENGTH SHOWN IS THE DISTANCE FROM THE FENCE TO THE DRAINAGE DIVIDE OR THE NEAREST UPSLOPE CHANNEL.
2. SLOPE LENGTH CANNOT BE ADDRESSED BY USE OF MULTIPLE ROWS OF SILT FENCE.



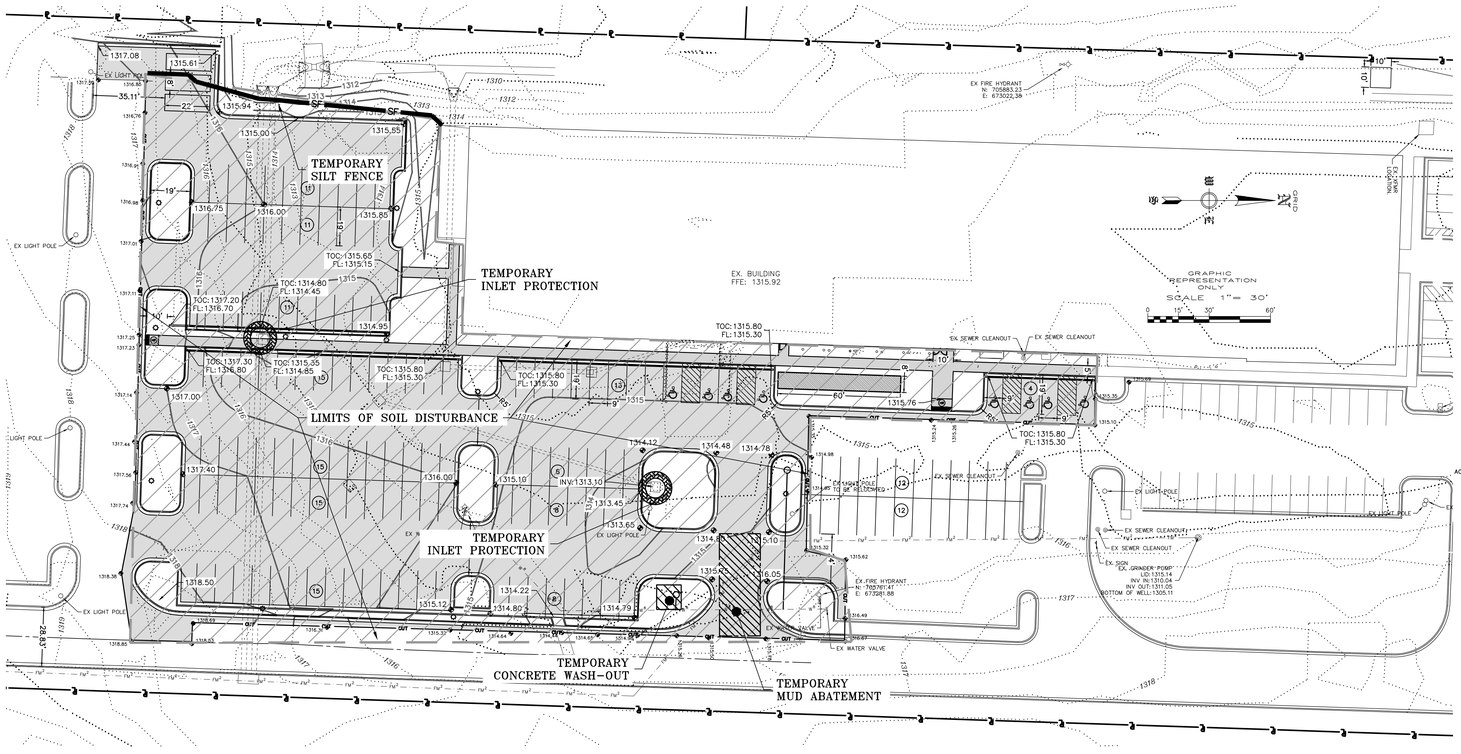
SILT FENCE NOTES

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (ASPHAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

WIRED REINFORCED BURIED EDGE SILT FENCE

NOT TO SCALE

TOTAL DISTURBED AREA: 1.66 ACRES



NOTE:

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issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

ESI
ENGINEERING SERVICES INC.
2121 SENTINEL DR. MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

HP ENGINEERING
IMEG
wachter

STORM WATER POLLUTION PREVENTION PLAN
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

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SCALE: 1"=30'
DATE: Sep 25, 2026
DESIGNER: RJM
DRAWN BY: NAB
W.O. #: 26913

11

WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

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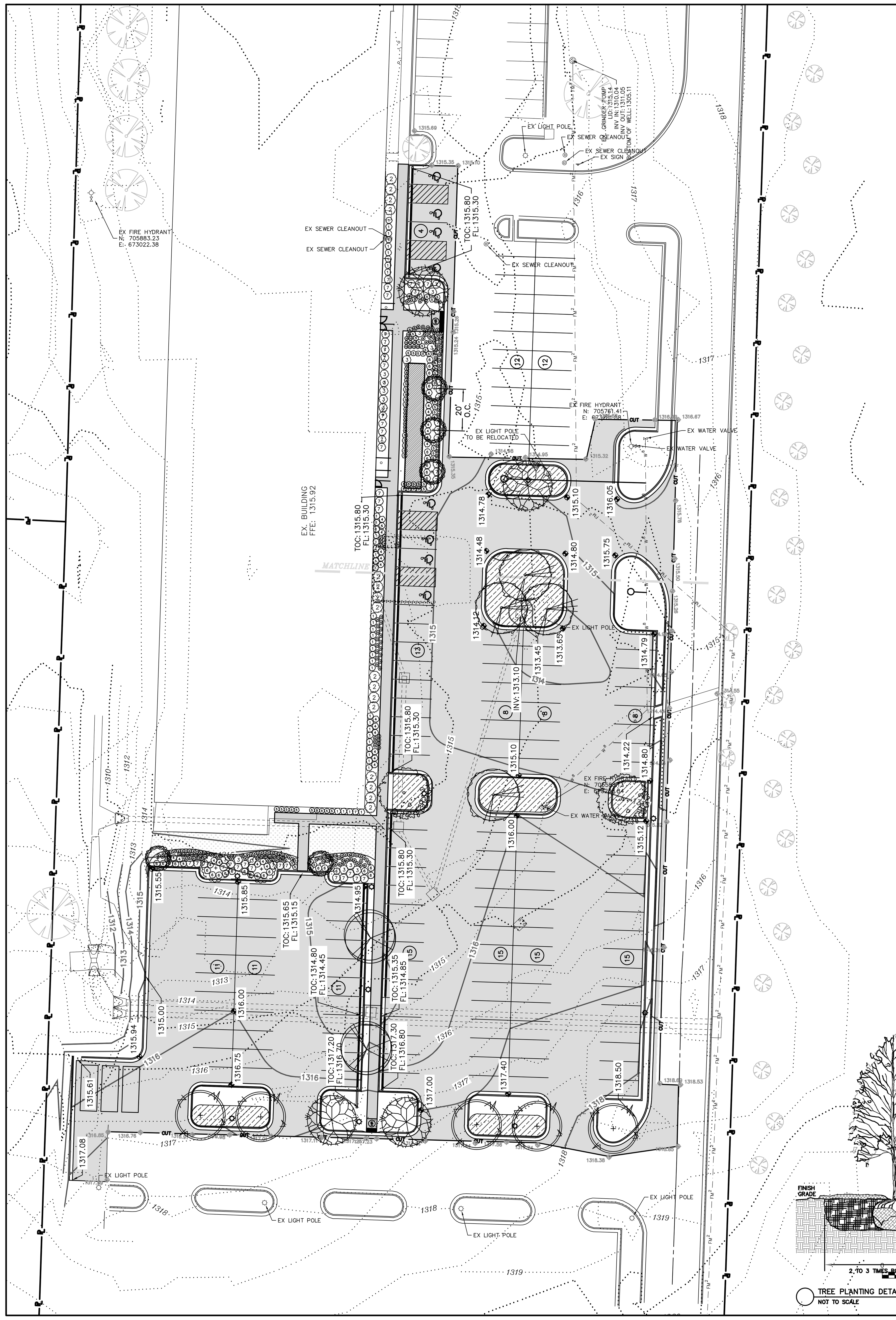
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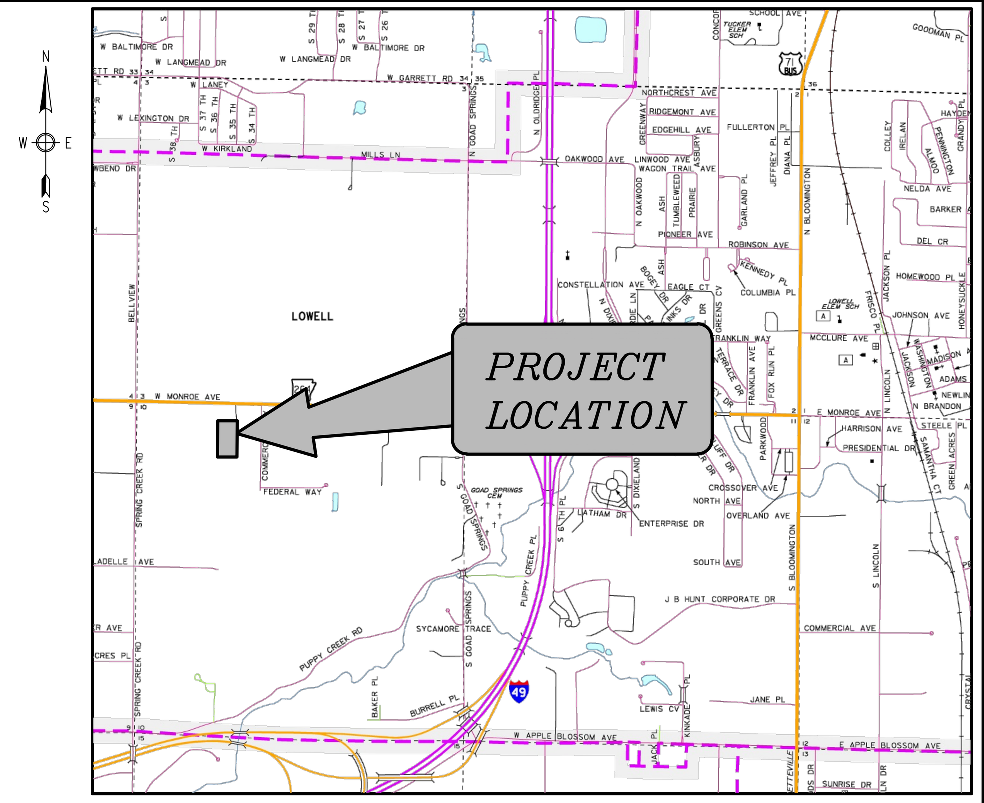


TREE SYMBOL	COMMON NAME	BOTANICAL NAME	TOTAL # TREES	SIZE	MATURE HEIGHT
	Redpointe Maple	Acer rubrum 'Frank Jr. PP16769'	4	2.5" Cal B & B	60–70'
	Northern Red Oak	Quercus rubra	2	2.5" Cal B & B	60–80'
	Eastern Redbud	Cercis canadensis	2	2.5" Cal B & B	30–60'
	Princeton American Elm	Ulmus americana 'Princeton'	5	2.5" Cal B & B	40–70'
	'Afterburner' Tupelo	Nyssa sylvatica	4	2.5" Cal B & B	40–60'
	Downy Seviceberry	Amelanchier arborea	5	2" Cal B & B	15'–20'
	Little Gem Magnolia	Magnolia grandiflora	2	2" Cal B & B	15'–20'

INDEX OF TREES

SYMBOL	COMMON NAME	BOTANICAL NAME	TOTAL # PLANTS	SIZE
1	Soft Touch Holly	Ilex crenata 'Soft Touch'	41	3 GAL.
2	Dwarf Burford Holly	Ilex cornuta 'Burfordii'	16	5 GAL.
3	Dwarf Fothergilla	Fothergilla gardenii	17	3 GAL.
4	Little Quick Fire Hydrangea	Hydrangea paniculata	30	3 GAL.
5	Karley Rose Fountain Grass	Pennisetum orientale 'Karley Rose'	66	3 GAL.
6	Shenandoah Switch Grass	Calamagrostis x acutiflora	31	3 GAL.
7	Adagio Maiden Grass	Miscanthus sinensis 'Adagio'	45	3 GAL.
8	Purple coneflower	Echinachea purpurea	74	1 GAL.
9	Moonbeam Coreopsis	Coreopsos verticillata	57	1 GAL.
10	Mixed color Salvia	Salvia greggii	64	1 GAL.

INDEX OF SHRUBS



VICINITY MAP

OWNER/DEVELOPER : BWB PROPERTIES LLC, 16001 W 99TH STREET, LENEXA, KS 66219–1293

ENGINEER/SURVEYOR : ENGINEERING SERVICES, INC., 1207 S. OLD MISSOURI RD., P.O. BOX 282, SPRINGDALE, AR 72762

ZONING : C–2 (COMMERCIAL)

NET /GROSS AREA: 14.17 ACRES

PROPOSED BUILDING SIZE: NO NEW BUILDINGS PROPOSED

PARKING SPACES PROPOSED: 41 PARKING SPOTS. NO ADA PROPOSED, ALL ADA SPACES WERE PROVIDED WITH THE FIRST TWO PHASES.

LANDSCAPE INTERIOR REQUIREMENTS:

TOTAL PARKING AREA PROVIDED: 38,817 SQ. FT.
TOTAL INTERIOR LANDSCAPE REQUIRED: 3,105 SQ. FT. (8%)
TOTAL INTERIOR LANDSCAPE PROVIDED: 3,531 SQ. FT. (9%)

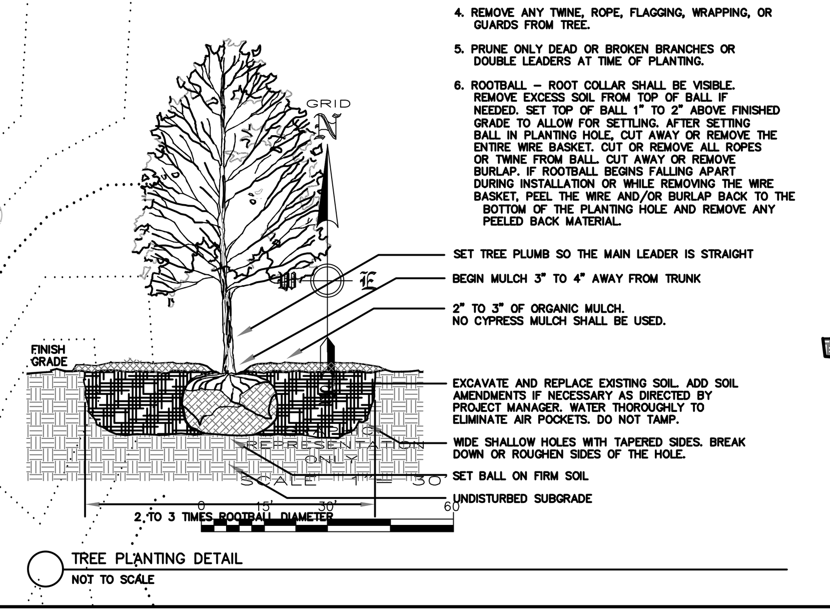
TOTAL PARKING SPACES PROVIDED : 148
1 TREE PER 15 PARKING SPACES REQUIRED:
TOTAL INTERIOR LANDSCAPE TREES REQUIRED: 10
TOTAL INTERIOR LANDSCAPE TREES PROVIDED: 10

LANDSCAPE NOTES:

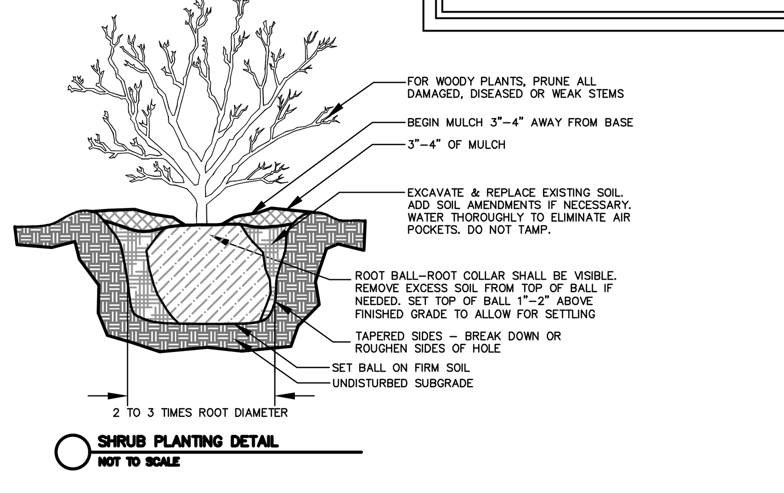
1. NO CHANGES SHALL BE MADE TO THE APPROVED PLANS WITHOUT THE WRITTEN APPROVAL BY THE CITY OF LOWELL
2. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER CONSTRUCTION.
3. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT OR QUANTITY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
4. ALL PLANTING BEDS SHALL RECEIVE 6" OF TOPSOIL AMENDED TO ENHANCE FAVORABLE GROWING CONDITIONS, SOIL MIX SHALL BE TILLED INTO BED AREA TO A MINIMUM DEPTH OF 12" AND BE FREE OF ROCKS/WEEDS/DEBRIS PRIOR TO INSTALLATION OF PLANT MATERIAL
5. ALL PLANTING BEDS SHALL RECEIVE 3–4" ORGANIC MULCH AT TIME OF INSTALLATION. MULCH SHALL NOT BE PLACED IMMEDIATELY ADJACENT TO TRUNK, AND SHALL BE KEPT AT LEAST 3" FROM ROOT COLLAR AT THE SOIL LINE. ALL TREES NOT LOCATED IN PLANTING BEDS SHALL RECEIVE MULCH PER PLANTING DETAIL.
6. SHADE TREES SHALL HAVE A MIN. CALIPER OF 2.5" AND A HEIGHT OF 8'
7. EVERGREEN TREE MATERIALS SHALL BE A MIN HEIGHT OF 8'
8. REMOVE ALL TAGS, NURSERY FLAGGING, GUARDS, OR ROPE FROM TREES AND PLANT MATERIAL DURING INSTALLATION.
9. ALL PLANT SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
10. ONCE INSTALLED LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY LIVING CONDITION, AND IF PLANT MATERIAL DIES IT SHALL BE REPLACED WITHIN THE NEXT APPROPRIATE GROWING SEASON.
11. IF CONFLICTS WITH PROPOSED LIGHTS, FIRE HYDRANTS, OR OTHER SITE FEATURES EXIST, TREES OR SHRUBS SHALL BE MOVED AND SHALL NOT INTERFERE WITH PROPOSED FEATURES.
12. ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITY TO BE SODDED, HYDROSEEDED, OR REVEGETATED WITH BERMUDA MIX WHICH IS CERTIFIED FREE FROM WEED SEEDS.
13. LANDSCAPING SHALL BE GUARANTEED FOR A PERIOD OF 2 YEARS FROM DATE OF TOTAL ACCEPTANCE BY OWNER.
14. ALL PLANT MATERIALS SHALL BE WARRANTED FOR A PERIOD OF 24 MONTHS FROM TIME OF INSTALLATION. IF ANY PLANT MATERIAL FAILS TO SURVIVE DURING THE THAT PERIOD, IT SHALL BE REPLACED DURING THE APPROPRIATE PLANTING SEASON.
15. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO; WATERING SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY OWNER.

AUTOMATIC IRRIGATION SYSTEM (DESIGN-BUILD) SHALL BE PROVIDED FOR ALL LANDSCAPE BEDS, LAWN, AND PLANTING AREAS.

NOTES:
1. TREES SHALL BE 2" CALIPER MINIMUM.
2. THE HOLE FOR THE TREE SHALL BE EXCAVATED 2–3 TIMES THE SIZE OF THE ROOT BALL.
3. STAKE ONLY IF NECESSARY AND AS DIRECTED BY THE PROJECT MANAGER.
4. REMOVE ANY TWINE, ROPE, FLAGGING, WRAPPING, OR GUARDS FROM TREE.
5. PRUNE ONLY DEAD OR BROKEN BRANCHES OR DOUBLE LEADERS AT TIME OF PLANTING.
6. ROOTBALL – ROOT COLLAR SHALL BE VISIBLE. REMOVE EXCESS SOIL FROM TOP OF BALL IF NEEDED. SET TOP OF BALL 1" TO 2" ABOVE FINISHED GRADE TO ALLOW FOR SETTLING. AFTER SETTING BALL IN PLANTING HOLE, CUT AWAY OR REMOVE THE ENTIRE WIRE BASKET. CUT OR REMOVE ALL ROPES OR TWINE FROM BALL. CUT AWAY OR REMOVE BURLAP. IF ROOTBALL BEGINS FALLING APART DURING INSTALLATION OR WHILE REMOVING THE WIRE BASKET, PEEL THE WIRE AND/OR BURLAP BACK TO THE BOTTOM OF THE PLANTING HOLE AND REMOVE ANY PEELED BACK MATERIAL.



TREE PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

ENGINEERING SERVICES INC.
1207 SOUTH OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764

REGISTERED LANDSCAPE ARCHITECT
Jonathan Schmitz
License No. 9913
STATE OF ARKANSAS

LANDSCAPING PLAN
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REVISION	DATE	DESCRIPTION

© COPYRIGHT 2026. ENGINEERING SERVICES, INC. 9/25/2026 5:05 PM
Z:\LSD\26913 - WACHTER LOWELL\26913 - LANDSCAPE PLAN.DWG

SCALE: 1"=30'
DATE: Sep 25, 2026
ENGINEER: BJM
DRAWN BY: JLS
W.O. #: 26913

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HP ENGINEERING now IMEG

wachter

WACHTER EXPANSION
1419 W MONROE AVE, LOWELL ARKANSAS

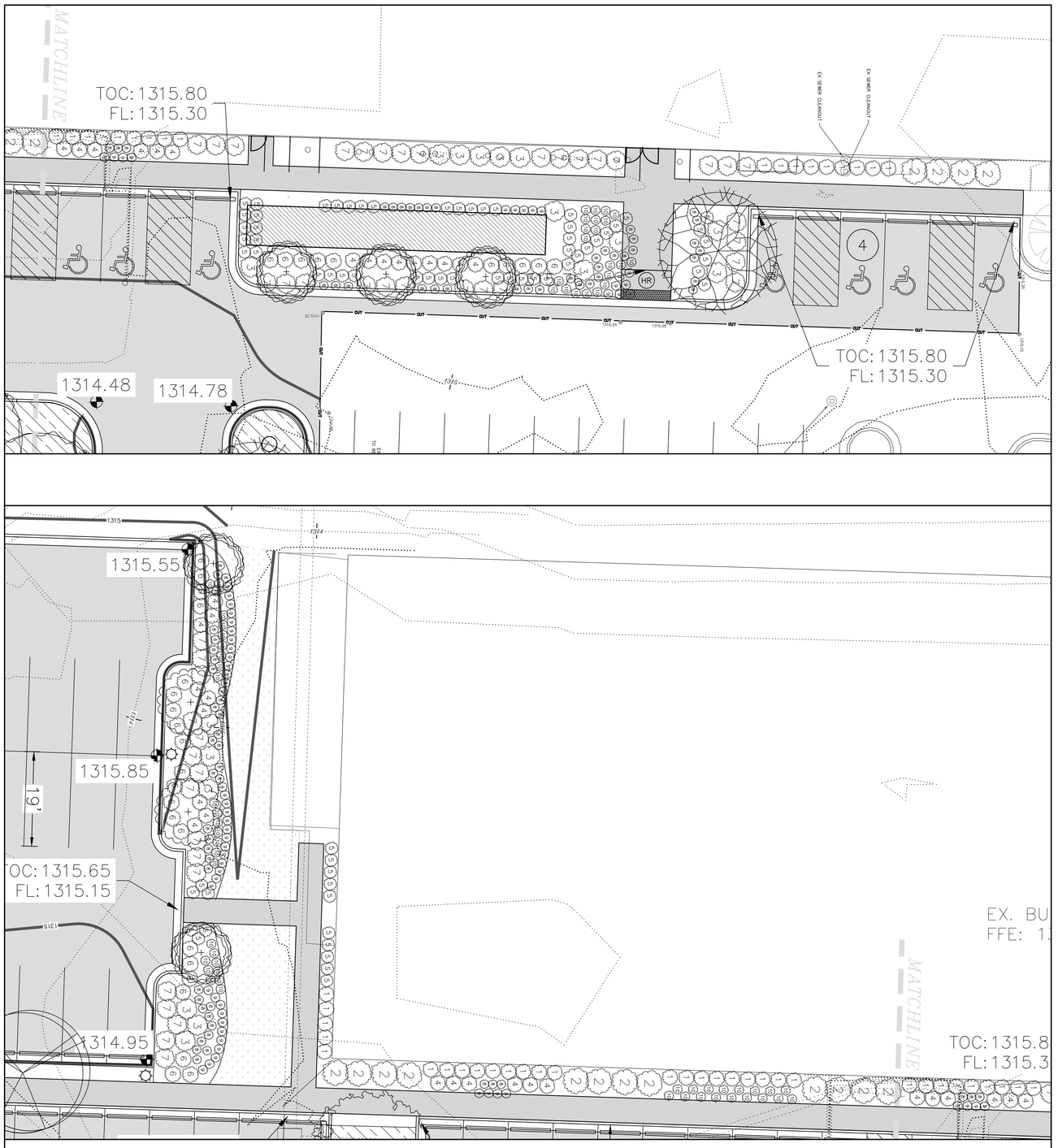
REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION, ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents.
LANDSCAPE PLAN

design. CD
date. 2026.09.11
project. 26913

L12.00

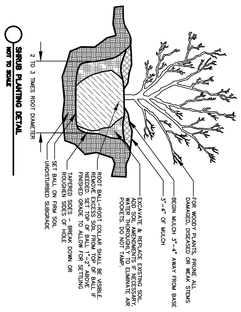


(1)	Soft Touch Holly	Ilex crenata 'Soft Touch'		41	3 GAL.
(2)	Dwarf Burford Holly	Ilex cornuta 'Burfordii'		16	5 GAL.
(3)	Dwarf Fothergilla	Fothergilla gardenii		17	3 GAL.
(4)	Little Quick Fire Hydrangea	Hydrangea paniculata		30	3 GAL.
(5)	Korley Rose Fountain Grass	Pennisetum orientale 'Korley Rose'		66	3 GAL.
(6)	Shenandoah Switch Grass	Calamagrostis x acutiflora		31	3 GAL.
(7)	Adagio Maiden Grass	Miscanthus sinensis 'Adagio'		45	3 GAL.
(8)	Purple coneflower	Echinacea purpurea		74	1 GAL.
(9)	Moonbeam Coreopsis	Coreopsis verticillata		57	1 GAL.
(10)	Mixed color Salvia	Salvia greggii		64	1 GAL.

GRID N
SCALE: 1" = 10'
REPRESENTATIVE PLOT
0 5' 10' 20'

LANDSCAPE NOTES:

1. NO CHANGES SHALL BE MADE TO THE APPROVED PLANS WITHOUT THE WRITTEN APPROVAL BY THE CITY OF LOWELL.
2. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
3. ANY DEVIATIONS FROM THE APPROVED LANDSCAPE PLAN SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT OR QUANTITY DISCREPANCIES PRIOR TO INSTALLATION.
4. ALL PLANTING BEDS SHALL RECEIVE 6" OF TOPSOIL AMENDED TO ENHANCE FAVORABLE GROWING CONDITIONS. SOIL MIX SHALL BE TILLED INTO BED AREA TO A MINIMUM DEPTH OF 12" AND BE FREE OF ROCKS/WEEDS/DEBRIS.
5. ALL PLANTING BEDS SHALL RECEIVE 3-4" ORGANIC MULCH AT TIME OF INSTALLATION. MULCH SHALL NOT BE PLACED IMMEDIATELY ADJACENT TO TRUNK, AND SHALL BE KEPT AT LEAST 3" FROM ROOT COLLAR AT THE SOIL SURFACE. MULCH SHALL BE REPLENISHED AS NEEDED TO MAINTAIN DEPTH.
6. SHADE TREES SHALL HAVE A MIN. CALIPER OF 2.5" AND A HEIGHT OF 8'.
7. EVERGREEN TREE MATERIALS SHALL BE A MIN. HEIGHT OF 6'.
8. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
9. INSTALLATION SHALL BE PERFORMED BY PERSONNEL EXPERIENCED IN PLANTING OPERATIONS.
10. ONCE INSTALLED, LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY, LIVING CONDITION, AND IF PLANT MATERIAL DIES, IT SHALL BE REPLACED WITHIN 30 DAYS OF NOTIFICATION.
11. IF CONFLICTS WITH PROPOSED LIGHTS, FIRE HYDRANTS, OR OTHER SITE FEATURES EXIST, TREES OR SHRUBS SHALL BE MOVED AND SHALL NOT INTERFERE WITH PROPOSED FEATURES.
12. BERMUDA MIX WHICH IS CERTIFIED FREE FROM WEED SEEDS.
13. ALL PLANT MATERIALS SHALL BE WARRANTED FOR A PERIOD OF 24 MONTHS FROM TIME OF INSTALLATION. IF ANY PLANT MATERIAL FAILS TO SURVIVE DURING THE THAT PERIOD, IT SHALL BE REPLACED DURING THE APPROPRIATE PLANTING SEASON.
14. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO WATERING, MOWING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY OWNER.



LANDSCAPE DETAILS
WACHTER EXPANSION
1419 W MONROE AVE
LOWELL, ARKANSAS

REGISTERED LANDSCAPE ARCHITECT — Jonathan Schmitz — Licensed No. 0913 — STATE OF ARKANSAS

ENGINEERING SERVICES INC.
1207 SOUTH OLD MISSOURI RD
SPRINGDALE, ARKANSAS 72764

REVISION	DATE	DESCRIPTION

SCALE: 1"=10'
DATE: Sep 25, 2026
drawn by: AM
checked by: AM
W.O. # 26913

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Z:\LDD\2026\13 Wachter (Lowell)\26913 Landscape Plan.dwg

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issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:

WACHTER EXPANSION

1419 W MONROE AVE, LOWELL ARKANSAS

HP ENGINEERING IMEG

wachter

PLEASE REFER TO CONSTRUCTION PHASED GENERAL NOTES RELATIVE TO THE SCOPE OF WORK CONTAINED IN THESE CONSTRUCTION DOCUMENTS. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS, (INCLUDING SHEETS, ETC.) AS APPROVED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents: LANDSCAPE DETAILS
design: CD
date: 2026.09.11
project: 26913

L13.00

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH 2021 ARKANSAS FIRE PREVENTION CODE AND SUBSEQUENT REFERENCE STANDARDS.
2. RISK CATEGORY: II
3. SUPERIMPOSED DEAD LOADS:

ROOF	TYPICAL	20 PSF
FLOOR	TYPICAL	50 PSF
	MEP ROOMS	100 PSF

4. LIVE LOADS: LIVE LOAD REDUCTION USED AS ALLOWED PER CODE

ROOF	TYPICAL	20 PSF (EXISTING)
FLOOR	TYPICAL	50 PSF
	CORRIDORS, STAIRS & PUBLIC AREAS	100 PSF
	PARTITION LOAD	15 PSF
	MEP ROOMS (SEE MECHANICAL UNITS NOTE BELOW.)	50 PSF
	ELEVATOR MACHINE ROOM	125 PSF
	OFFICE	50 PSF
OTHER	HANDRAILS	MAX OF 50 PLF HORIZ PLUS 50 PLF VERT OR 200 LBS IN ANY DIRECTION, APPLIED AT TOP OF RAILING

5. MECHANICAL UNITS: THE CONTRACTOR SHALL CONFIRM THE ACTUAL MECHANICAL UNITS PURCHASED ARE OF WEIGHT AND SIZE SUCH THAT:
   1. THE UNIT WEIGHT IS LESS THAN OR EQUAL TO WEIGHT LISTED ON PLAN.
   2. THE UNIT LENGTH IS LESS THAN 15 FEET. IF UNIT LENGTH IS GREATER THAN 15 FEET, SNOW DRIFT ON ROOF SHALL BE ACCOUNTED FOR.
   3. THE TOTAL SUPERIMPOSED LOAD UNDER EACH UNIT DOES NOT EXCEED THE LIVE LOAD FOR WHICH THE FLOOR WAS DESIGNED IN THE FLOOR AREA WHERE THE UNIT IS LOCATED AS INDICATED BY THE EQUATION BELOW:

TOTAL SUPERIMPOSED LOAD UNDER UNIT =	TOTAL EQUIPMENT WEIGHT / UNIT FOOTPRINT AREA =	INDICATED SERVICE LEVEL DESIGN LIVE LOAD
TOTAL EQUIPMENT WEIGHT =	OPERATING WEIGHT OF UNIT + CONCRETE HOUSEKEEPING PAD + INERTIA BLOCK + OTHER ANCILLARY ITEMS ASSOCIATED WITH THE EQUIPMENT	
UNIT FOOTPRINT AREA =	EFFECTIVE AREA OF UNIT OR HOUSEKEEPING PAD, WHICHEVER IS LARGER	
EFFECTIVE AREA =	(LENGTH + 6 FEET) x (WIDTH + 6 FEET)	

CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION ON THE LOCATION OF ANY MECHANICAL UNITS WHERE THE SUPERIMPOSED LOAD UNDER THE UNIT EXCEEDS THE INDICATED DESIGN SIZE AND LOAD FOR THE ROOF AND/OR LIVE LOAD FOR THE FLOOR AS INDICATED ON THE PLAN.

6. SNOW:

GROUND SNOW	15 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
SLOPE FACTOR(S)	1.0
IMPORTANCE FACTOR	1.0
FLAT-ROOF SNOW	10.5 PSF
RAIN-ON-SNOW SURCHARGE	5 PSF

7. SEISMIC:

SEISMIC DESIGN CATEGORY	C
IMPORTANCE FACTOR	1.0
SITE CLASS	D (DEFAULT)
S_s	0.159 g
S_1	0.091 g
S_{DS}	0.169 g
S_{D1}	0.146 g
SEISMIC FORCE RESISTING SYSTEM	COMBINATION ORDINARY STEEL MOMENT FRAMES AND ORDINARY REINFORCED REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT, R	3.0
C_d	3.0
Omega o	3.0
Rho	3.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT, CS	0.068
DESIGN BASE SHEAR (STRENGTH LEVEL)	42.58 KIPS

8. WIND:

BASIC WIND SPEED	V_{ULT} = 107 MPH V_{ASD} = 83 MPH		
EXPOSURE CLASS	C		
INTERNAL PRESSURE COEFFICIENT, GCpi	±0.18		
COMPONENTS & CLADDING:			
ROOF COMPONENTS	ZONE 1	ZONE 2	ZONE 3
SUPPORT BEAMS (A>100 SF)	-31.9 PSF	-42.4 PSF	-50.5 PSF
ROOF SHEATHING (A= 50 SF)	-34.6 PSF	-45.9 PSF	-57.4 PSF
DECK FASTENERS (A= 10 SF)	-40.9 PSF	-53.9 PSF	-73.5 PSF
WALL COMPONENTS	ZONE 4	ZONE 5	
A=200 SF	-21.0 PSF	-22.3 PSF	
A=50 SF	-23.0 PSF	-26.5 PSF	
A=20 SF	-24.4 PSF	-22.3 PSF	

C & C NOTES:
   1. THE PRESSURES LISTED ARE IN ACCORDANCEIBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
   2. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
   3. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES. 'a' = 9 FT.
   4. SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT'S JURISDICTION FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.

9. RAIN:

RAIN INTENSITY, i	6.45 IN/HR (15 MINUTE INTENSITY RATE) 3.36 IN/HR (60 MINUTE INTENSITY RATE)

10. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY STEEL ORDINARY MOMENT FRAMES IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE STEEL DECK SERVES AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYING, ETC. SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
3. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
5. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN CRITERIA.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ENGINEER.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF / FLOOR OPENINGS, TOP OF WALL ELEVATIONS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR THESE NON-STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS, THEY ARE FOR GENERAL INFORMATION ONLY.
11. COORDINATE FLOOR FINISH INCLUDING, BUT NOT LIMITED TO THE "FLATNESS" AND "LEVELNESS" REQUIREMENTS, WITH THE FLOOR FINISH CONTRACTOR. PROVIDE UNDERLAYMENT / TOPPING WHERE REQUIRED TO PROVIDE A SURFACE ACCEPTABLE FOR INSTALLATION OF FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
13. THE EXACT WEIGHTS, DIMENSIONS, AND LOCATIONS OF ALL MECHANICAL UNITS AND ELECTRICAL GEAR SUPPORTED ON STRUCTURAL FRAMING SHALL BE DETERMINED AND COORDINATED BY THE CONTRACTOR PRIOR TO DETAILING THE STRUCTURAL FRAMING SUPPORTING THOSE UNITS. IF THE UNIT WEIGHTS ARE GREATER THAN THE WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO DETAILING THE STRUCTURE. UNIT WEIGHTS, DIMENSIONS, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR DETAILING THE STRUCTURE.
14. PROVIDE TEMPORARY BLOCKOUTS AND TEMPORARY OPENINGS IN THE STRUCTURE AS REQUIRED TO PERMIT INSTALLATION OF ALL WORK. BLOCKOUTS AND TEMPORARY OPENINGS SHALL BE LOCATED, CONFIGURED, DETAILED, AND INFILLED IN A MANNER THAT ALTERS NEITHER THE STRENGTH OF THE STRUCTURAL FRAMING NOR THE STRENGTH OF CONNECTIONS. INFILL ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE INFILLED.
15. PENETRATIONS IN CONCRETE SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.
16. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.
17. ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS. THE STRUCTURAL FRAMING WAS DESIGNED TO LIMIT DRIFT AND DEFLECTION OF THE STRUCTURAL SYSTEM TO LESS THAN THE MAXIMUM PERMITTED DEFLECTIONS LISTED IN THE BUILDING CODE. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES TO ACCOMMODATE THESE DEFLECTIONS AND TO ACCOMMODATE CONSTRUCTION TOLERANCES.
18. FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AS SPECIFIED BY THE ARCHITECTURAL DRAWINGS. UL FIRE RESISTANCE RATING RESTRAINT CLASSIFICATION AS FOLLOWS:
    1. "PRIMARY STRUCTURAL FRAME", AS DEFINED BY IBC SECTION 202 IS "RESTRAINED" EXCEPT AS INDICATED IN FOLLOWING NOTE.
    2. THE FOLLOWING FRAMING IS "UNRESTRAINED":
       i. FRAMING SUPPORTED BY BEARING WALLS, OTHER THAN CAST-IN-PLACE CONCRETE WALLS, IN END BAYS AND OTHER LOCATIONS WHERE THE END OF THE FRAMING IS NOT ABUTTING FRAMING IN AN ADJACENT BAY.
       ii. STEEL JOISTS IN END BAYS ON ROOFS SUPPORTING STEEL DECK.

DELEGATED DESIGN

1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
2. DELEGATED DESIGNS ARE:
   1. STEEL JOISTS
   2. CURTAIN WALL AND STOREFRONT SYSTEMS
   3. COLD FORMED STEEL FRAMING AND CONNECTIONS
   4. ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
   5. STAIRS, ACCESS LADDERS, HANDRAILS, GUARDRAILS, AND GRATING
3. ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.
4. STAIRS:
   1. STEEL STAIRS IN STEEL FRAMED STRUCTURES SHALL BE CONFIGURED SO THE STAIR STRINGERS CONNECT TO THE WEBS OF SUPPORTING STRUCTURAL STEEL FLOOR FRAMING MEMBERS. STAIR STRINGERS MAY NOT CONNECT TO SLABS ON DECK. STAIR STRINGER AND HANGER CONNECTIONS SHALL BE CONFIGURED SO THEY CONNECT TO THE SUPPORTING STRUCTURAL STEEL IN A MANNER THAT IMPOSES NO TORSION UPON THE SUPPORTING STRUCTURAL MEMBER. WHERE STAIR HANGERS MUST FRAME ECCENTRIC TO THE SUPPORTING STEEL, SUPPLEMENTAL FRAMING SHALL BE PROVIDED AS INDICATED ON THE CONTRACT DOCUMENTS TO PREVENT TORSION ON THE SUPPORTING STEEL FRAMING.
   2. DESIGN FRAMING MEMBERS IN COMMUNICATING STAIRS AND MONUMENTAL STAIRS TO LIMIT LIVE LOAD DEFLECTION TO THE SMALLER OF L/600 OR 1/4". SIZE STAIR FRAMING MEMBERS TO PROVIDE A STAIR ASSEMBLY WITH A NATURAL FREQUENCY > 5 HERTZ AND PEAK ACCELERATION, ap/g = 0.015, AS COMPUTED PER AISC DESIGN GUIDE 11 EQUATION 2.3 USING INDOOR FOOTBRIDGE CRITERIA.
   3. SEE ARCHITECTURAL DRAWINGS FOR STEEL STAIR DETAILS. DESIGN OF FRAMING MEMBERS AND CONNECTIONS TO BE BY SPECIALTY ENGINEER, WORKING DIRECTLY WITH THE STAIR DETAILER AND FABRICATOR. WHERE SUPPORT POSTS ARE REQUIRED, PROVIDE 3'-0" SQUARE x 1'-0" THICKENED SLAB WITH (4)#5 BOTTOM AT BASE OF STAIR.
5. FACADE:
   1. DESIGN AND DETAILING OF THE FACADE SYSTEM AND CONNECTIONS TO THE STRUCTURE SHALL TAKE INTO CONSIDERATION THE FOLLOWING MOVEMENTS:
      1. ±1/2" VERTICAL DIFFERENTIAL DEFLECTION OF SLAB EDGES ON ADJACENT FLOORS
      2. ±1/2" HORIZONTAL DIFFERENTIAL DEFLECTION BETWEEN ADJACENT FLOORS
      3. DIFFERENTIAL THERMAL EXPANSION / CONTRACTION BETWEEN FACADE SYSTEM AND SUPPORTING PRIMARY STRUCTURAL SYSTEM
      4. THE FACADE SHALL NOT BE INSTALLED UNTIL AFTER THE SUPERSTRUCTURE HAS BEEN PLUMBED, ALL FRAMING CONNECTIONS HAVE BEEN INSTALLED, AND ALL SHORES AND RESHORES HAVE BEEN REMOVED.
      5. WHERE STRUCTURAL STEEL HORIZONTAL GIRTS ARE PROVIDED, THOSE GIRTS MAY BE USED ONLY TO RESIST LATERAL LOADS FROM THE FACADE. VERTICAL LOADS MAY NOT BE IMPOSED BY THE FACADE UPON THE GIRT FRAMING UNLESS THE SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SPECIFICALLY INDICATE THAT FACADE GRAVITY LOAD CONNECTIONS MAY BE MADE TO THE GIRTS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
   1. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS.
      1. DATED 2002 BY CRAFTON, TULL & ASSOCIATES.
      2. DATED 2010 BY MANGOLD BURRIS ARCHITECTURE.
      3. DATED 2014 BY MANGOLD BURRIS ARCHITECTURE.
   2. ADDITIONAL EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM FIELD TAKE-OFF BY MODUS STUDIO AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
   3. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ENGINEER SO CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY TO PREVENT DAMAGE TO EXISTING ELEMENTS WHICH ARE TO REMAIN.
3. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITES THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
5. ALL CONSTRUCTION IS NEW UNLESS IDENTIFIED AS EXISTING, "(E)". THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS UON. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
6. REINFORCING STEEL IN EXISTING CONCRETE SHALL BE LOCATED PRIOR TO INSTALLATION OF NEW OPENINGS OR CORING OF HOLES IN THE CONCRETE. REINFORCING STEEL MAY NOT BE CUT WITHOUT APPROVAL FROM THE ENGINEER.

EARTHWORK

1. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE INFORMATION SHOWN ON THE EXISTING BUILDING DRAWINGS. NO NEW GEOTECHNICAL REPORT HAS BEEN PROVIDED BY THE OWNER FOR THIS PROJECT.
2. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED TO VERIFY THAT THE PRESUMED ALLOWABLE BEARING PRESSURE WILL BE ACHIEVED PRIOR TO CONSTRUCTION. THAT ENGINEER SHALL DEVELOP AND ENSURE IMPLEMENTATION OF A SITE SUBGRADE PREPARATION PROGRAM AS REQUIRED TO ACHIEVE THE PRESUMED SOIL BEARING PRESSURE. FOOTING AND SLAB-ON-GRADE SUBGRADE PREPARATION SHALL BE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
3. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

SHALLOW FOUNDATIONS

1. SHALLOW FOUNDATIONS SHALL HAVE THE FOLLOWING MINIMUM NET ALLOWABLE SERVICE LOAD BEARING PRESSURES:

SERVICE LOAD BEARING PRESSURES:	
NET ALLOWABLE BEARING PRESSURE	2500 PSF PER EXISTING DRAWINGS

2. FOUNDATION ELEVATIONS SHOWN INDICATE LOCATIONS WHERE ADEQUATE SOIL BEARING PRESSURE IS ANTICIPATED.
3. ALL FOUNDATIONS SHALL BEAR BELOW THE FROST DEPTH, OR LOWER WHERE INDICATED ON FOUNDATION PLAN. IN CASE OF CONFLICT, NOTIFY THE DESIGN PROFESSIONALS IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
4. FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL, AND CLEAN AND FREE OF LOOSE DEBRIS AND STANDING WATER AT TIME OF CONCRETE PLACEMENT.
5. NEW FOOTING BEARING ELEVATIONS SHALL MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE OCCURRING UON.
6. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UON.
2. CONCRETE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

REINFORCING STEEL UON	ASTM A615, GR 60	Fy=60 KSI
WELDED REINFORCING STEEL	ASTM A706, GR 60	Fy=60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy=65 KSI
STEEL WIRE	ASTM A1064	Fy=60 KSI
DEFORMED BAR ANCHORS	ASTM A1064	Fy=70 KSI
HEADED DEFORMED BARS	ASTM A970	Fy=DEFORMED BAR TENSILE STRENGTH
MECHANICAL COUPLERS	TYPE 2	Fy=1.25xDEFORMED BAR TENSILE STRENGTH

3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#6 TO #18	2
		#5 AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	#14 & #18	1 1/2
		#11 AND SMALLER	3/4
	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	PRIMARY REINF, STIRRUPS, TIES, SPIRALS, AND HOOPS	1 1/2
OTHER	BOUNDARY ELEMENTS	ALL	1 1/2

4. REINFORCING STEEL SHALL BE INSTALLED TO WITHIN THE FOLLOWING TOLERANCES. INDICATED TOLERANCES ARE PER ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

ITEM FOR WHICH TOLERANCE IS BEING MEASURED	PERMITTED TOLERANCE
CONCRETE COVER FOR SLAB TOP AND BOTTOM BARS	±1/4"
COVER FOR OTHER REINFORCING STEEL	±3/8"
SPECIFIED SPACING BETWEEN PARALLEL BARS IN SLAB	± (SPECIFIED SPACING/4) BUT NOT TO EXCEED 1"
HORIZONTAL DEVIATION FROM SPECIFIED LOCATION UON	±3"
SPACING AND LOCATION OF BEAM STIRRUPS	± (BEAM DEPTH IN INCHES/12) x 1"
LOCATION OF ENDS OF BARS PERPENDICULAR TO SLAB EDGES	±1"

THE ABOVE LIST OF PERMITTED TOLERANCES SHALL BE PROVIDED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT PROVIDE THIS LIST OF TOLERANCES WILL BE REJECTED.

5. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED UON.
6. WELDING OF REINFORCING STEEL OTHER THAN A706 IS PROHIBITED. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH AWS D1.4 OR D1.8.
7. HEADED STUDS AND DEFORMED BAR ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. SUPPORTS AND TIE WIRE FOR COATED REINFORCING SHALL BE PLASTIC PROTECTED. SUPPORTS AND TIE WIRE FOR STAINLESS OR GALVANIZED REINFORCING SHALL BE STAINLESS OR GALVANIZED STEEL PROTECTED RESPECTIVELY. SUPPORTS AND TIE WIRE FOR UNCOATED REINFORCING SHALL BE PLAIN WIRE, NO PROTECTION.
9. ALL WELDED WIRE REINFORCING SHALL BE LAP SPLICED 2 PANELS (1'-0" MIN).
10. SPLICING:
    1. SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPLICES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND AT THOSE LOCATIONS WHERE SPLICES HAVE BEEN DETAILED ON THE REINFORCING STEEL PLACING DRAWINGS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. ALL SPLICES SHALL BE CLASS B TENSION LAP SPLICES UON.
    2. MECHANICAL SPLICE COUPLERS MAY BE USED INSTEAD OF TENSION LAP SPLICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. MECHANICAL SPLICE COUPLERS MUST BE USED WHERE SPLICING #14 AND LARGER BARS, INCLUDING WHERE SPLICING #14 AND LARGER BARS TO #11 AND SMALLER BARS. STAGGER MECHANICAL SPLICES IN ADJACENT BARS 30" MINIMUM.
    3. COMPRESSION LAP SPLICES MAY BE USED ONLY AT THOSE LOCATIONS WHERE SUCH SPLICES ARE SPECIFICALLY INDICATED. STAGGER SPLICES WHERE REQUIRED TO PROVIDE 1 1/2" MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL AT SPLICE LOCATIONS.
11. ALL HOOKS SHALL BE STANDARD HOOKS OR STANDARD STIRRUP HOOKS UON. STANDARD STIRRUP HOOKS SHALL HAVE CONTINUOUS BAR AT INSIDE CORNER OF HOOK.
12. VERTICAL REINFORCING STEEL IN CONCRETE AND MASONRY WALLS WITH ONE LAYER OF REINFORCING BARS SHALL BE INSTALLED IN THE CENTER OF THE WALL UON.
13. WHEN BAR HOOK LENGTHS EXCEED SLAB THICKNESS, TILT HOOKS DURING INSTALLATION. TILTED HOOKS SHALL MAINTAIN THE SPECIFIED MINIMUM CONCRETE COVER.
14. STANDARD STIRRUP HOOKS FOR #3, #4, AND #5 BARS SHALL BE PROVIDED IN SLABS LESS THAN 9" THICK.
15. DOWELS SHALL MATCH GRADE, SIZE, SPACING, AND QUANTITY OF LAPPED REINFORCING STEEL UON. EXTEND ALL DOWELS FOR FULL DEPTH OF SUPPORTING ELEMENT AND PROVIDE HOOKS UON. DOWELS SHALL NOT BE POST-INSTALLED INTO FRESH CONCRETE.
16. HEADED DEFORMED BARS MAY ONLY BE USED ON #11 AND SMALLER BARS. THREADED OR FORGED HEADS CAN BE USED AT THE FABRICATOR'S DISCRETION.
17. FIELD CUTTING OF REINFORCING STEEL IS PROHIBITED UNLESS INDICATED ON THE REINFORCING PLACING DRAWINGS.
18. HEATING OF BARS FOR BENDING IS PROHIBITED.
19. REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315. THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
20. REINFORCING STEEL SPACINGS ARE CENTER-TO-CENTER DIMENSIONS UON. REINFORCING STEEL SHOWN IN SECTION PERPENDICULAR TO THE CUT ARE CONTINUOUS UON.
21. THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
22. A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE UON.
2. CONCRETE MATERIALS SHALL CONFORM TO:

PORTLAND LIMESTONE CEMENT	ASTM C595, TYPE IL
PORTLAND CEMENT	ASTM C150, TYPE I
FLY ASH	ASTM C618, TYPE C OR F
SLAG CEMENT	ASTM C989
FINE AND COARSE AGGREGATE	ASTM C33
LIGHTWEIGHT AGGREGATE	ASTM C330
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494

3. CONCRETE STRENGTHS SHALL CONFORM TO:

COMPONENT	f'c AT 28 DAYS[1] (PSI)	MAX PERMITTED W/C	EXPOSURE CLASS
SHALLOW FOUNDATIONS	3000	0.60	F0, S0, W0, C0
INTERIOR SLAB-ON-GRADE	3000	0.60	F0, S0, W0, C0
LIGHTWEIGHT SLAB ON DECK[2]	3000	0.60	F0, S0, W0, C0
INTERIOR EQUIPMENT PADS	3000	0.60	F0, S0, W0, C0

[1]IF ALTERNATE VALUES ARE INDICATED ON PLANS OR DETAILS FOR SPECIFIC CONDITIONS. THEY SHALL BE USED IN LIEU OF THOSE LISTED IN THE TABLE.

[2]LIGHTWEIGHT CONCRETE SHALL HAVE A 110 PCF DRY UNIT WEIGHT (±3PCF). LIGHTWEIGHT AGGREGATES SHALL BE PRESOAKED AS REQUIRED IN ACCORDANCE WITH ACI 301.

4. AIR ENTRAINMENT:

NOMINAL MAXIMUM AGGREGATE SIZE	REQUIRED AIR CONTENT PER EXPOSURE CATEGORY		
	F0	F1	F2/F3
3/8"	N/A	6%	7.5%
1/2"	N/A	5.5%	7%
3/4"	N/A	5%	6%
1"	N/A	4.5%	6%

   1. CONCRETE SHALL BE AIR ENTRAINED WITH THE APPROPRIATE PERCENTAGE AIR CONTENT LISTED IN THE TABLE ABOVE AS APPLICABLE FOR THE INDICATED EXPOSURE CLASS AND NOMINAL MAXIMUM AGGREGATE SIZE IN THE CONCRETE MIX. THE REQUIRED AIR CONTENT VALUE MAY BE REDUCED BY 1% FOR ALL CONCRETE WITH COMPRESSIVE STRENGTH GREATER THAN 5000 PSI. THE PERMITTED TOLERANCE ON THE REQUIRED AIR CONTENT IS ±1.5%.
   2. ALL LIGHTWEIGHT CONCRETE SHALL HAVE 4-7% AIR ENTRAINMENT.
   3. AIR ENTRAINMENT SHALL CONFORM TO UL RATING REQUIREMENTS FOR FIRE RESISTANCE.
5. REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE:

CONCRETE ELEMENT	REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE*
ALL CONCRETE UON	1"

* SMALLER NOMINAL MAXIMUM COARSE AGGREGATE SIZE SHALL BE USED WHERE REQUIRED PER ACI 318.

6. ALL FOUNDATION ELEMENTS SHALL BE CENTERED UNDER WALLS, PIERS, OR COLUMNS UON.

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.00	GENERAL NOTES
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	SPECIAL INSPECTIONS
S0.09	STRUCTURAL SITE PLAN
S2.12	LEVEL 01 FOUNDATION PLAN - SOUTH
S2.22	LEVEL 02 FRAMING PLAN - SOUTH
S2.32	ROOF - FRAMING PLAN - SOUTH
S3.00	TYPICAL FOUNDATION SECTIONS AND SCHEDULES
S4.00	TYPICAL CMU SECTIONS
S4.01	TYPICAL CMU SECTIONS
S5.00	TYPICAL STEEL SECTIONS AND SCHEDULES
S5.01	TYPICAL STEEL SECTIONS
S5.02	STEEL - BAR JOISTS DETAILS
S5.20	STEEL ROOF SECTIONS
GRAND TOTAL: 15	

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issue for construction:
revisions:
mark date description

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NOT FOR CONSTRUCTION

WACHTER

LOWELL, AR

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION, **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents.
GENERAL NOTES

design. CD
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S0.00

7. "ROUGH JOINTS" ARE JOINTS ROUGHENED TO AN AMPLITUDE OF 1/4" AND FREE AND CLEAN OF LAITANCE. PROVIDE ROUGH JOINTS AT ALL CONSTRUCTION JOINTS UON.
8. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ALL CONSTRUCTION JOINTS WHERE JOINTS ARE NOT INDICATED ON THE DRAWINGS.
9. CONSTRUCTION JOINTS IN CAST-IN-PLACE CONCRETE SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL PLACING DRAWINGS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS UON. ALL REINFORCING TO BE CONTINUOUS THROUGH JOINTS UON.
10. JOINTS ABUTTING EXISTING CONCRETE CONSTRUCTION SHALL BE ROUGH JOINTS UON.
11. CONSTRUCTION JOINTS IN SLAB ON DECK SHALL BE LOCATED AS FOLLOWS:
    1. JOINTS PERPENDICULAR TO THE DECK SPAN SHALL BE LOCATED MIDWAY BETWEEN ADJACENT PARALLEL BEAMS.
    2. JOINTS PERPENDICULAR TO GIRDERS SHALL BE LOCATED NO FARTHER THAN 'S'/2 FROM ONE END OF THE GIRDER WHERE 'S' IS THE DIMENSION BETWEEN ADJACENT BEAMS FRAMING TO THE GIRDER.
12. PROVIDE CONTINUOUS BENTONITE WATERSTOPS IN ALL CONSTRUCTION JOINTS IN BELOW GRADE CONCRETE CONSTRUCTION. COORDINATE WATERSTOPS WITH ARCHITECTURAL DRAWINGS.
13. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS ON DECK WITHIN 7 DAYS AFTER CONCRETE IS PLACED.
14. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS UNLESS THE WORK IS SHORED.
15. NOTIFY THE ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
16. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
17. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS MINIMUM THICKNESS. PROVIDE ALLOWANCES FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
18. PROVIDE SELF-LEVELING UNDERLAYMENT AT ELEVATED CONCRETE SLABS AND SLABS ON DECK AS REQUIRED TO MEET FLOOR FLATNESS AND LEVELNESS REQUIREMENTS.
19. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATIONS OF PROPOSED CONCRETE CORES.
20. REINFORCING STEEL SHALL NOT BE DAMAGED WHEN DRILLING CONCRETE.
21. ADHERE TO ACI 305R AND ACI 306R FOR HOT AND COLD WEATHER CONCRETE CONSTRUCTION.

    24. DRYPACK AND GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 7000 PSI, UON.
22. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AND INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
23. CONTRACTOR SHALL SUBMIT A SINGLE DIMENSIONED AND COORDINATED DRAWING FOR EACH LEVEL SHOWING THE LOCATIONS OF THE FOLLOWING:
    1. SLAB OPENINGS AND PENETRATIONS
    2. SLEEVES, CAST-IN-PLACE AND POST-INSTALLED FIELD CORED
    3. SLAB-EMBEDDED ELECTRICAL CABLE AND CONDUIT
    4. EMBEDDED PLATES AND ALL OTHER EMBEDDED ITEMS
24. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF ALL ARCHITECTURAL FEATURES IN THE CONCRETE. SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR ALL CONCRETE FINISHES.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2000 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	2000 PSI
GROUT	2000 PSI

3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS	ASTM C90, NORMAL-WEIGHT UON
MORTAR	ASTM C270, TYPE S UON ASTM C270, TYPE N (NON-STRUCTURAL MASONRY) ASTM C270, TYPE M (HIGH LOADING OR BELOW GRADE)
GROUT	ASTM C476
JOINT REINFORCING	ASTM A951

4. JOINT REINFORCING PER ASTM A951 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL LADDER-TYPE JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING:

RUNNING BOND	9GA @ 16" OC (ALL WIDTHS)
BELOW GRADE WALLS	9GA @ 8" OC

5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
6. PROVIDE MINIMUM 1" GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL UON. VERTICAL REINFORCING BARS SHALL BE SECURELY HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
7. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UON.
8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWEL SIZE AND LOCATION IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL WITHIN 6" TOLERANCE. VERTICAL REINFORCEMENT TO RUN FULL HEIGHT OF WALL UON.
9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
10. GROUT SOLID ALL COURSES BELOW GRADE.
11. GROUT IN 5'-4" MAXIMUM LIFTS.
12. LIFTS OF GROUT SHALL BE KEYED 1 1/2" INTO THE PREVIOUS COURSE BELOW.
13. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
14. ALL BOND BEAMS TO HAVE A MINIMUM 8" DEPTH. PROVIDE TALLER BOND BEAMS AS NEEDED FOR COURSING OR TO AVOID INTERFERENCE BETWEEN REINFORCING STEEL AND POST-INSTALLED ANCHORS. CUT AND STEP BOND BEAM AS REQUIRED.
15. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS UON. ADDITIONAL LINTELS MAY BE REQUIRED. COORDINATE WITH STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE BEFORE CONSTRUCTION OF CMU WALL.
16. PIPE AND CONDUIT SHALL NOT BE PERMITTED IN CELLS WITH VERTICAL REINFORCEMENT. CONDUIT TO BE LOCATED TO AVOID ALL HORIZONTAL REINFORCEMENT. NO ALUMINUM CONDUITS PERMITTED.
17. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND UON.
18. SEE ARCHITECTURAL DRAWINGS FOR OTHER WALL ASSEMBLY COMPONENTS.
19. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF ALL NON-LOAD BEARING CMU WALLS.
20. MINIMUM WALL VERTICAL REINFORCING SHALL BE #5 BAR FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 48" UON.
21. MINIMUM HORIZONTAL REINFORCING SHALL BE (2)#5 BARS IN CENTER OF MINIMUM 16" DEEP CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR, INTERMEDIATE STAIR LANDINGS, AND ROOF LINES AND (1)#5 BAR IN CENTER OF 8" DEEP CONTINUOUS GROUTED BOND BEAM AT TOP OF PARAPET OR FREE-STANDING WALL AND AT INTERVALS NOT TO EXCEED 48" UON. PLACE BARS AT ELEVATED FLOOR AND ROOF LINES CONTINUOUS THROUGH CONTROL JOINTS.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" OR LESS IN WIDTH THAT ARE AT LEAST 1 COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS AND CLADDING SHALL BE SIZED PER THE FOLLOWING:SINGLE ANGLE SIZES FOR CLADDING ARE BASED ON SUPPORTING 8 FT OF BRICK W/ 1" AIR GAP. DOUBLE ANGLE AND CMU LINTEL SIZES ARE BASED ON SUPPORTING 20 FT OF UNREINFORCED CMU, NEGLECTING ARCHING ACTION

SPAN, L	4" CLADDING	8" CMU *
0' < L = 4'-0"	L4x4x1/4	(2) L3 1/2x3 1/2x1/4
4'-0" < L = 6'-0"	L6x4x5/16 (LLV)	(2) L4x3 1/2x3/8 (LLV)
6'-0" < L = 8'-0"	L7x4x3/8 (LLV)	(2) L5x3 1/2x3/8 (LLV)

CMU BLOCK OPTIONS	
SPAN, L	8"
0' < L = 4'-0"	8" DEEP w/ (1)#4 BOT
4'-0" < L = 6'-0"	8" DEEP w/ (1)#5 BOT
6'-0" < L = 8'-0"	16" DEEP w/ (1)#4 BOT
8'-0" < L = 10'-0"	16" DEEP w/ (2)#5 BOT

*ALL ANGLES TO BE BACK-TO-BACK AND WELDED TOP AND BOTTOM 3" @ 12".

4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES UON.
5. TEMPORARY SHORING OF CMU LINTELS MUST BE PROVIDED UNTIL CMU HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED UON.
7. AT STEEL WIDE FLANGE LINTELS WITH SPANS LONGER THAN 16", PROVIDE GROUTED TIE/SOAP BLOCKS TO STEEL BEAM WEB WITH WELDED METAL TIES AT 16".

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE AND WT SHAPES	ASTM A992	Fy=50 KSI
CHANNEL SHAPES	ASTM A992	Fy=50 KSI
ANGLE SHAPES	ASTM A572	Fy=50 KSI
HSS SECTIONS, ROUND	ASTM A500, GR C	Fy=50 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR C	Fy=50 KSI
PLATES	ASTM A572	Fy=50 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy=36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fu=120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fu=120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436	
HEADED STUD ANCHORS (HSA)	ASTM A108, TYPE B	
WELDING	AWS D1.1, 70KSI FILLER METAL	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS UON. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM SNUG TIGHT CONDITION UON.
5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF THE NUT METHOD.
6. DELEGATED STRUCTURAL STEEL CONNECTIONS:
    1. ALL STRUCTURAL STEEL CONNECTIONS (OTHER THAN THOSE CONNECTIONS IDENTIFIED AS "FULLY DESIGNED") AND MEMBER REINFORCEMENT AT THE CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER WORKING FOR THE FABRICATOR IN ACCORDANCE WITH AISC 303 CoSP, OPTION 3. THAT ENGINEER SHALL BE LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.D.
    2. CONNECTIONS AND MEMBER REINFORCEMENT AT THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SPECIFIED OR INDICATED ON THE DRAWINGS.
    3. WHERE SPECIFIC CONNECTION TYPES, DETAILS, CONFIGURATIONS, OR CONNECTION DESIGN LIMITATIONS ARE INDICATED, THE CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THOSE REQUIREMENTS. WHERE SPECIFIC SIZES, QUANTITIES AND DIMENSIONS OF BOLTS, WELDS, AND PLATES ARE INDICATED, THOSE ARE MINIMUM PERMITTED SIZES, QUANTITIES, AND DIMENSIONS. THE CONNECTION STRENGTH OF ALL CONNECTIONS SHALL BE DETERMINED BY THE FABRICATOR'S CONNECTION DESIGN ENGINEER, AND THE CONNECTION DETAIL SHALL BE MODIFIED IF REQUIRED TO PROVIDE THE REQUIRED STRENGTH.
    4. CONNECTION DESIGN RESPONSIBILITY SHALL INCLUDE CALCULATION OF MEMBER STRENGTH AT CONNECTIONS CONSIDERING THE EFFECTS OF COPES, BOLT HOLES, CONNECTION ECCENTRICITY, AND CONNECTION GEOMETRY AND SHALL CONSIDER ALL LIMIT STATES INCLUDING BUT NOT LIMITED TO REVIEW OF GROSS SHEAR, NET SHEAR, BLOCK SHEAR, WEB TEAR-OUT, BEARING, FLEXURAL STRENGTH, LOCAL BUCKLING, TENSILE STRENGTH THROUGH BOTH THE NET AND GROSS SECTIONS, COMPRESSIVE STRENGTH, AND DUCTILITY. DESIGN OF CONNECTIONS SHALL BE IN ACCORDANCE WITH RECOGNIZED PUBLISHED METHODS SUCH AS THOSE PUBLISHED IN THE AISC "ENGINEERING JOURNAL", THE AISC 16TH EDITION STEEL CONSTRUCTION MANUAL, AND THE AISC STEEL CONSTRUCTION MANUAL DESIGN EXAMPLES. CONNECTION DESIGN SHALL CONSIDER TRANSFER FORCES THROUGH CONNECTED AND CONNECTING MEMBERS. CONNECTION DESIGN RESPONSIBILITY SHALL INCLUDE ANALYSIS AND DESIGN OF PLATES, BRACKETS, STRUTS, STIFFENER PLATES, GUSSET PLATES, AND OTHER ELEMENTS TO TRANSFER FORCES INTO AND BETWEEN MEMBERS. CALCULATIONS SHALL SHOW FULL DETAILED CODE EQUATIONS AND METHODOLOGY FOR A REPRESENTATIVE SAMPLE OF EACH CONNECTION TYPE.
    5. A MEANS BY WHICH THE DELEGATED STEEL CONNECTION DESIGN CALCULATIONS CAN BE ASSOCIATED WITH THE CORRESPONDING STEEL CONNECTIONS ON THE APPROVAL DOCUMENTS SHALL BE PROVIDED WITH THE CONNECTION CALCULATION DESIGN SUBMITTAL.
    6. SUBMIT TABLES FOR ALL TYPICAL BEAM SHEAR CONNECTIONS USED ON THE PROJECT SHOWING USABLE SHEAR STRENGTH FOR ALL CONNECTION CONFIGURATIONS CONSIDERING BEAM SIZE, BOLT SIZE, TYP AND QUANTITY, CONNECTION GEOMETRY, WELD SIZES, EDGE DISTANCES, ECCENTRICITIES AND COPE DIMENSIONS.
    7. AT ENGINEER OF RECORD'S REQUEST, MANUAL CALCULATIONS SHALL BE SUBMITTED FOR EACH CONNECTION TYPE TO VERIFY THAT CONNECTIONS DESIGNED USING COMPUTER SOFTWARE CONSIDER ALL LIMIT STATES AND PRODUCE RESULTS IDENTICAL TO THE MANUAL CALCULATIONS.
    8. ALL BOLTED BEAM SHEAR CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS. ALL BEAM SHEAR CONNECTIONS SHALL BE DETAILED SO THAT THE LENGTH OF THE CONNECTION IS GREATER THAN OR EQUAL TO 50% OF THE "T" DIMENSION OF THE SUPPORTED MEMBER.
    9. BEAM SHEAR CONNECTIONS SHALL BE DESIGNED AS SIMPLE SHEAR CONNECTIONS PER AISC 360 PART 10 TO SUPPORT ASD LRFD REACTIONS, EXCEPT WHERE INDICATED AS "FULLY DESIGNED" ON THE CONTRACT DOCUMENTS. WHERE REACTIONS ARE NOT SHOWN ON THE CONTRACT DOCUMENTS, CONNECTIONS SHALL BE DETAILED TO SUPPORT THE FACTORED-LOAD LEVEL REACTIONS INDICATED IN THE TABLE BELOW. FOR MEMBER SIZES NOT SHOWN IN THE TABLE BELOW, SUBMIT IN WRITING TO THE ENGINEER OF RECORD A REQUEST FOR THE REACTIONS REQUIRED TO COMPLETE THE CONNECTION DESIGN.

BEAM SIZE	Ru
W8	15k
W10	20k
W12	35k
W14	50k
W16	55k

    10. MOMENT CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE LRFD MOMENTS INDICATED ON THE DRAWINGS. WHERE NO MOMENT REACTION IS INDICATED, THE CONNECTION SHALL BE DESIGNED TO SUPPORT 75% OF THE FULL PLASTIC MOMENT STRENGTH OF THE MEMBER. MOMENT CONNECTIONS SHALL BE DESIGNED AS FULLY RESTRAINED MOMENT CONNECTIONS.
7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.
8. SHOP CONNECTIONS SHALL BE WELDED UON. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS.
9. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING INDICATED. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
10. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
11. PROVIDE ONE SHOP COAT OF PAINT ON ALL STRUCTURAL STEEL NOT COVERED WITH CONCRETE, FIREPROOFING, MASONRY, OR AT CONTACT SURFACES AT HIGH STRENGTH BOLTS.
12. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
13. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
14. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OR TORCHING OF HOLES, CUTS, AND OTHER FIELD MODIFICATIONS SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
15. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR MISCELLANEOUS STEEL NOT DETAILED SPECIFICALLY ON THE STRUCTURAL DRAWINGS.
16. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
17. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW AND APPROVAL BEFORE FABRICATION.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:

	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
JOIST TYPE/SERIES	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
K	1/8	2 1/2	1/2	A307	2 1/2	4

WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UON.

3. DESIGN JOIST SEAT FOR 1500 LBS (0.7 EL) ROLLOVER LOAD FOR K-SERIES JOISTS ONLY.
4. SPECIAL JOIST AND JOIST GIRDER DEFLECTION REQUIREMENTS:
    1. ROOF JOISTS: LIVE LOAD = L/360 & TOTAL LOAD = L/240
    2. FLOOR JOISTS: LIVE LOAD = L/480 & TOTAL LOAD = L/360
5. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR SPECIAL JOIST AND JOIST GIRDER DESIGNS. JOIST DESIGNER SHALL UTILIZE LOADINGS INDICATED ON THE STRUCTURAL DRAWINGS.
6. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED ABOVE. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
7. HANGING OF MISCELLANEOUS ITEMS IS NOT PERMITTED FROM BRIDGING / BRACING.
8. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS EXCEPT AT EXPANSION JOINTS.
9. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
10. STEEL JOISTS SHALL BE TOP CHORD BEARING UON.
11. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR REVIEW AND APPROVAL BEFORE FABRICATION.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
    1. CURRENT VERSION OF VULCRAFT CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS
    2. SDI DIAPHRAGM DESIGN MANUAL 4 FOR DIAPHRAGM LOADS
3. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR PENETRATIONS LESS THAN OR EQUAL TO 12"Ø OR 12"x12", FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. SEE STRUCTURAL FRAMING DETAILS FOR ANY OPENING EXCEEDING LIMITS NOTED.
5. SUBMIT SHOP DRAWINGS SHOWING DECKING LAYOUT, DECK GAUGE, DECK DIRECTION, FASTENERS, AND FASTENING PATTERN FOR REVIEW AND APPROVAL.
6. FURNISH DECKING IN MINIMUM LENGTHS TO ACHIEVE 3-SPAN CONDITION UON.
7. ROOF DECK:
    1. ALL ROOF DECK SHALL BE PRIME PAINTED GRAY TO CONFORM TO ASTM A1008.
    2. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER UON.
    3. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
8. NON-COMPOSITE (FORM) DECK:
    1. ALL FLOOR DECK SHALL BE GALVANIZED TO CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
    2. CONDUITS SHALL NOT BE PLACED IN SLAB ON DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER UON.
    3. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN SLAB ON DECK WITH THE STRUCTURAL ENGINEER UON.
    4. FORM DECK GAUGES SHOWN ON THE DRAWINGS ARE INTENDED TO SUPPORT THE WEIGHT OF THE WET CONCRETE PLUS A CONSTRUCTION LIVE LOAD OF 20 PSF WITHOUT INTERMEDIATE SHORING BASED ON A 3-SPAN CONTINUOUS CONDITION. DECK MANUFACTURER SHALL EVALUATE OTHER SPAN CONDITIONS FOR DEFLECTION WHICH SHALL NOT EXCEED L/180 NOR 1/4" UNDER UNIFORMLY DISTRIBUTED CONCRETE DEAD LOAD. PROVIDE SHORING OR ALTERNATE MEANS OF CONTROLLING DEFLECTION AND MEETING ALLOWABLE STRESSES.
    5. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.

COLD-FORMED STEEL (CFS) DELEGATED

1. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS SHALL CONFORM TO THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL METALS, AISI S100.
2. THE STRUCTURAL DRAWINGS DO NOT REFLECT THE ENTIRE SCOPE OF WORK REQUIRED FOR COLD-FORMED STEEL FRAMING AND CONNECTIONS. COLD-FORMED STEEL FRAMING SHALL BE PROVIDED FOR AND COORDINATED WITH ARCHITECTURAL, MEP, AND OTHER DRAWINGS.
3. COLD-FORMED STEEL FRAMING AND CONNECTIONS INDICATED OR REFERENCED IN THE CONTRACT DOCUMENTS ARE FOR PURPOSES OF CONVEYING DESIGN INTENT ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL SYSTEMS THAT SUPPORT GRAVITY OR LATERAL LOADS SHALL BE THE RESPONSIBILITY OF THE COLD-FORMED STEEL SUBCONTRACTOR AND THEIR STRUCTURAL ENGINEER. THE DESIGN OF COLD-FORMED STEEL SYSTEMS SHALL CONFORM TO THE GOVERNING BUILDING CODE AND REGULATIONS, AS WELL AS ANY SPECIAL CONDITIONS AND REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.
4. STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER DESIGNATIONS ARE SPECIFIED ON THE CONTRACT DOCUMENTS UON. WHERE SPECIFIC MANUFACTURERS ARE SPECIFIED AND PROPRIETARY FRAMING DESIGNATIONS INDICATED, FRAMING BY OTHER MANUFACTURERS MAY BE USED PROVIDED THOSE FRAMING MEMBERS HAVE DIMENSIONS EQUIVALENT TO THE SPECIFIED FRAMING AND ENGINEERING PROPERTIES EQUIVALENT TO OR GREATER THAN THE SPECIFIED FRAMING. SUCH PROPOSED SUBSTITUTIONS ARE PERMITTED ONLY IF APPROVED IN WRITING BY THE DESIGN PROFESSIONALS.
5. STRUCTURAL COLD-FORMED STEEL IS DEFINED AS THE FOLLOWING:
    1. ANY COLD-FORMED STEEL THICKER THAN 20GA (33 MIL)
    2. ANY EXTERIOR COLD-FORMED FRAMING AND CONNECTIONS
    3. ANY LOAD BEARING MEMBER
    4. ANY MEMBER CALLED OUT AND SPECIFIED IN THE STRUCTURAL DRAWINGS
    5. ALL OTHER COLD-FORMED STEEL IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
6. STRUCTURAL COLD-FORMED STEEL (ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES) SHALL CONFORM TO THE FOLLOWING STANDARDS:

18GA (43 MIL) AND THINNER	ASTM A653, GR 33	Fy=33 KSI
16GA (54 MIL) AND THICKER	ASTM A653, GR 50	Fy=50 KSI
CONNECTION MATERIAL > 3/16"	ASTM A36	Fy=36 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
ELECTRODES FOR ARC WELDING	AWS 5.1 E60XX	

7. WIND LOADS PERPENDICULAR TO THE PLANE OF EXTERIOR WALLS SHALL BE COMPUTED BASED UPON THE COMPONENT AND CLADDING WIND PRESSURES INDICATED IN THE GENERAL NOTES.
8. DESIGN SHALL INCLUDE DESIGN AND DETAILING OF FRAMING, BRIDGING, TEMPORARY AND PERMANENT BRACING, AND ALL FRAMING CONNECTIONS.
9. COLD-FORMED STEEL COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR A FULL ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE SECURED IN PLACE UNTIL PROPERLY ATTACHED.
10. SPLICING OF COLD-FORMED MEMBERS IS NOT PERMITTED.
11. CUTOUTS, HOLES, OR NOTCHES ARE NOT PERMITTED IN COLD-FORMED STEEL ROOF AND FLOOR JOISTS, HEADERS, OR BEAMS WITHOUT PRIOR WRITTEN APPROVAL OF EITHER THE STRUCTURAL ENGINEER OR THE COLD-FORMED STEEL ENGINEER.
12. CUTTING OF COLD-FORMED STEEL MEMBERS SHALL BE ACCOMPLISHED WITH A SAW OR SHEARS. TORCH CUTTING OF SUCH MEMBERS IS NOT PERMITTED. THE CUTTING OF ANY LOAD BEARING MEMBER IS PROHIBITED.
13. HOLES FIELD CUT THROUGH COLD-FORMED STUD FRAMING SHALL BE MADE WITHIN THE LIMITATIONS OF THE PRODUCT AND THE PRODUCT DESIGN. HOLES SHALL BE REINFORCED AS RECOMMENDED BY THE MANUFACTURER.
14. ALL WELDS SHALL COMPLY WITH THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100, AND THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3.
15. CONNECTIONS SHALL BE MADE BY WELDS, SCREWS, BOLTS, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE MATERIAL COMPATIBLE WITH THE COLD-FORMED STEEL.
16. LIMIT HORIZONTAL COLD-FORMED STUD OUT-OF-PLANE DEFLECTIONS DUE TO WIND LOADS TO THE FOLLOWING:
    1. STUDS BACKING UP BRICK, MASONRY, AND STONE: L/600 OR 0.3" MAX
    2. STUDS BACKING UP ALL OTHER FACADE MATERIALS: L/360 UON
17. TEMPORARY BRACING SHALL BE PROVIDED WHERE REQUIRED TO ENSURE ALIGNMENT UNTIL WALL PANELS ARE INSTALLED AND CONSTRUCTION IS COMPLETED.
18. CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONALS. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE COLD-FORMED STEEL FRAMING CONTRACTOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS, INCLUDING DESIGN CALCULATIONS AND SHOP DRAWINGS, SHALL BE SIGNED AND SEALED BY THAT ENGINEER.

POST-INSTALLED ANCHORS

1. BASIS OF DESIGN ANCHORS:

INSTALLATION CONDITION	ANCHOR TYPE
EXPANSION ANCHORS INTO CONCRETE	HILTI KB-TZ2 (ESR-4266)
SCREW ANCHORS > 1/4"Ø INTO CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)
ADHESIVE ANCHORS INTO CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HIT-Z ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HAS-E THREADED ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 AND HAS-E THREADED ROD (ESR-3814) FOR ALL ADHESIVE ANCHORS, HOLES SHALL BE HAMMER DRILLED AND HOLES MAY BE DRY OR WATER SATURATED.
EXPANSION ANCHORS INTO GROUTED CMU	HILTI KB-TZ2 (ESR-4561)
SCREW ANCHORS > 1/4"Ø INTO GROUTED CMU	HILTI KWIK HUS-EZ (ESR-3056)
SCREW ANCHORS = 1/4"Ø INTO CONCRETE OR GROUTED CMU	HILTI KWIK-CON II+
ADHESIVE ANCHORS IN GROUTED CMU OR SOLID BRICK	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD (ESR-4143)
ADHESIVE ANCHORS INTO HOLLOW CMU, BRICK OR MULTI-WYTHE BRICK WALLS	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD AND APPROPRIATE HIT-SC SCREEN TUBE (ESR-4144)
ADHESIVE DOWELING FOR ANCHORING REINFORCING BARS INTO (E) CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 ADHESIVE (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 ADHESIVE (ESR-3814)
POWDER-ACTUATED FASTENERS (PAF's) IN CONCRETE	HILTI X-U FASTENERS (ESR-2269)

2. ALTERNATIVE ANCHORS MAY BE USED IF APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION VERIFYING PROPOSED ALTERNATIVE ANCHORS WILL PROVIDE THE SAME OR GREATER LOAD-CARRYING CAPACITY AS THE SPECIFIED ANCHORS. THE CONTRACTOR SHALL SUBMIT EVALUATION REPORTS. EACH ANCHOR CONFIGURATION SHALL BE EVALUATED AND COMPARED TO THE SPECIFIED ANCHOR.
3. CRACKED CONCRETE IS ASSUMED FOR ALL ANCHORAGE DESIGN CONDITIONS UNLESS IT CAN BE DEMONSTRATED THROUGH ENGINEERING ANALYSIS THAT THE CONCRETE REMAINS UNCRACKED DURING THE GOVERNING ULTIMATE LOAD STATE.
4. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
5. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEER SHALL RECEIVE DOCUMENTATION VERIFYING ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.

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6. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPROVED CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THE ACCEPTABILITY OF CERTIFICATIONS OTHER THAN THE ACI/CRSI ADHESIVE INSTALLER CERTIFICATION WILL BE DETERMINED BY THE STRUCTURAL ENGINEER.
7. CONCRETE SHALL HAVE ACHIEVED DESIGN STRENGTH PRIOR TO INSTALLING POST-INSTALLED ANCHORS. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE THAT HAS CURED FOR A MINIMUM OF 21 DAYS.
8. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL, CONDUIT OR OTHER EMBEDDED ITEMS. REINFORCING STEEL SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. PLATES AND BRACKETS THROUGH WHICH ANCHORS WILL BE INSTALLED SHALL NOT BE FABRICATED UNTIL AFTER REINFORCING STEEL IS LOCATED AND ANCHOR LOCATIONS ARE ADJUSTED. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER TO OBTAIN ALTERNATIVE ANCHOR LAYOUT WHERE ANCHORS MUST BE RELOCATED TO AVOID INTERFERENCE WITH REINFORCING STEEL.
10. ADHESIVE ANCHORING SYSTEMS ARE PERMITTED TO BE USED FOR INSTALLATION OF REINFORCING STEEL INTO EXISTING CONCRETE ONLY WHERE SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR WITH APPROVAL FROM THE STRUCTURAL ENGINEER. LOCATIONS WHERE REINFORCING STEEL WAS INCORRECTLY PLACED OR MISSED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
11. WHERE POST-INSTALLED MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE SPECIFIED, THOSE DEPTHS ARE THE REQUIRED MINIMUM NOMINAL EMBEDMENT DEPTHS. WHERE MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE NOT INDICATED, THE ANCHORS SHALL BE INSTALLED TO THE MAXIMUM EMBEDMENT DEPTH NOTED IN THE MANUFACTURER'S PRODUCT TECHNICAL GUIDE.
12. ADHESIVE ANCHORS SHALL BE INSTALLED WITH A MINIMUM 6" EMBEDMENT DEPTH UON.
13. ANCHORS SHALL BE QUALIFIED FOR USE IN CRACKED CONCRETE UNDER EARTHQUAKE LOADING IN ACCORDANCE WITH ACI 355.2 (MECHANICAL ANCHORS) OR ACI 355.4 (ADHESIVE OR EPOXY ANCHORS).

ELEVATORS

1. THE ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS ARE DEFERRED SUBMITTAL ITEMS.
2. PROVISION FOR ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS HAS BEEN INCLUDED IN THE DESIGN OF THE STRUCTURE.

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GENERAL

1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
    1. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
    2. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
    3. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
    4. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
    1. POST-INSTALLED ANCHORS - INSPECTION
5. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	
REINFORCING BAR WELDING:			AWS D1.4 ACI 318: 26.6.4	
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X		
c. INSPECTS ALL OTHER WELDS	X			
INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		X	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	
a. INSTALLATION OF THE EMBEDDED PARTS	X			
b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X		ACI 550.5	
c. COMPLETION OF CONNECTIONS IN THE FIELD	X			
INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2(b)	

MASONRY CONSTRUCTION - LEVEL 2

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS	X			ART. 1.5
b. VERIFICATION OF f'm	X			ART. 1.4 B
AS CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6 A & 2.6 C
b. SAMPLE PANEL CONSTRUCTION		X		ART. 1.6 D
PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		ART. 3.2 D & 3.2 F
b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
DURING CONSTRUCTION:				
a. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	X			ART. 1.5 & 1.6.3
b. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		ART. 1.5
c. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		ART. 3.3 B
d. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		ART. 3.3 F
e. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
f. WELDING OF REINFORCEMENT	X		SEC. 6.1.6.1.2	
g. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X		ART. 1.8 C & 1.8 D
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

STRUCTURAL STEEL - INSPECTION TASKS PRIOR TO BOLTING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE N5.6-1	2.1, 9.1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE N5.6-1	FIG. C-2.1, 9.1
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE N5.6-1	2.3.2, 2.7.2, 9.1
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE N5.6-1	4, 8
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE N5.6-1	3, 9.1, 9.3
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O	TABLE N5.6-1	7, 9.2
PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE N5.6-1	2.2, 8, 9.1

1. O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL - INSPECTION TASKS DURING BOLTING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	O	O	TABLE N5.6-2	7.1(1), 8.1, 9.1
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O	TABLE N5.6-2	8.1, 9.1
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	TABLE N5.6-2	8.2, 9.2
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O	TABLE N5.6-2	8.2, 9.2

STRUCTURAL STEEL - INSPECTION TASKS AFTER BOLTING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE N5.6-3	

STRUCTURAL STEEL - INSPECTION TASKS PRIOR TO WELDING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O	TABLE N5.4-1	
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	TABLE N5.4-1	6.3
MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	P	P	TABLE N5.4-1	6.2
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	TABLE N5.4-1	6.2
WELDER IDENTIFICATION	O	O	TABLE N5.4-1	6.4 (WELDER QUALIFICATION)
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATIONS	O	O	TABLE N5.4-1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE N5.4-1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACES)	O	O	TABLE N5.4-1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE N5.4-1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE N5.4-1	5.9, 5.21.1.1
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATIONS	P	O	TABLE N5.4-1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	O	TABLE N5.4-1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACES)	P	O	TABLE N5.4-1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P	O	TABLE N5.4-1	9.11.2
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	TABLE N5.4-1	6.5.2, 5.16 (& SEE AISC 360 SECT. J1.6)
FIT-UP OF FILLET WELDS	O	O	TABLE N5.4-1	
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	O	O	TABLE N5.4-1	5.21.1
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	O	O	TABLE N5.4-1	5.14
c. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE N5.4-1	5.17
CHECK WELDING EQUIPMENT	O		TABLE N5.4-1	6.2, 5.10

1. O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL - INSPECTION TASKS DURING WELDING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
USE OF QUALIFIED WELDERS	O	O	TABLE C-N5.4-2	6.4
CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE N5.4-2	6.2
a. PACKAGING	O	O	TABLE N5.4-2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE N5.4-2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
NO WELDING OVER CRACKED TACK WELDS	O	O	TABLE N5.4-2	5.17
ENVIRONMENTAL CONDITIONS				
a. WIND SPEED WITHIN LIMITS	O	O	TABLE N5.4-2	5.11.1
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE N5.4-2	5.11.2
WPS FOLLOWED	O	O	TABLE 5.4-2	6.3.3, 6.5.2, 5.5, 5.20
a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE N5.4-2	
b. TRAVEL SPEED	O	O	TABLE N5.4-2	
c. SELECTED WELDING MATERIALS	O	O	TABLE N5.4-2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE N5.4-2	
e. PREHEAT APPLIED	O	O	TABLE N5.4-2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE N5.4-2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE N5.4-2	
WELDING TECHNIQUES	O	O	TABLE 5.4-2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE N5.4-2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE N5.4-2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE N5.4-2	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	TABLE N5.4-2	

1. O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL - INSPECTION TASKS AFTER WELDING (AS A MINIMUM)

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
WELDS CLEANED	O	O	TABLE N5.4-3	5.29.1
SIZE, LENGTH, AND LOCATION OF WELDS	P	P	TABLE N5.4-3	6.5.1
WELDS MEET VISUAL ACCEPTANCE CRITERIA			TABLE N5.4-3	6.5.3
a. CRACK PROHIBITION	P	P	TABLE N5.4-3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P	P	TABLE N5.4-3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P	P	TABLE N5.4-3	TABLE 6.1(3)
d. WELD PROFILES	P	P	TABLE N5.4-3	TABLE 6.1(4), 5.24
e. WELD SIZE	P	P	TABLE N5.4-3	TABLE 6.1(6)
f. UNDERCUT	P	P	TABLE N5.4-3	TABLE 6.1(7)
g. POROSITY	P	P	TABLE N5.4-3	TABLE 6.1(8)
ARC STRIKES	P	P	TABLE N5.4-3	5.28
k-AREA[1]	P	P	TABLE N5.4-3	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	TABLE N5.4-3	5.9, 5.30
REPAIR ACTIVITIES	P	P	TABLE N5.4-3	6.5.3, 5.25
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE N5.4-3	6.5.4, 6.5.5
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O	TABLE N5.4-3	

1. O=OBSERVE AND P=PERFORM
2. "WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING.

OPEN WEB STEEL JOISTS AND JOIST GIRDERS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:			
a. END CONNECTIONS - WELDING AND BOLTED		X	SJI SPEC. LISTED IN SECTION 2207.1
b. STANDARD HORIZONTAL AND DIAGONAL BRIDGING		X	SJI SPEC. LISTED IN SECTION 2207.1
c. HORIZONTAL AND DIAGONAL BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X	

STEEL DECKING

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE
DECK PLACEMENT AND ATTACHMENT	X	X	

SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL NOTES. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

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SPECIAL INSPECTIONS

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date. 2026.09.11
project. 25.18

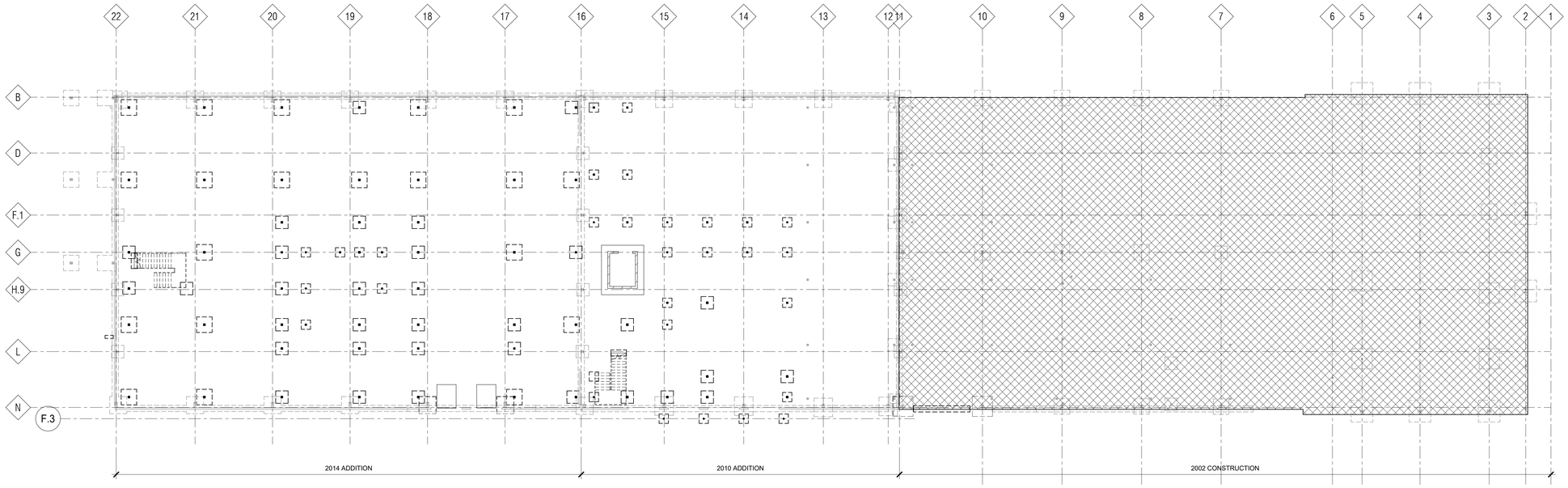
S0.03

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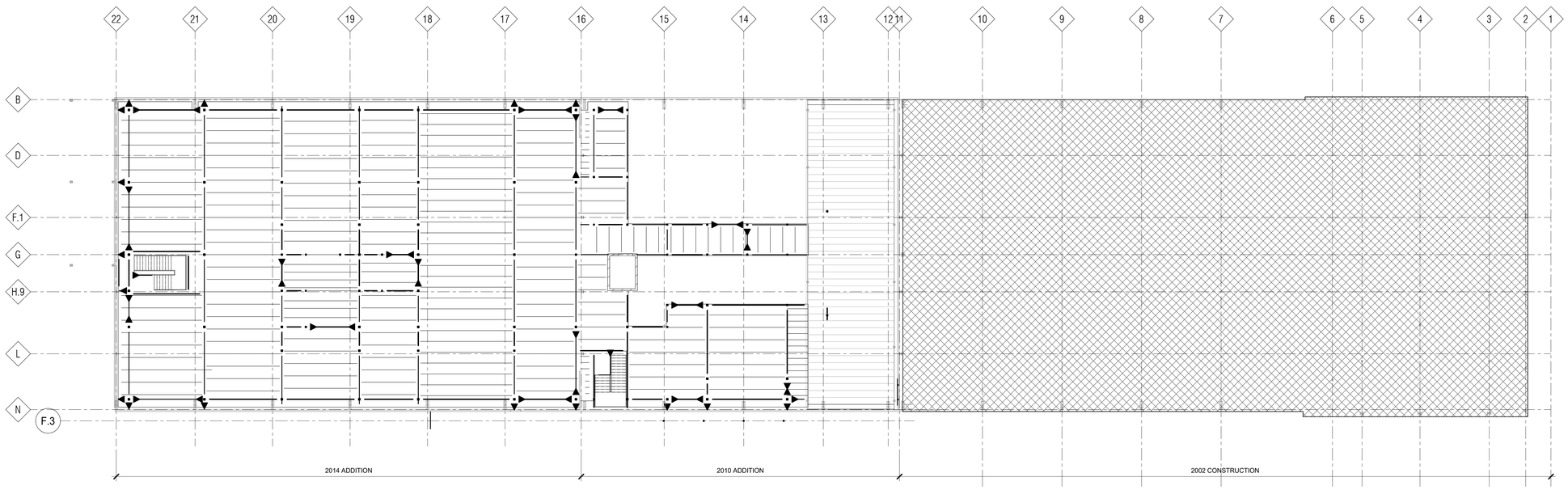
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0 1 2 3
REF. SCALE IN INCHES
PROJECT #25021062.00



1 LEVEL 01 OVERALL

1/16" = 1'-0"



2 LEVEL 02 OVERALL

1/16" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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contents:
STRUCTURAL SITE PLAN

design. CD
date. 2026.09.11
project. 25.18

S0.09

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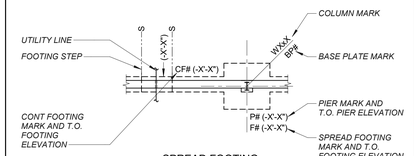
REF. SCALE IN INCHES 0 1 2 3

PROJECT #25021062.00

GENERAL CONCRETE SHEET NOTES:

1. TOP OF EXISTING SLAB EL (1316'-0") UON. NEW TO MATCH EXISTING SLAB EL.
2. EXTERIOR T.O. EXISTING FOOTING EL (1314'-8") UON.
3. INTERIOR T.O. FOOTING EL (1315'-4") UON.
4. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS.
7. CMU WALL SCHEDULE - SEE S4.01
8. COLUMN BASE PLATES TO BE BP1 UON.

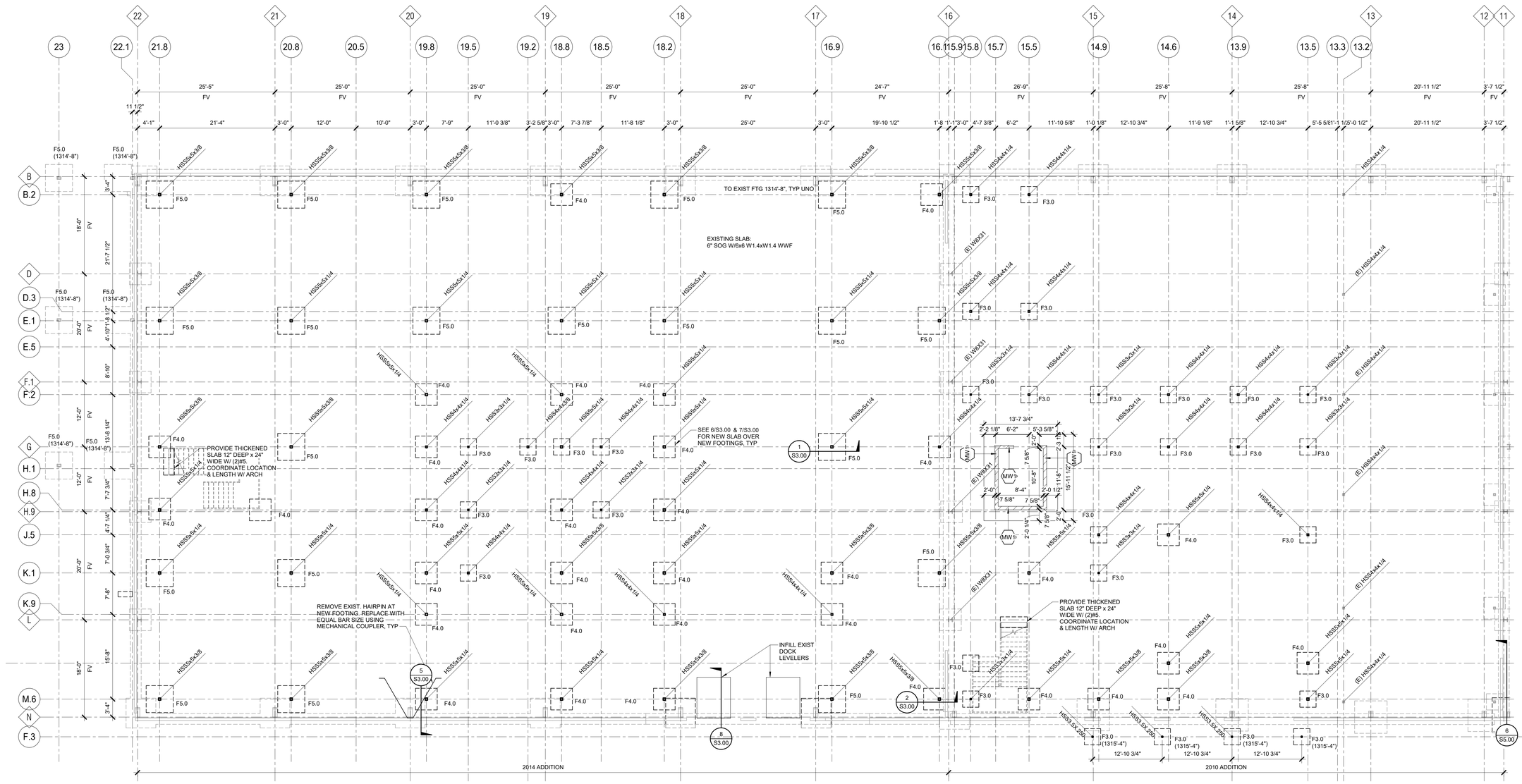
FOUNDATION PLAN SYMBOLS KEY



SPREAD FOOTING

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT (EW BOT, UON)	REMARKS
F3.0	3'-0"	3'-0"	1'-4"	(5) #5	
F4.0	4'-0"	4'-0"	1'-4"	(5) #5	
F5.0	5'-0"	5'-0"	1'-4"	(6) #5	



1 LEVEL 01 FOUNDATION PLAN - SOUTH

1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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contents,
LEVEL 01 FOUNDATION PLAN - SOUTH

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PROJECT #250211062.00

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revisions:

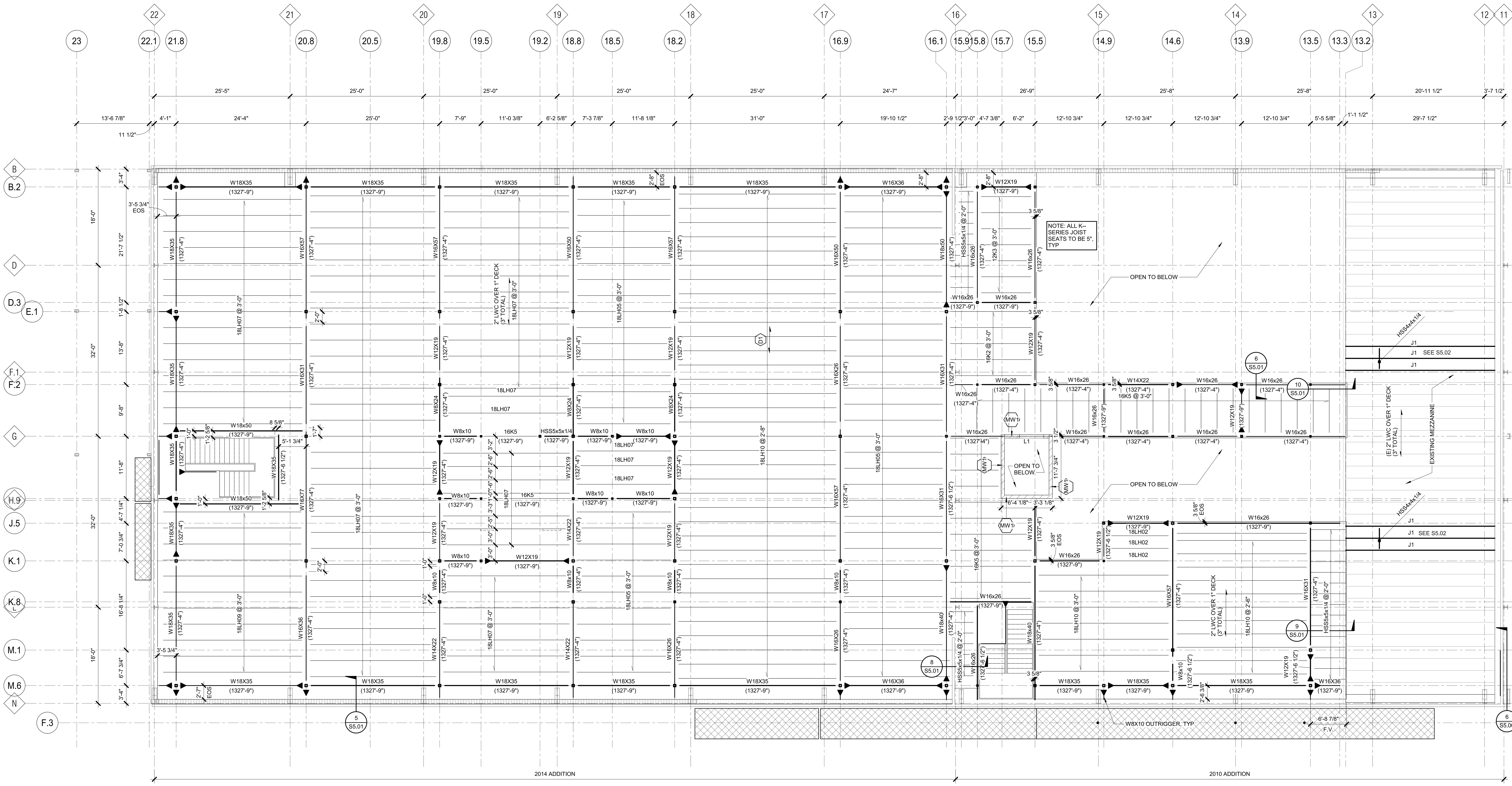
mark	date	description

STEEL DECK SCHEDULE

MARK	DECK	GAUGE	CONCRETE WEIGHT	SLAB REINFORCING	MAIN ATTACHMENT	SIDELAP FASTENERS	SIDELAP QUANTITY PER SPAN	SUPPORT FASTENING PATTERN	REMARKS
D1	1.0C	24	110pcf	W2.9xW2.9 - 6x6 WWR	5/8" PUDDLE WELD	#10 SCREWS	(3)	33/4	Fy = 50 KSI
D2	1.0C	24	-	-	5/8" PUDDLE WELD	#10 SCREWS	(3)	33/4	Fy = 50 KSI

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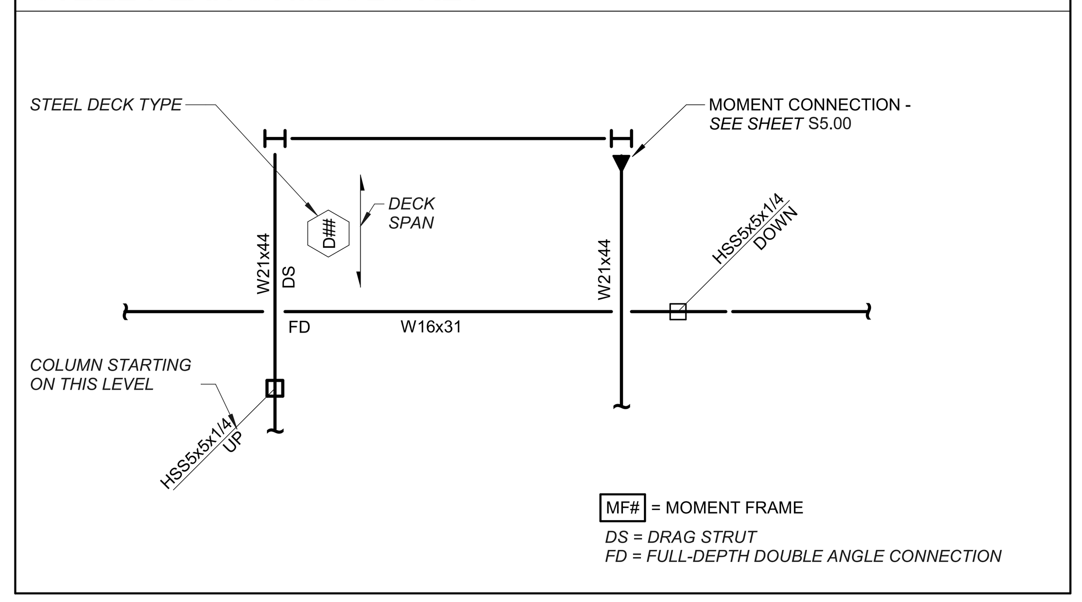
NOT FOR CONSTRUCTION



1 LEVEL 02 FRAMING PLAN - SOUTH

1/8" = 1'-0"

STEEL PLAN SYMBOLS KEY



STEEL FLOOR FRAMING NOTES:

1. TOP OF SLAB EL (1328'-0") UON.
2. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
3. BEAMS TO BE EQUALLY SPACED BETWEEN SUPPORTS UON.
4. SEE SCHEDULE FOR FLOOR DECK INFORMATION.
5. SEE TYPICAL FLOOR OPENING DETAILS. NOTE: NOT ALL OPENINGS MAY BE SHOWN. GENERAL CONTRACTOR TO COORDINATE FINAL OPENING LOCATIONS AND DIMENSIONS WITH MEP CONTRACTOR AND ARCH.
6. GENERAL CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS AT STAIRS AND ELEVATORS.

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PROJECT #26021062.00

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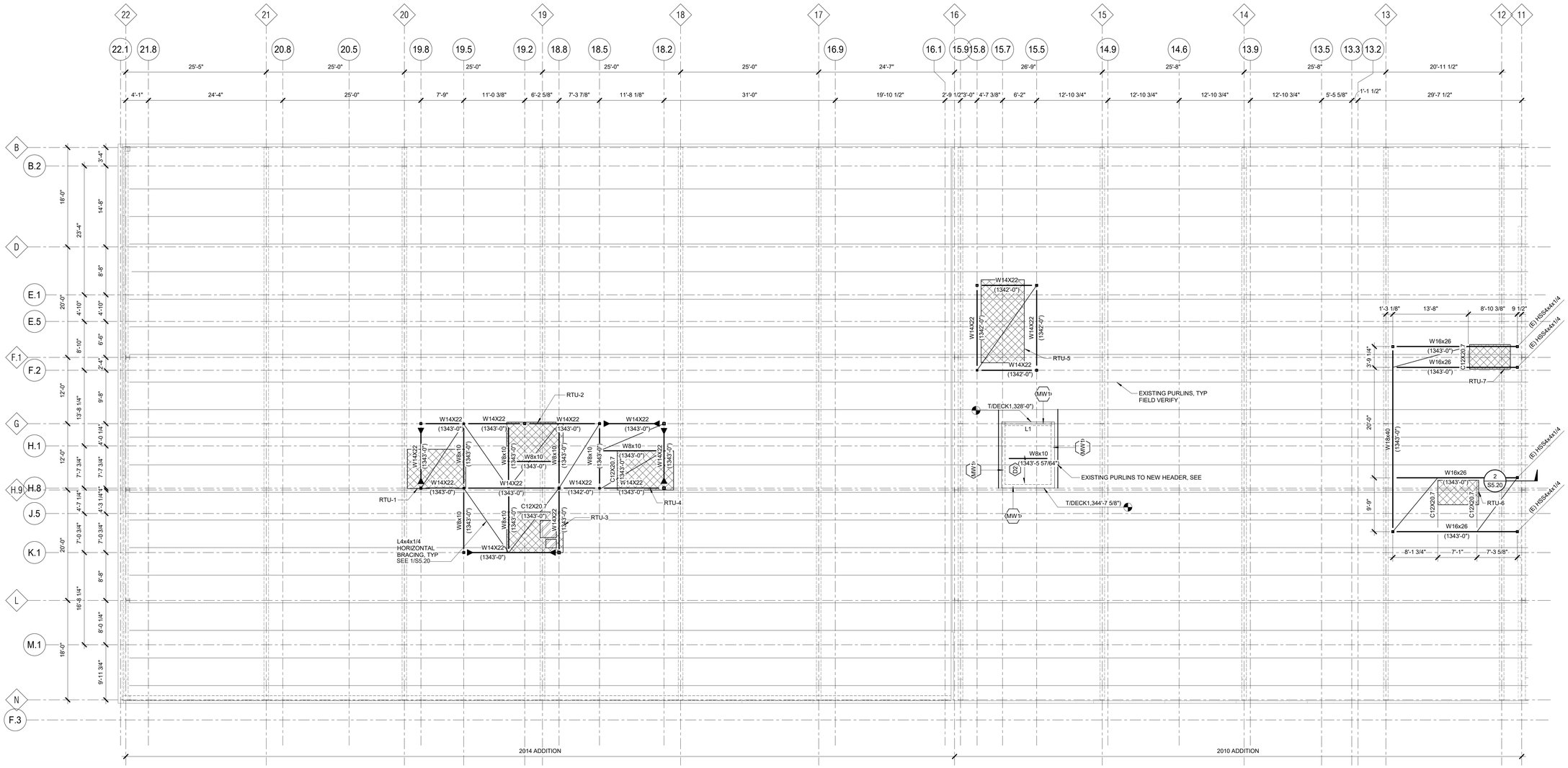
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contents.
LEVEL 02 FRAMING PLAN - SOUTH

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project. 25.18

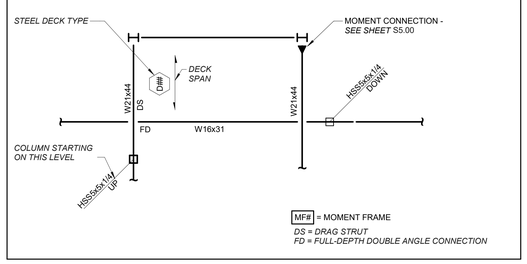
S2.22



NORTH 1 ROOF - WAREHOUSE FRAMING PLAN - SOUTH

1/8" = 1'-0"

STEEL PLAN SYMBOLS KEY



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PROJECT #26021062.00

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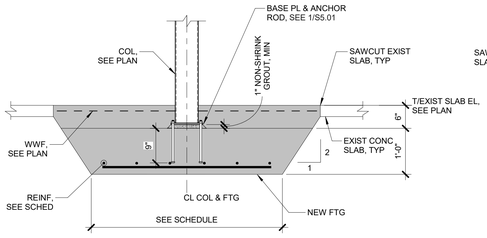
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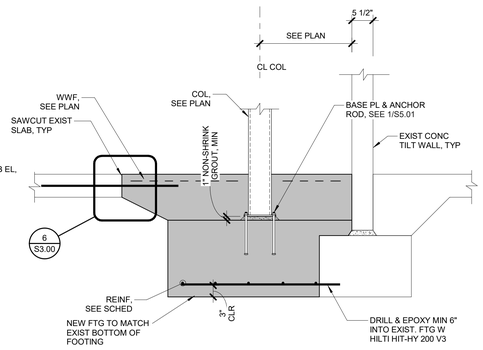
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design. CD
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project. 25.18

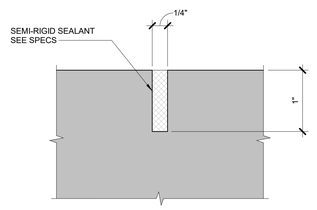
S2.32



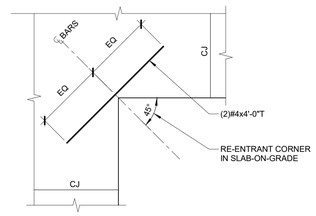
1 INTERIOR COLUMN FOOTING
NO SCALE



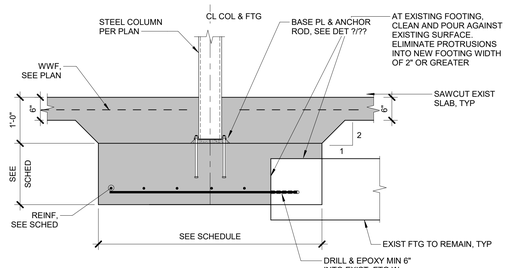
2 FOOTING AT EXISTING WALL
NO SCALE



3 SAWCUT JOINT w/ SEMI-RIGID FILLER
NO SCALE
2010-02



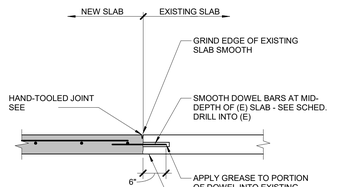
4 PLAN AT RE-ENTRANT CORNER
NO SCALE
2010-08



NOTE:
1. SPECIAL INSPECTION REQUIRED FOR ALL EPOXY INSTALLATIONS

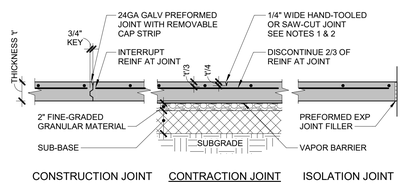
2. USE ONLY SIMPSON SET-XP EPOXY PER ICC ESR-2508

5 STEEL COLUMN AT EXISTING FOOTING
NO SCALE



SLAB THICKNESS	SMOOTH DOWEL
4"	1/2"Ø x1'-4"@18"
5"	3/4"Ø x1'-4"@12"
6"	
> 6"	1"Ø x1'-4"@12"

6 NEW TO EXISTING SLAB-ON-GRADE CONNECTION
NO SCALE
2020-08

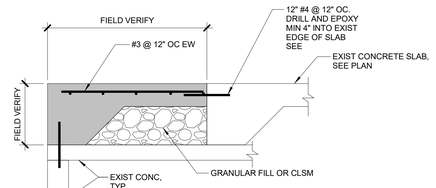


CONSTRUCTION JOINT CONTRACTION JOINT ISOLATION JOINT

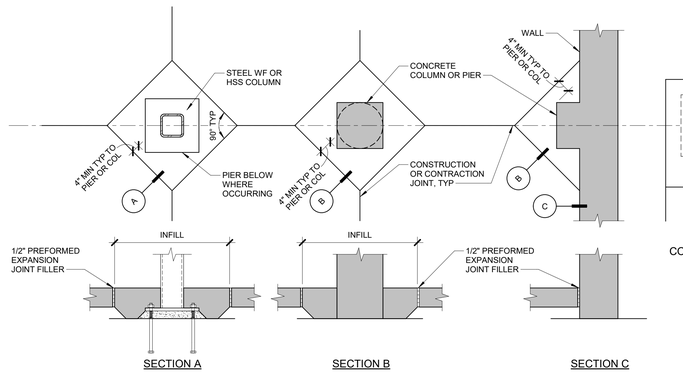
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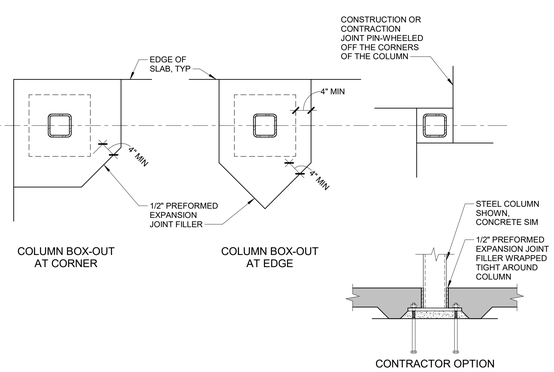
1. FOR SAW-CUT JOINTS, USE A "SOFF-CUT" ULTRA EARLY ENTRY DRY-CUT SAW OR APPROVED EQUIVALENT. JOINTS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF FINISHING OPERATIONS.
2. SEE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ANY JOINT SEALANT REQUIREMENTS.

7 SLAB-ON-GRADE CONSTRUCTION
NO SCALE
2020-01

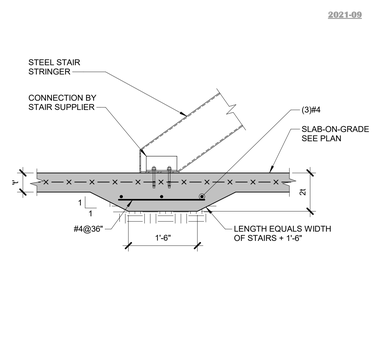


8 DOCK LEVELER INFILL
3/4" = 1'-0"





9 SLAB-ON-GRADE JOINTS AT COLUMNS / PIERS / WALLS
NO SCALE
2010-03



10 THICKENED SLAB AT STEEL STAIR STRINGER
3/4" = 1'-0"
2021-09

CLASS B TENSION LAP SPLICE LENGTH			
REINF STEEL, Fy	BAR SIZE	BAR LOCATION	CONCRETE STRENGTH, f'c 3 KSI
60 KSI	#3	TOP	2'-4"
		OTHER	1'-10"
	#4	TOP	3'-2"
		OTHER	2'-5"
	#5	TOP	3'-11"
		OTHER	3'-0"
	#6	TOP	4'-8"
		OTHER	3'-7"

NOTES:

1. SPLICE LENGTHS SHOWN ARE APPLICABLE FOR SPLICES OCCURRING UNDER THE FOLLOWING CONDITIONS.
   A. NORMAL-WEIGHT CONCRETE
   B. MIN BAR SPACING REQUIREMENTS:
      a. CLEAR SPACING BETWEEN BARS AT SPLICE LOCATION > BAR DIAMETER, CLEAR COVER TO BARS > BAR DIAMETER, AND TIES OR STIRRUPS OCCUR PER CODE SPACING WITHIN LENGTH OF SPLICE; OR
      b. CLEAR SPACING BETWEEN BARS AT SPLICE ≥ 2 x BAR DIAMETER AND CLEAR COVER > BAR DIAMETER
2. INDICATED SPLICE LENGTHS SHALL BE INCREASED BY THE LISTED FACTORS WHERE THE FOLLOWING CONDITIONS EXIST.

CONDITION	SPLICE LENGTH MULTIPLIER*
A. BAR SPACING OR CLEAR COVER IS LESS THAN REQUIRED PER NOTE 1	1.5
B. LIGHTWEIGHT CONCRETE	1.3

3. TOP BARS ARE HORIZ BARS LOCATED WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BARS.
4. USE SMALLER BAR SIZE TO DETERMINE LENGTH WHERE SPLICING BARS OF DIFFERENT SIZES.

11 CLASS B TENSION LAP SPLICE LENGTHS
NO SCALE
3010-01

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contents:
TYPICAL FOUNDATION SECTIONS AND SCHEDULES

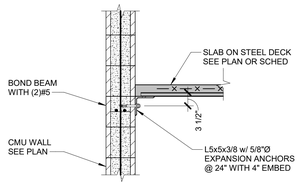
design. CD
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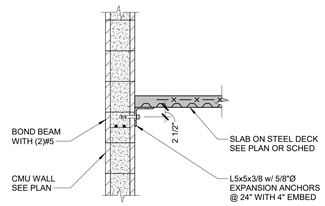
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PROJECT #26021062.00

S3.00



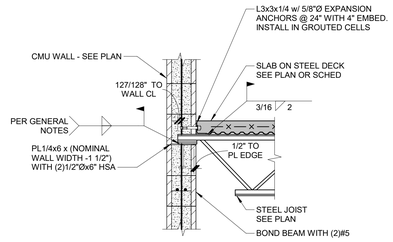
1 SLAB ON DECK BEARING AT CMU WALL

NO SCALE
4300-01



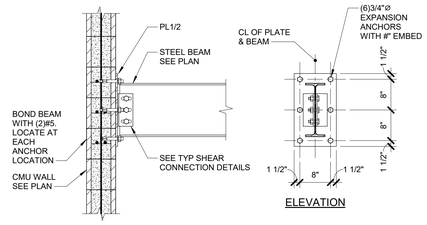
2 FLOOR SLAB ON DECK PARALLEL TO WALL

NO SCALE
4300-03



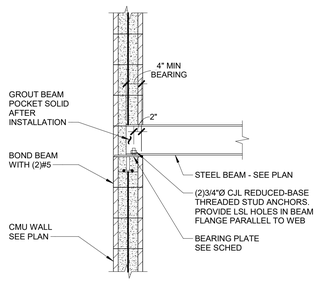
3 FLOOR JOIST BEARING ON EXTERIOR CMU WALL

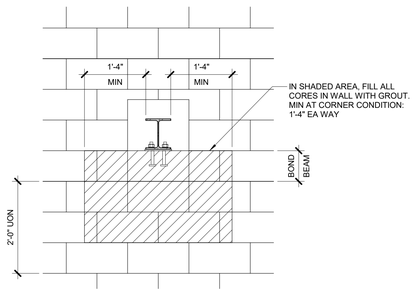
NO SCALE
4300-04



4 FLOOR/ROOF BEAM CONNECTION AT CMU WALL

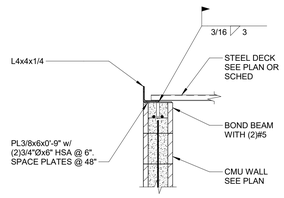
NO SCALE
4300-10





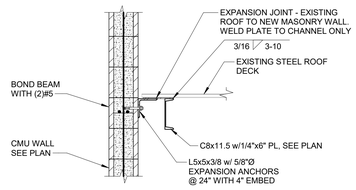
5 HOIST BEAM SUPPORT ON CMU WALL

NO SCALE
4300-14



EDGE OF DECK BEARING ON CMU WALL

NO SCALE
4500-04



7 EXIST. ROOF DECK TO CMU WALL

NO SCALE
4300-01

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issue for construction:

revisions:
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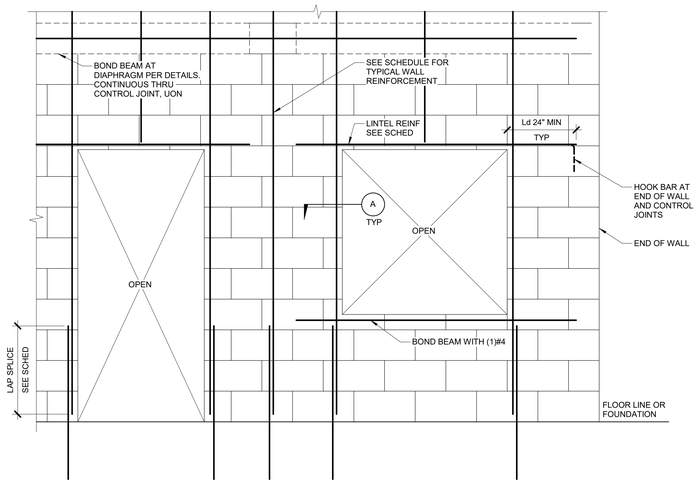
0 1 2 3
REF. SCALE IN INCHES

PROJECT #250211062.00

contents:
TYPICAL CMU SECTIONS

design. CD
date. 2026.09.11
project. 25.18

S4.00

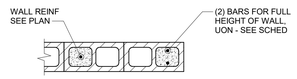


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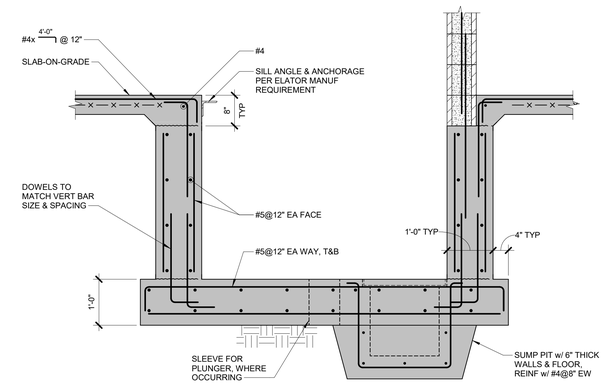
1. SEE PLAN FOR CONTROL JOINT LOCATIONS. NO CONTROL JOINTS PERMITTED WITHIN 2'-0" OF OPENING.
2. SEE PLAN AND ARCH FOR SIZE AND LOCATIONS OF OPENINGS.

1 CMU WALL OPENING REINFORCING

NO SCALE
4200-04



SECTION A



NOTES:

1. SEE ARCH DWGS FOR DIMENSIONS.
2. VERIFY PIT DEPTH WITH ELEVATOR MANUF DWGS.
3. SEE ARCH AND MECH DWGS FOR LOCATION, PIT SIZE, DEPTH AND COVER DETAILS OF SUMP PIT.

2 ELEVATOR PIT

NO SCALE
2900-02

CMU REINFORCING BAR LAP/ DEVELOPMENT LENGTH (L_d) SCHEDULE f'm=2000 PSI

CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L_d	REMARKS
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	13"	
		#5	20"	
		#6	38"	
		#7	52"	

NOTES:

1. PROVIDE LAP SPLICE LENGTHS TO MATCH Ld VALUES PROVIDED IN SCHED OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
2. DOWEL EMBED INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.

3 f'm=2000 REINFORCING BAR LAP/DEVELOPMENT LENGTH (Ld)

NO SCALE
4010-01

CMU WALL REINFORCING SCHEDULE

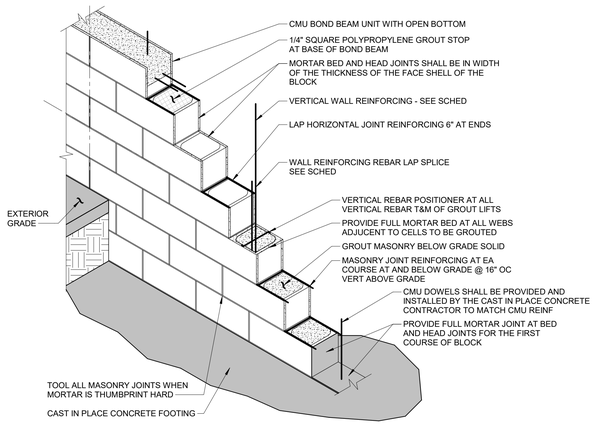
MARK (MW#)	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5@8"	-

LINTEL SCHEDULE

MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	16" BOND BEAM WITH (2) #5	-	FULL WALL WIDTH

NOTE:

1. BEARING LENGTH EA END = 8" UON.



NOTE:

1. MASONRY SHALL BE CONSTRUCTED IN LIFTS OF 5'-4" OR LESS. AT LOCATIONS MID HEIGHT IN MASONRY THE GROUT SHALL BE HELD DOWN 1 1/2" FROM THE TOP OF THE MASONRY.

4 TYPICAL CMU WALL CONSTRUCTION

NO SCALE
4200-09

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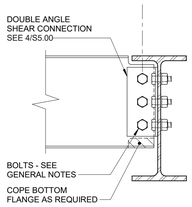
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TYPICAL CMU SECTIONS

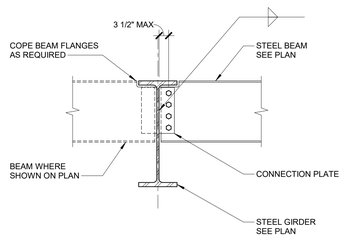
design. CD
date. 2026.09.11
project. 25.18

S4.01



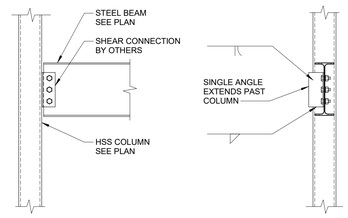
1 DOUBLE ANGLE SHEAR CONNECTION

NO SCALE
5155-01



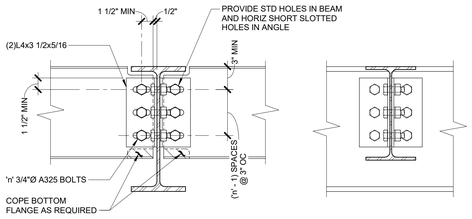
2 SINGLE-PLATE SHEAR CONNECTION TO BEAM

NO SCALE
5155-02



3 SINGLE ANGLE CONNECTION AT SMALL HSS COLUMN

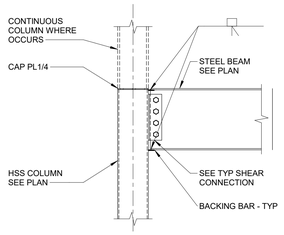
3/4" = 1'-0"
5155-13



DOUBLE ANGLE CONN	
SUPPORTED BEAM	**'n'**
W8, W10	2
W12, W14	3
W16	4
W18	5

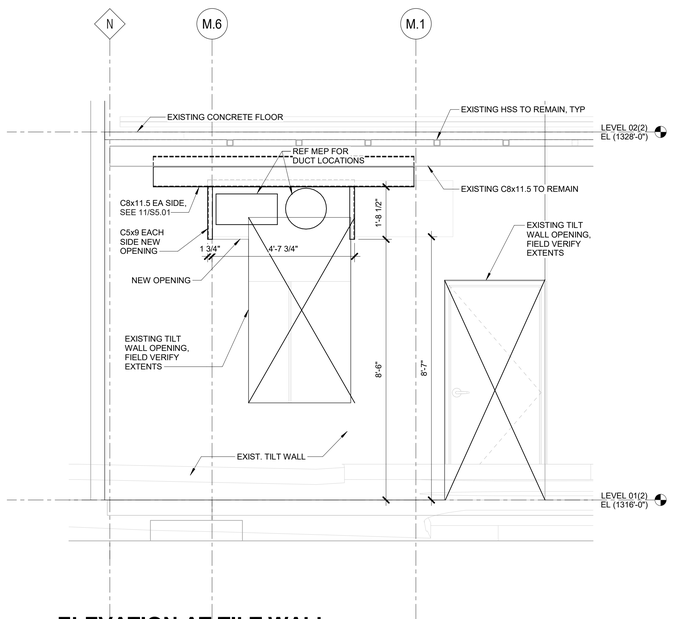
4 DOUBLE ANGLE SHEAR CONNECTION

NO SCALE
5150-01



5 WF CONNECTION TO HSS COLUMN

NO SCALE
5150-13



6 ELEVATION AT TILT WALL PENETRATION

1/2" = 1'-0"

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contents.
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design. CD
date. 2026.09.11
project. 25.18

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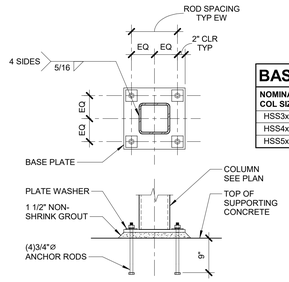
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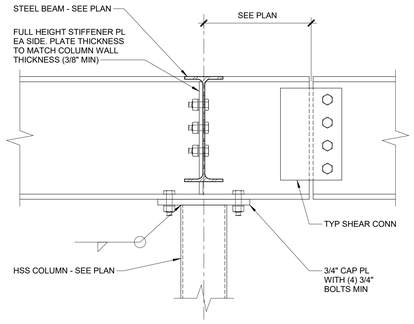
SEE AISC MANUAL PART 14 FOR REQD BASE PLATE HOLE AND PLATE WASHER DIMENSIONS



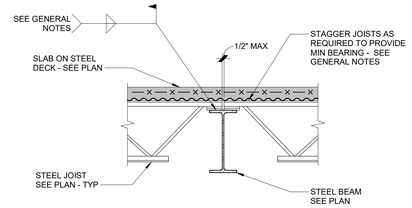
BASE PLATE SCHED

NOMINAL COL SIZE	ROD SPACING	BASE PLATE SIZE
HSS3x3	7"	PL3/4x12x1'-0"
HSS4x4	7"	PL3/4x12x1'-0"
HSS5x5	8"	PL1x14x1'-2"

1 HSS COLUMN BASE PLATE
NO SCALE
5100-05



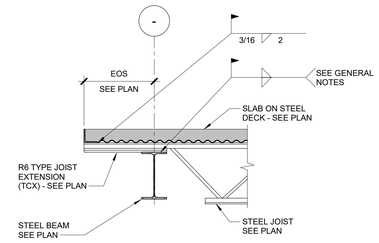
2 BEAM BEARING ON HSS COLUMN
NO SCALE
5135-01



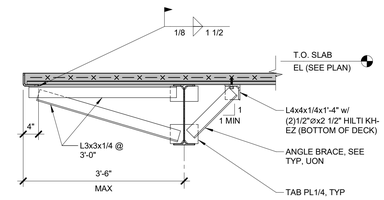
NOTE:

1. JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. SEE GENERAL NOTES FOR BOLT DIAMETER.

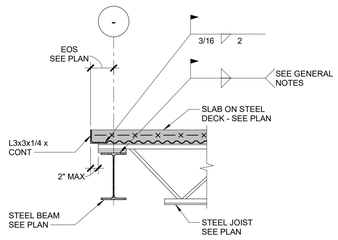
3 FLOOR JOIST BEARING AT BEAM
NO SCALE
5410-01



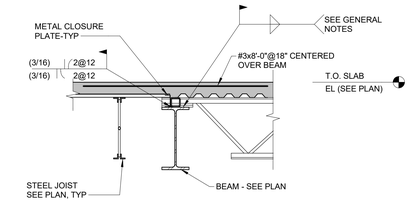
4 JOIST EXTENSION AT SLAB EDGE
NO SCALE
5410-03



5 EXTENDED EXTERIOR SLAB EDGE
NO SCALE
5300-05



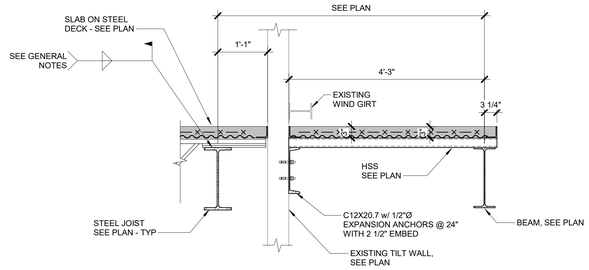
6 FLOOR JOIST BEARING AT SLAB EDGE
NO SCALE
5410-02



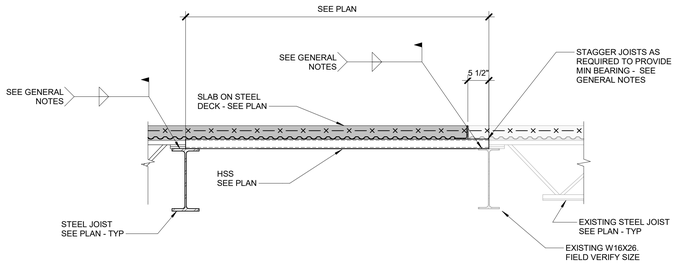
NOTES:

1. HSS 2 1/2"x2 1/2"x1/4" FOR K-SERIES JOISTS.

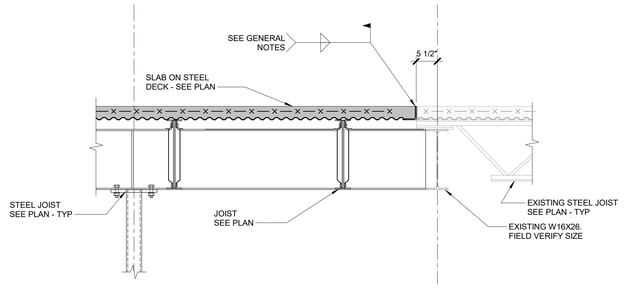
7 DECK DIRECTION CHANGE IN SLAB ON DECK
NO SCALE
5301-13



8 FLOOR JOIST BEARING AT BEAM
NO SCALE
5410-01

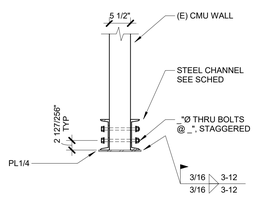


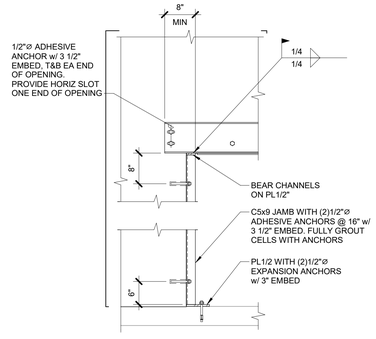
9 FLOOR JOIST BEARING AT BEAM
NO SCALE
5410-01



10 FLOOR JOIST BEARING AT BEAM
NO SCALE
5410-01

4270-01





NOTES:

1. GROUT EXISTING COURSE AS SHOWN.
2. INSTALL CHANNEL LINTEL.
3. REMOVE END 1'-0" OF WALL AND INSTALL CHANNEL JAMBS.
4. REMOVE REMAINING MASONRY BELOW CHANNEL IN ALTERNATING 24" WIDTHS.
5. INSTALL BOTTOM PLATES IN ALTERNATING 24" WIDE SEGMENTS.

11 CHANNEL LINTEL IN EXISTING WALL
NO SCALE
4270-01

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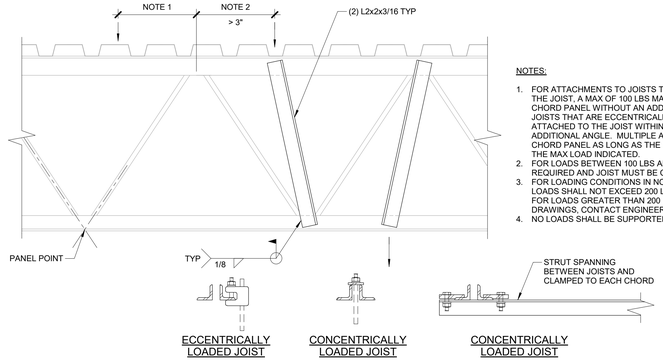
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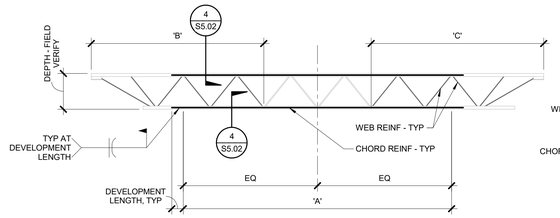


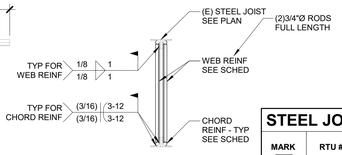
NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 LBS AND 200 LBS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

1 EXISTING JOIST CONCENTRATED LOAD REINFORCEMENT

NO SCALE
9200-01





NOTES:

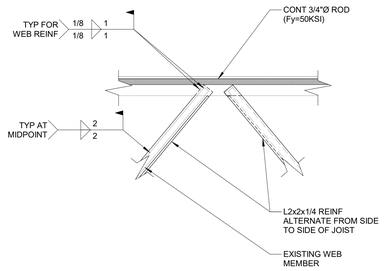
1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINF MUST BE INSTALLED.
3. JOIST SHALL BE SHORED.
4. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.

STEEL JOIST REINFORCING SCHEDULE

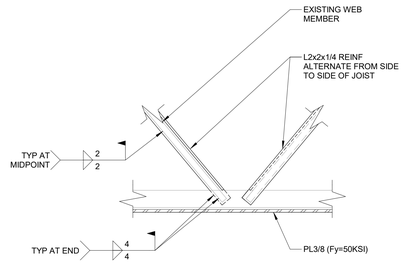
MARK	RTU #	CHORD REINFORCING			WEB REINFORCING			REMARKS
		SIZE	'A'	DEVELOPMENT LENGTH	SIZE	'B'	'C'	
J1		(2) X3/4"Ø GR50 RODS	12'-0"	0'-6"	L2X2X3/16	7'-0"	12'-0"	

2 JOIST WEB / CHORD REINFORCEMENT

NO SCALE
9200-02



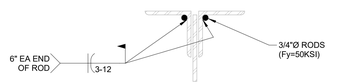
TOP CHORD



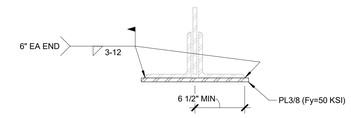
BOTTOM CHORD

3 EXISTING JOIST WEB AND CHORD REINFORCEMENT

NO SCALE
9200-08



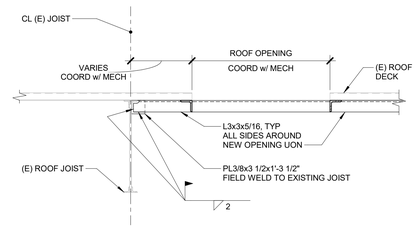
TOP CHORD



BOTTOM CHORD

4 TOP AND BOTTOM CHORD REINFORCEMENT

NO SCALE
9200-09



COORDINATE SIZE AND LOCATION OF OPENINGS WITH MECHANICAL DRAWINGS AND APPROVED EQUIPMENT LAYOUT

5 NEW OPENING FRAMING AT EXISTING ROOF JOIST

NO SCALE
9200-10

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

mark	date	description

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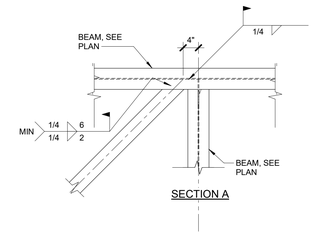
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REF. SCALE IN INCHES

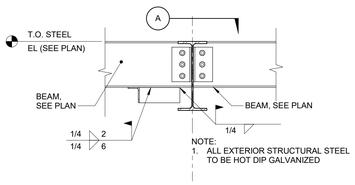
PROJECT #25021062.00

contents.
STEEL - BAR JOISTS DETAILS

design. CD
date. 2026.09.11
project. 25.18

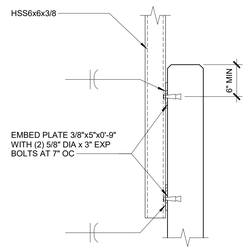
S5.02





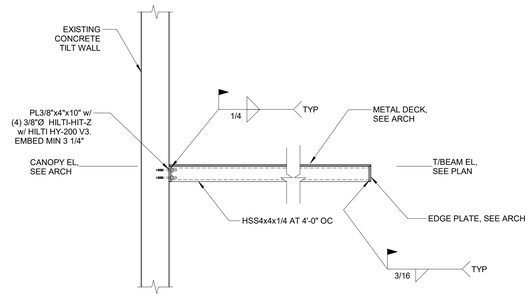
1 MECHANICAL PLATFORM HORIZONTAL BRACING

NO SCALE
8120-05



2 COL AT TILT WALL

1" = 1'-0"



3 EXTERIOR CANOPY SUPPORT

3/4" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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contents.
STEEL ROOF SECTIONS

design. CD
date. 2026.09.11
project. 25.18

S5.20

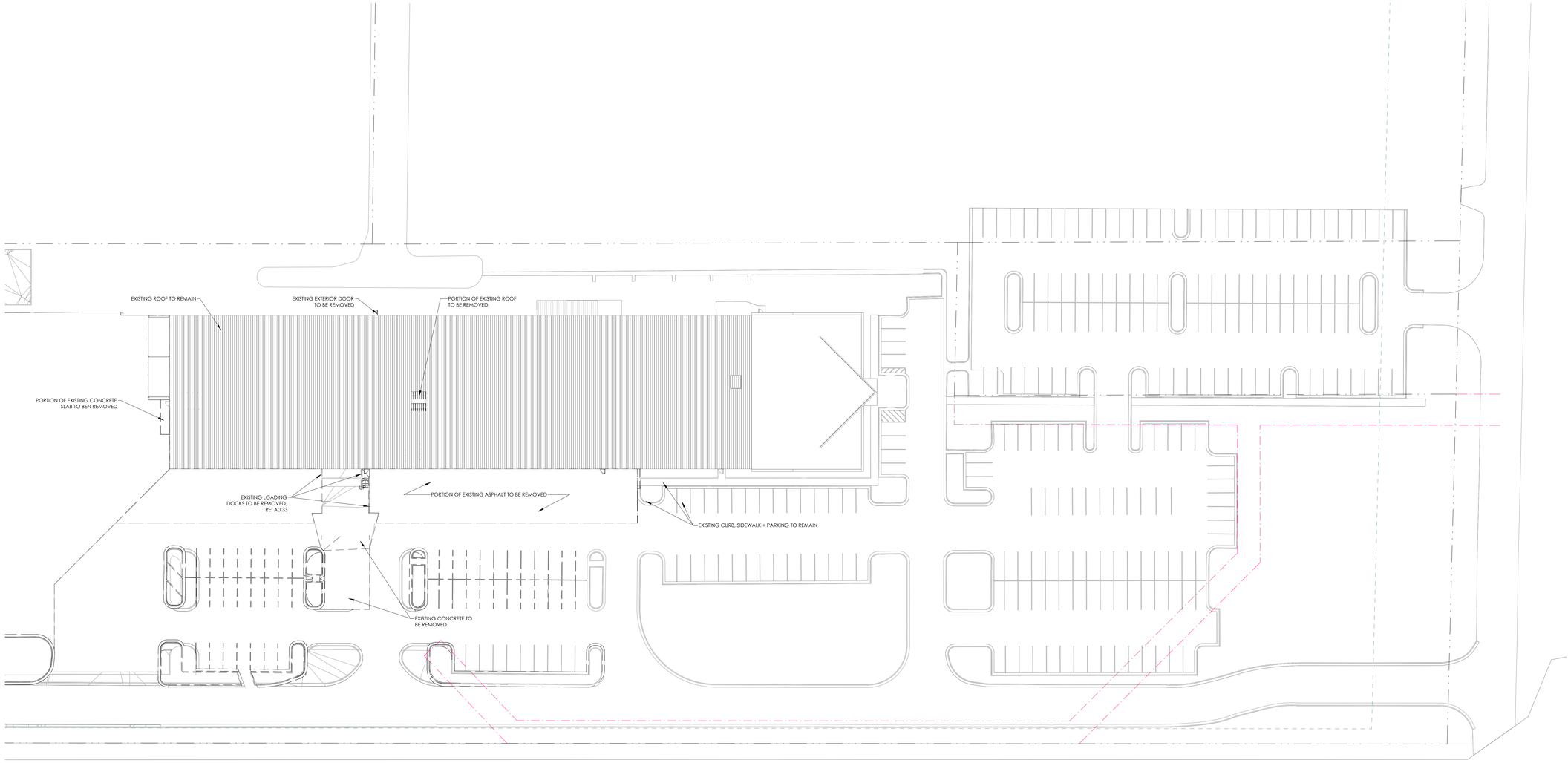
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0 1 2 3
REF. SCALE IN INCHES

PROJECT #25021062.00



D1 DEMO SITE PLAN (A2.01) 1" = 30'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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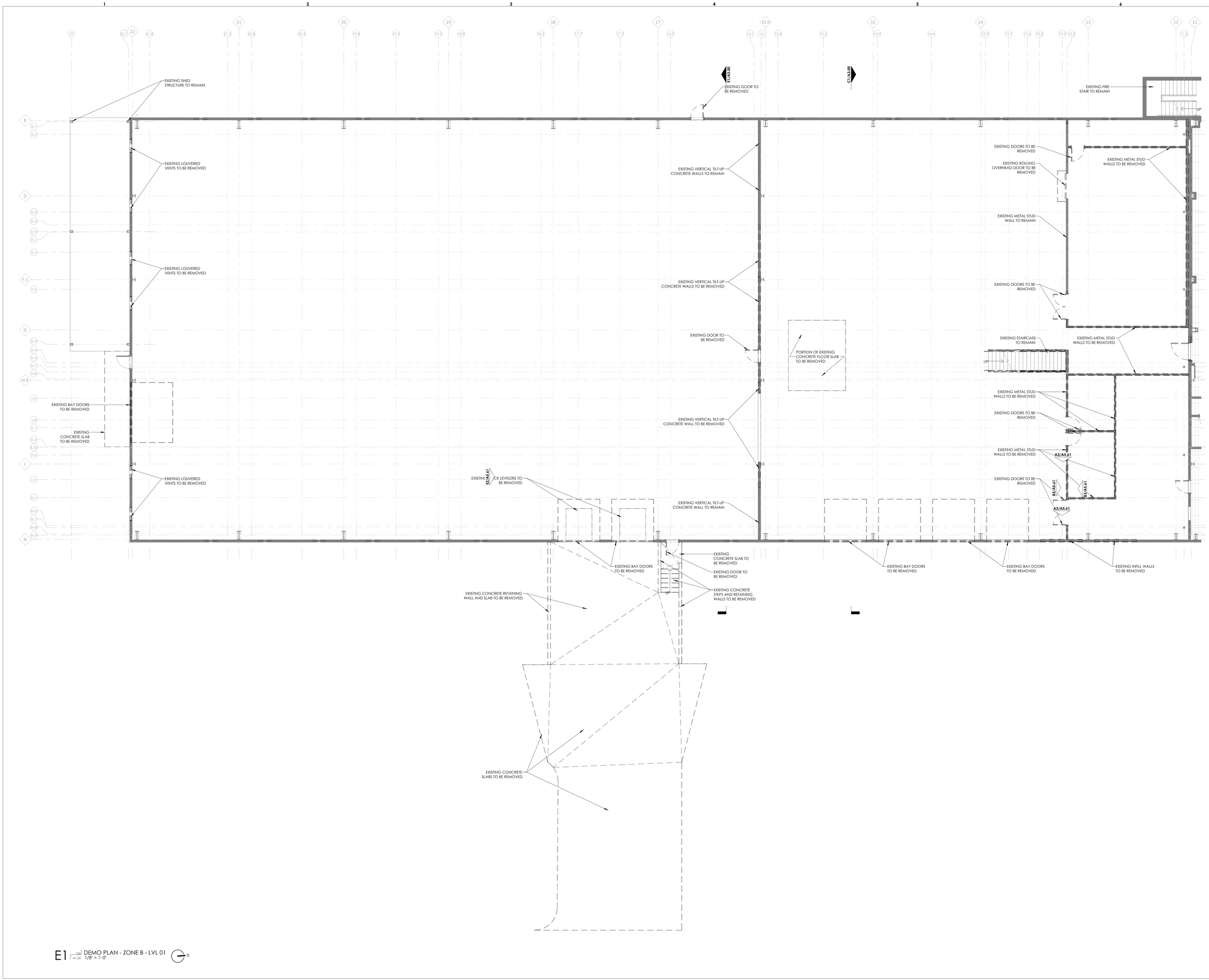
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contents.
DEMO SITE PLAN

design. CD
date. 2026.09.11
project. 25.18

A0.30



E1 DM A1.20 DEMO PLAN - ZONE B - LVL 01
1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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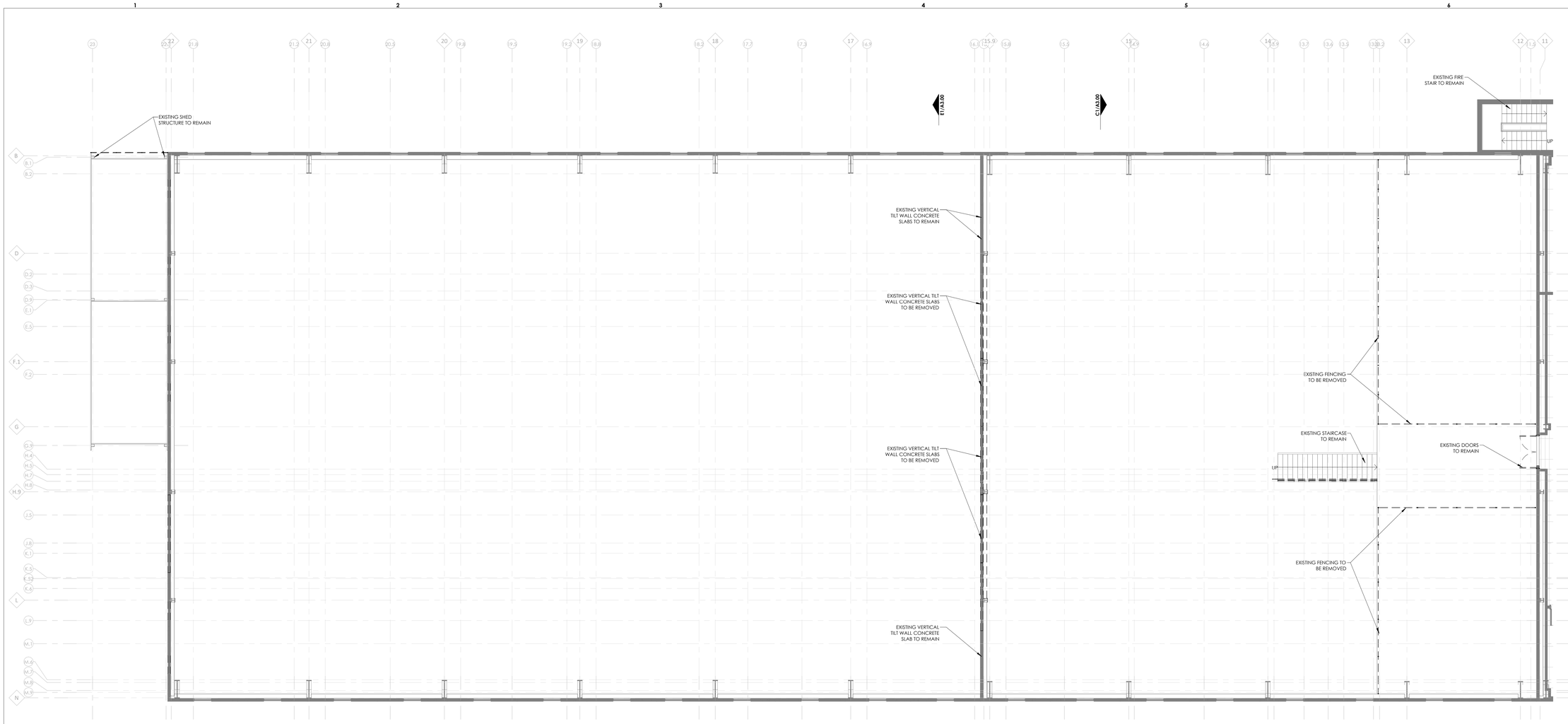
REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents.
DEMO PLAN - ZONE B - LEVEL 01

design. CD
date. 2026.09.11
project. 25.18

A0.33



E1 DEMO PLAN - ZONE B - LVL 02 - PHASE 1
1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
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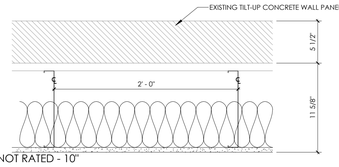
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design. CD
date. 2026.09.11
project. 25.18

A0.34

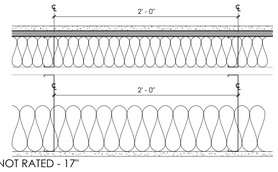
EXTERIOR WALL TYPES

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 10" @ 24" O.C.
BATT INSULATION, 6"
AIR SPACE, 1"



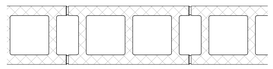
EM01 — PARTITION - NOT RATED - 10"
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
WEATHER BARRIER
PLYWOOD SHEATHING, 1/2"
METAL STUDS, 4" @ 24" O.C.
BATT INSULATION, 6"
AIR SPACE, 1"
METAL STUDS, 10" @ 24" O.C.
BATT INSULATION, 4"
GYPSUM WALL BOARD, 5/8"



EM02 — PARTITION - NOT RATED - 17"
1 1/2" = 1'-0"

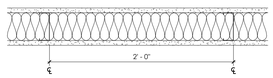
CMU BLOCK, 8"



EM03 — PARTITION - CMU BLOCK
1 1/2" = 1'-0"

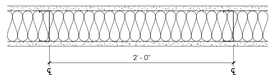
INTERIOR WALL TYPES

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 3 5/8" @ 24" O.C.
SOUND BATT INSULATION, 3 5/8"
GYPSUM WALL BOARD, 5/8"



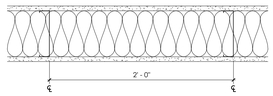
IM01 — PARTITION - NOTE RATED - 3 5/8"
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 4" @ 24" O.C.
SOUND BATT INSULATION, 4"
GYPSUM WALL BOARD, 5/8"



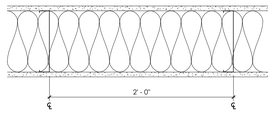
IM02 — PARTITION (IM02) - NOT RATED - 4"
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 6" @ 24" O.C.
SOUND BATT INSULATION, 6"
GYPSUM WALL BOARD, 5/8"



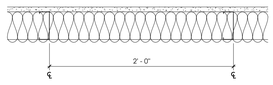
IM03 — PARTITION (IM03) - NOT RATED - 6"
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 8" @ 24" O.C.
SOUND BATT INSULATION, 8"
GYPSUM WALL BOARD, 5/8"



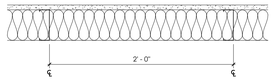
IM04 — PARTITION (IM04) - NOT RATED - 8"
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 3-5/8" @ 24" O.C.
SOUND BATT INSULATION, 3-5/8"



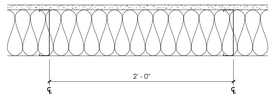
IM05 — PARTITION (IM05) - NOT RATED - 3 5/8" - ONE SIDE GYP
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 4" @ 24" O.C.
SOUND BATT INSULATION, 4"



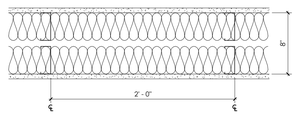
IM07 — PARTITION (IM07) - NOT RATED - 4" - ONE SIDE GYP
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 6" @ 24" O.C.
SOUND BATT INSULATION, 6"



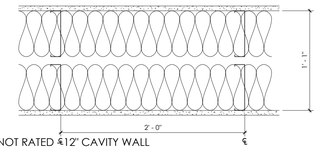
IM08 — PARTITION (IM08) - NOT RATED - 6" - ONE SIDE GYP
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 3-5/8" @ 24" O.C.
SOUND BATT INSULATION, 3-5/8"
AIR GAP, 3/4"
METAL STUDS, 3-5/8" @ 24" O.C.
SOUND BATT INSULATION, 3-5/8"
GYPSUM WALL BOARD, 5/8"



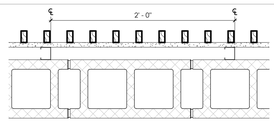
IM10 — PARTITION - NOT RATED - 8" CAVITY WALL
1 1/2" = 1'-0"

GYPSUM WALL BOARD, 5/8"
METAL STUDS, 6" @ 24" O.C.
SOUND BATT INSULATION, 6"
AIR GAP, 1"
METAL STUDS, 6" @ 24" O.C.
SOUND BATT INSULATION, 6"
GYPSUM WALL BOARD, 5/8"



IM11 — PARTITION - NOT RATED - 12" CAVITY WALL
1 1/2" = 1'-0"

WOOD SCREEN, NOMINAL 1x2 @ 3" O.C.
GYPSUM WALL BOARD, 5/8"
METAL STUDS, 1 5/8" @ 24" O.C.
CMU BLOCK, 8"

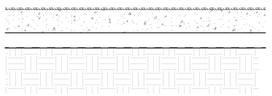


IM12 — PARTITION - CMU BLOCK
1 1/2" = 1'-0"

FLOOR TYPES

FINISHED FLOORING
REFER TO FLOOR PLANS
CONCRETE SLAB+ METAL DECK, 3"
RE: STRUCTURE

REFER TO RCP FOR CEILING/SOFFIT

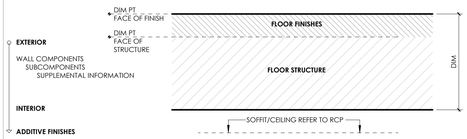


F01 — FLOOR - 3" COMPOSITE METAL DECK
1 1/2" = 1'-0"

CONCRETE SLAB, 6"
RE: STRUCTURE



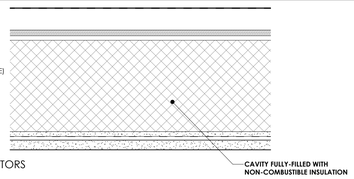
F02 — FLOOR - 6" CONCRETE SLAB
1 1/2" = 1'-0"



ASSEMBLY TYPE DIAGRAM - FLOOR/CEILING

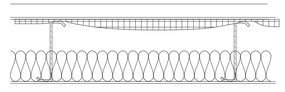
ROOF TYPES

TPO MEMBRANE, 60 MIL
TAPERED INSULATION AT CRICKETS
(2) LAYER RIGID INSULATION, (MIN. R-20)
STAGGER SEAMS
PLYWOOD DECKING (RE: STRUCTURE)
PRE-ENGINEERED ROOF TRUSSES (RE: STRUCTURE)
NON-COMBUSTIBLE BLOWN-IN
INSULATION (MIN. R-21)
GYPSUM BOARD, 5/8" TYPE 'C'
RESILIENT CHANNEL, 1/2"
(2) LAYERS GYPSUM BOARD, 5/8" TYPE 'C'

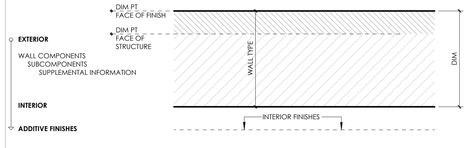


R01 — ROOF - AT ELEVATORS
1 1/2" = 1'-0"

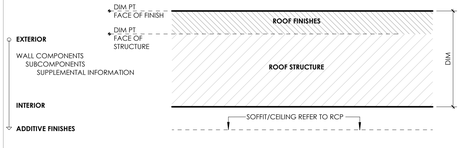
METAL DECKING
EXISTING INSULATION
SIMPLE SAVER ROOF SYSTEM



R02 — ROOF - SIMPLE SAVER SYSTEM
1 1/2" = 1'-0"



ASSEMBLY TYPE DIAGRAM - WALL



ASSEMBLY TYPE DIAGRAM - ROOF

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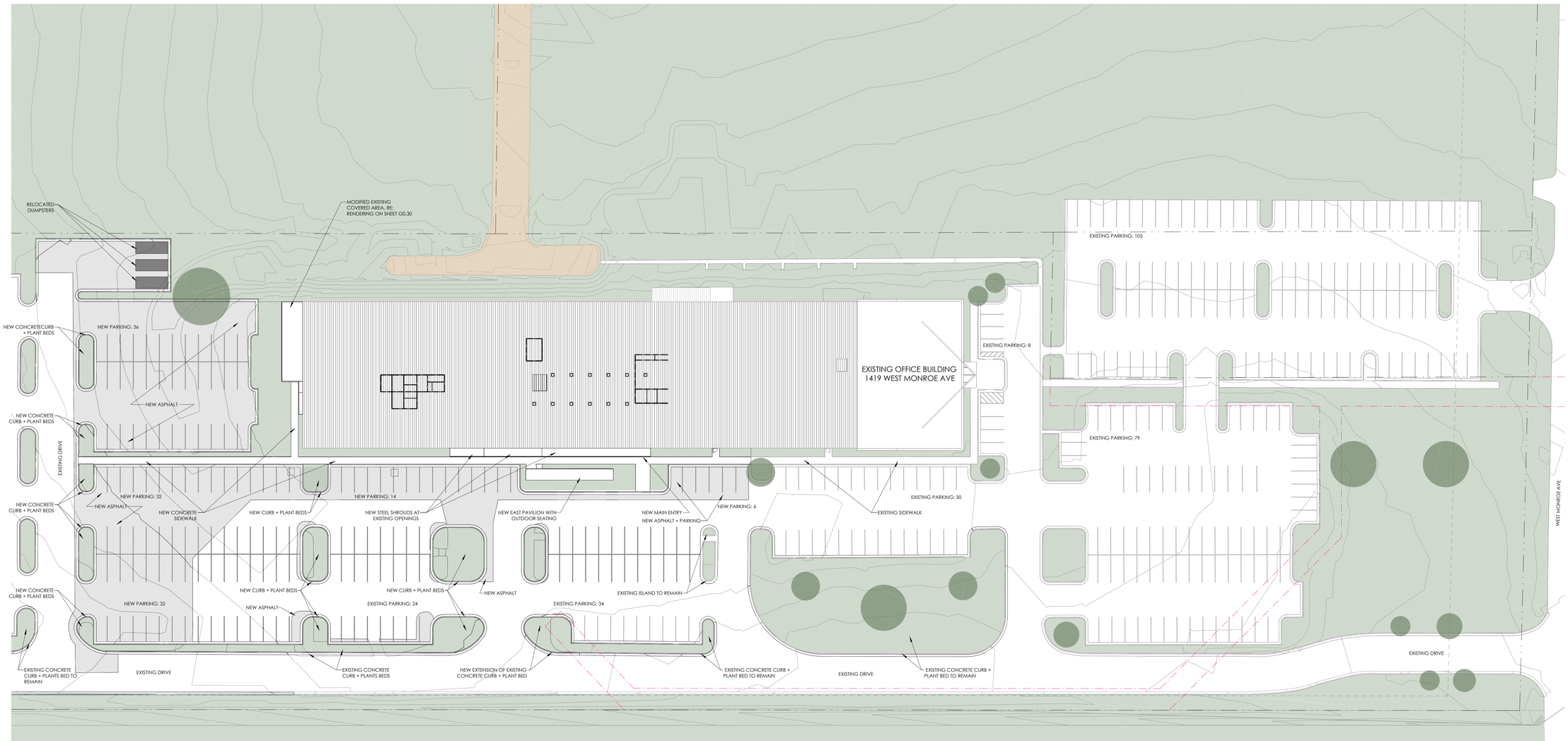
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contents:
ASSEMBLY TYPES - EXTERIOR, INTERIOR, FLOOR, + ROOF

design. CD
date. 2026.09.11
project. 25.18

A0.40



EXISTING PARKING:	280
NEW PARKING:	120
TOTAL PARKING:	400

D1 A1 / A2.01 SITE PLAN 1" = 30'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

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contents:
ARCHITECTURAL SITE PLAN

design. CD
date. 2026.09.11
project. 25.18

A1.00

FLOOR FINISH KEY (RE: INTERIOR FINISH LEGEND)

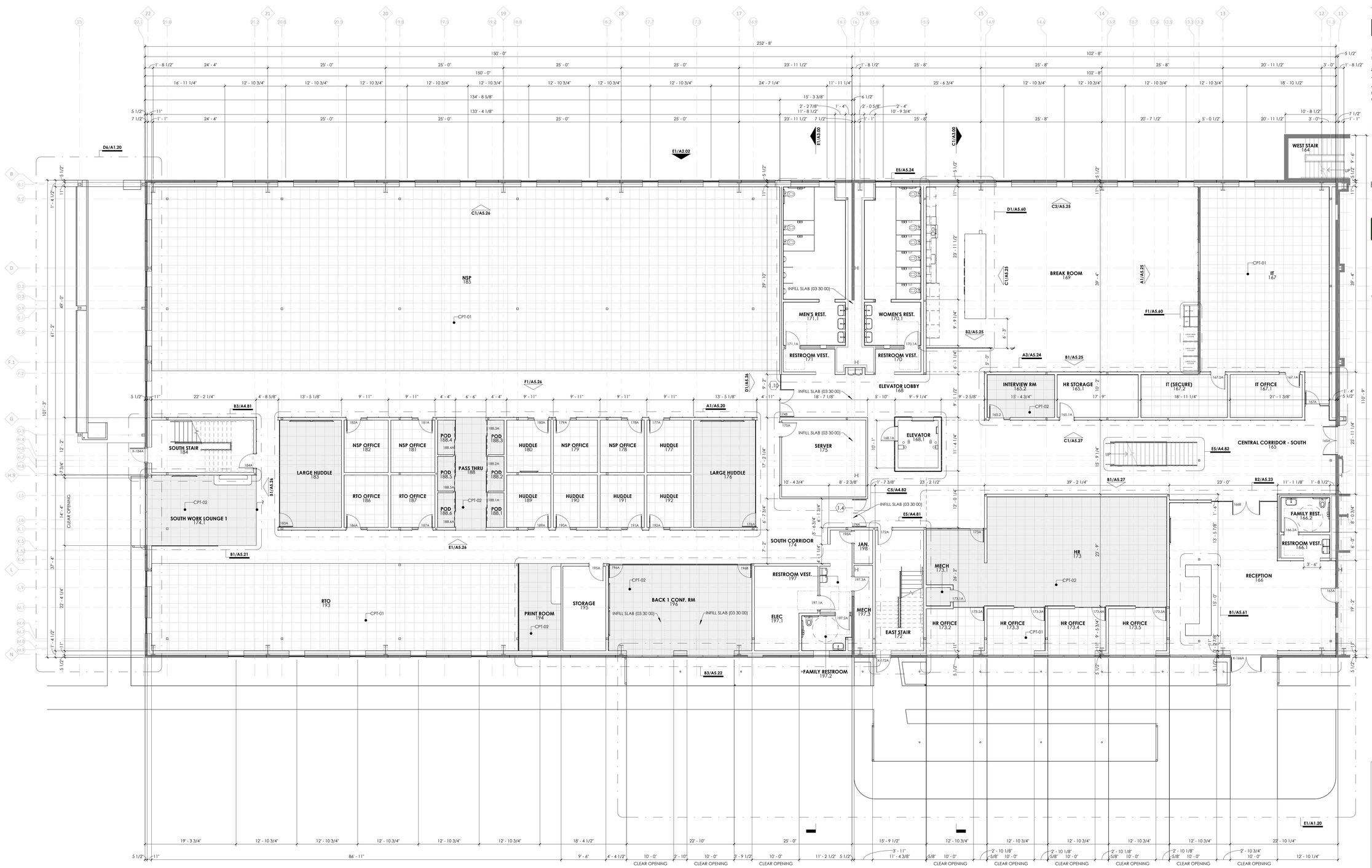
SC-01 (SEALED CONCRETE)

CPT-01 (CARPET TILE)

CPT-02 (CARPET TILE)

INTERIOR FINISH GENERAL NOTES:

1. ALL GYP BD WALLS SHALL BE PAINTED P-01, UNLESS OTHERWISE NOTED.
2.



E1 D|1 SYMBOL + DIMENSION PLAN - ZONE B - LVL 01
A1.20 1/8" = 1'-0"

issue for review: 2026.08.05
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issue for construction:

revisions:
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contents:
SYMBOL + DIMENSION PLAN - ZONE B - LEVEL 01 - PHASE 1

design. CD
date. 2026.09.11
project. 25.18

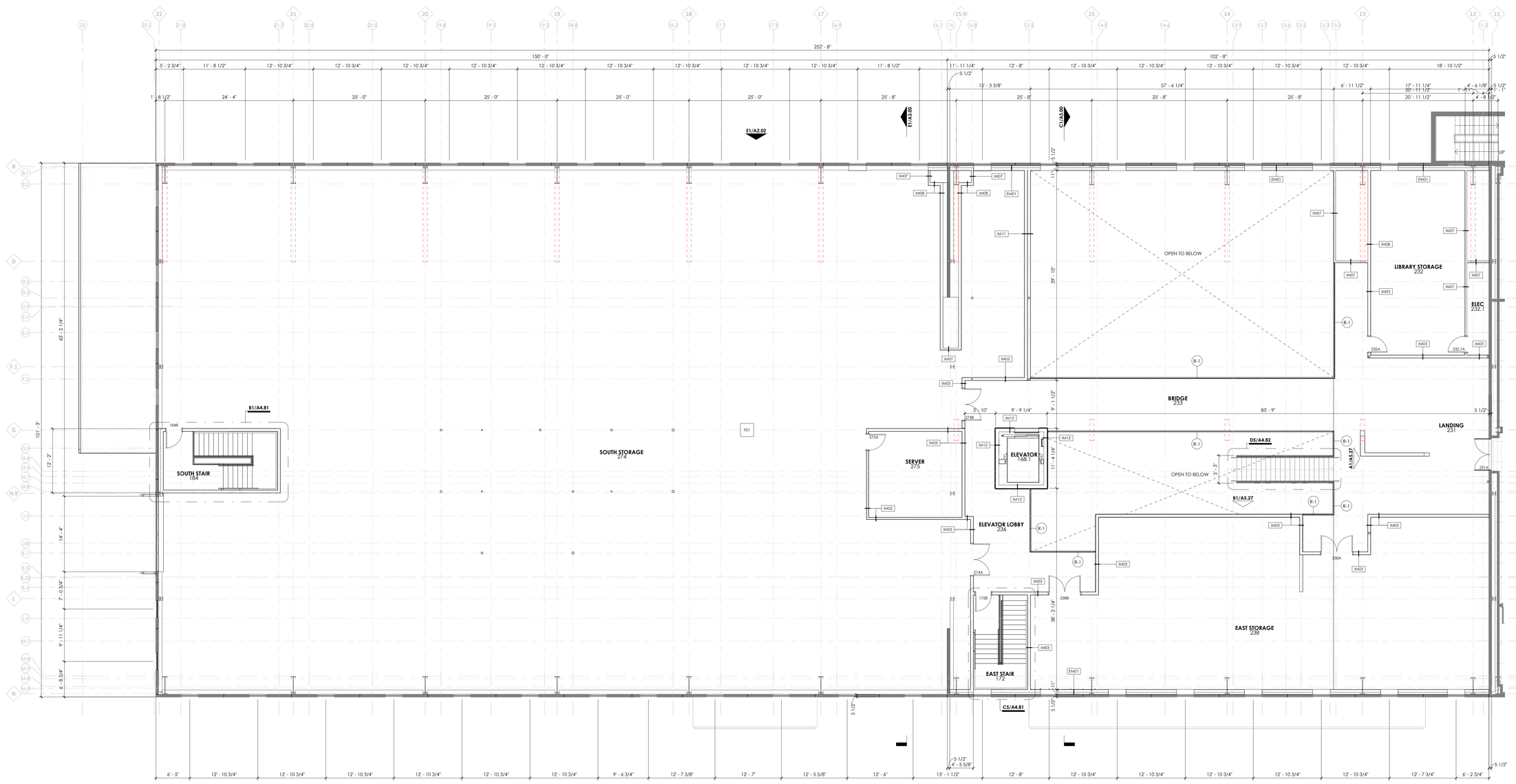
A1.10

FLOOR FINISH KEY (RE: INTERIOR FINISH LEGEND)

SC-01 (SEALED CONCRETE)

CPT-01 (CARPET TILE)

CPT-02 (CARPET TILE)



E1 SYMBOL + DIMENSION PLAN - ZONE B - LVL 02 - PHASE 1
A1.20 1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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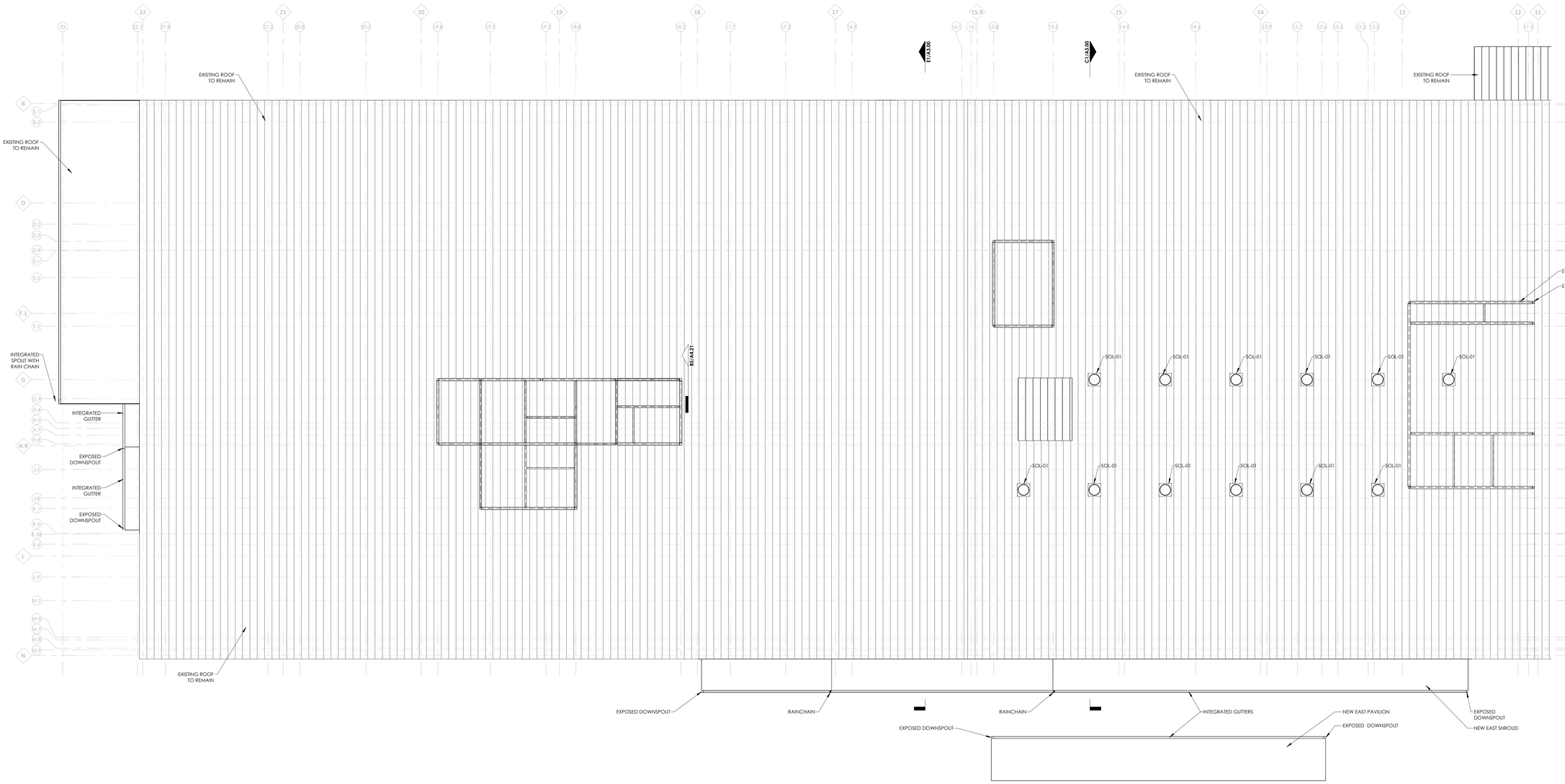
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contents.
SYMBOL + DIMENSION PLAN - ZONE B - LEVEL 02 - PHASE 1

design. CD
date. 2026.09.11
project. 25.18

A1.11



E1 D4 / A1.20 ROOF PLAN - ZONE B - PHASE 1
1/8" = 1'-0"

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revisions:
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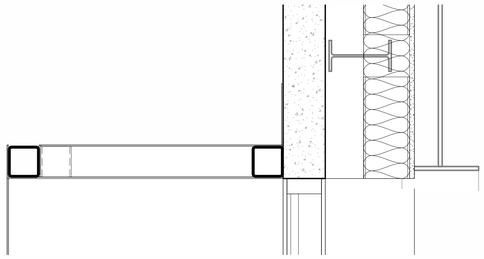
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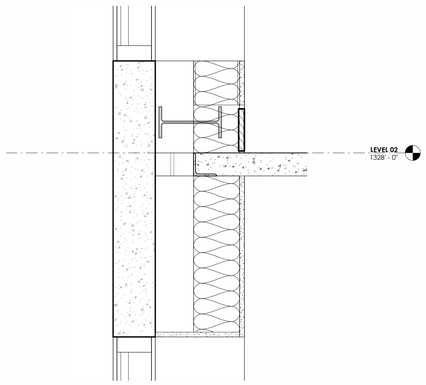
contents:
SYMBOL + DIMENSION PLAN - ZONE B - ROOF - PHASE 1

design: CD
date: 2026.09.11
project: 25.18

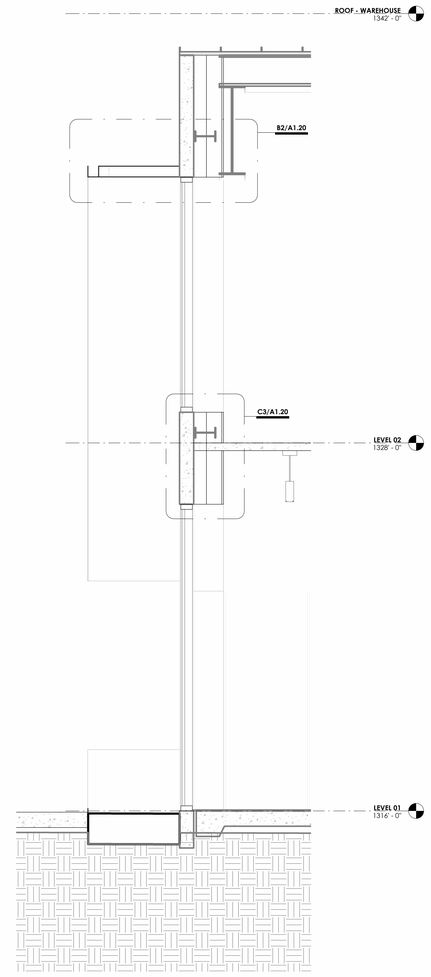
A1.12



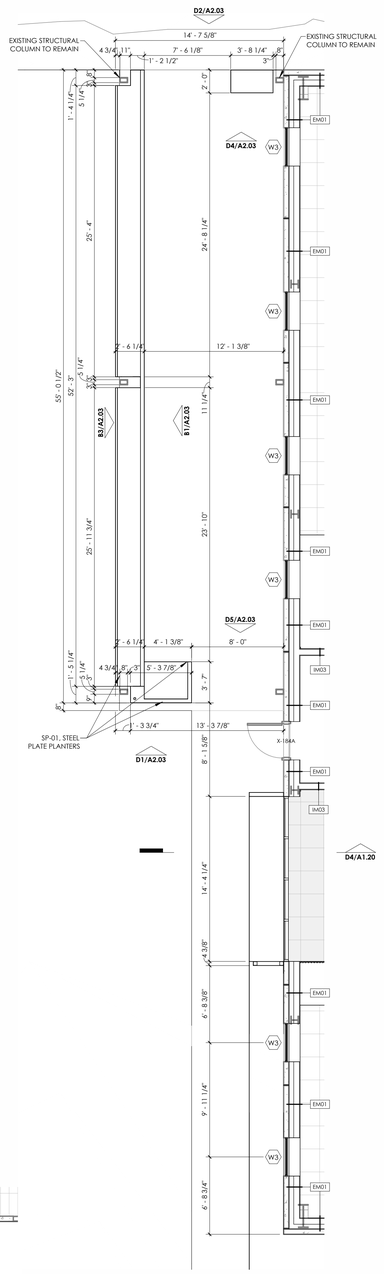
B2 [detail] A1.20 SECTION DETAIL - EXTERIOR SOUTH SHROUD - HEAD
1 1/2" = 1'-0"



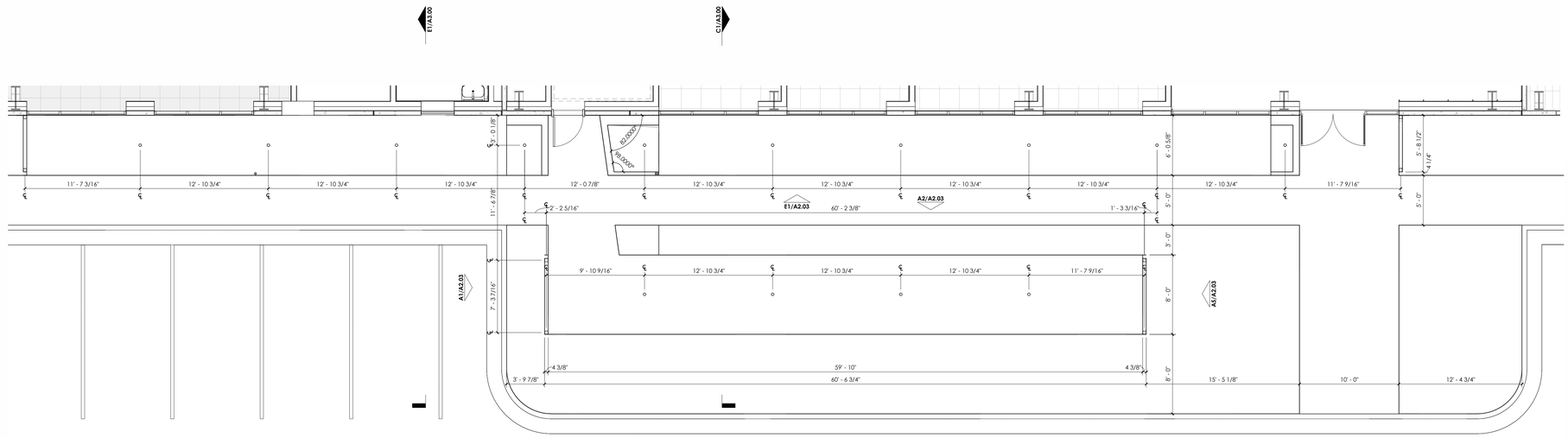
C3 [detail] A1.20 SECTION DETAIL - EXTERIOR - SOUTH STOREFRONT AT MEZZANINE
1 1/2" = 1'-0"



D4 [detail] A1.20 WALL SECTION - ZONE B - EXTERIOR - SOUTH 1
1/2" = 1'-0"



D6 [detail] A1.10 SYMBOL PLAN - ZONE B - LVL 01 - SOUTH ENTRY
3/16" = 1'-0"



E1 [detail] A1.10 SYMBOL PLAN - ZONE B - LVL 01 - MAIN ENTRY
3/16" = 1'-0"

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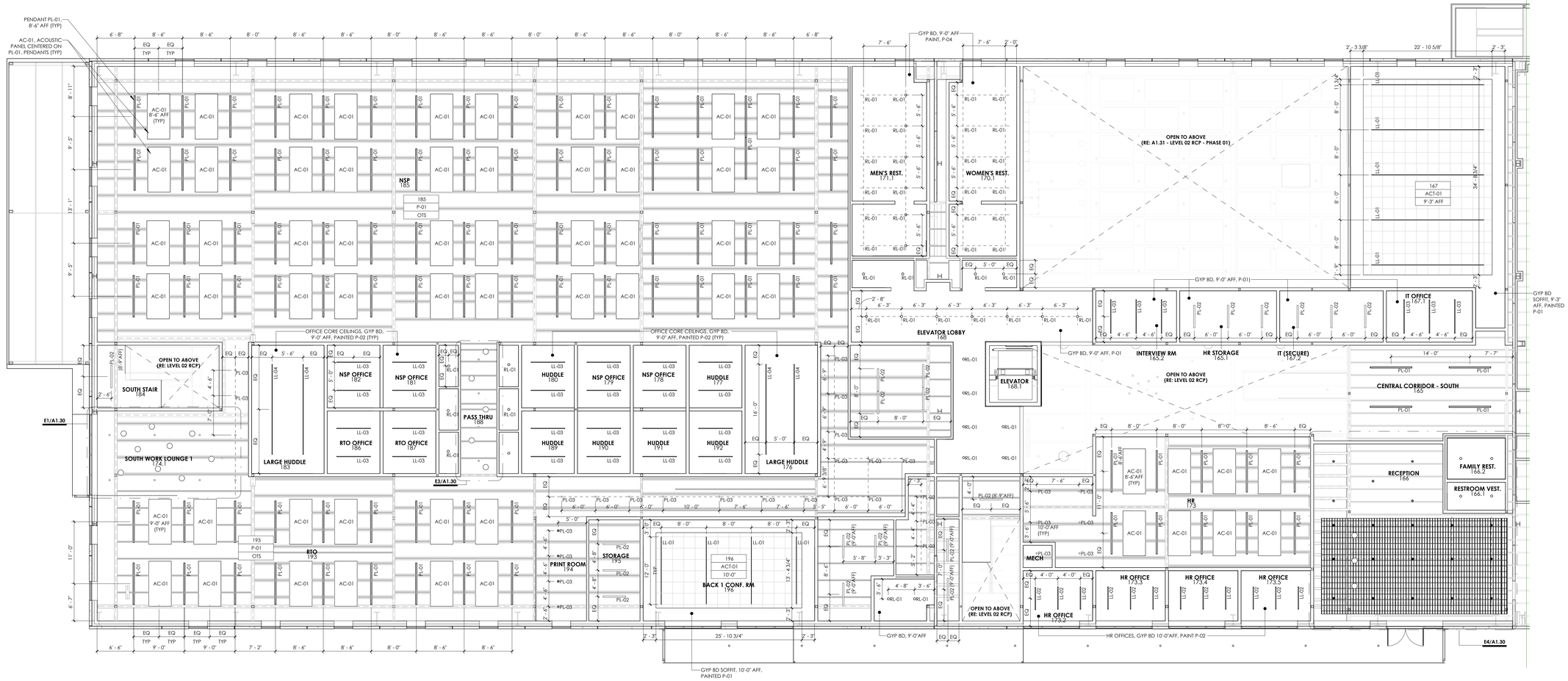
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contents:
ENLARGED SITE PLAN - ZONE B - MAIN + SOUTH ENTRY

design. CD
date. 2026.09.11
project. 25.18

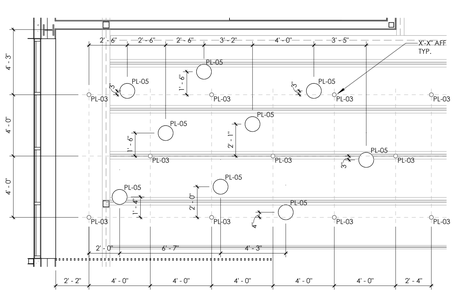
A1.20



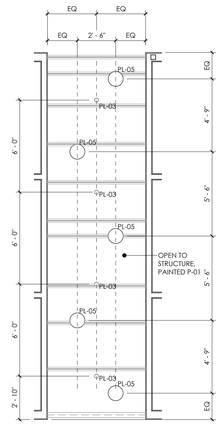
D1 RCP - ZONE B - LVL 01 - PHASE 1
A1.20 1/8" = 1'-0"

RCP GENERAL NOTES:

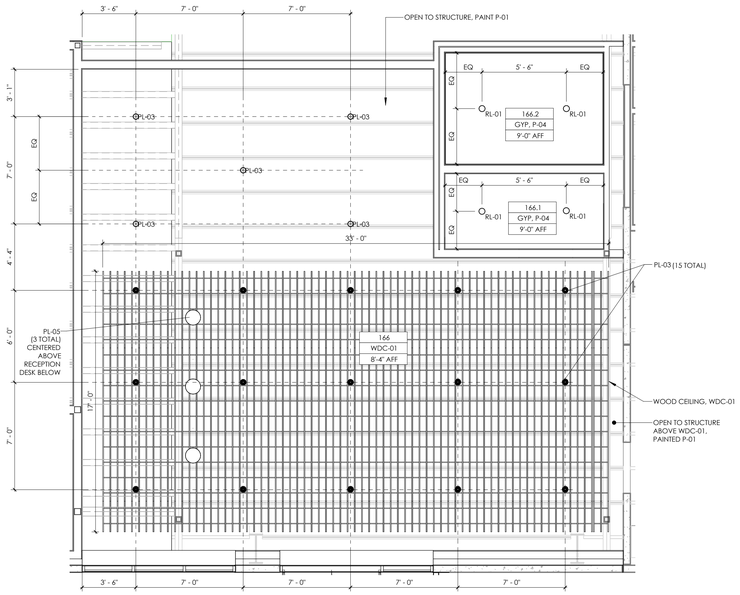
1. ALL EXPOSED STRUCTURE TO BE PAINTED P-01.
2. ALL EXPOSED MEP SYSTEMS TO BE PAINTED TO MATCH STRUCTURE, P-01.
3. GYP BD CEILINGS TO BE PAINTED P-01 UNLESS OTHERWISE NOTED.



E1 RCP - ZONE B - LVL 01 - Callout 1
A1.30 1/4" = 1'-0"



E3 RCP - ZONE B - LVL 01 - Callout 2
A1.30 1/4" = 1'-0"



E4 RCP - ZONE B - LVL 01 - Callout 3
A1.30 1/4" = 1'-0"

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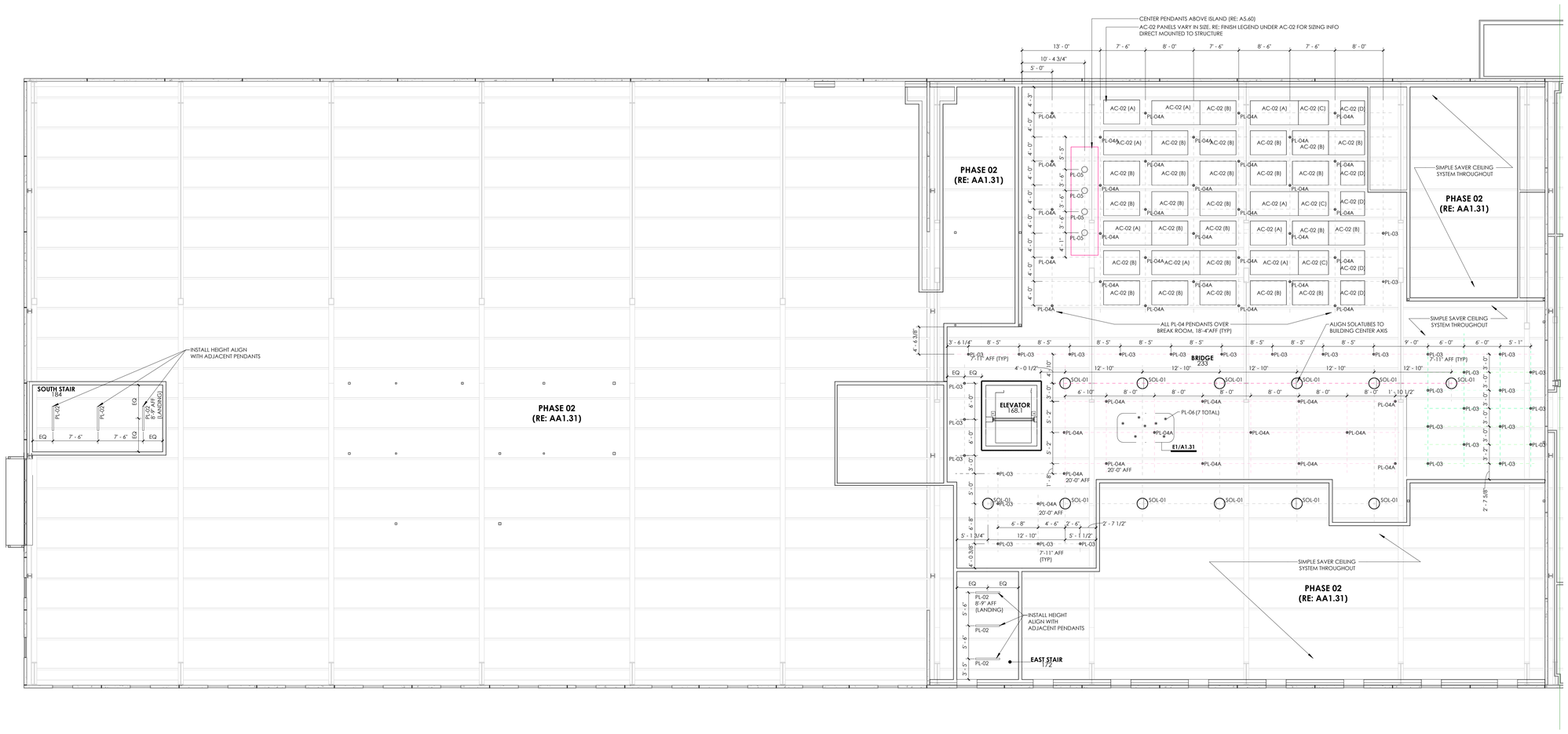
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contents:
RCP - ZONE B - LEVEL 01 - PHASE 1

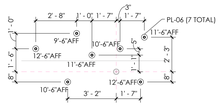
design: CD
date: 2026.09.11
project: 25.18

A1.30



D1 RCP - ZONE B - LVL 02 - PHASE 1

A1.20 1/8" = 1'-0"



E1 RCP - ZONE B - LVL 02 - PHASE 1 - Callout 1

A1.31 1/4" = 1'-0"

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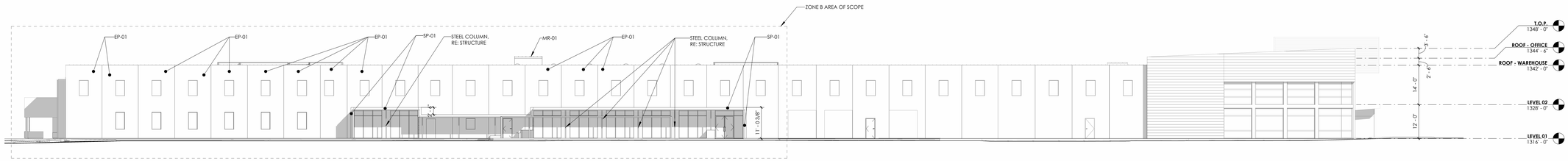
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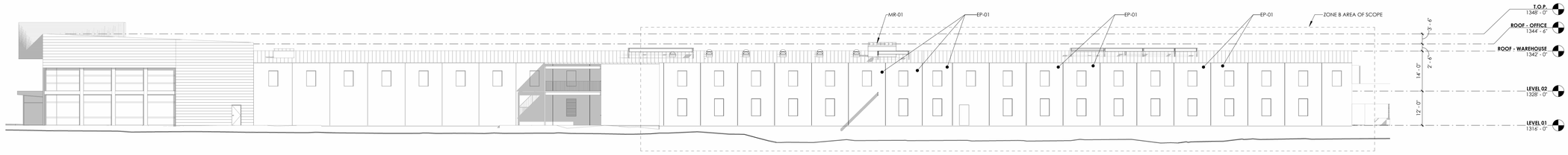
contents.
RCP - ZONE B - LEVEL 02 - PHASE 1

design.	CD
date.	2026.09.11
project.	25.18

A1.31



A1 EXT ELEV - OVERALL - EAST
1/16" = 1'-0"



C1 EXT ELEV - OVERALL - WEST
1/16" = 1'-0"

FINISH LEGEND : EXTERIOR



C-01 **SEALED CONCRETE 01**

TYPE:	RE: STRUCTURAL
COLOR:	NATURAL
SCORING PATTERN:	TBD BY ARCHITECT
FINISH:	LIGHT BROOM FINISH
FORMS:	USE ONLY CLEAN, NON STAINING FORMS/AGENTS
TIES:	ALIGNED, PROVIDE SHOP DRAWINGS FOR APPROVAL
CORNERS:	DO NOT CHAMFER
SPEC SECTION:	033935

*DO NOT PATCH/RUB/SKIM WITHOUT APPROVAL FROM ARCHITECT



SP-01 **STEEL PLATE 01**

USE:	SHADE SHROUDS/ PLANTERS/ EDGING/ PAVILION
TYPE:	HOT ROLLED MILD STEEL PLATE/SHEET
PROFILE:	FLAT
SIZE:	VARIES, OPTIMIZED FOR STANDARD PLATE DIMENSIONS
THICKNESS:	3/16" UNLESS OTHERWISE NOTED
PATTERN:	PER ELEVATIONS/PLAN
JOINTS:	WELDED
FINISH:	REMOVE MILL OIL, NATURALLY WEATHERING
REINFORCEMENT:	PROVIDE SMALL STOCK ANGLE OR TUBE AS REQUIRED
SPEC SECTION:	323000



SF-01 **STOREFRONT 01**

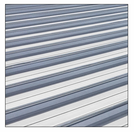
MANUFACTURER:	KAWNEER
PRODUCT:	TBD
SIZE:	RE: PLANS
GLAZING:	ALL WEST-FACING GLAZING TO HAVE ANTI-REFLECTIVE FILM
COLOR:	TBD
SPEC SECTION:	084113



EP-01 **EXTERIOR PAINT 01**

MANUFACTURER:	SHERWIN WILLIAMS CUSTOM
COLOR NAME:	BLANC PUR
COLOR #:	#F2EDE4
SHEEN:	MATTE
SPEC SECTION:	099113

***ALL EXTERIOR WALLS UNLESS OTHERWISE NOTED**



MR-01 **METAL ROOF 01**

MANUFACTURER:	MATCH EXISTING
COLOR NAME:	MATCH EXISTING
COLOR #:	MATCH EXISTING
GAUGE:	MATCH EXISTING
SPEC SECTION:	074113



SOL-01 **SOLATUBE**

MANUFACTURER:	SOLATUBE
SERIES:	SOLAMASTER
PRODUCT:	SOLAMASTER 330 DC-O
TUBE DIAMETER:	21"
FINISH:	STAINLESS
LOCATION:	ABOVE BRIDGE + EXEC ADMIN (OPEN CEILING)
SPEC SECTION:	086200



RC-01 **RAIN CHAIN 01**

USE:	IN LIEU OF DOWNSPOUTS
MANUFACTURER:	SEO RAIN
PRODUCT:	TOH - LARGE
FINISH:	STAINLESS STEEL
LOCATION:	EXTERIOR, EAST SHROUD + SOUTH PORCH
SPEC SECTION:	076200

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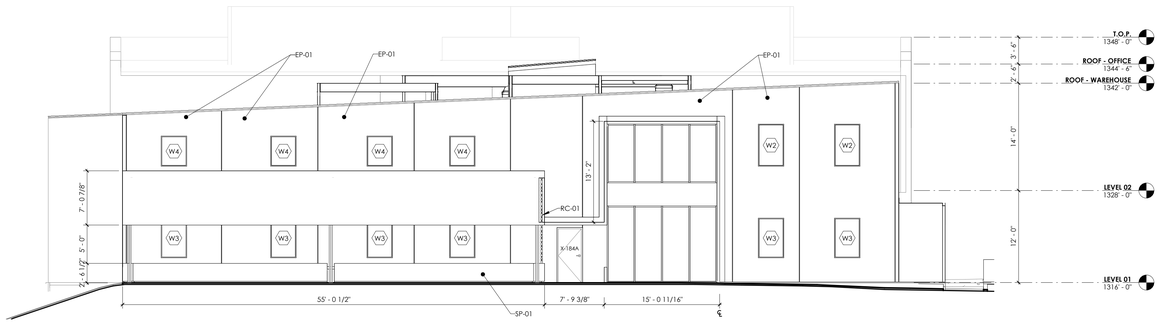
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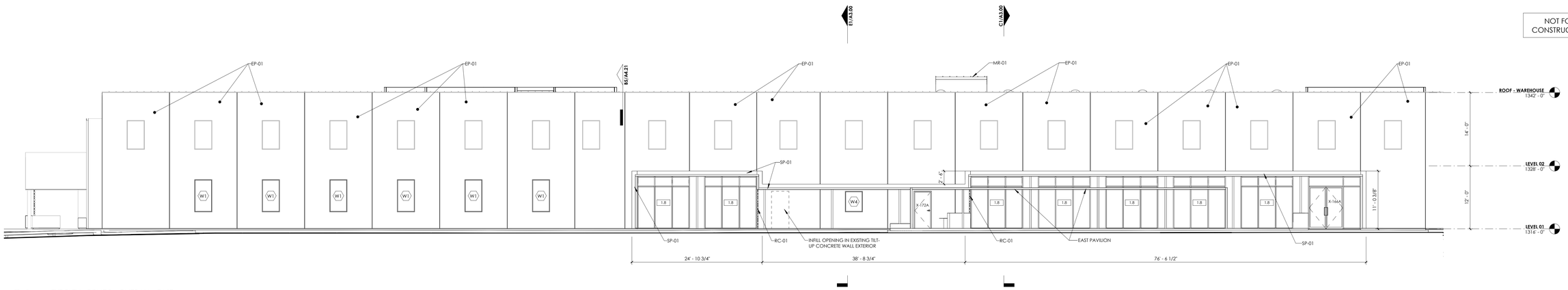
contents.
EXTERIOR ELEVATIONS + EXTERIOR FINISH LEGEND

design. CD
date. 2026.09.11
project. 25.18

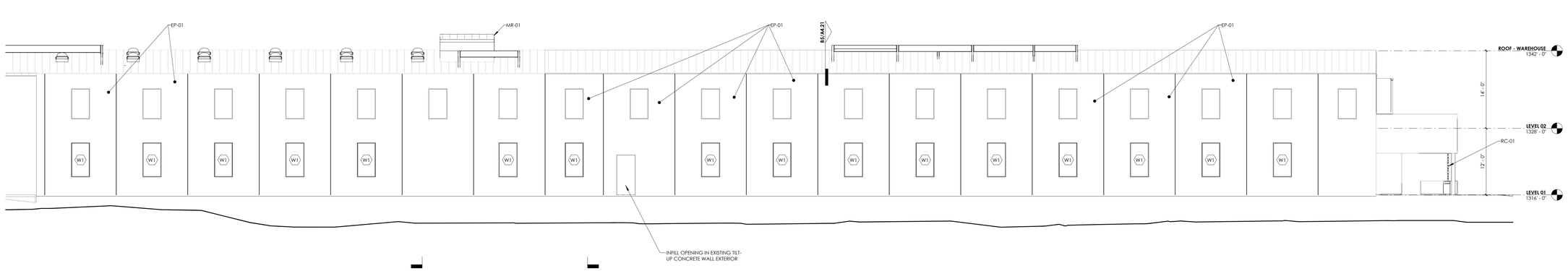
A2.01



B3 EXT ELEV - ZONE B - OVERALL - SOUTH
1/8" = 1'-0"



C1 EXT ELEV - ZONE B - OVERALL - EAST
1/8" = 1'-0"



E1 A1.10 EXT ELEV - ZONE B - OVERALL - WEST
1/8" = 1'-0"

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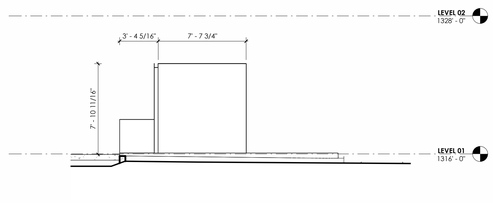
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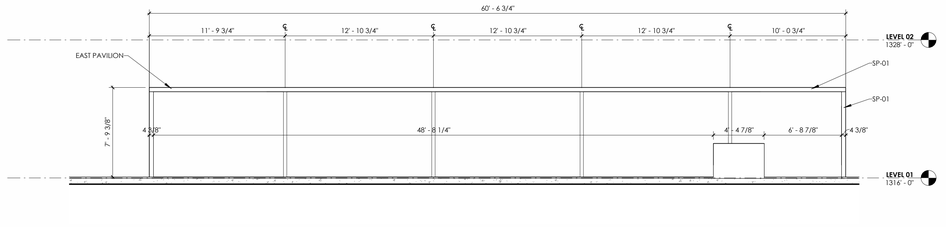
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EXTERIOR ELEVATIONS

design. CD
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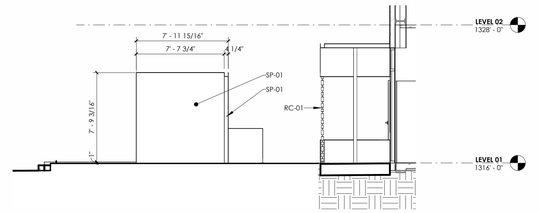
A2.02



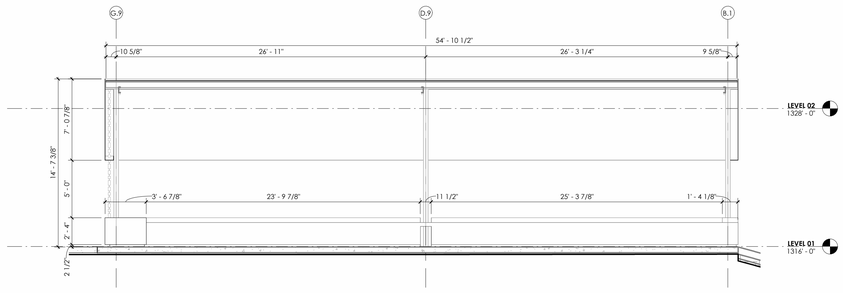
A1 EXT ELEV - ZONE B - LVL 01 - EAST PAVILION - SOUTH
A1.20 3/16" = 1'-0"



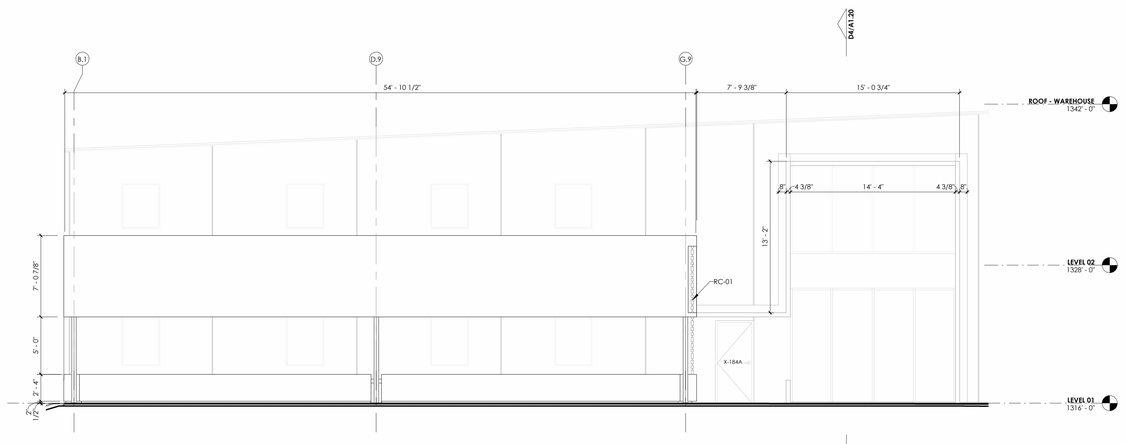
A2 EXT ELEV - ZONE B - LVL 01 - EAST PAVILION - WEST
A1.20 3/16" = 1'-0"



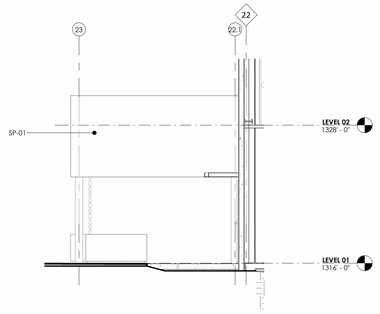
A5 EXT ELEV - ZONE B - LVL 01 - EAST PAVILION - NORTH
A1.20 3/16" = 1'-0"



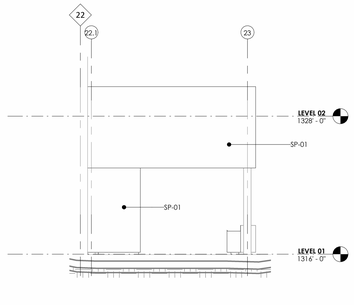
B1 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH INTERIOR - SOUTH
A1.20 3/16" = 1'-0"



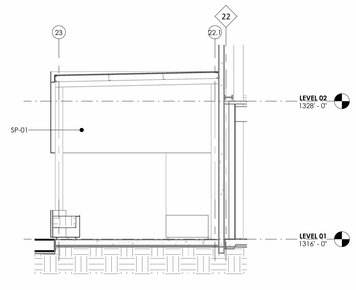
B3 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH + ENTRY - SOUTH
A1.20 3/16" = 1'-0"



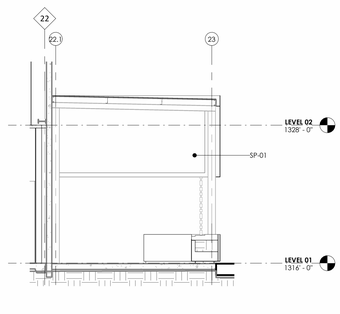
D1 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH - EAST
A1.20 3/16" = 1'-0"



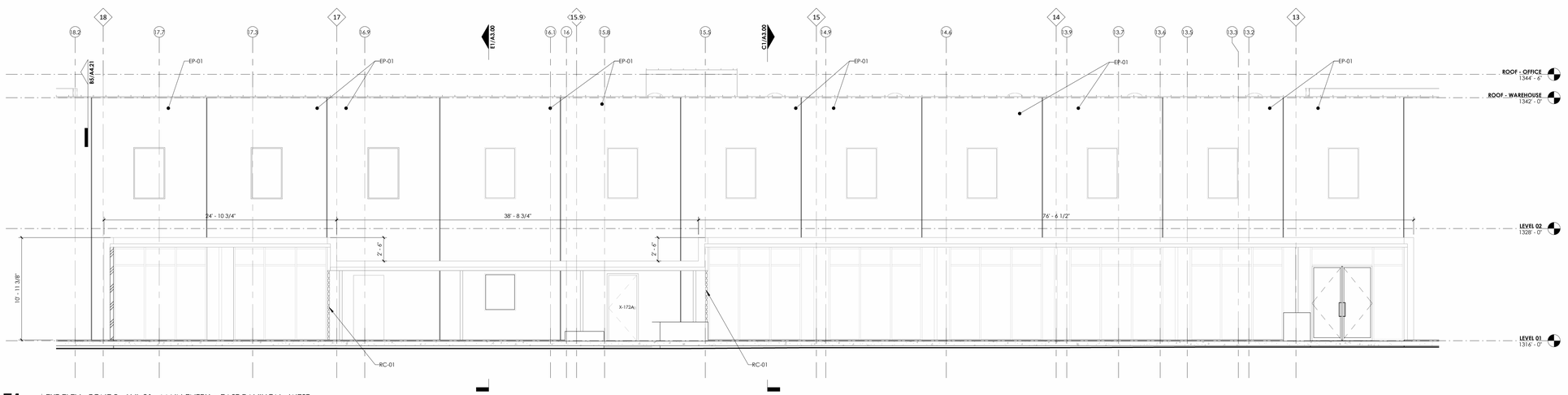
D2 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH - WEST
A1.20 3/16" = 1'-0"



D4 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH INTERIOR - WEST
A1.20 3/16" = 1'-0"



D5 EXT ELEV - ZONE B - LVL 01 - SOUTH PORCH INTERIOR - EAST
A1.20 3/16" = 1'-0"



E1 EXT ELEV - ZONE B - LVL 01 - MAIN ENTRY + EAST PAVILION - WEST
A1.20 3/16" = 1'-0"

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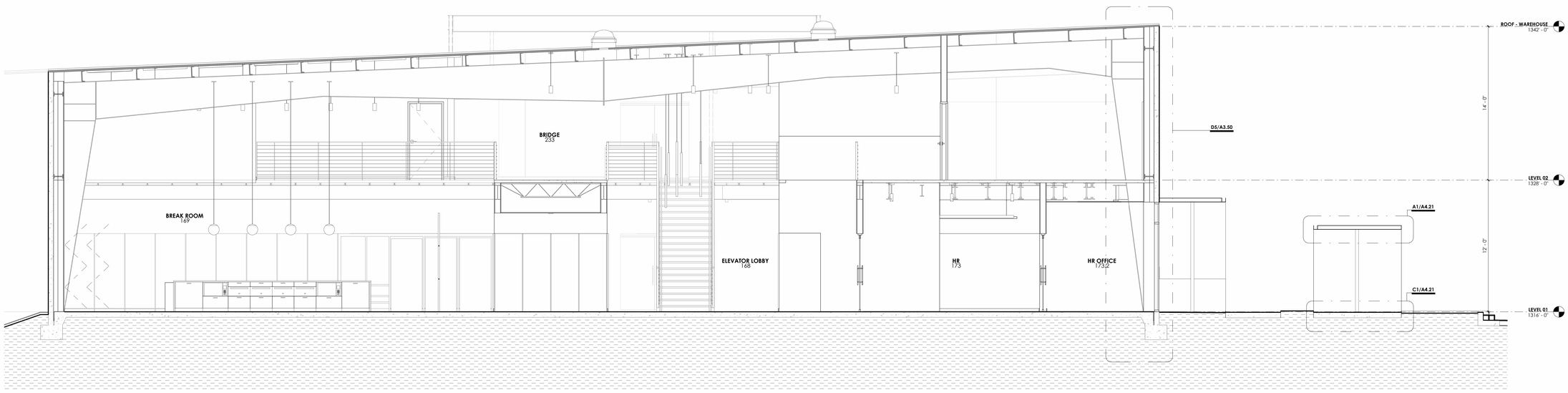
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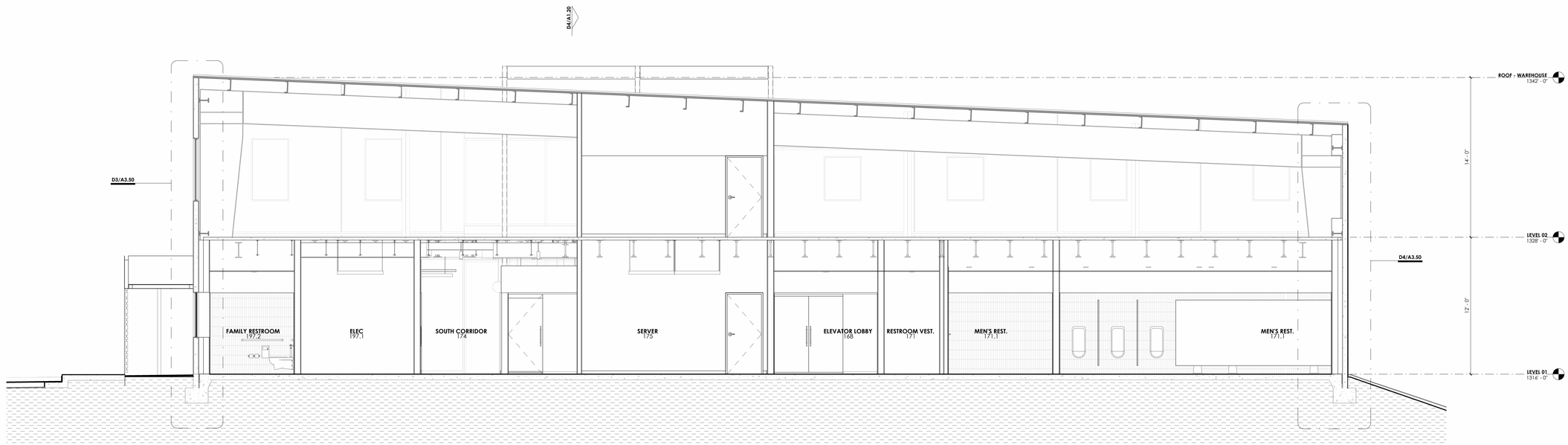
contents:
EXTERIOR ELEVATIONS

design: CD
date: 2026.09.11
project: 25.18

A2.03



C1 E1 A0.33 BUILDING SECTION - ZONE B - E/W 1
1/4" = 1'-0"



E1 E1 A0.33 BUILDING SECTION - ZONE B - E/W 2
1/4" = 1'-0"

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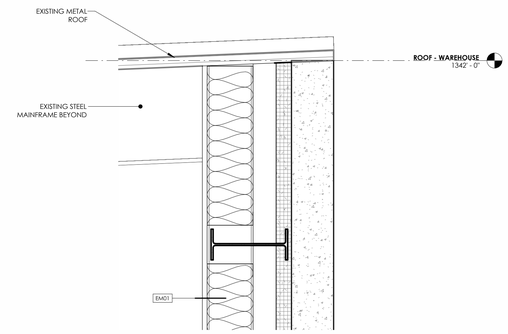
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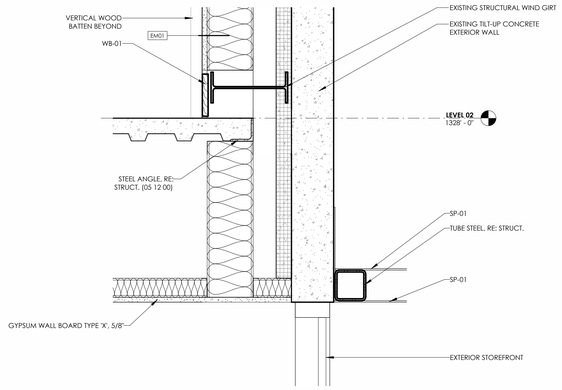
contents:
BUILDING SECTIONS

design. CD
date. 2026.09.11
project. 25.18

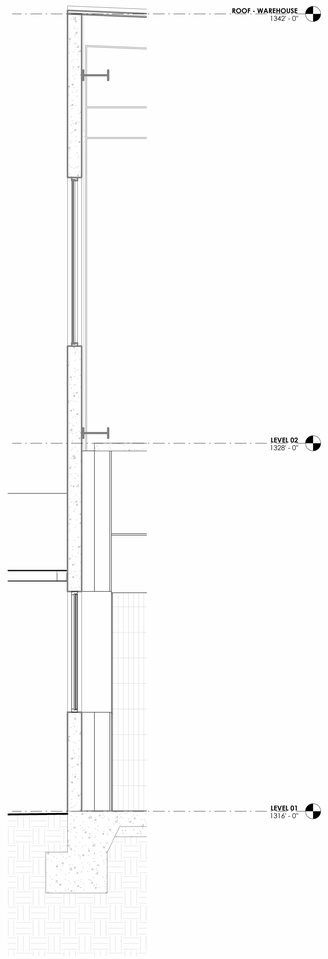
A3.00



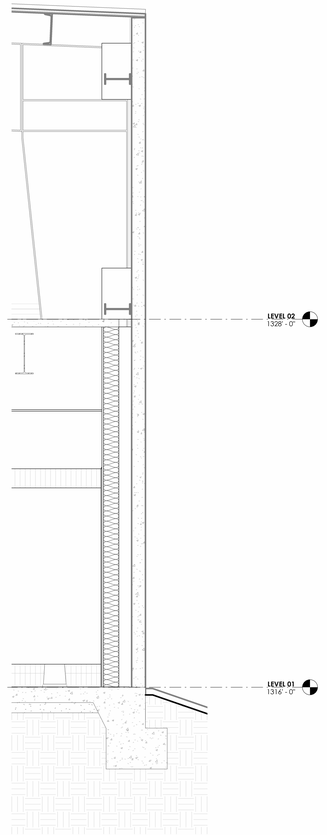
B1 SECTION SECTION - EXTERIOR AT ROOF
D01 / A3.50 1 1/2" = 1'-0"



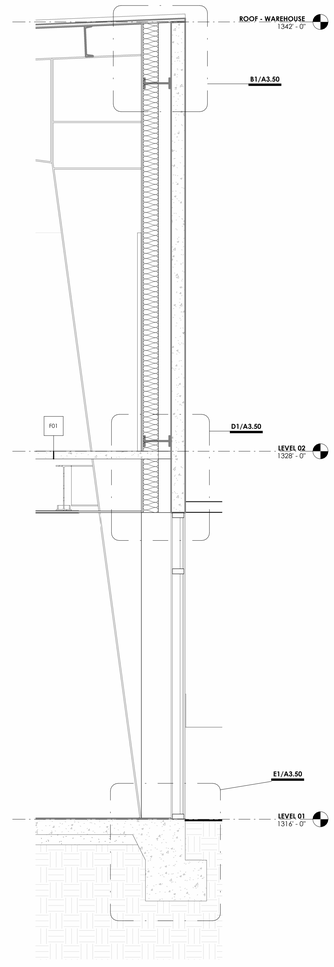
D1 SECTION DETAIL - EXTERIOR - MEZZANINE FLOOR TO EXTERIOR
D01 / A3.50 1 1/2" = 1'-0"



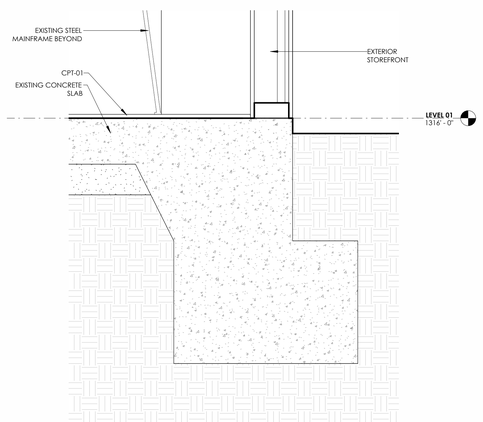
D3 WALL SECTION - ZONE B - EXTERIOR - EAST 1
E3 / A3.00 1/2" = 1'-0"



D4 WALL SECTION - ZONE B - EXTERIOR - WEST
A3.00 1/2" = 1'-0"



D5 WALL SECTION - ZONE B - EXTERIOR - EAST 2
E3 / A3.00 1/2" = 1'-0"



E1 SECTION DETAIL - EXTERIOR - EAST STOREFRONT AT FOOTING
D01 / A3.50 1 1/2" = 1'-0"

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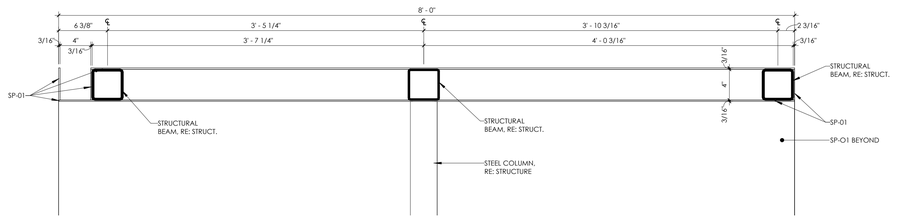
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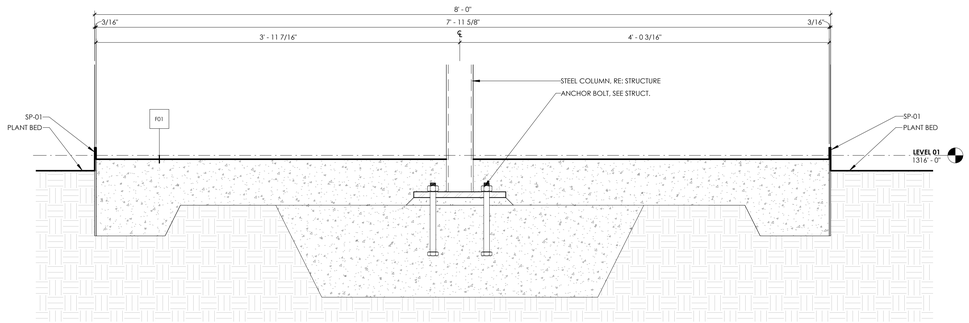
contents:
WALL SECTIONS + DETAILS

design: CD
date: 2026.09.11
project: 25.18

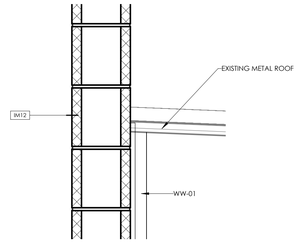
A3.50



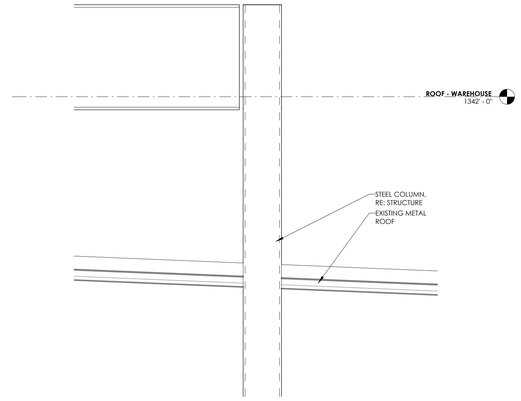
A1 A3.00 SECTION DETAIL - EAST PAVILION - ROOF
1 1/2" = 1'-0"



C1 A3.00 SECTION DETAIL - EAST PAVILION - FLOOR
1 1/2" = 1'-0"



C4 A4.82 SECTION DETAIL - ROOF TO CMU WALL
1 1/2" = 1'-0"



B5 A1.12 SECTION DETAIL - RTU PLATFROM COLUMN THROUGH ROOF
1 1/2" = 1'-0"

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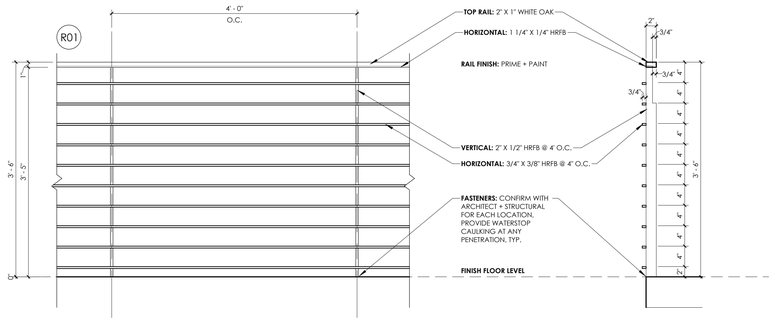
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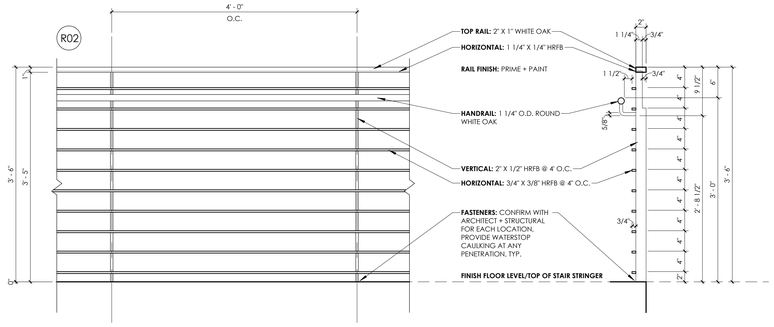
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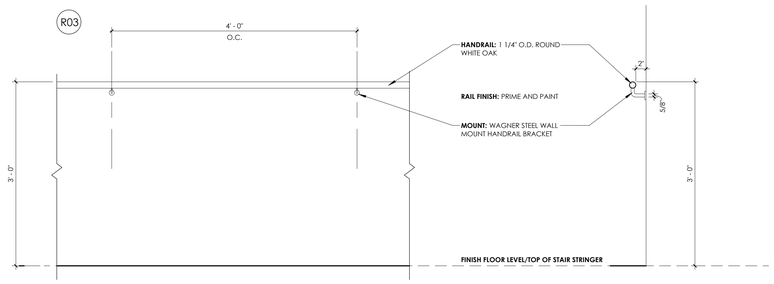
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SECTION DETAILS

design. CD
date. 2026.09.11
project. 25.18

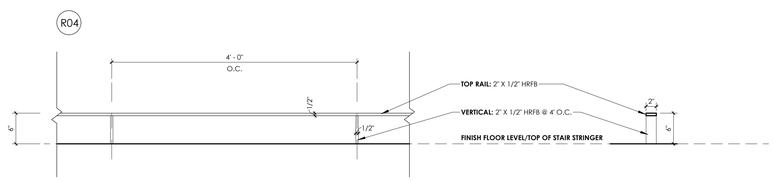
A4.21







RAIL FINISH: PRIME AND PAINT



RAILINGS

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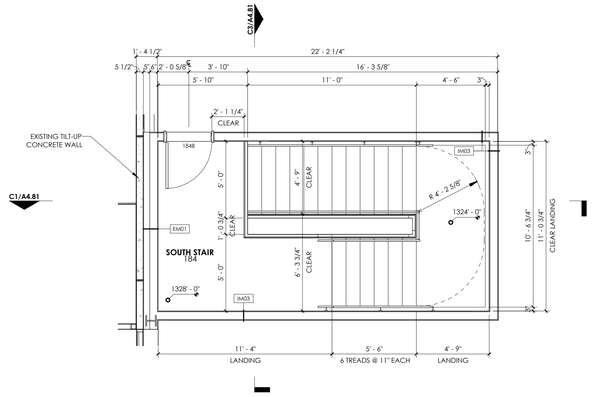
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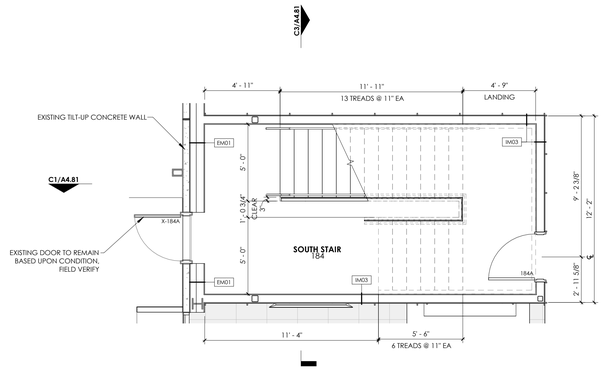
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RAILINGS

design. CD
date. 2026.09.11
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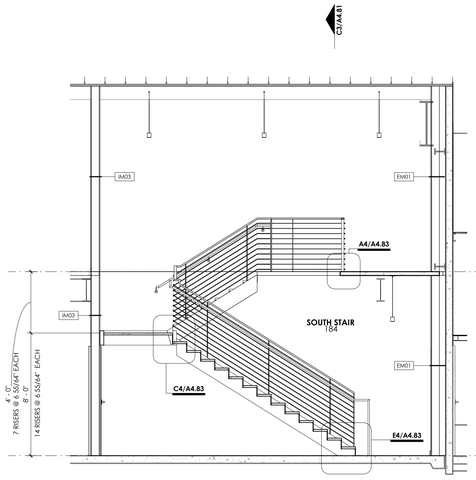
A4.31



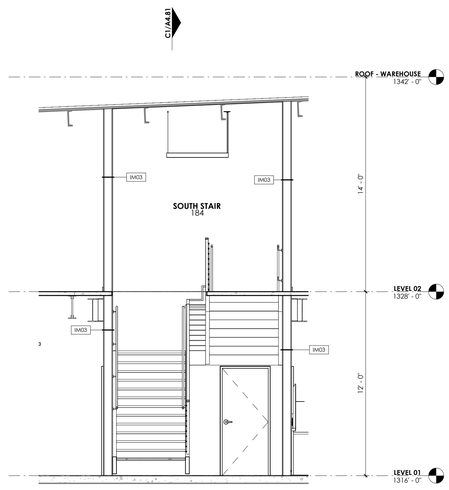
B1 A1.11 ENLARGED PLAN - ZONE B - LVL 02 - SOUTH STAIR
1/4" = 1'-0"



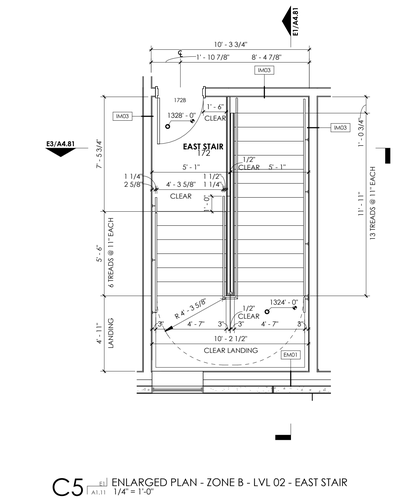
B3 A1.10 ENLARGED PLAN - ZONE B - LVL 01 - SOUTH STAIR
1/4" = 1'-0"



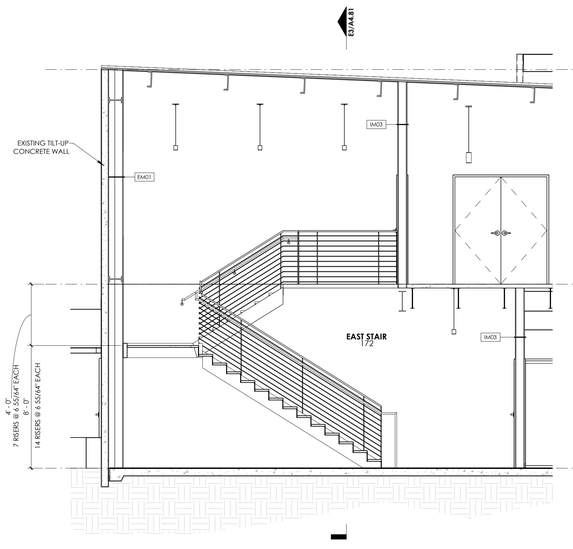
C1 A4.81 SECTION - ZONE B - SOUTH STAIR - EAST
1/4" = 1'-0"



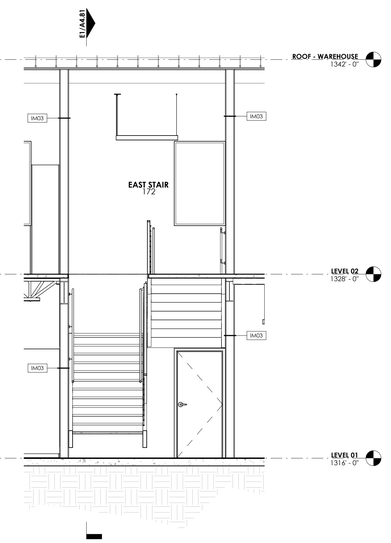
C3 A4.81 SECTION - ZONE B - SOUTH STAIR - SOUTH
1/4" = 1'-0"



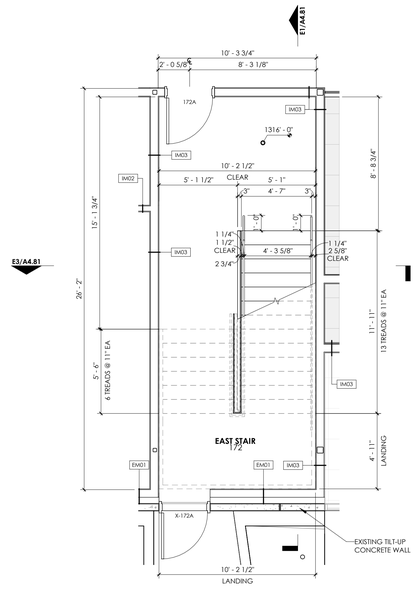
C5 A1.11 ENLARGED PLAN - ZONE B - LVL 02 - EAST STAIR
1/4" = 1'-0"



E1 A4.81 SECTION - ZONE B - EAST STAIR - SOUTH
1/4" = 1'-0"



E3 A4.81 SECTION - ZONE B - EAST STAIR - WEST
1/4" = 1'-0"



E5 A1.10 ENLARGED PLAN - ZONE B - LVL 01 - EAST STAIR
1/4" = 1'-0"

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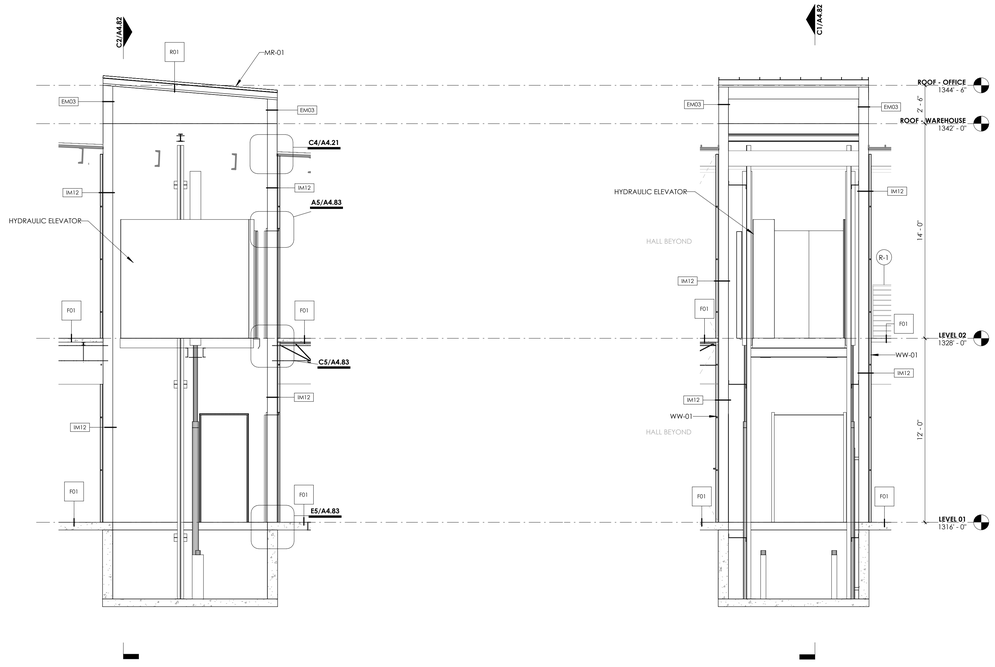
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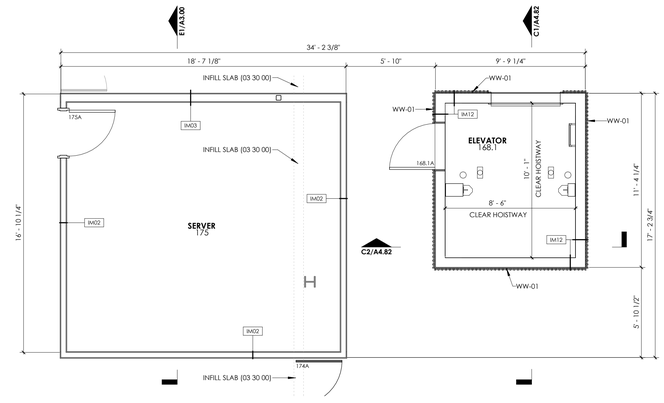
design: CD
date: 2026.09.11
project: 25.18

A4.81

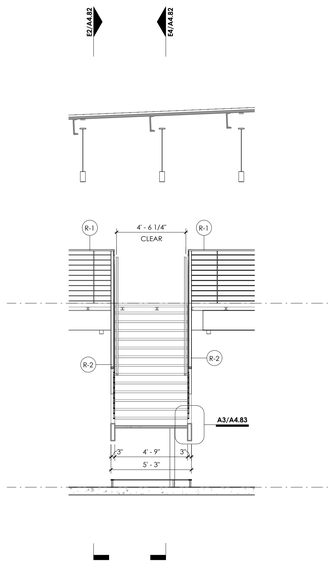


C1 SECTION - ZONE B - SERVER AND ELEVATORY CORE - SOUTH
A4.82 1/4" = 1'-0"

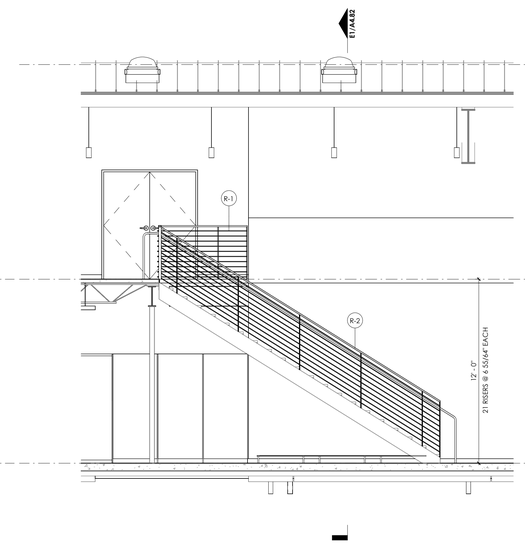
C2 SECTION - ZONE B - SERVER AND ELEVATORY CORE - WEST
A4.82 1/4" = 1'-0"



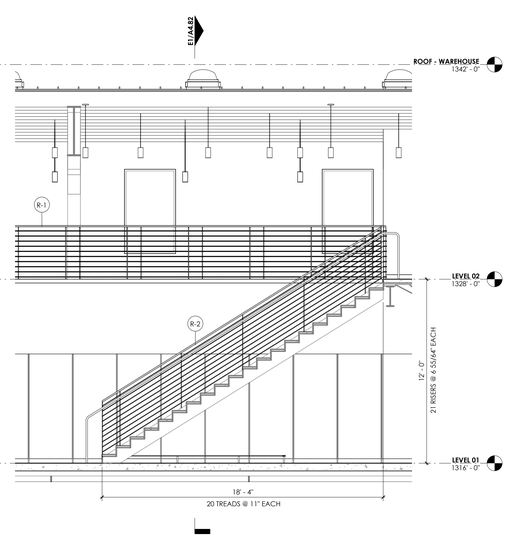
C5 ENLARGED PLAN - ZONE B - LVL 01 - SERVER RM + ELEVATOR CORE
A1.10 1/4" = 1'-0"



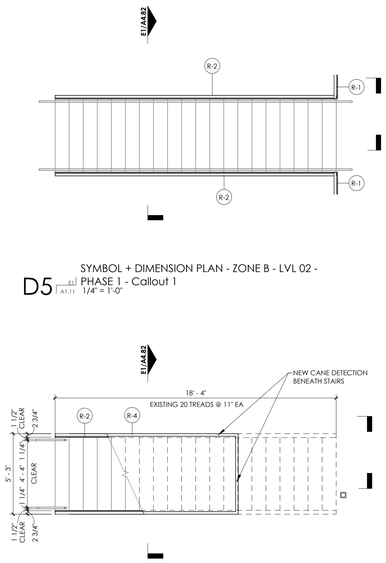
E1 SECTION - ZONE B - CENTRAL CORRIDOR STAIR - NORTH
A4.82 1/4" = 1'-0"



E2 SECTION - ZONE B - CENTRAL CORRIDOR STAIR - EAST
A4.82 1/4" = 1'-0"



E4 SECTION - ZONE B - CENTRAL CORRIDOR STAIR - WEST
A4.82 1/4" = 1'-0"



D5 SYMBOL + DIMENSION PLAN - ZONE B - LVL 02 - PHASE 1 - Callout 1
A1.11 1/4" = 1'-0"

E5 ENLARGED PLAN - ZONE B - LVL 01 - CENTRAL STAIR
A1.10 1/4" = 1'-0"

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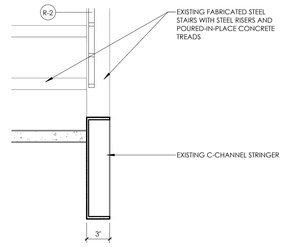
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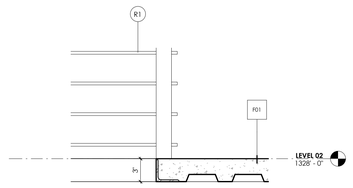
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design: CD
date: 2026.09.11
project: 25.18

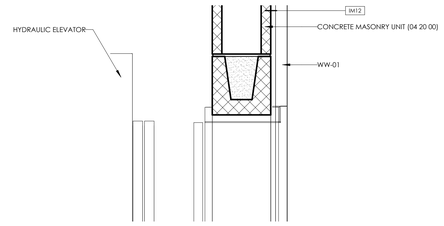
A4.82



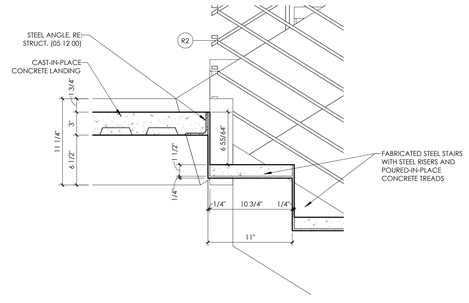
A3 A4.82 SECTION DETAIL - CENTRAL STAIR STRINGER
1 1/2" = 1'-0"



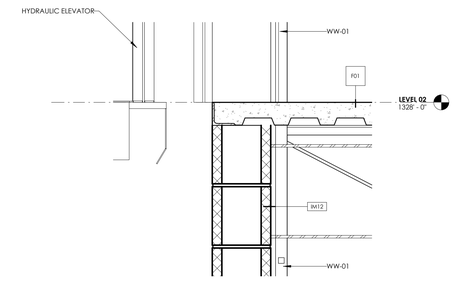
A4 A4.81 SECTION DETAIL - ZONE B - SOUTH STAIR - UPPER RUN TO LVL 02
1 1/2" = 1'-0"



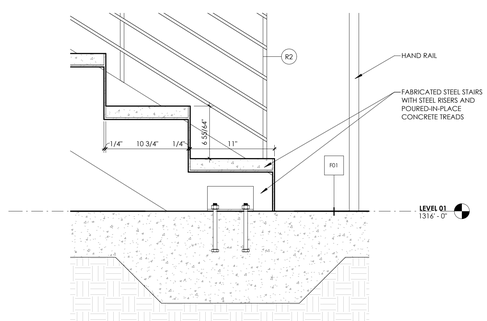
A5 A4.82 SECTION DETAIL - ELEVATOR DOOR - HEAD
3 1/2" = 1'-0"



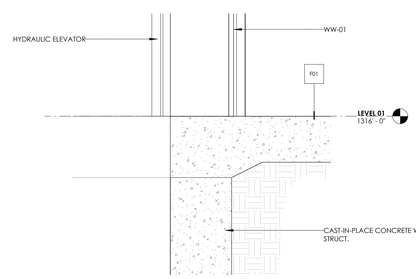
C4 A4.81 SECTION DETAIL- ZONE B - SOUTH STAIR - LOWER RUN TO LANDING
1 1/2" = 1'-0"



C5 A4.82 SECTION DETAIL - ELEVATOR DOOR - SILL AT LVL 02
1 1/2" = 1'-0"



E4 A4.81 SECTION DETAIL - ZONE B - SOUTH STAIR 01
1 1/2" = 1'-0"



E5 A4.82 SECTION DETAIL - ELEVATOR DOOR SILL AT LVL 01
1 1/2" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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VERTICAL CIRCULATION DETAILS

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date. 2026.09.11
project. 25.18

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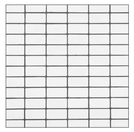
FINISH LEGEND : INTERIOR



C-01 SEALED CONCRETE 01

TYPE:	RE: STRUCTURAL
COLOR:	NATURAL
SCORING PATTERN:	TBD BY ARCHITECT
FINISH:	LIGHT BROOM FINISH
FORMS:	USE ONLY CLEAN, NON STAINING
FORMS/AGENTS	
TIES:	ALIGNED, PROVIDE SHOP DRAWINGS FOR
APPROVAL	
CORNERS:	DO NOT CHAMFER
SPEC SECTION:	03XXXX

*DO NOT PATCH/RUB/SKIM WITHOUT APPROVAL FROM ARCHITECT



T-01 TILE 01

MANUFACTURER:	INAX
PRODUCT:	2X1 MOSAIC
COLOR:	WHITE
GROUT:	CUSTOM - PRISM ULTIMATE PERFORMANCE GROUT
	COLOR - #544 ROLLING FOG
SIZE:	2" X 1"
LOCATION:	RESTROOMS + BREAK ROOM KITCHENETTE
INSTALL PATTERN:	HORIZONTAL STRAIGHT STACK
SPEC SECTION:	09 31 13



WB-01 WOOD BASE REVEAL

PRODUCT:	FINGER-JOINTED PINE + "2" SHADOW TRIM
WOOD NOMINAL SIZE:	1"X4"
WOOD ACTUAL:	3/4" X 3-1/2"
TRIM SIZE:	1/2" REVEAL
GRADE:	PAINT GRADE
FINISH:	PAINT TO MATCH PAINT COLOR ON ADJACENT WALL
FASTENERS:	FACE NAILS (FILL + SAND NAIL HOLES)
LOCATION:	ALL GYP BOARD WALLS
SPEC SECTION:	06 20 00



TSH-01 TRASH CABINET HARDWARE

BASIS OF DESIGN	
MANUFACTURER:	REV-A-SHELF
PRODUCT:	STEEL BOTTOM MOUNT PULLOUT WASTE CONTAINER
	W/ SOFT CLOSE
SIZE:	FITS 30" WIDTH CABINET
LOCATION:	KITCHEN BREAK ROOM
SPEC SECTION:	



P-01 PAINT 01

MANUFACTURER:	SHERWIN WILLIAMS
COLOR NAME:	SNOWBOUND
COLOR NUMBER:	SW 7004
SHEEN:	VARIES PER LOCATION (SEE BELOW)
LOCATION:	EGGSHELL/SATIN - WALLS
	FLAT - CEILINGS
	SEMI-GLOSS - DOORS + TRIM
	*TYPICAL PAINT ON ALL WALLS, CEILINGS AND EXPOSED STRUCTURE U.N.O.
SPEC SECTION:	09 91 23

***PAINT DRAW DOWNS TO BE APPROVED BY DESIGNER**



CAB-01 CABINET 01

MATERIAL:	LAMINATE ON 3/4" PUREBOND MAPLE PLYWOOD
FINISH:	FENIX J0724 (GRIGIO BROMO) LAMINATE
DOOR STYLE:	FLAT SLAB - FULL OVERLAY
HARDWARE:	CONCEALED HINGES, SOFT CLOSE
DRAWER:	METABOX, OR APPROVED EQUAL
TOE KICK:	MATCH CABINET FINISH/COLOR
EDGE BAND:	MATCH CABINET FINISH/COLOR
CARCASS:	WHITE MELAMINE ON 3/4" PUREBOND MAPLE PLYWOOD
SPEC SECTION:	06 41 16



IP-01 BATHROOM PARTITION 01

MANUFACTURER:	BOBRICK
PRODUCT:	PRIVADA CUBICLES
MATERIAL:	HIGH PRESSURE LAMINATE (HPL)
FINISH/COLOR:	TO BE SELECTED
HARDWARE:	STAINLESS STEEL
PEDASTALS:	STAINLESS STEEL
SIZE:	69" H DOORS AND PANELS, 9" AFF GAP AT BASE
SPEC SECTION:	10 21 00



WDC-01 WOOD CEILING 01

MANUFACTURER:	RULON
SYSTEM:	GRILLES
STYLE:	PANEL GRILLES
MATERIAL:	WHITE OAK VENEER
FINISH:	CLEAR
MODULE WIDTH:	1'-0" (STANDARD)
THICKNESS:	3/4"
HEIGHT:	4"
MOUNT:	SUSPENDED (WOODBACKER CLIPS)
SPEC SECTION:	



P-02 PAINT 02

MANUFACTURER:	SHERWIN WILLIAMS
COLOR NAME:	ONLINE
COLOR NUMBER:	SW 7072
SHEEN:	VARIES PER LOCATION (SEE BELOW)
LOCATION:	EGGSHELL/SATIN - WALLS
	SEMI-GLOSS - DOORS + TRIM
SPEC SECTION:	09 91 23

***PAINT DRAW DOWNS TO BE APPROVED BY DESIGNER**



CAB-02 CABINET 02

MATERIAL:	WHITE OAK VENEER ON 3/4" PUREBOND MAPLE PLYWOOD
STAIN:	TO BE SELECTED
FINISH:	MINWAX CLEAR POLYCRYLIC
DOOR STYLE:	FLAT SLAB - FULL OVERLAY
HARDWARE:	CONCEALED HINGES, SOFT CLOSE
DRAWER:	METABOX, OR APPROVED EQUAL
TOE KICK:	MATCH CABINET FINISH/COLOR
EDGE BAND:	MATCH CABINET FINISH/COLOR
CARCASS:	WHITE MELAMINE ON 3/4" PUREBOND MAPLE PLYWOOD
LOCATION:	PRINT ROOMS, WORK + EXEC. LOUNGES
SPEC SECTION:	06 40 00



WSH-01 ROLLER WINDOW SHADES

MANUFACTURER:	DRAPER
PRODUCT:	TECHMATIC ROLLER SHADE
SHADE FABRIC:	SHEERWEAVE SW2400
	SW2410-P12 (OYSTER)
OPENNESS FACTOR:	5%
HEM:	SEALED
FASCIA:	WHITE
OPERATION:	POE
BEAD CHAIN:	SILVER
LOCATION:	ALL EXTERIOR GLAZING
SPEC SECTION:	12 24 13



MR-01 MIRROR

MANUFACTURER:	BOBRICK
PRODUCT:	MIRROR W/ STAINLESS STEEL CHANNEL FRAME
SIZE:	24"W x 48"H
LOCATION:	RESTROOMS
SPEC SECTION:	08 83 00



P-03 PAINT 03

MANUFACTURER:	SHERWIN WILLIAMS
COLOR NAME:	CYBERSPACE
COLOR NUMBER:	SW 7076
SHEEN:	VARIES PER LOCATION (SEE BELOW)
LOCATION:	EGGSHELL/SATIN - WALLS
	SEMI-GLOSS - DOORS + TRIM
SPEC SECTION:	09 91 23

***PAINT DRAW DOWNS TO BE APPROVED BY DESIGNER**



MW-01 MILLWORK 01

MATERIAL:	WHITE OAK VENEER ON 3/4" PUREBOND MAPLE PLYWOOD
STAIN:	TO BE SELECTED
FINISH:	MINWAX CLEAR POLYCRYLIC
DOOR STYLE:	FLAT SLAB - FULL OVERLAY
HARDWARE:	CONCEALED HINGES, SOFT CLOSE
DRAWER:	METABOX, OR APPROVED EQUAL
TOE KICK:	MATCH CABINET FINISH/COLOR
EDGE BAND:	MATCH CABINET FINISH/COLOR
CARCASS:	WHITE MELAMINE ON 3/4" PUREBOND MAPLE PLYWOOD
LOCATION:	PRINT ROOMS, WORK + EXEC. LOUNGES
SPEC SECTION:	06 40 00



VF-01 VINYL FILM

MANUFACTURER:	DECORATIVE FILMS
PRODUCT:	SOLYX SXJ-0720 ETCH GRADIENT 71"
SIZE:	71"H (WIDTH TO MATCH INTERIOR GLAZING)
APPLICATION:	INSTALL OPAQUE END AT T.O. GLAZING, FADES DOWN TO TRANSPARENT
LOCATION:	INTERIOR GLAZING
SPEC SECTION:	09 27 00



P-04 PAINT 04

MANUFACTURER:	SHERWIN WILLIAMS
COLOR NAME:	INDIGO
COLOR NUMBER:	SW 6531
SHEEN:	VARIES PER LOCATION (SEE BELOW)
LOCATION:	EGGSHELL/SATIN - WALLS
	FLAT - CEILINGS
	SEMI-GLOSS - DOORS + TRIM
SPEC SECTION:	09 91 23

***PAINT DRAW DOWNS TO BE APPROVED BY DESIGNER**



MW-02 MILLWORK 02

MATERIAL:	PAINTED 3/4" PUREBOND MAPLE PLYWOOD
FINISH:	PAINT - MATCH P-04
TOE KICK:	MATCH CABINET FINISH/COLOR
EDGE BAND:	MATCH CABINET FINISH/COLOR
LOCATION:	BREAK ROOM VENDING
SPEC SECTION:	06 40 00



ACT-01 ACOUSTIC CEILING TILE 01

MANUFACTURER:	ARMSTRONG
PRODUCT:	ULTIMA HIGH NRC - TEGULAR FINE TEXTURE
GRID:	9/16" - INTERLUDE XL HRC
SIZE:	24" X 24"
DEPTH:	2"
EDGE:	QUICK KERF
COLOR:	WHITE (WH)
SPEC SECTION:	12 XX XX



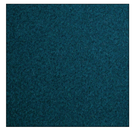
CT-01 COUNTERTOP 01

MANUFACTURER:	CAESARSTONE
MATERIAL:	QUARTZ
COLOR:	4001 FRESH CONCRETE
THICKNESS:	3CM
EDGE:	EASED
SPEC SECTION:	09 91 23



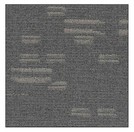
CH-01 CABINET HARDWARE 01

MANUFACTURER:	AMEROCK
PRODUCT:	VERSA - HANDLE CABINET PULL
SIZE:	6-5/16" CENTER TO CENTER
LOCATION:	CAB-01 CASEWORK
SPEC SECTION:	XX XX XX



AW-01 ACOUSTIC WALL PANEL

MANUFACTURER:	MOMENTUM
PRODUCT:	AUTEX ACOUSTICS - COMPOSITION PANEL (PET FELT)
FINISH:	VELOUR
COLOR:	OCTANE
SIZE:	4'-0" X 36'-0" (ROLL)
THICKNESS:	0.5 IN
MOUNT:	ADHESIVE
	(PER MANUFACTURER'S RECOMMENDATIONS)
LOCATION:	POD ROOMS
SPEC SECTION:	XX XX XX



CPT-01 CARPET TILE 01

MANUFACTURER:	MOHAWK
COLLECTION:	FRACTAL FINDINGS
STYLE:	DISCOVERD B1610
COLOR:	SILVERTHORNE 857
SIZE:	24" X 24"
INSTALL METHOD:	MANUFACTURER'S ADHESIVE DOTS
INSTALL PATTERN:	ASHLAR
EDGE TRIM:	JOHNSONITE TARKETT - SLIM LINE TRANSITION SLT-XX-J
SPEC SECTION:	09 91 23



WW-01 WOOD WALL 01

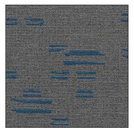
SPECIES:	WHITE OAK
GRADE:	STAIN GRADE OR BETTER
SURFACE PROFILE:	S4S
SIZE:	1X6 NOMINAL
STAIN:	TBD BY DESIGNER
FINISH:	MINWAX CLEAR POLYCRYLIC
FASTENERS:	FINISH SCREWS
SPEC SECTION:	06XXXX



AC-01 ACOUSTIC PANEL (CEILING)

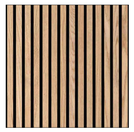
MANUFACTURER:	PINTA (JE ALLEN CO.)
PRODUCT:	WILLTEC - FLAT SHEETS
COLOR:	FACTORY PAINTED - MATCH P-01 (EDGES TO MATCH)*
EDGE:	SQUARE
SIZE:	44" X 96" (RECTANGULAR SHAPE)
THICKNESS:	3"
MOUNT:	SUSPENDED - RE: RCP FOR INSTALL HEIGHT AFF
LOCATION:	RE: RCP
SPEC SECTION:	09 51 00

***MUST BE FACTORY PAINTED BY ACOUSTICAL PANEL MANUFACTURER ONLY. DO NOT FIELD PAINT.**



CPT-02 CARPET TILE 02

MANUFACTURER:	MOHAWK
COLLECTION:	FRACTAL FINDINGS
STYLE:	DISCOVERD B1610
COLOR:	WINDSWEPT 855
SIZE:	24" X 24"
INSTALL METHOD:	MANUFACTURER'S ADHESIVE DOTS
INSTALL PATTERN:	ASHLAR
EDGE TRIM:	JOHNSONITE TARKETT - SLIM LINE TRANSITION SLT-XX-J
SPEC SECTION:	09 91 23



WW-02 WOOD WALL 02

SPECIES:	WHITE OAK
GRADE:	STAIN GRADE OR BETTER
SURFACE PROFILE:	S4S
SIZE:	1X4 NOMINAL
STAIN:	TBD BY DESIGNER
FINISH:	MINWAX CLEAR POLYCRYLIC
FASTENERS:	FINISH SCREWS
SPEC SECTION:	06XXXX



AC-02 ACOUSTIC PANEL (CEILING)

MANUFACTURER:	PINTA (JE ALLEN CO.)
PRODUCT:	WILLTEC - FLAT SHEETS
COLOR:	FACTORY PAINTED - MATCH P-01 (EDGES TO MATCH)*
EDGE:	SQUARE
SHAPE:	RECTANGULAR
SIZE:	VARIES
	A: 44" X 96"
	B: 44" X 72"
	C: 44" X 60"
	D: 44" X 48"
THICKNESS:	2"
MOUNT:	SURFACE MOUNT (DIRECT TO STRUCTURE)
LOCATION:	RE: RCP
SPEC SECTION:	09 51 00

***MUST BE FACTORY PAINTED BY ACOUSTICAL PANEL MANUFACTURER ONLY. DO NOT FIELD PAINT.**

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contents
FINISH LEGEND - INTERIOR

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project. 25.18

A5.00

LIGHTING LEGEND



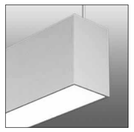
PL-01 — **PENDANT 01**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EX3D - 3" SUSPENDED DIRECT LINEAR
MOUNT: SUSPENDED
SIZE: 89"
FINISH: MATTE WHITE (STANDARD)
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



LL-01 — **LINEAR 01**

MANUFACTURER: VODE
PRODUCT: ZIPTWO
LENGTH: 2' INCREMENTS, RE: RCP FOR LENGTHS
MOUNTING: T1 (9/16" T-BAR CLIP, LOW PROFILE) FOR USE W/ ARMSTRONG CEILING
FINISH: WHITE
OPTICS: SQUARE 3520, DIFFUSE
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



PL-01T — **PENDANT 01 (TUNABLE WHITE)**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EX3D - 3" SUSPENDED DIRECT LINEAR
MOUNT: SUSPENDED
SIZE: 89"
FINISH: MATTE WHITE (STANDARD)
COLOR TEMP: TUNABLE WHITE CCT
DIMMABLE: SYSTEM?
SPEC SECTION:



LL-04 — **LINEAR 04**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EV1D
LENGTH: 16'-0"
MOUNTING: RECESSED
FINISH: WHITE
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



PL-02 — **PENDANT 02**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EX3D - 3" SUSPENDED DIRECT LINEAR
MOUNT: SUSPENDED
SIZE: 48"
FINISH: MATTE WHITE (STANDARD)
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION:
LOCATION: STORAGE + MECHANICAL



RL-01 — **RECESSED LIGHT 01**

MANUFACTURER: ALPHABET
PRODUCT: NU ESSENTIALS - 4" ROUND DOWNLIGHT STANDARD WHITE
SIZE: 5"
SHAPE: ROUND
FINISH: WHITE
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



PL-03 — **PENDANT 03**

MANUFACTURER: ALPHABET
PRODUCT: BETA 3 - 3" CYLINDER STANDARD WHITE
MOUNT: PENDANT
FINISH: WHITE (WH)
LENS: DIFFUSED LENS
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION:



LL-03 — **LINEAR 03**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EV1D
LENGTH: 6'-0"
MOUNTING: RECESSED
FINISH: WHITE
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



PL-04 — **PENDANT 04**

MANUFACTURER: ALPHABET
PRODUCT: BETA 3 - 4" CYLINDER STANDARD WHITE
MOUNT: PENDANT
FINISH: WHITE (WH)
LENS: DIFFUSED LENS
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION:



LL-02 — **LINEAR 02**

MANUFACTURER: PINNACLE ARCHITECTURAL LIGHTING
PRODUCT: EDGE EV1D
LENGTH: 4'-0"
MOUNTING: RECESSED
FINISH: WHITE
COLOR TEMP: 3000K
DIMMABLE: YES
SPEC SECTION:



PL-04A — **PENDANT 04A**

MANUFACTURER: ALPHABET
PRODUCT: BETA 3 - 4" CYLINDER STANDARD WHITE
MOUNT: PENDANT
FINISH: WHITE (WH)
LENS: DIFFUSED LENS
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION:



PL-05 — **PENDANT 05**

MANUFACTURER: OCL
PRODUCT: EAU PENDANT
SIZE: 16" DIA.
FINISH: MATTE WHITE (MWP)
CORD COLOR: WHITE POWER CORD
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION: 22XXXX



PL-06 — **PENDANT 06**

MANUFACTURER: SPI LIGHTING
PRODUCT: PAVO 2"
SIZE: 2"W x 36" H
FINISH: WHITE
CORD COLOR: WHITE
COLOR TEMP: 3000K
CRI: 90
DIMMABLE: YES
SPEC SECTION: 22XXXX

PLUMBING LEGEND



WC-01 — **WATER CLOSET 01**

MANUFACTURER: AMERICAN STANDARD
PRODUCT: MADERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET
FLUSH VALVE: AMERICAN STANDARD ULTIMA SELECTRONIC TOUCHLESS FLUSH VALVE, PISTON-TYPE, BATTERY, 1.0 GPF
SEAT: COMMERCIAL HEAVY DUTY OPEN FRONT ELONGATED TOILET SEAT W/ EVERCLEAN SURFACE
COLOR: WHITE
LOCATION: RESTROOMS
SPEC SECTION: 07XXXX



LAV-01 — **LAVATORY SINK 01**

MANUFACTURER: NAMEEKS
PRODUCT: TEOREMA 2.0 PLUS
STYLE: SCARABEO 5146
COLOR: WHITE
FAUCET HOLES: ONE HOLE
SPEC SECTION: 22XXXX



S-01 — **SINK 01**

MANUFACTURER: KRAUS
SERIES: STANDART PRO
PRODUCT: 28" UNDERMOUNT 16 GAUGE SINGLE BOWL 2-HOLE STAINLESS STEEL KITCHEN SINK
DIMENSIONS: 28"L x 22"W x 10-1/2"D (MIN. CABINET SIZE: 30")
BOWL DIMS: 26" x 18" x 10"
FINISH: STAINLESS STEEL
SPEC SECTION: 22XXXX



GD-01 — **GARBAGE DISPOSAL 01**

MANUFACTURER: INSINKERATOR
PRODUCT: EVOLUTION 1.0HP GARBAGE DISPOSAL
POWER: 120V
FINISH: STAINLESS STEEL
LOCATION: WITH S-01 (BREAK ROOM KITCHENETTE)
SPEC SECTION: 22 00 00



PT-01 — **PAPER TOWEL DISPENSER**

MANUFACTURER: BOBRICK
PRODUCT: TRIMLINE SERIES - RECESSED PAPER TOWEL DISPENSER + WASTE RECEPTACLE, 12-GALLON WASTE
ITEM #: B-39003
FINISH: SATIN STAINLESS STEEL
LOCATION: RESTROOMS
SPEC SECTION: 102800



SD-01 — **SOAP DISPENSER**

MANUFACTURER: BOBRICK
PRODUCT: TRIMLINE SERIES - SURFACE-MOUNTED AUTOMATIC FOAM SOAP DISPENSER, 27-FL OZ
FINISH: SATIN STAINLESS STEEL
LOCATION: RESTROOMS
SPEC SECTION: 102800



TT-01 — **TOILET TISSUE DISPENSER**

MANUFACTURER: BOBRICK
PRODUCT: TRIMLINE SERIES - SURFACE-MOUNTED TOILET TISSUE DISPENSER, 2 ROLLS
FINISH: SATIN STAINLESS STEEL
LOCATION: RESTROOMS
SPEC SECTION: 102800



SN-01 — **SANITARY NAPKIN DISPOSAL**

MANUFACTURER: KRAUS
SERIES: STANDART PRO
PRODUCT: 28" UNDERMOUNT 16 GAUGE SINGLE BOWL 2-HOLE STAINLESS STEEL KITCHEN SINK
DIMENSIONS: 28"L x 22"W x 10-1/2"D (MIN. CABINET SIZE: 30")
BOWL DIMS: 26" x 18" x 10"
FINISH: STAINLESS STEEL
SPEC SECTION: 22XXXX



AS-01 — **AIR SWITCH 01**

MANUFACTURER: DELTA
PRODUCT: AIR SWITCH
FINISH: ARCTIC STAINLESS
LOCATION: WITH S-01 (BREAK ROOM KITCHENETTE)
SPEC SECTION: 22 00 00



FA-01 — **LAV FAUCET 01**

MANUFACTURER: DELTA
COLLECTION: MODERN
PRODUCT: SINGLE HANDLE PROJECT-PACK BATHROOM FAUCET
FINISH: SATIN STAINLESS
SPEC SECTION: 22 40 00



FA-02 — **SINK FAUCET 02**

MANUFACTURER: DELTA
COLLECTION: TRINSIC
PRODUCT: SINGLE HANDLE PULL-DOWN KITCHEN FAUCET W/ TOUCH-2-O TECHNOLOGY
FINISH: ARCTIC STAINLESS
SPEC SECTION: 22 40 00



UR-01 — **WATER CLOSET 02**

MANUFACTURER: AMERICAN STANDARD
PRODUCT: URINAL
FLUSH VALVE: ULTIMA SELECTRONIC EXPOSED URINAL FLUSH VALVE, PISTON-TYPE, BATTERY (TOUCHLESS)
COLOR: WHITE
LOCATION: MEN'S RESTROOMS
SPEC SECTION: 07XXXX

APPLIANCE LEGEND



RF-01 — **REFRIGERATOR 01**

MANUFACTURER: FRIGIDAIRE
PRODUCT: PROFESSIONAL 19 CU. FT. SINGLE DOOR REFRIGERATOR
MODEL: FPRU19F8WF
FINISH: STAINLESS STEEL
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 40 00



FZ-01 — **FREEZER 01**

MANUFACTURER: FRIGIDAIRE
PRODUCT: PROFESSIONAL 19 CU. FT. SINGLE DOOR FREEZER
ITEM #: FPFU19F8WF
FINISH: STAINLESS STEEL
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 40 00



DW-01 — **DISHWASHER 01**

MANUFACTURER: FRIGIDAIRE
PRODUCT: PROFESSIONAL 24" STAINLESS STEEL TUB DISHWASHER
MODEL: PDSH4B168F
FINISH: STAINLESS STEEL
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 30 13



RG-01 — **RANGE 01**

MANUFACTURER: FRIGIDAIRE
PRODUCT: PROFESSIONAL 30" ELECTRIC RANGE
MODEL: PCFE3080AF
FINISH: STAINLESS STEEL
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 30 13



ICM-01 — **ICE MAKER/WATER 01**

MANUFACTURER: MANITOWOC
PRODUCT: COUNTERTOP NUGGET ICE MACHINE + DISPENSER
ITEM #: CNP0201
FEATURES: TOUCHLESS DISPENSING
SIZE: 16.25"W x 24"D x 35"H
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 40 00



MWV-01 — **MICROWAVE 01**

MANUFACTURER: KITCHENAID
PRODUCT: 2.2 CU. FT. COUNTERTOP MICROWAVE W/ AUTO FUNCTIONS
MODEL: KMCS324PBS
SIZE:
FINISH: BLACK STAINLESS STEEL W/ PRINTSHIELD FINISH
LOCATION: BREAK ROOM KITCHENETTE
SPEC SECTION: 11 30 13



TST-01 — **TOASTER 01**

MANUFACTURER: KITCHENAID
PRODUCT: 2-SLICE TOASTER W/ MANUAL LIFT LEVER
ITEM #: KMT2115SX
FINISH: BRUSHED STAINLESS STEEL
SIZE: 7-3/4"W x 7-1/2"H x 12"D
LOCATION: BREAK ROOM KITCHENETTE



WMD-01 — **WARMING DRAWER 01**

MANUFACTURER: KITCHENAID
PRODUCT: 24" WARMING DRAWER
ITEM #: KOWT104ESS
DIMENSIONS: 23.75"W x 10.25"H x 26"D
FINISH: STAINLESS STEEL
LOCATION: BREAK ROOM KITCHENETTE



CFF-01 — **COFFEE MAKER 01**

MANUFACTURER: FLAVIA
PRODUCT: CREATION 600
ADD-ONS: WITH CHILL MODULE
LOCATION: BREAK ROOM KITCHEN

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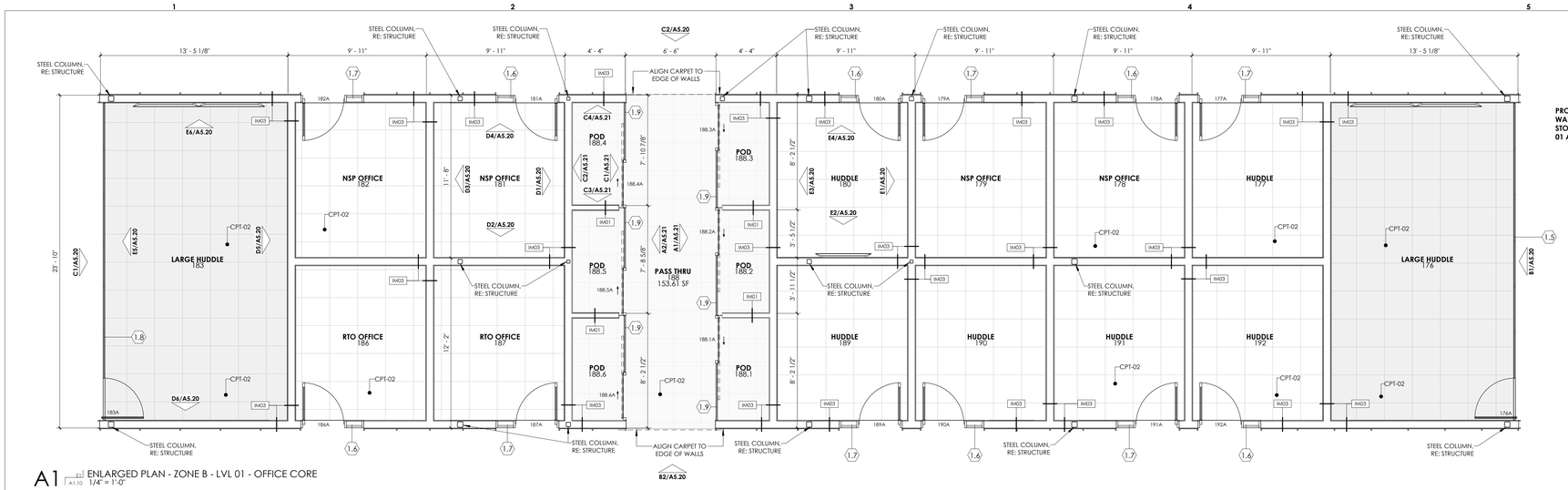
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contents.
FIXTURE LEGEND - INTERIOR

design. CD
date. 2026.09.11
project. 25.18

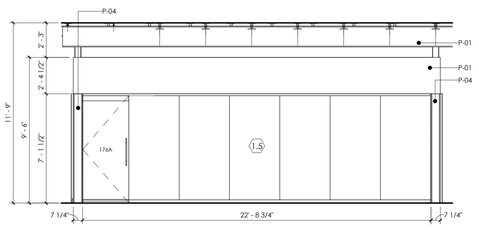
A5.01



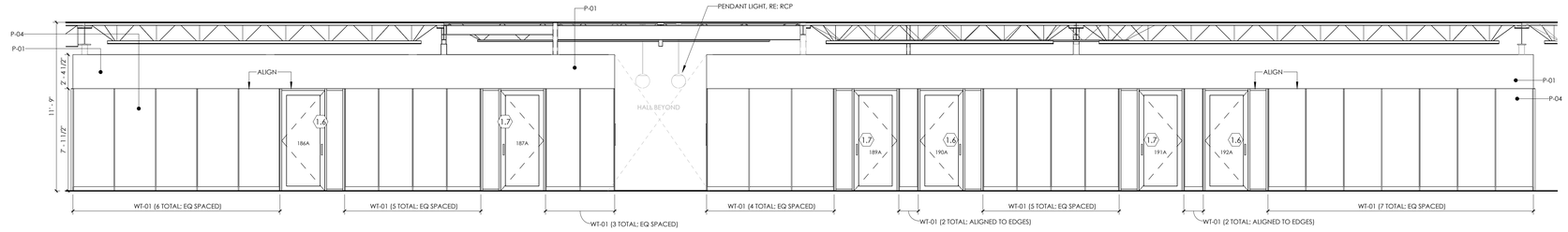
A1 ENLARGED PLAN - ZONE B - LVL 01 - OFFICE CORE
A1.10 1/4" = 1'-0"

PROVIDE ALTERNATIVE PRICING USING DIRTT WALL SYSTEM FOR ALL INTERIOR WALLS AND STOREFRONT GLAZING / DOORS IN THE LEVEL 01 AND LEVEL 02 "OFFICE CORE". (TYP)

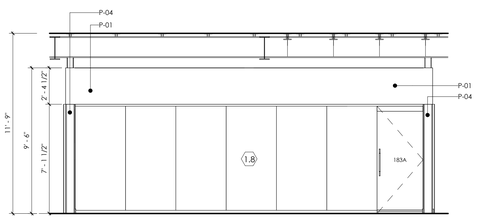
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



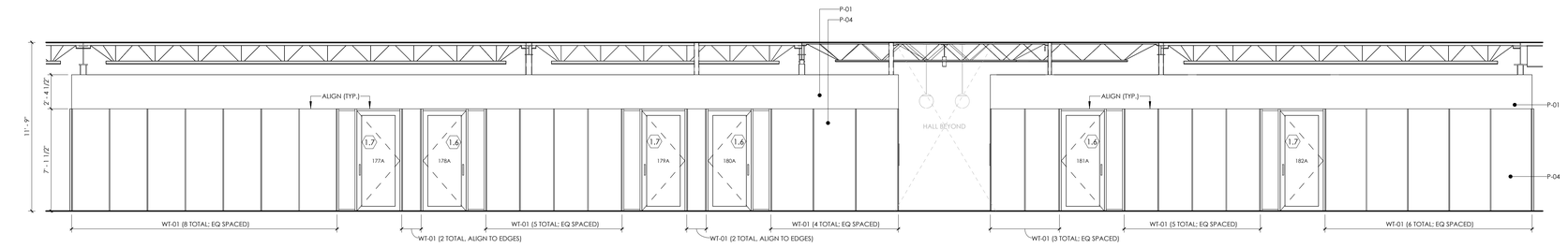
B1 INT ELEV - OFFICE CORE - TYPICAL - NORTH
A5.20 1/4" = 1'-0"



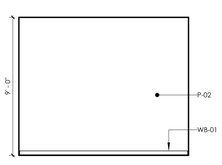
B2 INT ELEV - OFFICE CORE - TYPICAL - EAST
A5.20 1/4" = 1'-0"



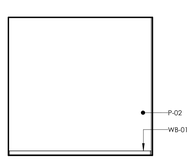
C1 INT ELEV - OFFICE CORE - TYPICAL - SOUTH
A5.20 1/4" = 1'-0"



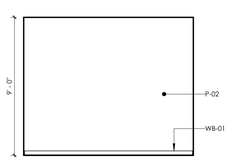
C2 INT ELEV - OFFICE CORE - TYPICAL - WEST
A5.20 1/4" = 1'-0"



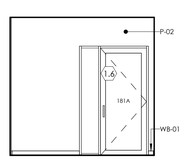
D1 INT ELEV - NSP OFFICE TYP - NORTH
A5.20 1/4" = 1'-0"



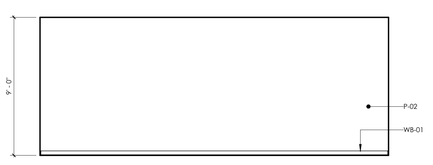
D2 INT ELEV - NSP OFFICE TYP - EAST
A5.20 1/4" = 1'-0"



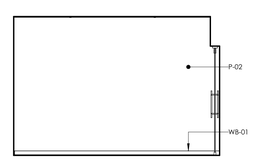
D3 INT ELEV - NSP OFFICE TYP - SOUTH
A5.20 1/4" = 1'-0"



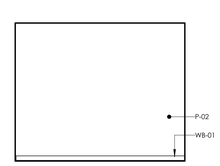
D4 INT ELEV - NSP OFFICE TYP - WEST
A5.20 1/4" = 1'-0"



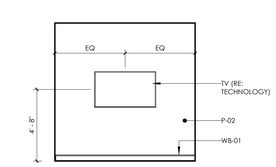
D5 INT ELEV - LARGE HUDDLE TYP - NORTH
A5.20 1/4" = 1'-0"



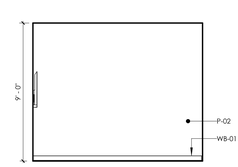
D6 INT ELEV - LARGE HUDDLE TYP - EAST
A5.20 1/4" = 1'-0"



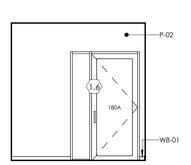
E1 INT ELEV - HUDDLE TYP - NORTH
A5.20 1/4" = 1'-0"



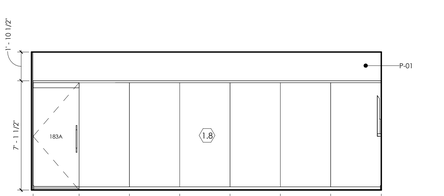
E2 INT ELEV - HUDDLE TYP - EAST
A5.20 1/4" = 1'-0"



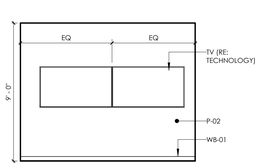
E3 INT ELEV - HUDDLE TYP - SOUTH
A5.20 1/4" = 1'-0"



E4 INT ELEV - HUDDLE TYP - WEST
A5.20 1/4" = 1'-0"



E5 INT ELEV - LARGE HUDDLE TYP - SOUTH
A5.20 1/4" = 1'-0"



E6 INT ELEV - LARGE HUDDLE TYP - WEST
A5.20 1/4" = 1'-0"

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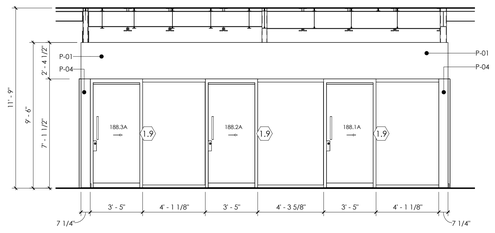
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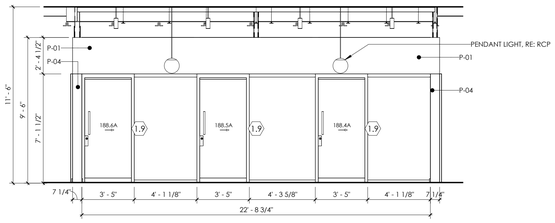
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ENLARGED PLANS + INT. ELEVATIONS - OFFICE CORE - ZONE B

design. CD
date. 2026.09.11
project. 25.18

A5.20

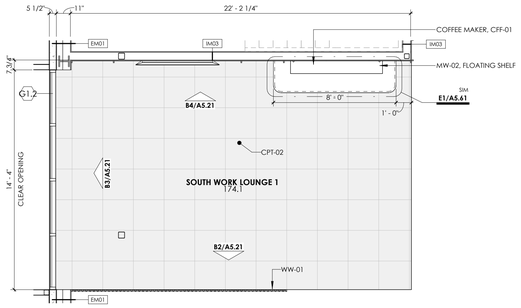


A1 A5.20 INT ELEV - LVL 01 - PASS THRU 188 NORTH
1/4" = 1'-0"

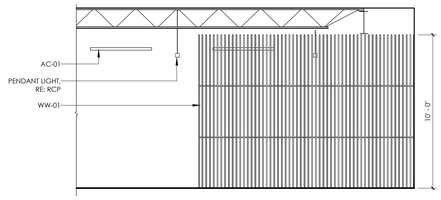


A2 A5.20 INT ELEV - LVL 01 - PASS THRU 188 SOUTH
1/4" = 1'-0"

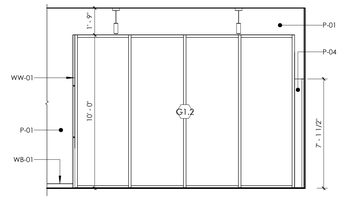
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



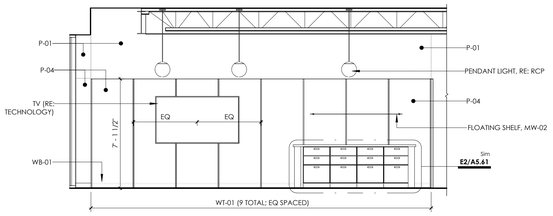
B1 A1.10 ENLARGED PLAN - ZONE B - LVL 01 - SOUTH WORK LOUNGE
1/4" = 1'-0"



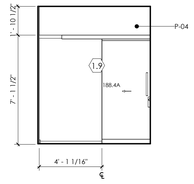
B2 A5.21 INT ELEV - ZONE B - LVL 01 - SOUTH WORK LOUNGE - EAST
1/4" = 1'-0"



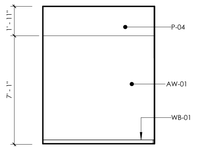
B3 A4.B1 INT ELEV - ZONE B - LVL 01 - SOUTH WORK LOUNGE - SOUTH
1/4" = 1'-0"



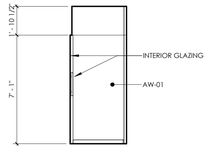
B4 A5.21 INT ELEV - ZONE B - LVL 01 - SOUTH WORK LOUNGE - WEST
1/4" = 1'-0"



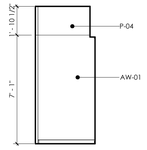
C1 A5.20 INT ELEV - LARGE POD TYP - NORTH
1/4" = 1'-0"



C2 A5.20 INT ELEV - LARGE POD TYP - SOUTH
1/4" = 1'-0"



C3 A5.20 INT ELEV - LARGE POD TYP - EAST
1/4" = 1'-0"



C4 A5.20 INT ELEV - LARGE POD TYP - WEST
1/4" = 1'-0"

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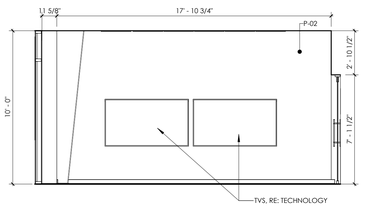
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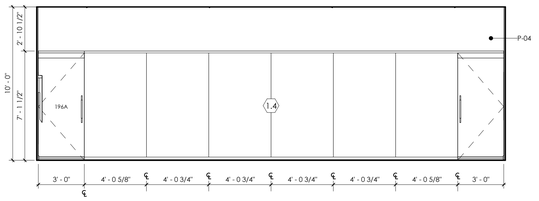
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design: CD
date: 2026.09.11
project: 25.18

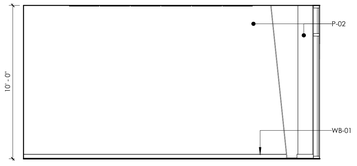
A5.21



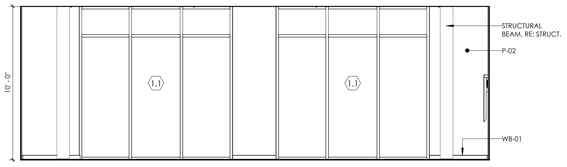
A1 INT ELEV - ZONE B - LVL 01 - BACK 1 CONF RM - SOUTH
A5.22 1/4" = 1'-0"



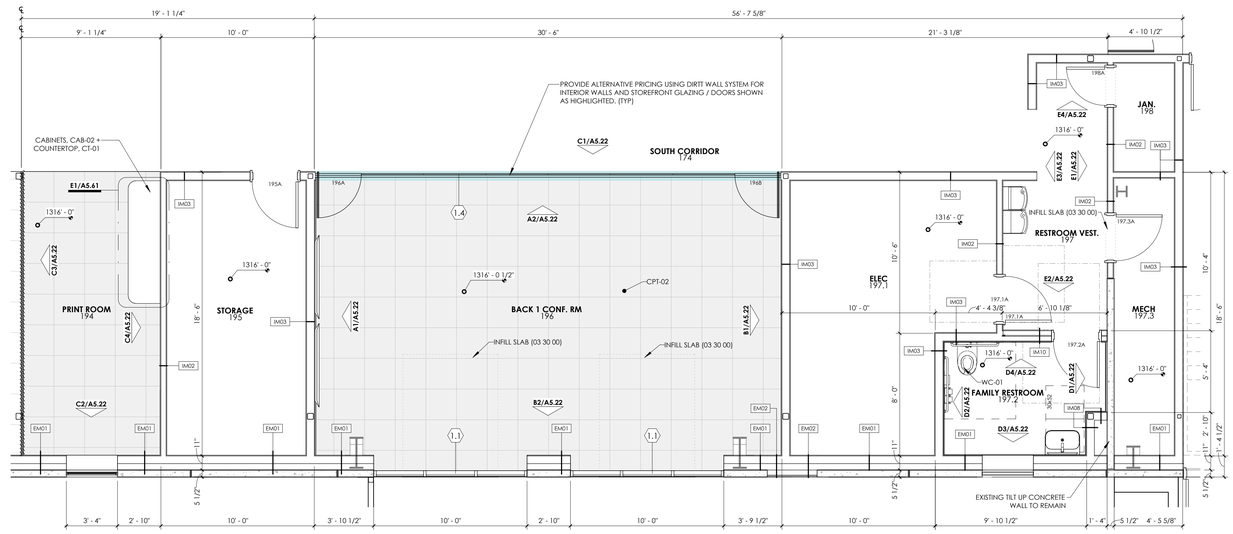
A2 INT ELEV - ZONE B - LVL 01 - BACK 1 CONF RM - WEST
A5.22 1/4" = 1'-0"



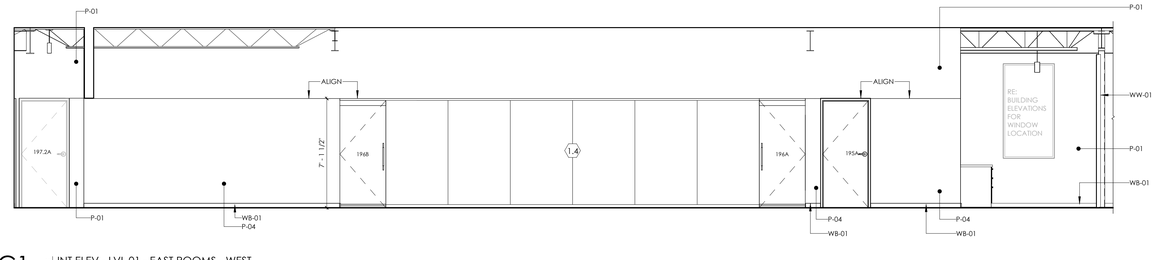
B1 INT ELEV - ZONE B - LVL 01 - BACK 1 CONF RM - NORTH
A5.22 1/4" = 1'-0"



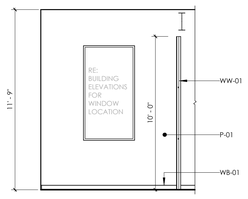
B2 INT ELEV - ZONE B - LVL 01 - BACK 1 CONF RM - EAST
A5.22 1/4" = 1'-0"



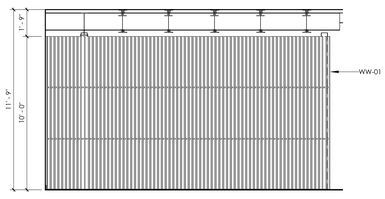
B3 ENLARGED PLAN - ZONE B - LVL 01 - EAST SUPPORT ROOMS
A1.10 1/4" = 1'-0"



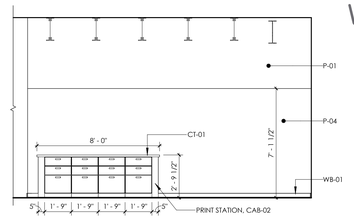
C1 INT ELEV - LVL 01 - EAST ROOMS - WEST
A5.22 1/4" = 1'-0"



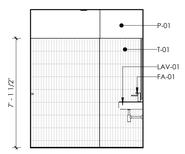
C2 INT ELEV - LVL 01 - PRINT ROOM - EAST
A5.22 1/4" = 1'-0"



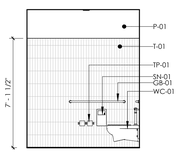
C3 INT ELEV - LVL 01 - PRINT ROOM - SOUTH
A5.22 1/4" = 1'-0"



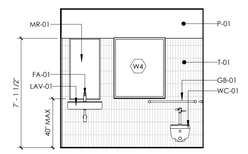
C4 INT ELEV - LVL 01 - PRINT ROOM - NORTH
A5.22 1/4" = 1'-0"



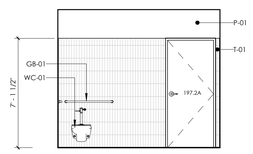
D1 INT ELEV - LVL 01 - FAMILY RR 197.2 - NORTH
A5.22 1/4" = 1'-0"



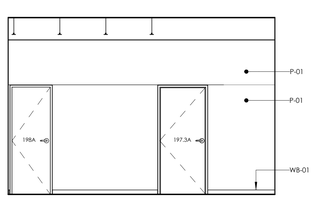
D2 INT ELEV - LVL 01 - FAMILY RR 197.2 - SOUTH
A5.22 1/4" = 1'-0"



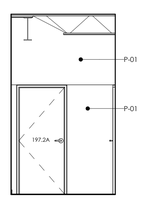
D3 INT ELEV - LVL 01 - FAMILY RR 197.2 - EAST
A5.22 1/4" = 1'-0"



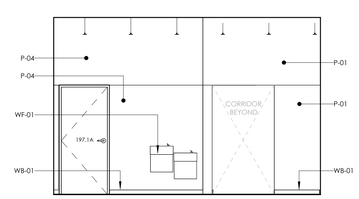
D4 INT ELEV - LVL 01 - FAMILY RR 197.2 - WEST
A5.22 1/4" = 1'-0"



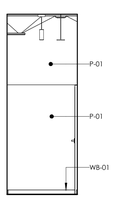
E1 INT ELEV - LVL 01 - RR VESTIBULE 197 - NORTH
A5.22 1/4" = 1'-0"



E2 INT ELEV - LVL 01 - RR VESTIBULE 197 - EAST
A5.22 1/4" = 1'-0"



E3 INT ELEV - LVL 01 - RR VESTIBULE 197 - SOUTH
A5.22 1/4" = 1'-0"



E4 INT ELEV - LVL 01 - RR VESTIBULE 197 - WEST
A5.22 1/4" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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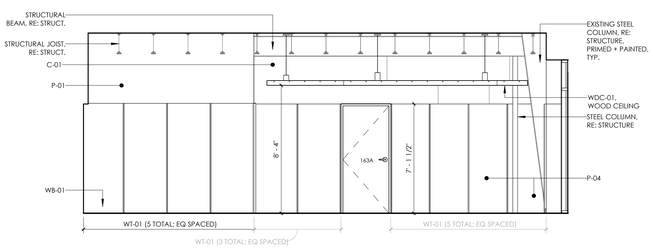
REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION, **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

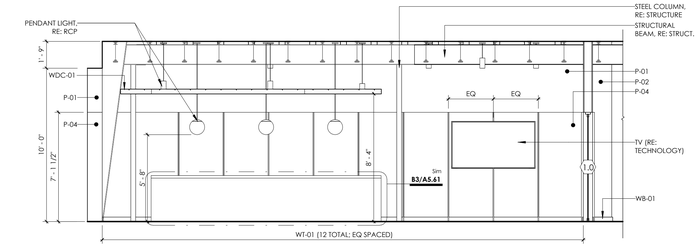
contents.
ENLARGED PLANS + INT. ELEVATIONS - SUPPORT SPACES - ZONE B
design. CD
date. 2026.09.11
project. 25.18

A5.22

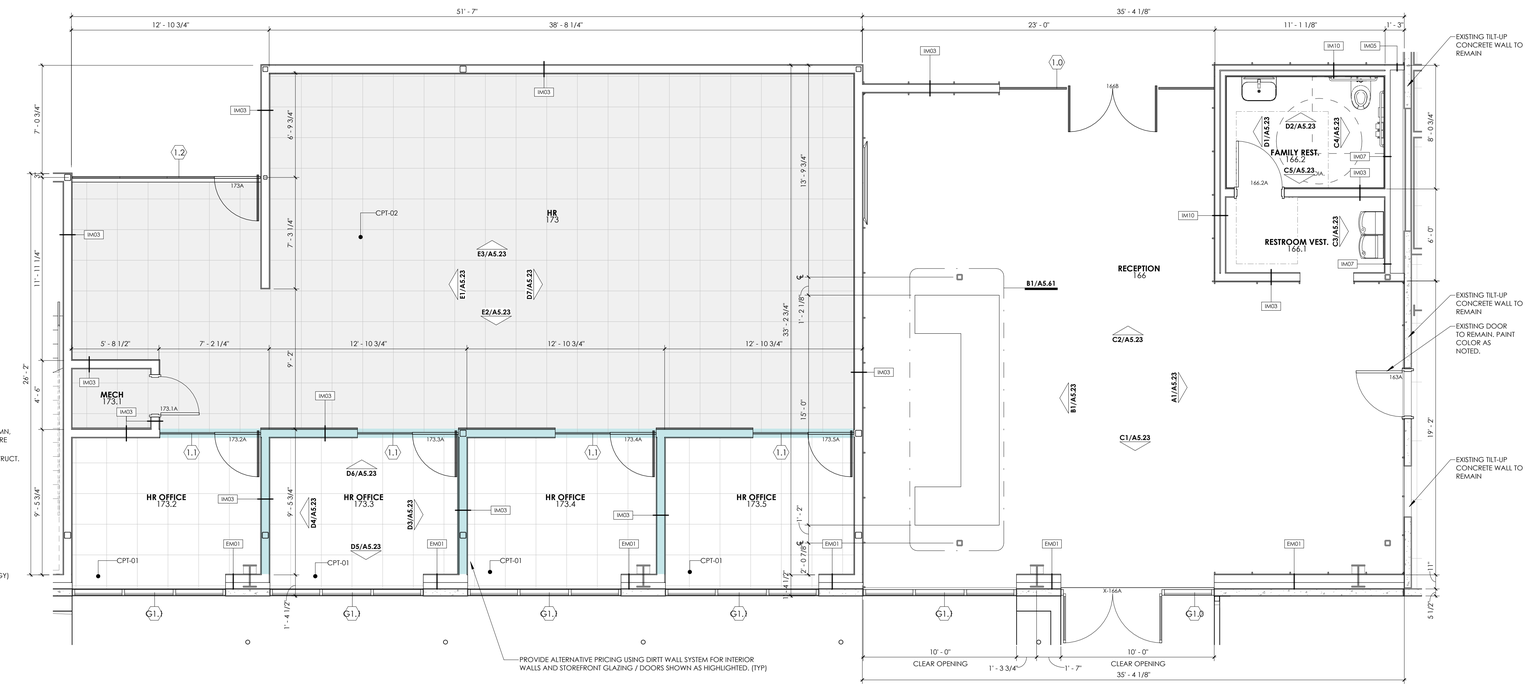
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



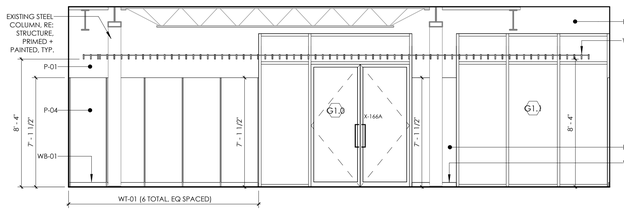
A1 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - RECEPTION - NORTH 1/4" = 1'-0"



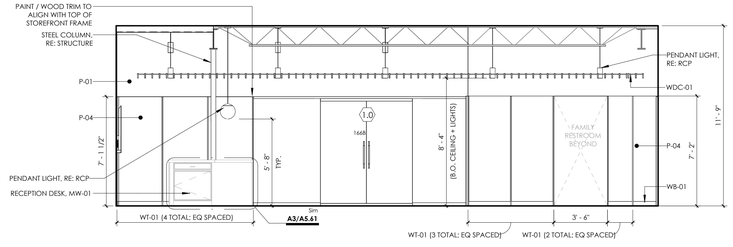
B1 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - RECEPTION - SOUTH 1/4" = 1'-0"



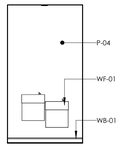
B2 [E1 / A1.10] ENLARGED PLAN - ZONE B - LVL 01 - RECEPTION 1/4" = 1'-0"



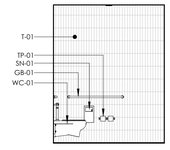
C1 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - RECEPTION - EAST 1/4" = 1'-0"



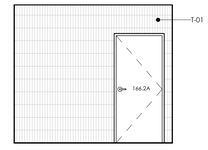
C2 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - RECEPTION - WEST 1/4" = 1'-0"



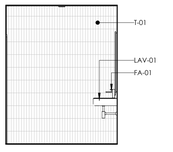
C3 [B2 / A5.23] INT ELEV - RR VESTIBULE - NORTH 1/4" = 1'-0"



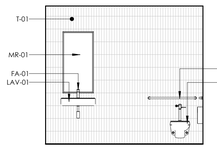
C4 [B2 / A5.23] INT ELEV - LVL 01 - FAMILY RR 166.2 - NORTH 1/4" = 1'-0"



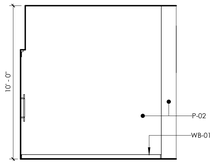
C5 [B2 / A5.23] INT ELEV - LVL 01 - FAMILY RR 166.2 - EAST 1/4" = 1'-0"



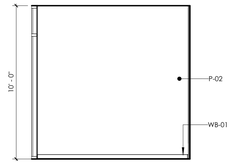
D1 [B2 / A5.23] INT ELEV - LVL 01 - FAMILY RR 166.2 - SOUTH 1/4" = 1'-0"



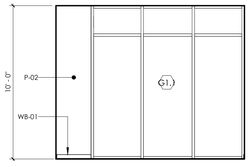
D2 [B2 / A5.23] INT ELEV - LVL 01 - FAMILY RR 166.2 - WEST 1/4" = 1'-0"



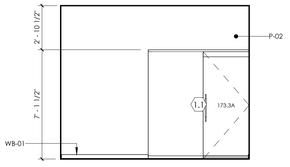
D3 [B2 / A5.23] INT ELEV - LVL 01 - HR OFFICE TYP - NORTH 1/4" = 1'-0"



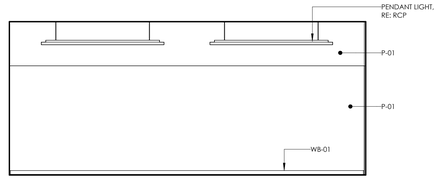
D4 [B2 / A5.23] INT ELEV - LVL 01 - HR OFFICE TYP - SOUTH 1/4" = 1'-0"



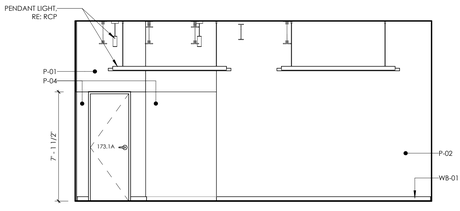
D5 [B2 / A5.23] INT ELEV - LVL 01 - HR OFFICE TYP - EAST 1/4" = 1'-0"



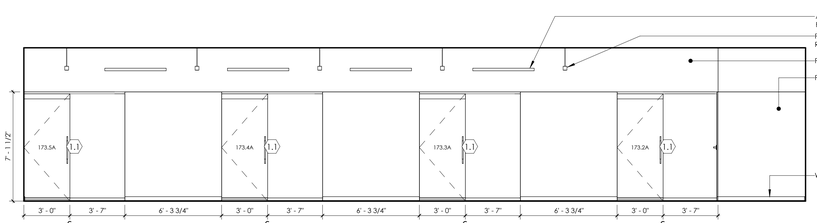
D6 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - HR OFFICE TYP. - WEST 1/4" = 1'-0"



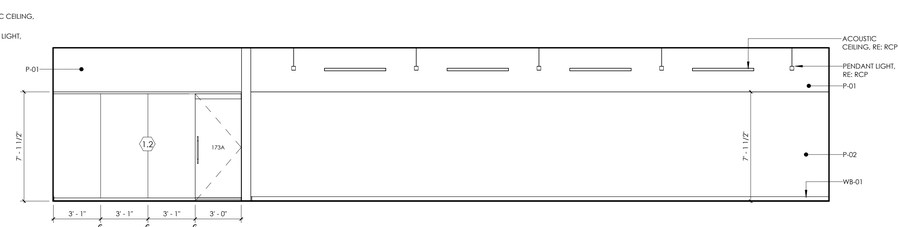
D7 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - HR - NORTH 1/4" = 1'-0"



E1 [B2 / A5.23] INT ELEV - ZONE B - LVL 01 - HR - SOUTH 1/4" = 1'-0"



E2 [C4 / A4.81] INT ELEV - ZONE B - LVL 01 - HR - EAST 1/4" = 1'-0"



E3 [C4 / A4.81] INT ELEV - ZONE B - LVL 01 - HR - WEST 1/4" = 1'-0"

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issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

mark	date	description

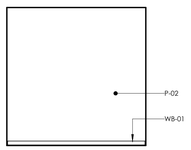
WACHTER

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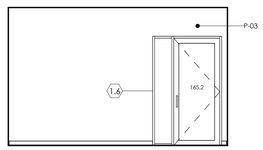
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contents: ENLARGED PLANS + INT. ELEVATIONS - RECEPTION - ZONE B
design: CD
date: 2026.09.11
project: 25.18

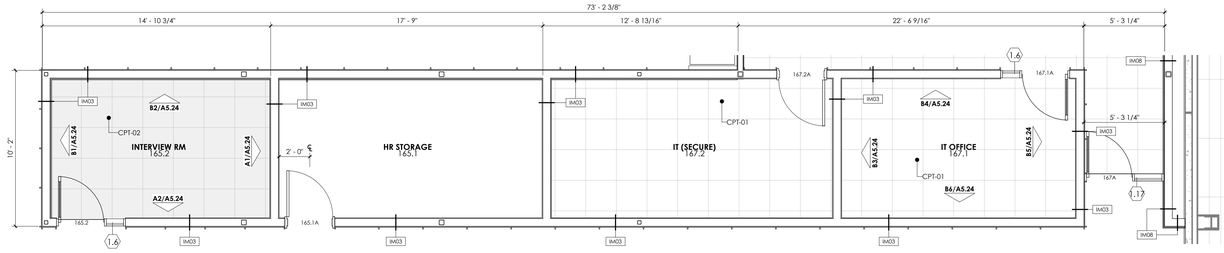
A5.23



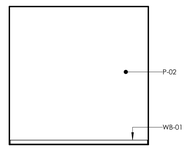
A1 A5.24 INT ELEV - ZONE B - LVL 01 - INTERVIEW RM - NORTH
1/4" = 1'-0"



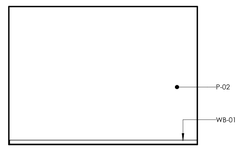
A2 A5.24 INT ELEV - ZONE B - LVL 01 - INTERVIEW RM - EAST
1/4" = 1'-0"



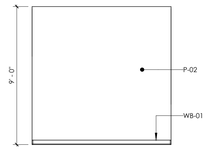
A3 A1.10 ENLARGED PLAN - ZONE B - LVL 01 - STORAGE SPINE
1/4" = 1'-0"



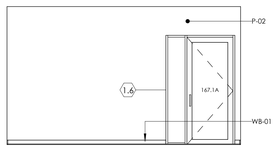
B1 A5.24 INT ELEV - ZONE B - LVL 01 - INTERVIEW RM - SOUTH
1/4" = 1'-0"



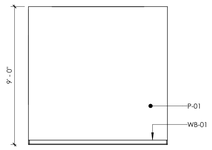
B2 A5.24 INT ELEV - LVL 01 - INTERVIEW RM - WEST
1/4" = 1'-0"



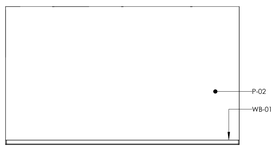
B3 A5.24 INT ELEV - ZONE B - LVL 01 - IT OFFICE - SOUTH
1/4" = 1'-0"



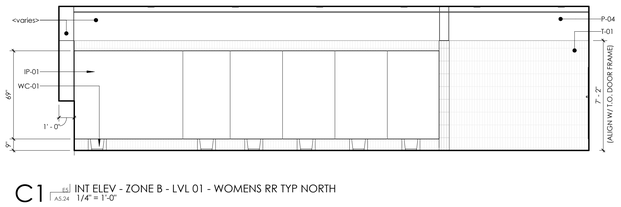
B4 A5.24 INT ELEV - ZONE B - LVL 01 - SECURE IT - WEST
1/4" = 1'-0"



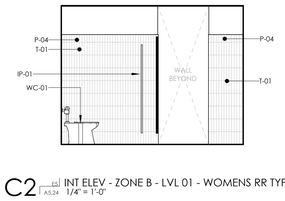
B5 A5.24 INT ELEV - ZONE B - LVL 01 - IT OFFICE - NORTH
1/4" = 1'-0"



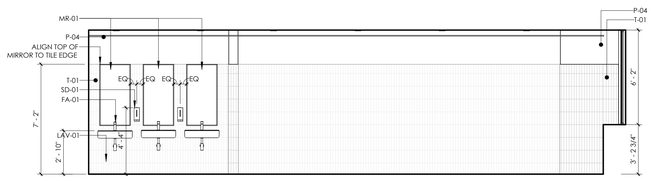
B6 A5.24 INT ELEV - ZONE B - LVL 01 - IT OFFICE - EAST
1/4" = 1'-0"



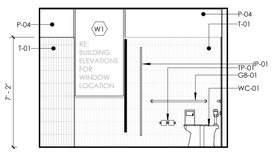
C1 A5.24 INT ELEV - ZONE B - LVL 01 - WOMENS RR TYP NORTH
1/4" = 1'-0"



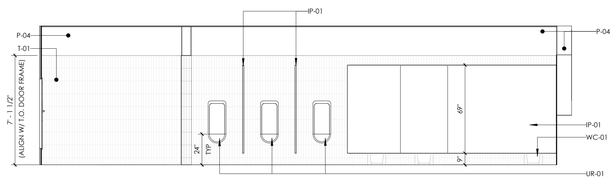
C2 A5.24 INT ELEV - ZONE B - LVL 01 - WOMENS RR TYP - EAST
1/4" = 1'-0"



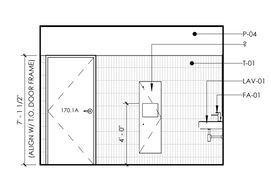
D1 A5.24 INT ELEV - ZONE B - LVL 01 - WOMENS RR TYP SOUTH
1/4" = 1'-0"



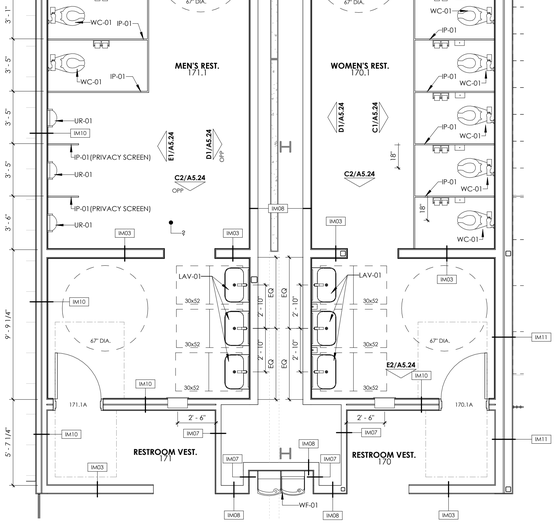
D2 A5.24 INT ELEV - ZONE B - LVL 01 - WOMENS RR TYP - WEST
1/4" = 1'-0"



E1 A5.24 INT ELEV - ZONE B - LVL 01 - MENS RR TYP SOUTH
1/4" = 1'-0"



E2 A5.24 INT ELEV - ZONE B - LVL 01 - WOMENS RR TYP - ENTRY EAST
1/4" = 1'-0"



E5 A1.10 ENLARGED PLAN - ZONE B - LVL 01 - RESTROOMS
1/4" = 1'-0"

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contents.
ENLARGED PLANS + INT. ELEVATIONS - RR + STORAGE SPINE - ZONE B

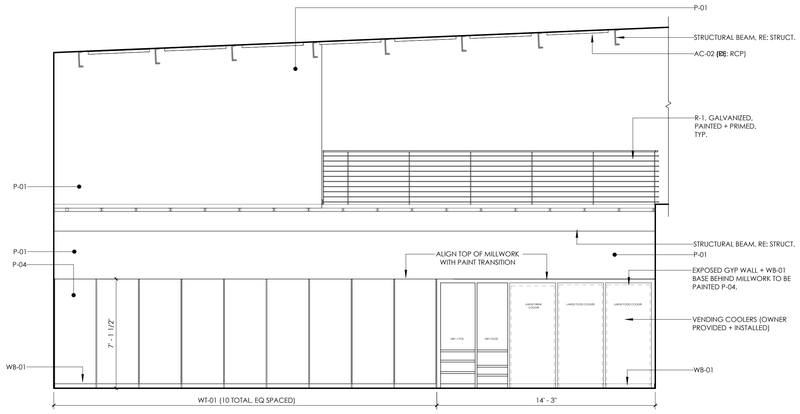
design. CD

date. 2026.09.11

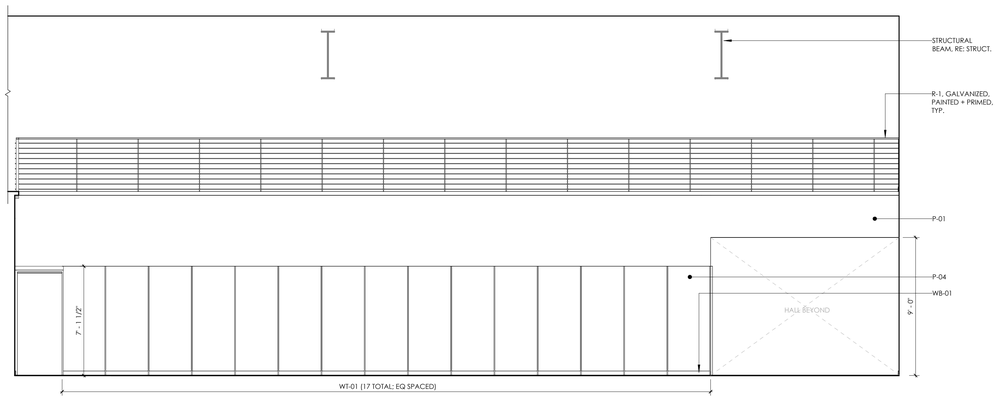
project. 25.18

A5.24

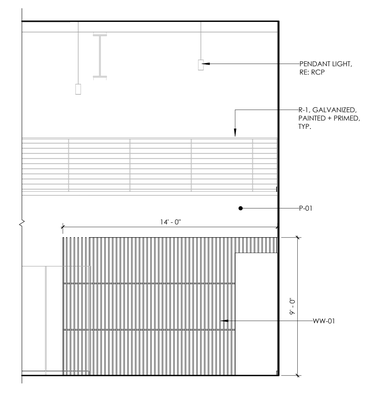
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



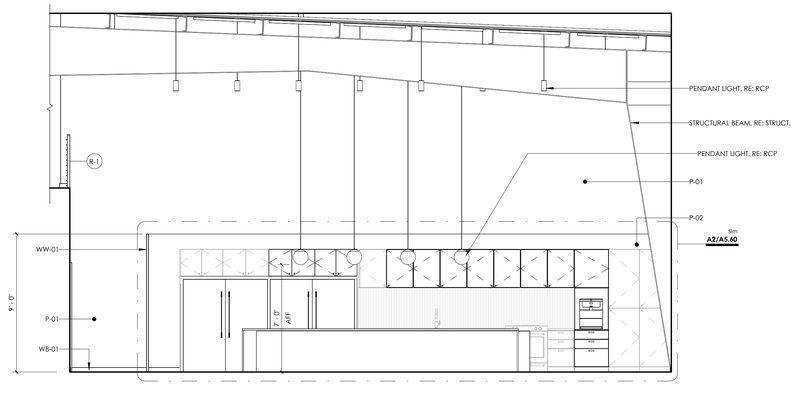
A1 INT ELEV - ZONE B - LVL 01 - BREAK ROOM - NORTH
A1.10 1/4" = 1'-0"



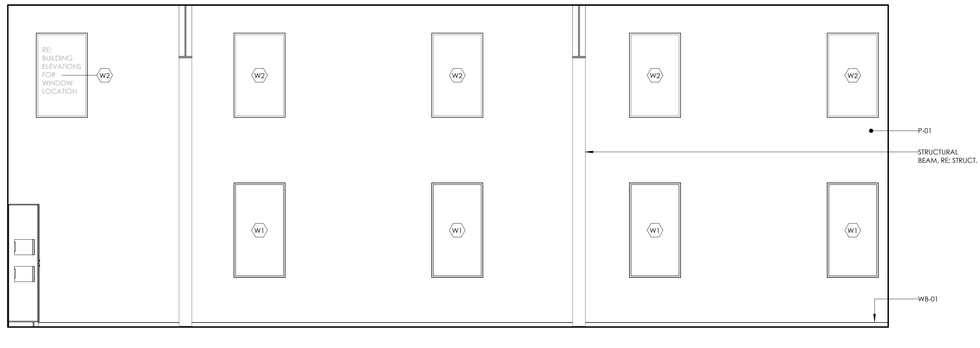
B1 INT ELEV - ZONE B - LVL 01 - BREAK ROOM - EAST
A1.10 1/4" = 1'-0"



B2 INT ELEV - ZONE B - LVL 01 - BREAK ROOM WOOD SCREEN - EAST
A1.10 1/4" = 1'-0"



C1 INT ELEV - ZONE B - LVL 01 - BREAK ROOM - SOUTH
A1.10 1/4" = 1'-0"



C2 INT ELEV - ZONE B - LVL 01 - BREAK ROOM - WEST
A1.10 1/4" = 1'-0"

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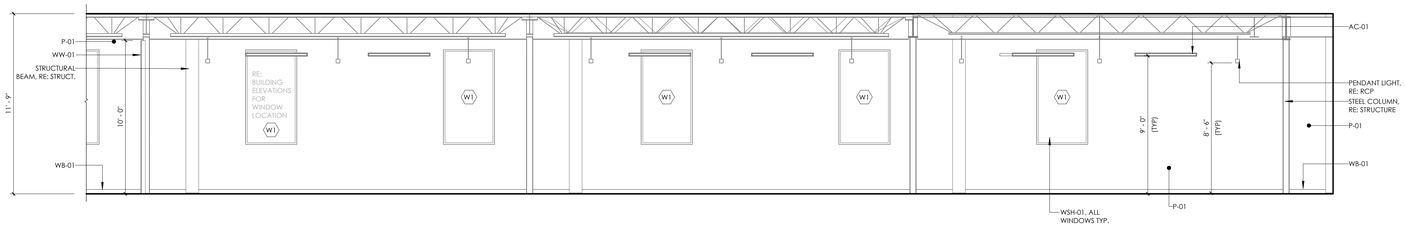
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contents:
ENLARGED PLANS + INT. ELEVATIONS - BREAKROOM - ZONE B

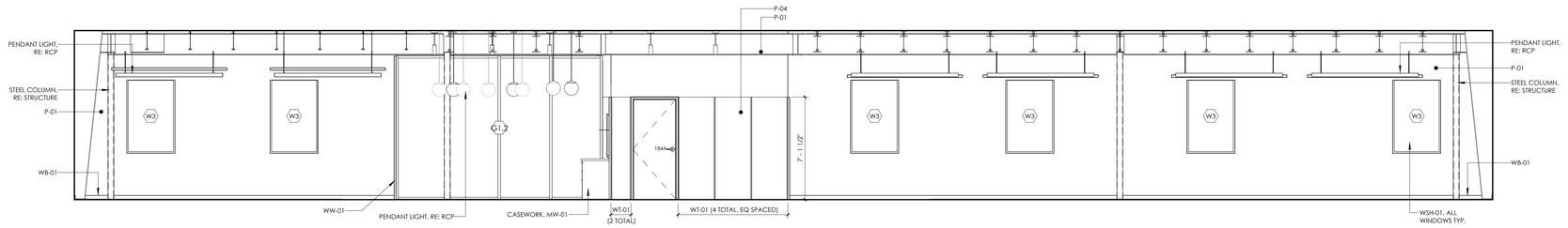
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A5.25

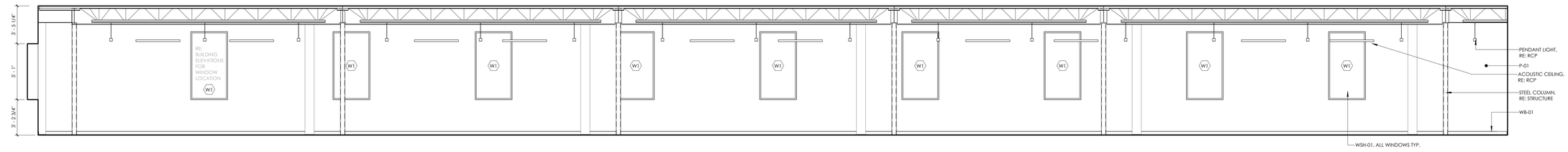
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



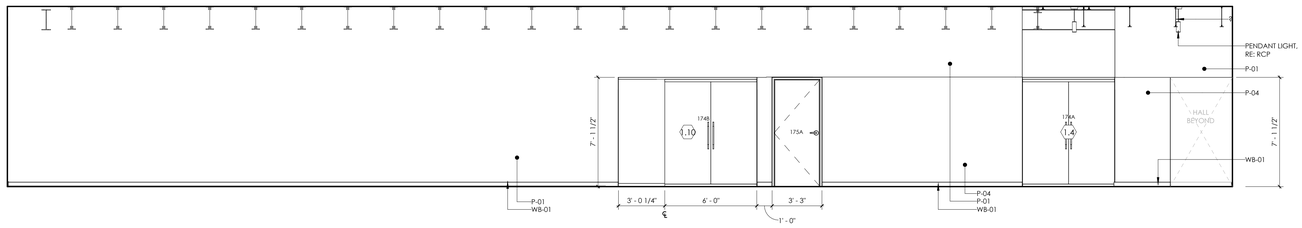
A1 INT ELEV - ZONE B - LVL 01 - EAST OPEN OFFICE - EAST
A4.1.11 1/4" = 1'-0"



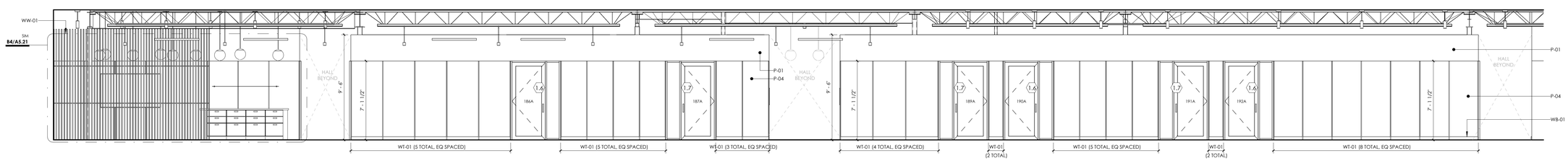
B1 INT ELEV - ZONE B - LVL 01 - OPEN OFFICE - SOUTH
A1.10 1/4" = 1'-0"



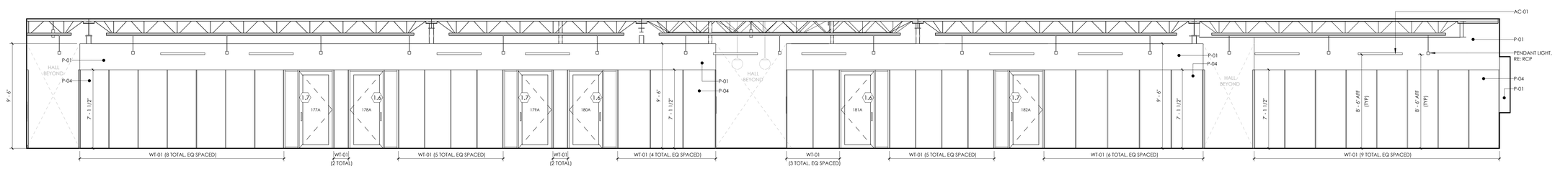
C1 INT ELEV - ZONE B - LVL 01 - WEST OPEN OFFICE - WEST
A1.10 1/4" = 1'-0"



D1 INT ELEV - ZONE B - LVL 01 - WEST OPEN OFFICE - NORTH
A1.10 1/4" = 1'-0"



E1 INT ELEV - ZONE B - LVL 01 - EAST OPEN OFFICE - WEST
A1.10 1/4" = 1'-0"



F1 INT ELEV - ZONE B - LVL 01 - WEST OPEN OFFICE - EAST
A1.10 1/4" = 1'-0"

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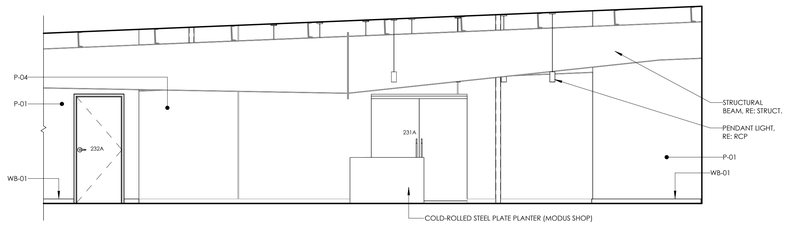
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contents: INTERIOR ELEVATIONS - OPEN OFFICE - ZONE B - LEVEL 01

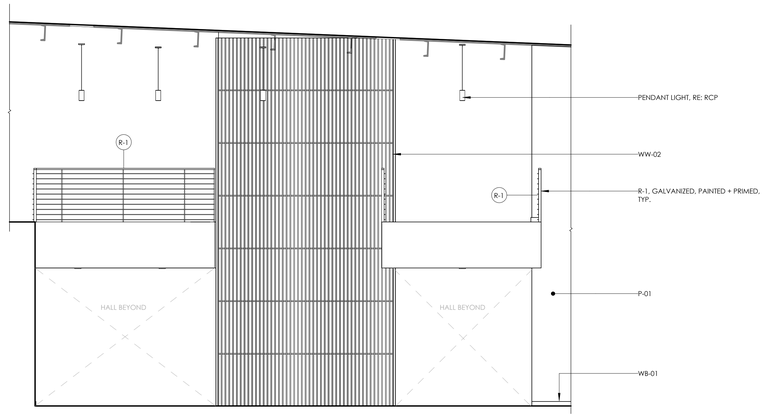
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A5.26

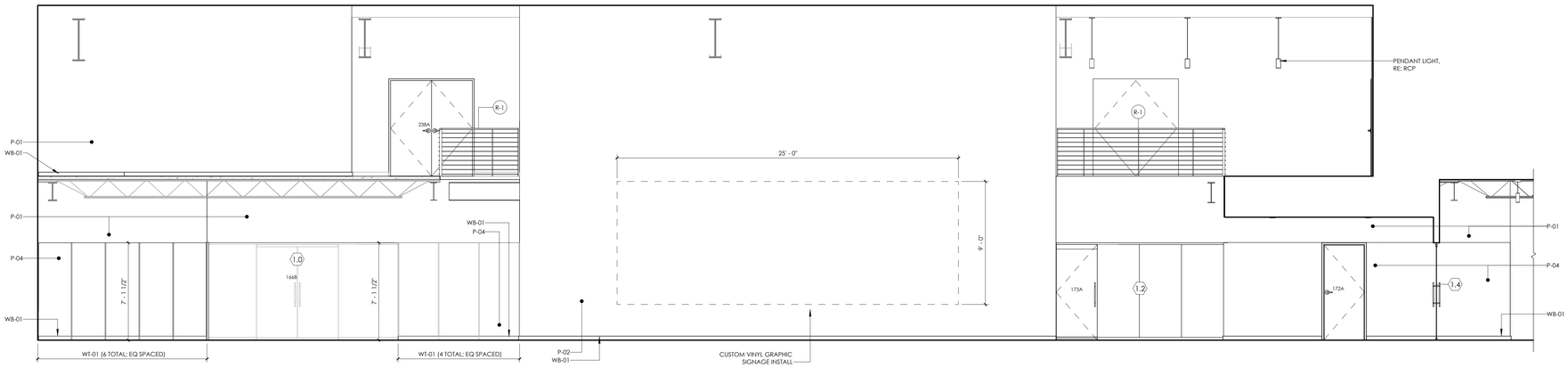
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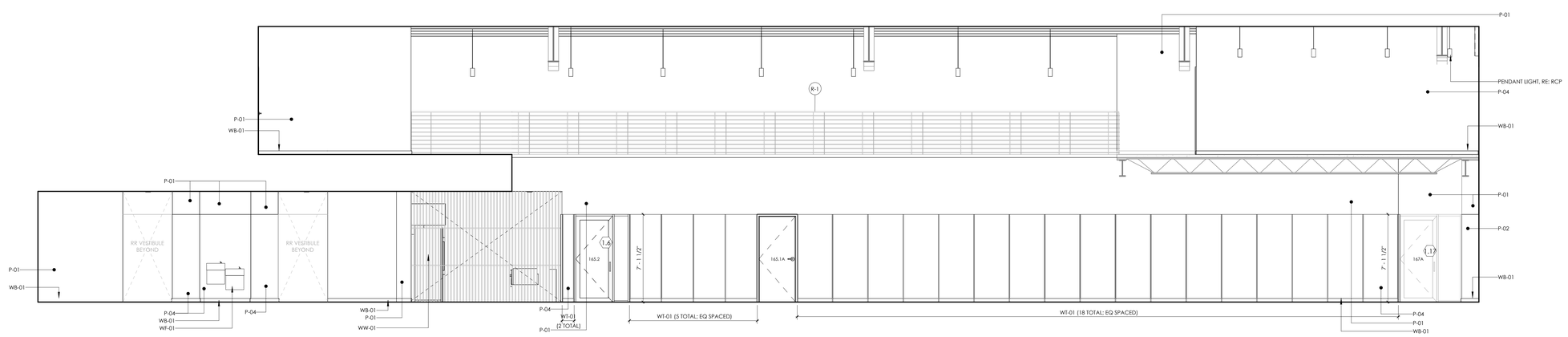
A1 INT ELEV - ZONE B - LVL 02 - LANDING - NORTH
A1.11 1/4" = 1'-0"



A2 INT ELEV - ZONE B - LVL 01 - CENTRAL CORRIDOR - SOUTH
A1.10 1/4" = 1'-0"



B1 INT ELEV - ZONE B - LVL 01 - CENTRAL CORRIDOR - EAST
A1.10 1/4" = 1'-0"



C1 INT ELEV - ZONE B - LVL 01 - CENTRAL CORRIDOR - WEST
A1.10 1/4" = 1'-0"

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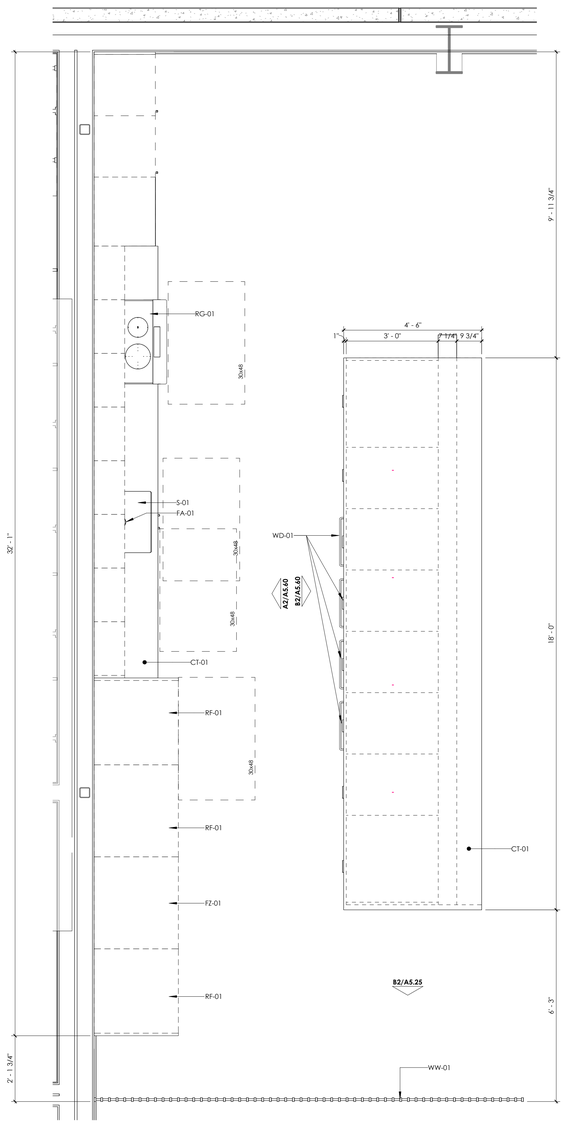
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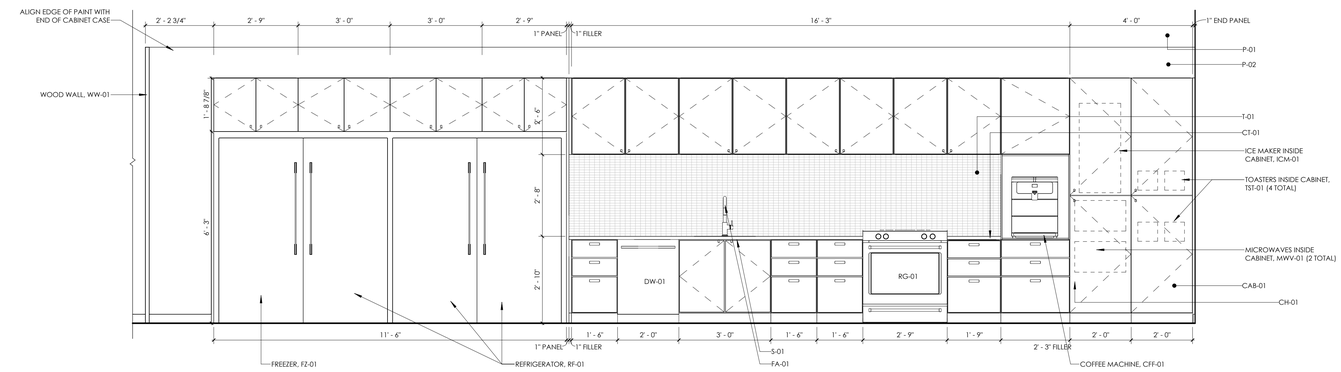
contents:
INTERIOR ELEVATIONS - LOBBY - ZONE B - LEVEL 01

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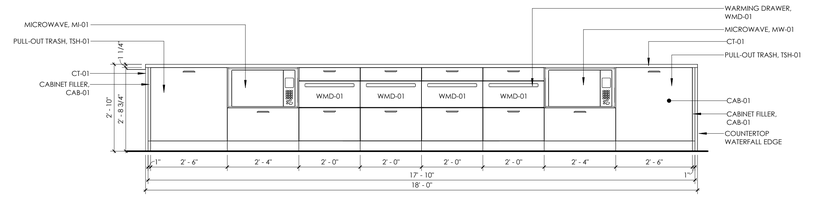
A5.27



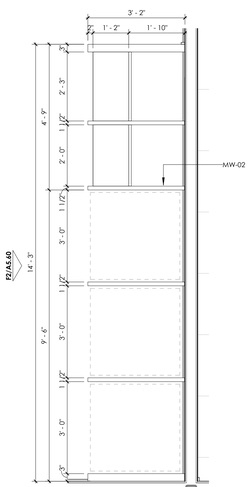
D1 [E1] A1.10 ENLARGED PLAN - ZONE B - LVL 01 - BREAK ROOM KITCHEN 1/2" = 1'-0"



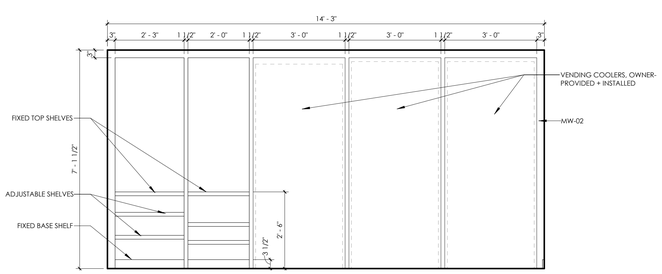
A2 [C1] A5.25 INT ELEV - LVL 01 - KITCHEN - SOUTH 1/2" = 1'-0"



B2 [D1] A5.60 INT ELEV - LVL 01 - BREAK KITCHEN ISLAND - NORTH 1/2" = 1'-0"



F1 [E1] A1.10 ENLARGED PLAN - ZONE B - LVL 01 - BREAK ROOM VENDING 1/2" = 1'-0"



F2 [A1] A5.24 INT ELEV - LVL 01 - VENDING - NORTH 1/2" = 1'-0"

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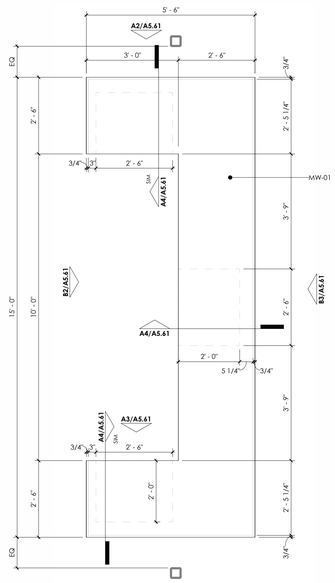
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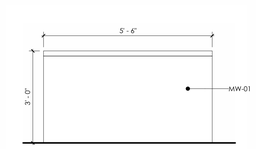
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MILLWORK - ZONE B

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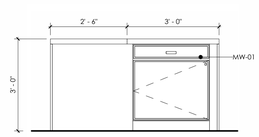
A5.60



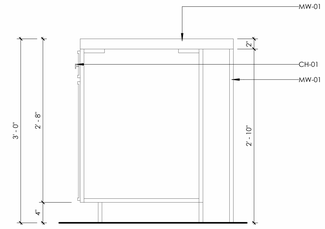
B1 MILLWORK PLAN - LVL 01 - RECEPTION DESK
A1.10 1/2" = 1'-0"



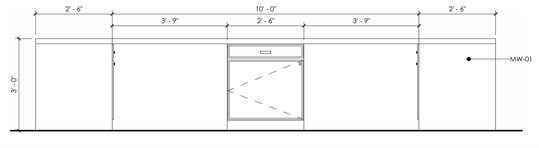
A2 MILLWORK ELEVATION - RECEPTION DESK - EAST 01
A0.33 1/2" = 1'-0"



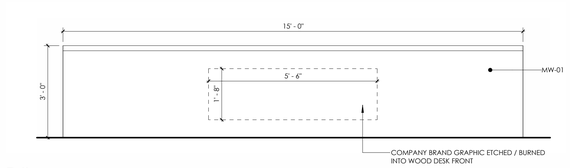
A3 MILLWORK ELEVATION - RECEPTION DESK - EAST 02
A0.33 1/2" = 1'-0"



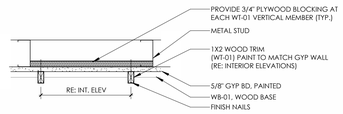
A4 MILLWORK SECTION - RECEPTION DESK - CABINET
A5.61 1" = 1'-0"



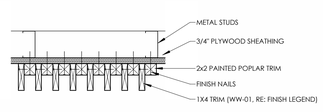
B2 MILLWORK ELEVATION - RECEPTION DESK - NORTH
A0.33 1/2" = 1'-0"



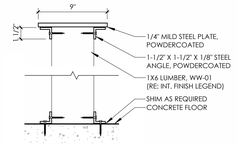
B3 MILLWORK ELEVATION - RECEPTION DESK - SOUTH
A0.33 1/2" = 1'-0"



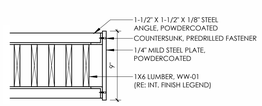
C1 PLAN DETAIL - TYP. WT-01 (WOOD TRIM)
1 1/2" = 1'-0"



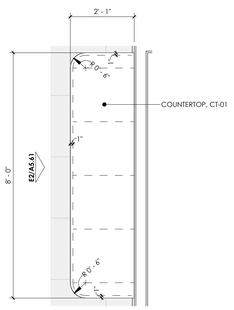
C2 PLAN DETAIL - TYP. WW-02 (WOOD WALL)
1 1/2" = 1'-0"



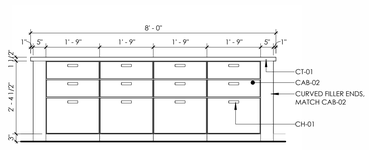
C3 SECTION DETAIL - TYP. WW-01 (FREESTANDING WOOD WALL)
1 1/2" = 1'-0"



C4 PLAN DETAIL - TYP. WW-01 (FREESTANDING WOOD WALL)
1 1/2" = 1'-0"



E1 ENLARGED PLAN - MILLWORK - COFFEE/PRINT STATION TYP
A5.21 1/2" = 1'-0"



E2 MILLWORK ELEVATION - COFFEE/PRINT STATION TYP
A0.33 1/2" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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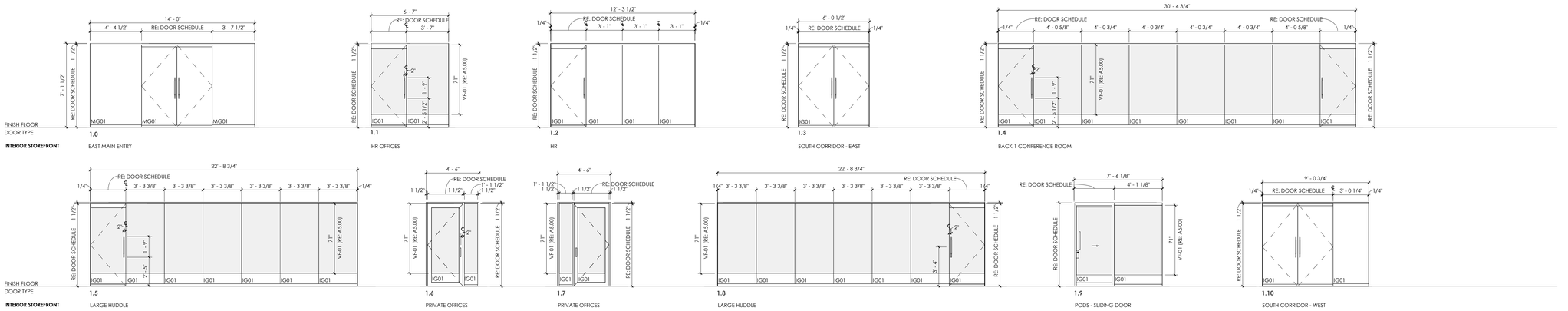
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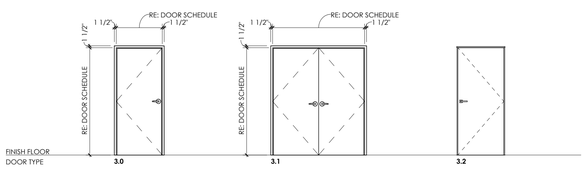
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MILLWORK - ZONE B

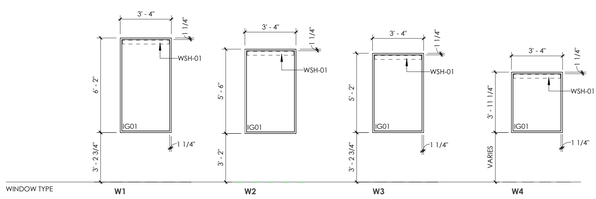
design. CD
date. 2026.09.11
project. 25.18

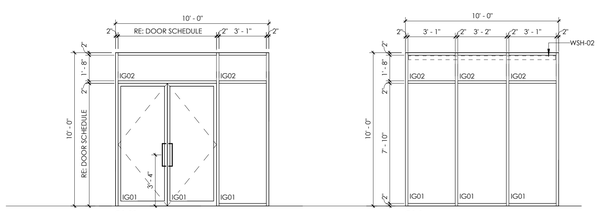
A5.61

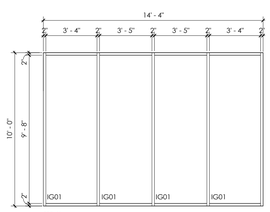


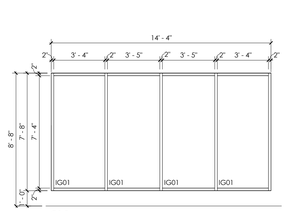












WINDOW LEGEND

STOREFRONT - EXTERIOR

MANUFACTURER: KAWNEER OR APPROVED EQUAL
PRODUCT: 451T FRONT SET STOREFRONT (4 1/2")
(HEIGHT: 10'-0" OR LESS)
601T FRONT SET STOREFRONT (6")
(HEIGHT: MORE THAN 10'-0", AND 11'-6" OR LESS)
GLAZING: VITRA, SOLARBAN 70
FINISH: CLEAR ANODIZED
TEMPERED: WHERE REQUIRED BY CODE
SPEC SECTION: 084313

STOREFRONT - INTERIOR

MANUFACTURER: DIRTT
PRODUCT: DIRTT STOREFRONT
GLAZING: TEMPERED GLASS
FINISH: WOOD VENEER WRAPPED ALUMINUM
TEMPERED: WHERE REQUIRED BY CODE
SPEC SECTION: 084313

GLAZING

IG01 TEMPERED INSULATED GLASS

IG02 NON-TEMPERED TINTED INSULATED GLASS

MG01 TEMPERED MONOLITHIC GLASS

SSF01 SUN SHADING FILM

ALL EXTERIOR STOREFRONT ALIGNED TO OUTMOST FACE OF SHEATHING UNLESS SPECIFICALLY CALLED OUT OTHERWISE.

DOOR SCHEDULE - PHASE 1

DOOR NUMBER	LEVEL	LEAF / FRAME TYPE MARK	DOOR LEAF				FIRE RATING	FRAME MATERIAL	HARDWARE NUMBER	OPERATIONAL USE CASE	ZONE LABEL
			DOOR LEAF MATERIAL	HEIGHT	WIDTH	THICKNESS					
163A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	MECH ROOM - KEY CARD ACCESS	ZONE B
165.1A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 05	STORAGE - KEY CARD ACCESS	ZONE B
165.2	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
165A	LEVEL 01	1.3	FRAMELESS GLASS	7' - 0"	6' - 3"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B
166.2A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 03	FAMILY RESTROOM	ZONE B
166B	LEVEL 01	1.15	FRAMELESS GLASS	7' - 0"	6' - 0"	0" - 1 1/2"	--	TRIMLESS WOOD JAMB	GROUP 09	CORRIDOR DOUBLE DOOR - KEY CARD ACCESS	ZONE B
167.1A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
167.2A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 11	STORAGE - KEY CARD ACCESS	ZONE B
167A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 11	IT DIVISION - KEY CARD ACCESS	ZONE B
168.1A	LEVEL 01	3.2	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	60 MIN.	TRIMLESS WOOD JAMB	GROUP 16	ELEVATOR - KEY ACCESS	ZONE B
170.1A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 04	GANGED RESTROOM	ZONE B
171.1A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 04	GANGED RESTROOM	ZONE B
172A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 12	STAIRWELL	ZONE B
172B	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 12	STAIRWELL	ZONE B
173.1A	LEVEL 01	3.0	INSULATED METAL LEAF	7' - 0"	2' - 6"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 11	MECH ROOM - KEY CARD ACCESS	ZONE B
173.2A	LEVEL 01	1.2	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
173.3A	LEVEL 01	1.2	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
173.4A	LEVEL 01	1.2	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
173.5A	LEVEL 01	1.2	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
173A	LEVEL 01	1.2	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	HR DIVISION ENTRY	ZONE B
174A	LEVEL 01	1.3	FRAMELESS GLASS	7' - 0"	6' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B
174B	LEVEL 01	1.10	FRAMELESS GLASS	7' - 0"	6' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B
175A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	SERVER ROOM - KEY CARD ACCESS	ZONE B
176A	LEVEL 01	1.5	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
177A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
178A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
179A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
180A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
181A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
182A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
183A	LEVEL 01	1.8	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
184A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 12	STAIRWELL	ZONE B
184B	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 14	STAIRWELL	ZONE B
186A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
187A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B
188.1A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
188.2A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
188.3A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
188.4A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
188.5A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
188.6A	LEVEL 01	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0" - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B
189A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
190A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
191A	LEVEL 01	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
192A	LEVEL 01	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
195A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 05	STORAGE - KEY CARD ACCESS	ZONE B
196A	LEVEL 01	1.4	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
196B	LEVEL 01	1.4	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B
197.1A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 13	ELEC ROOM - KEY CARD ACCESS	ZONE B
197.2A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 03	FAMILY RESTROOM	ZONE B
197.3A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	MECH ROOM - KEY CARD ACCESS	ZONE B
198A	LEVEL 01	3.0	SOLID WOOD CORE	7' - 0"	2' - 6"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	JANITOR ROOM - KEY CARD ACCESS	ZONE B
231A	LEVEL 02	1.3	FRAMELESS GLASS	7' - 0"	6' - 3"	0" - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B
232.1A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	ELEC ROOM - KEY CARD ACCESS	ZONE B
232A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 05	STORAGE - KEY CARD ACCESS	ZONE B
238A	LEVEL 02	3.1	SOLID WOOD CORE	7' - 0"	6' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 15	STORAGE - KEY CARD ACCESS	ZONE B
238B	LEVEL 02	3.1	SOLID WOOD CORE	7' - 0"	6' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 15	STORAGE - KEY CARD ACCESS	ZONE B
274A	LEVEL 02	3.1	SOLID WOOD CORE	7' - 0"	6' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 15	STORAGE - KEY CARD ACCESS	ZONE B
274B	LEVEL 02	3.1	SOLID WOOD CORE	7' - 0"	6' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 15	STORAGE - KEY CARD ACCESS	ZONE B
X-166A	LEVEL 01	1.0	ALUMINUM STOREFRONT FULL LITE	8' - 0"	6' - 5"	0" - 1 3/4"	---	ALUMINUM STOREFRONT	GROUP 10	EXTERIOR	ZONE B
X-172A	LEVEL 01	2.0	INSULATED METAL LEAF	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 07	STAIRWELL EXTERIOR EXIT	ZONE B
X-184A	LEVEL 01	2.0	INSULATED METAL LEAF	7' - 0"	3' - 0"	0" - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 07	STAIRWELL EXTERIOR EXIT	ZONE B

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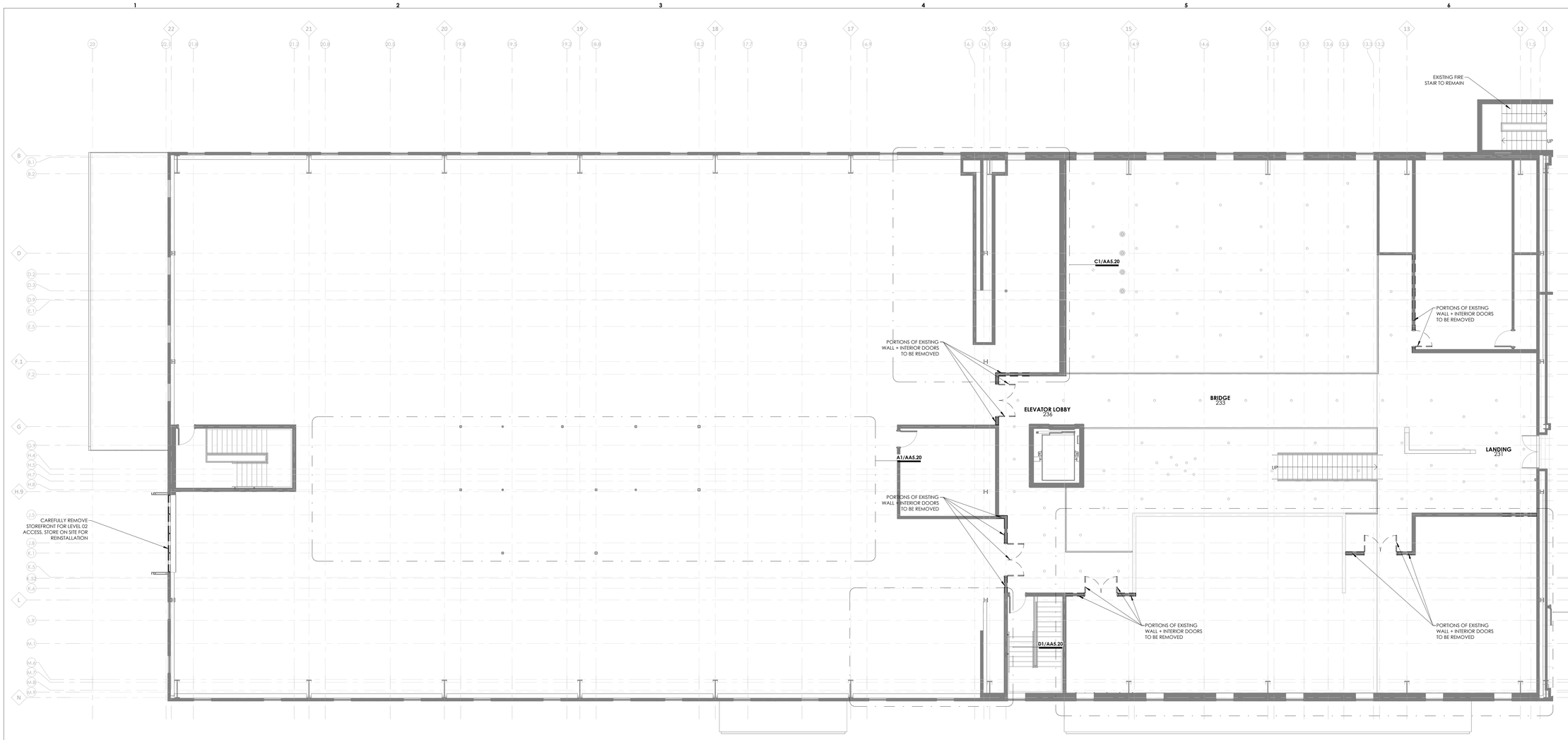
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contents:
DOOR LEGEND + SCHEDULE - ZONE B - PHASE 1

design. CD
date. 2026.09.11
project. 25.18

A6.00



E1 DEMO PLAN - ZONE B - LVL 02 - PHASE 2
A1.20 1/8" = 1'-0"

issue for review:	2026.08.05
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revisions:

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contents.
DEMO PLAN - ZONE B - LEVEL 02 - PHASE 2

design. CD
date. 2026.09.11
project. 25.18

AA0.34

FLOOR FINISH KEY (RE: INTERIOR FINISH LEGEND)

SC-01 (SEALED CONCRETE)

CPT-01 (CARPET TILE)

CPT-02 (CARPET TILE)



E1 SYMBOL + DIMENSION PLAN - ZONE B - LVL 02 - PHASE 2
A1.20 1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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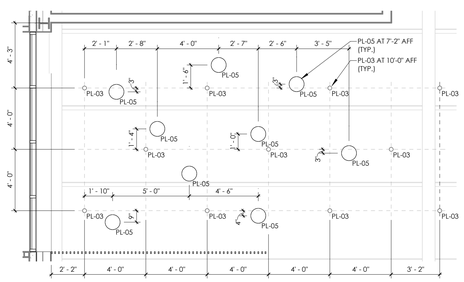
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SYMBOL + DIMENSION PLAN - ZONE B - LEVEL 02 - PHASE 2

design: CD
date: 2026.09.11
project: 25.18

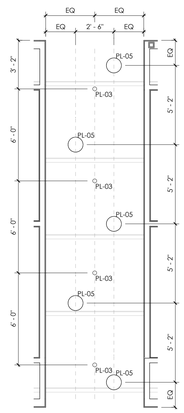
AA1.11



E1 RCP - ZONE B - LVL 02 - PHASE 2
A1.20 1/8" = 1'-0"



F1 RCP - ZONE B - LVL 02 - PHASE 2 - Callout 1
AA1.31 1/4" = 1'-0"



F2 RCP - ZONE B - LVL 02 - PHASE 2 - Callout 2
AA1.31 1/4" = 1'-0"

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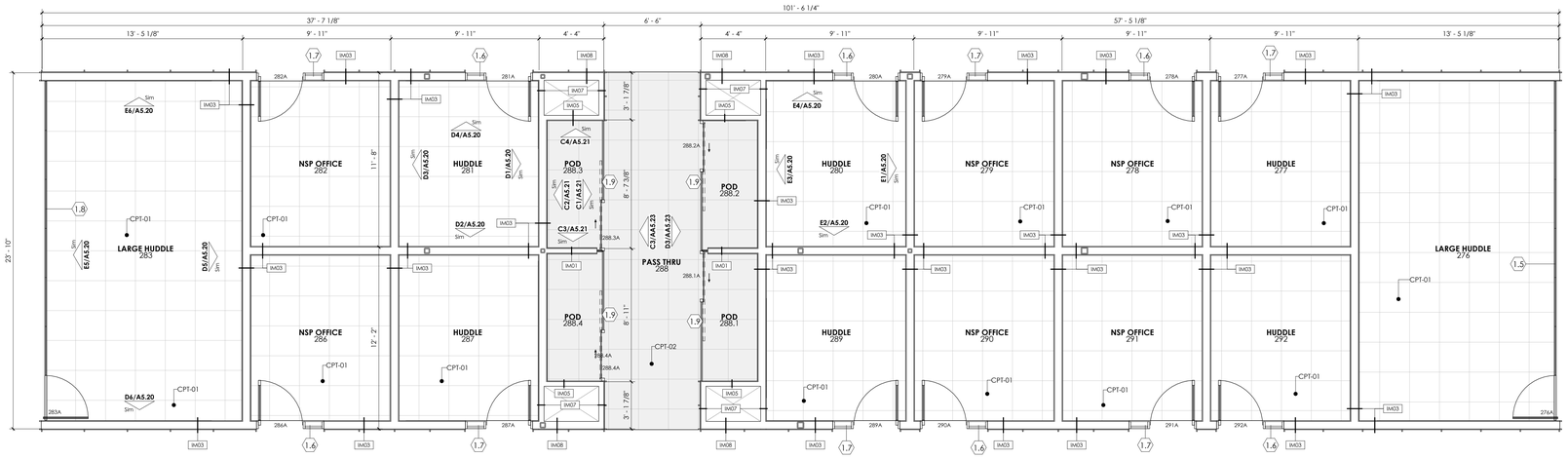
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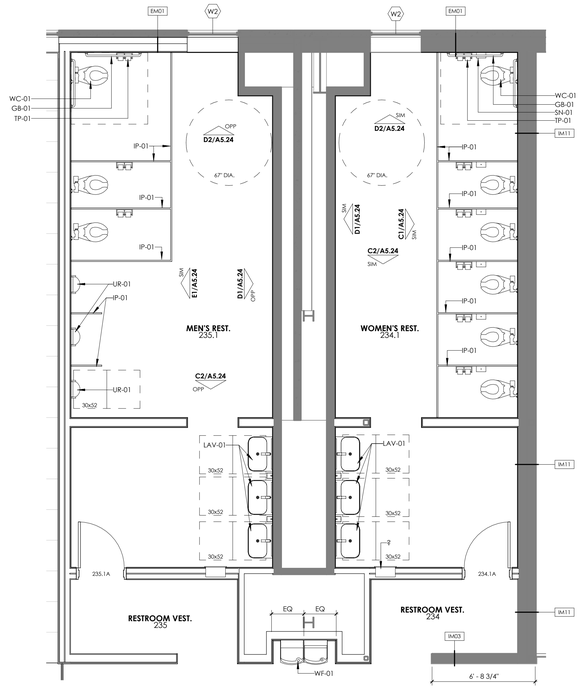
contents: RCP - ZONE B - LEVEL 02 - PHASE 02
design: CD
date: 2026.09.11
project: 25.18

AA1.31

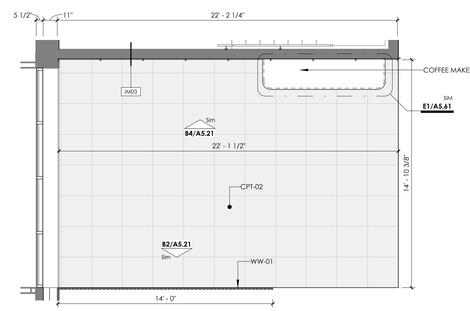


A1 ENLARGED PLAN - ZONE B - LVL 02 - OFFICE CORE
AA0.34 1/4" = 1'-0"

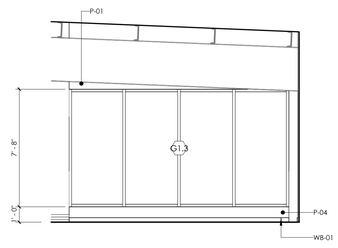
PROVIDE ALTERNATIVE PRICING USING DIRTT WALL SYSTEM FOR ALL INTERIOR WALLS AND STOREFRONT GLAZING / DOORS IN THE LEVEL 01 AND LEVEL 02 "OFFICE CORE". (TYP)



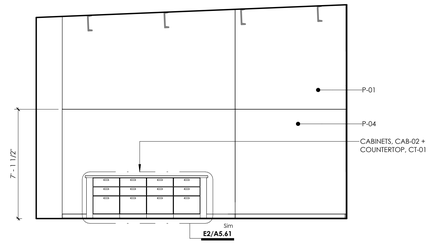
C1 ENLARGED PLAN - ZONE B - LVL 02 - RESTROOMS
AA0.34 1/4" = 1'-0"



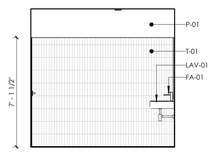
B2 ENLARGED PLAN - ZONE B - LVL 02 - SOUTH WORK LOUNGE
1/4" = 1'-0"



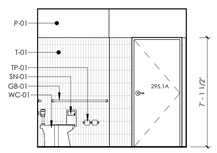
B3 INT ELEV - ZONE B - LVL 02 - SOUTH WORK LOUNGE - SOUTH
A4.81 1/4" = 1'-0"



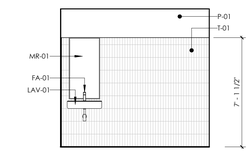
B4 INT ELEV - LVL 02 - PRINT ROOM - NORTH
AA5.20 1/4" = 1'-0"



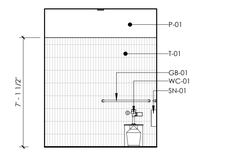
C2 INT ELEV - LVL 02 - FAMILY RR 295.1 - EAST
AA5.20 1/4" = 1'-0"



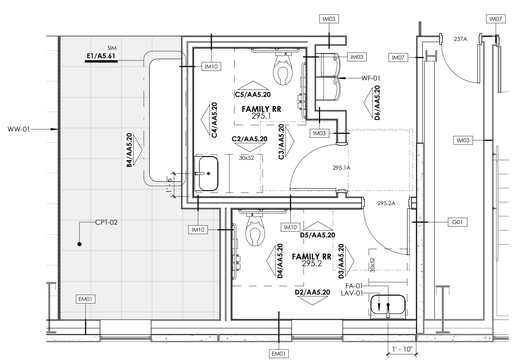
C3 INT ELEV - LVL 02 - FAMILY RR 295.1 - NORTH
AA5.20 1/4" = 1'-0"



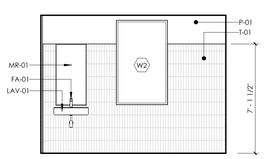
C4 INT ELEV - LVL 02 - FAMILY RR 295.1 - SOUTH
AA5.20 1/4" = 1'-0"



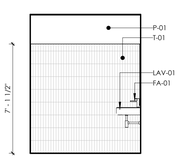
C5 INT ELEV - LVL 02 - FAMILY RR 295.1 - WEST
AA5.20 1/4" = 1'-0"



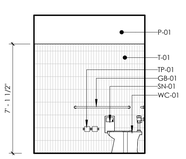
D1 ENLARGED PLAN - ZONE B - LVL 02 - FAMILY RR + PRINT
AA0.34 1/4" = 1'-0"



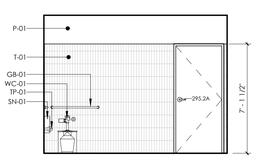
D2 INT ELEV - LVL 02 - FAMILY RR 295.2 - EAST
AA5.20 1/4" = 1'-0"



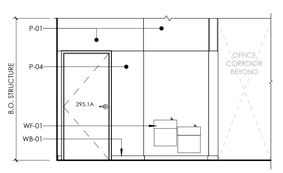
D3 INT ELEV - LVL 02 - FAMILY RR 295.2 - NORTH
AA5.20 1/4" = 1'-0"



D4 INT ELEV - LVL 02 - FAMILY RR 295.2 - SOUTH
AA5.20 1/4" = 1'-0"



D5 INT ELEV - LVL 02 - FAMILY RR 295.2 - WEST
AA5.20 1/4" = 1'-0"



D6 INT ELEV - LVL 02 - RR VESTIBULE 295 - SOUTH
AA5.20 1/4" = 1'-0"

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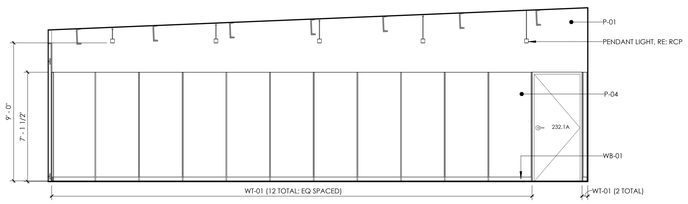
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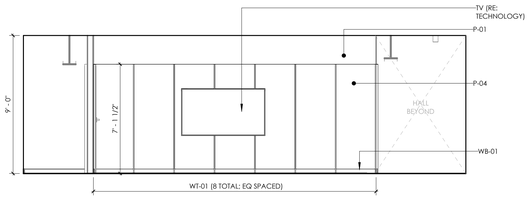
contents:
ENLARGED PLANS + INT. ELEVATIONS - OFFICE CORE + RR - ZONE B - LEVEL 02 - PHASE 2
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date. 2026.09.11
project. 25.18

AA5.20

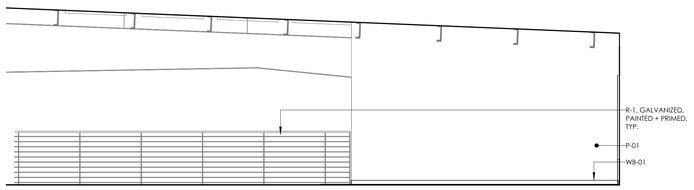
GENERAL NOTE: COORDINATE 3/4" PLYWOOD BLOCKING BETWEEN STUDS AT ALL VERTICAL TRIM LOCATIONS (WT-01) RE: A5.00 + A5.61 FOR DETAIL & MATERIAL INFORMATION



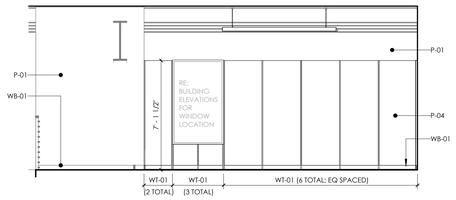
A1 cd AA5.21 INT ELEV - ZONE B - LVL 02 - LIBRARY - NORTH
1/4" = 1'-0"



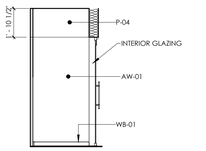
A3 cd AA5.21 INT ELEV - ZONE B - LVL 02 - LIBRARY - EAST
1/4" = 1'-0"



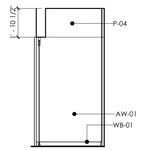
B1 cd AA5.21 INT ELEV - ZONE B - LVL 02 - LIBRARY - SOUTH
1/4" = 1'-0"



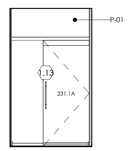
B3 cd AA5.21 INT ELEV - ZONE B - LVL 02 - LIBRARY - WEST
1/4" = 1'-0"



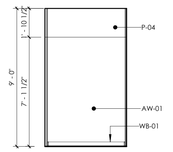
C1 cd AA5.21 INT ELEV - ZONE B - LVL 02 - POD TYP. - NORTH
1/4" = 1'-0"



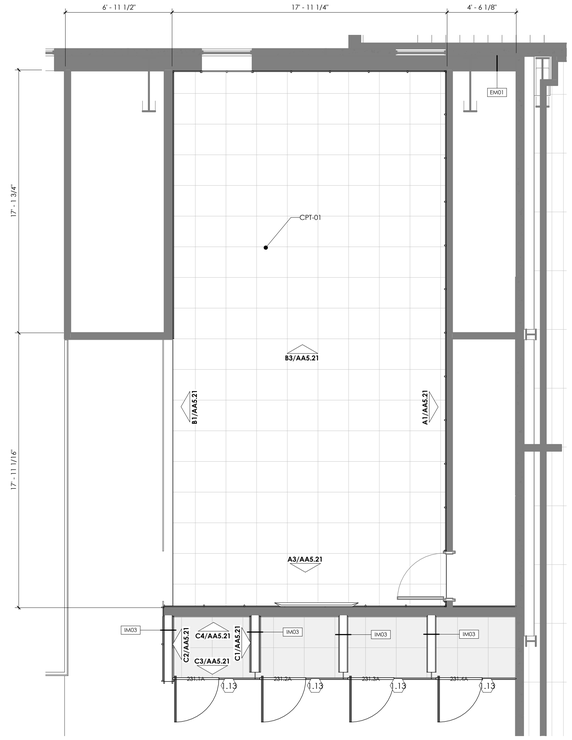
C2 cd AA5.21 INT ELEV - ZONE B - LVL 02 - POD TYP. - SOUTH
1/4" = 1'-0"



C3 cd AA5.21 INT ELEV - ZONE B - LVL 02 - POD TYP. - EAST
1/4" = 1'-0"



C4 cd AA5.21 INT ELEV - ZONE B - LVL 02 - POD TYP. - WEST
1/4" = 1'-0"



C5 ENLARGED PLAN - ZONE B - LVL 02 - LIBRARY
1/4" = 1'-0"

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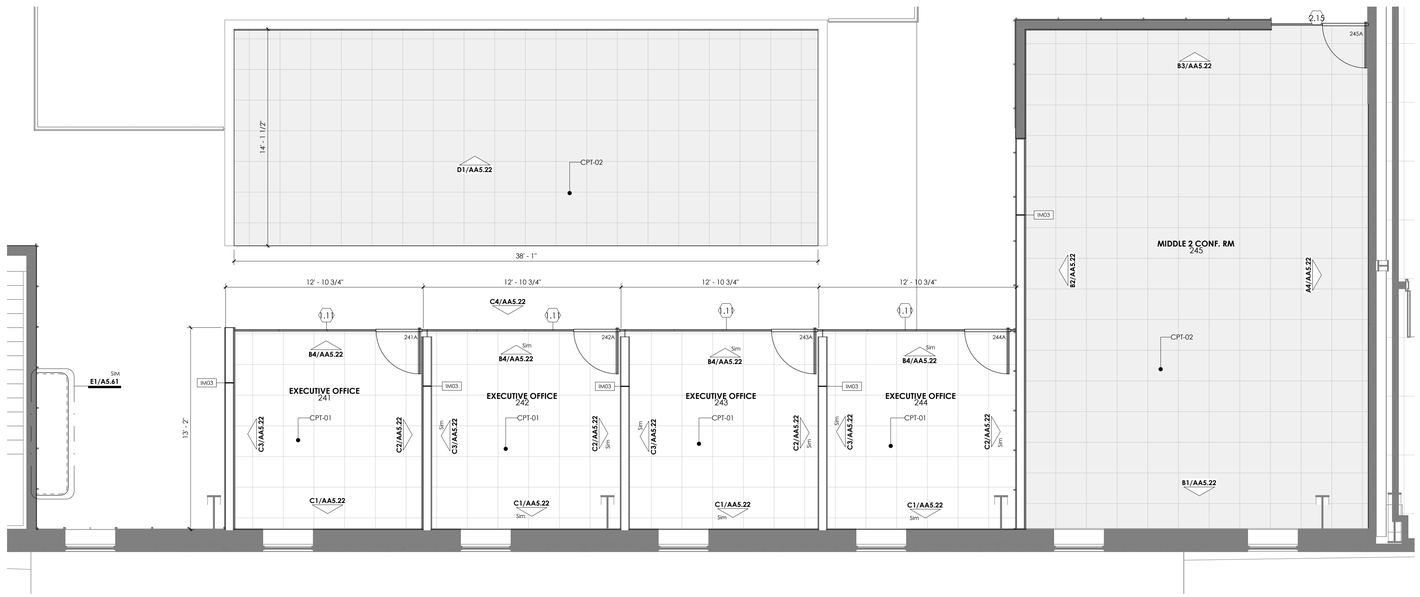
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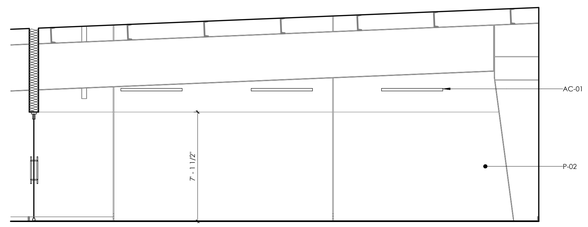
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contents:
ENLARGED PLANS + INT. ELEVATIONS - LIBRARY - ZONE B - LEVEL 02 - PHASE 2
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AA5.21



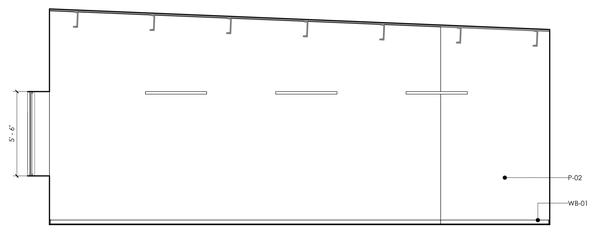
A1 AA0.34 ENLARGED PLAN - ZONE B - LVL 02 - EXEC OFFICES
1/4" = 1'-0"



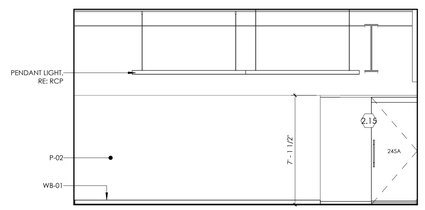
A4 AA5.22 INT ELEV - ZONE B - LVL 02 - MIDDLE 2 CONF RM - NORTH
1/4" = 1'-0"



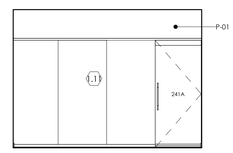
B1 AA5.22 INT ELEV - ZONE B - LVL 02 - MIDDLE 2 CONF RM - EAST
1/4" = 1'-0"



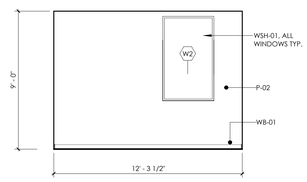
B2 AA5.22 INT ELEV - ZONE B - LVL 02 - MIDDLE 2 CONF RM - SOUTH
1/4" = 1'-0"



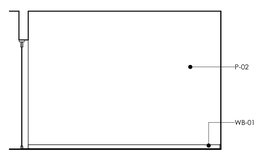
B3 AA5.22 INT ELEV - ZONE B - LVL 02 - MIDDLE 2 CONF RM - WEST
1/4" = 1'-0"



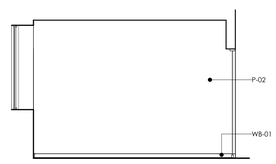
B4 AA5.22 INT ELEV - ZONE B - LVL 02 - TYP. EXEC OFFICE - WEST
1/4" = 1'-0"



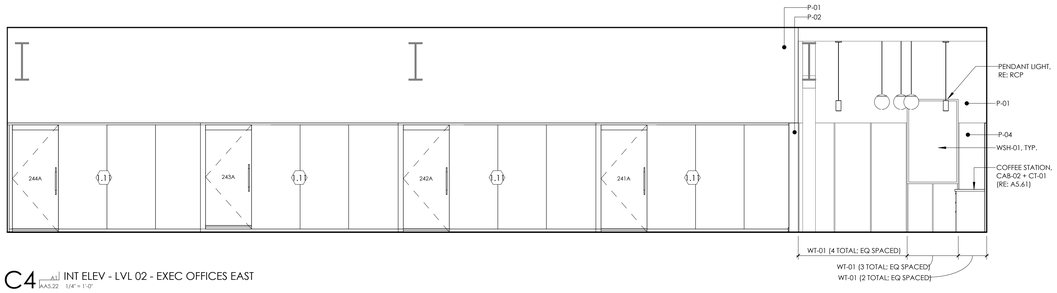
C1 AA5.22 INT ELEV - ZONE B - LVL 02 - TYP. EXEC OFFICE - EAST
1/4" = 1'-0"



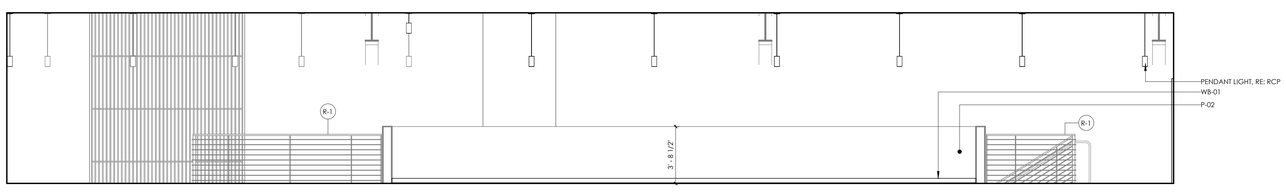
C2 AA5.22 INT ELEV - ZONE B - LVL 02 - TYP. EXEC OFFICE - NORTH
1/4" = 1'-0"



C3 AA5.22 INT ELEV - ZONE B - LVL 02 - TYP. EXEC OFFICE - SOUTH
1/4" = 1'-0"



C4 AA5.22 INT ELEV - LVL 02 - EXEC OFFICES EAST
1/4" = 1'-0"



D1 AA5.22 INT ELEV - ZONE B - LVL 02 - EXECUTIVE SUITE - WEST
1/4" = 1'-0"

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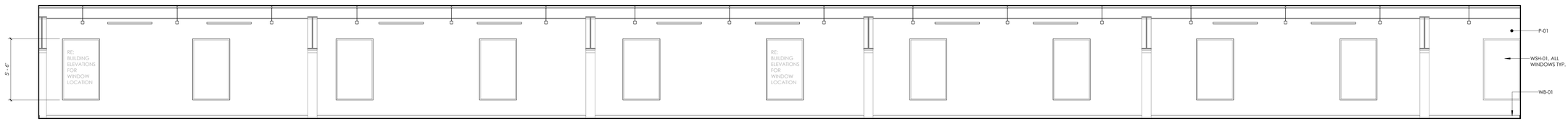
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ENLARGED PLANS + INT. ELEVATIONS - EXEC. SUITE + CONF RM - ZONE B - LEVEL 02 - ~~PHASE~~ 2CD

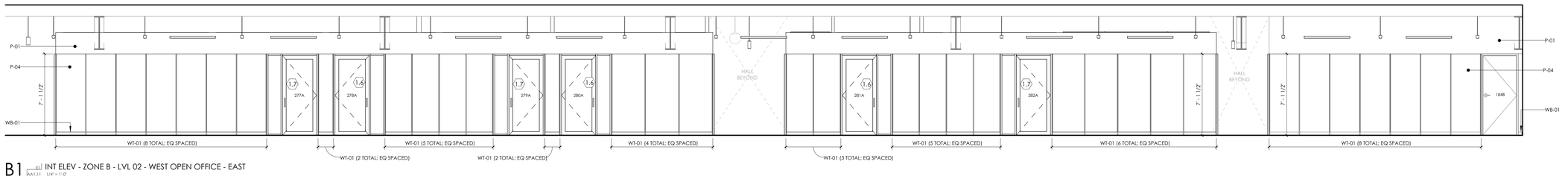
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AA5.22

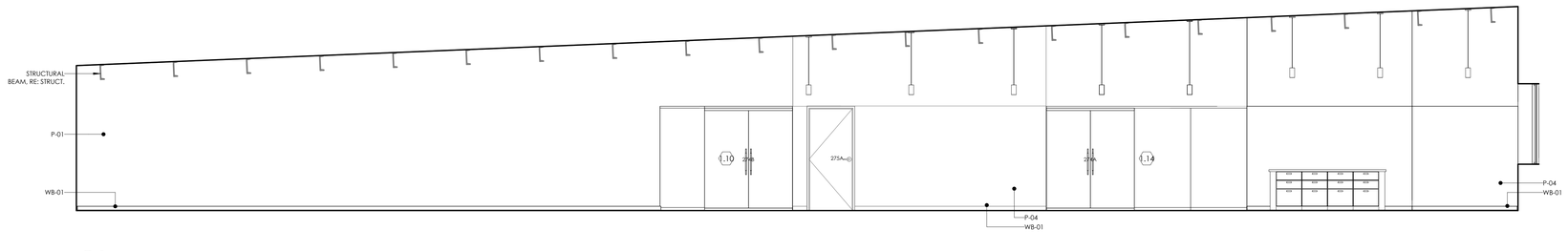
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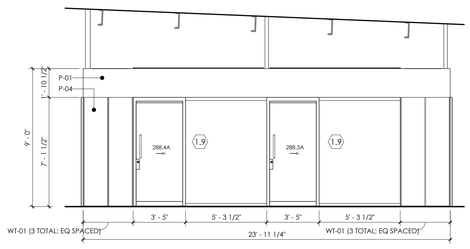
A1 INT ELEV - ZONE B - LVL 02 - WEST OPEN OFFICE - WEST
AA1.11 1/4" = 1'-0"

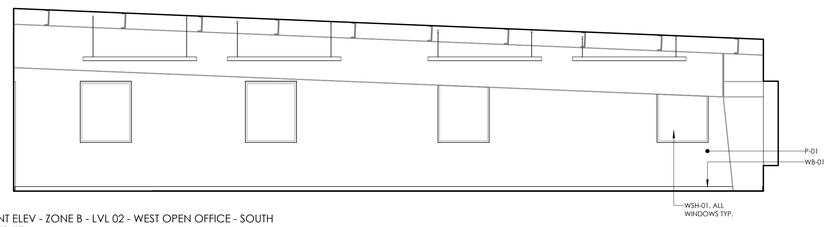


B1 INT ELEV - ZONE B - LVL 02 - WEST OPEN OFFICE - EAST
AA1.11 1/4" = 1'-0"

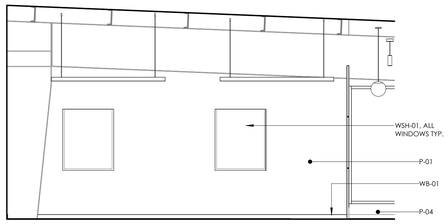


C1 INT ELEV - ZONE B - LVL 02 - NORTH OFFICE CORRIDOR - NORTH
AA1.11 1/4" = 1'-0"



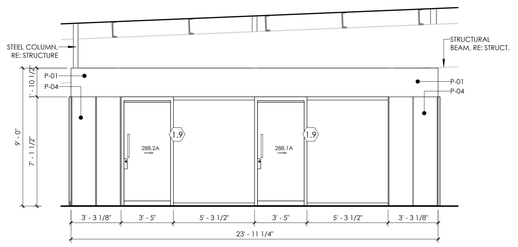


D1 INT ELEV - ZONE B - LVL 02 - WEST OPEN OFFICE - SOUTH
AA1.11 1/4" = 1'-0"

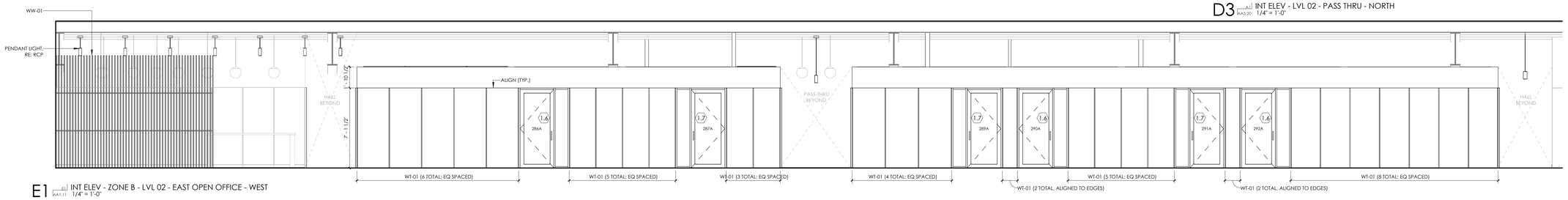


INT ELEV - ZONE B - LVL 02 - EAST OPEN OFFICE - SOUTH
D2 AA1.11 1/4" = 1'-0"

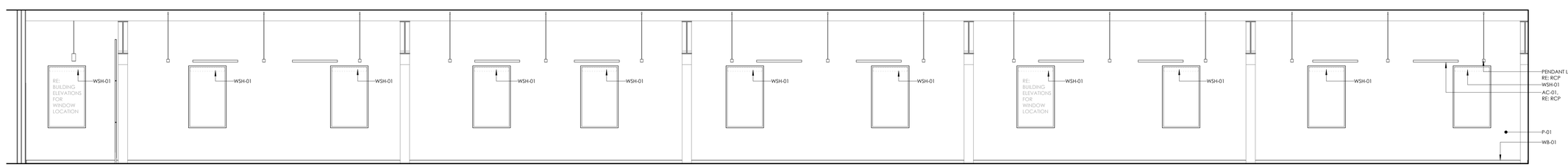
C3 AA5.20 INT ELEV - LVL 02 - PASS THRU - SOUTH
1/4" = 1'-0"



D3 AA5.20 INT ELEV - LVL 02 - PASS THRU - NORTH
1/4" = 1'-0"



E1 INT ELEV - ZONE B - LVL 02 - EAST OPEN OFFICE - WEST
AA1.11 1/4" = 1'-0"



F1 INT ELEV - ZONE B - LVL 02 - EAST OPEN OFFICE - EAST
AA1.11 1/4" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
mark date description

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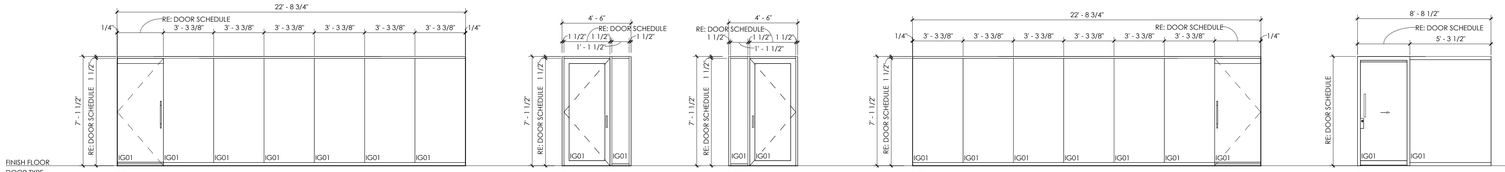
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contents:
INTERIOR ELEVATIONS - OPEN OFFICE + CORE - ZONE B - LEVEL 02 - PHASE 2

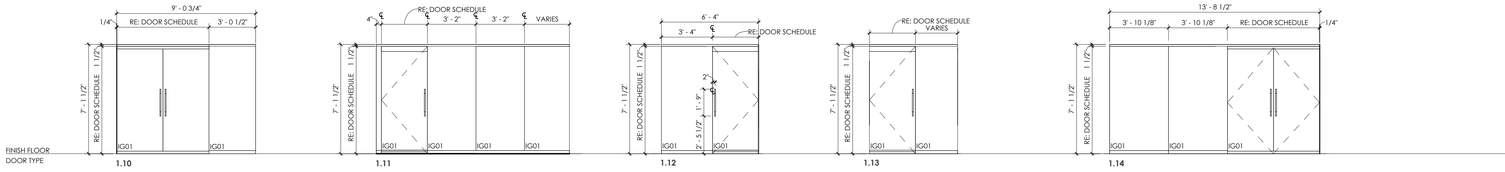
design: CD
date: 2026.09.11
project: 25.18

AA5.23



INTERIOR STOREFRONT

LARGE HUDDLE | PRIVATE OFFICES | PRIVATE OFFICES | LARGE HUDDLE | PODS - SLIDING DOOR



INTERIOR STOREFRONT

CORRIDOR - WEST | EXEC OFFICES | MIDDLE 2 CONFERENCE ROOM | POD - SWING DOOR | SOUTH CORRIDOR - EAST

WINDOW LEGEND

STOREFRONT - EXTERIOR

MANUFACTURER:	KAWNEER OR APPROVED EQUAL
PRODUCT:	451T FRONT SET STOREFRONT (4 1/2") (HEIGHT: 10'-0" OR LESS)
	601T FRONT SET STOREFRONT (6") (HEIGHT: MORE THAN 10'-0", AND 11'-6" OR LESS)
GLAZING:	VITRA, SOLARBAN 70
FINISH:	CLEAR ANODIZED
TEMPERED:	WHERE REQUIRED BY CODE
SPEC SECTION:	084313

STOREFRONT - INTERIOR

MANUFACTURER:	DIRTT
PRODUCT:	DIRTT STOREFRONT
GLAZING:	TEMPERED GLASS
FINISH:	WOOD VENEER WRAPPED ALUMINUM
TEMPERED:	WHERE REQUIRED BY CODE
SPEC SECTION:	084313

GLAZING

IG01	TEMPERED INSULATED GLASS
IG02	NON-TEMPERED TINTED INSULATED GLASS
MG01	TEMPERED MONOLITHIC GLASS
SSF01	SUN SHADING FILM

ALL EXTERIOR STOREFRONT ALIGNED TO OUTMOST FACE OF SHEATHING UNLESS SPECIFICALLY CALLED OUT OTHERWISE.



INTERIOR DOORS

BATHROOM/ MECH/ STORAGE/ ELEC/ SERVER DOOR

DOOR SCHEDULE - PHASE 2

DOOR NUMBER	LEVEL	LEAF / FRAME TYPE MARK	DOOR LEAF								
			DOOR LEAF MATERIAL	HEIGHT	WIDTH	THICKNESS	FIRE RATING	FRAME MATERIAL	HARDWARE NUMBER	OPERATIONAL USE CASE	ZONE LABEL	PHASE
231.1A	LEVEL 02	1.13	ALUMINUM STOREFRONT FULL LITE	6' - 11"	3' - 0"	0' - 1 1/2"	--	TRIMLESS WOOD JAMB	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
231.2A	LEVEL 02	1.13	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 1/2"	--	TRIMLESS WOOD JAMB	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
231.3A	LEVEL 02	1.13	ALUMINUM STOREFRONT FULL LITE	6' - 11"	3' - 0"	0' - 1 1/2"	--	TRIMLESS WOOD JAMB	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
231.4A	LEVEL 02	1.13	ALUMINUM STOREFRONT FULL LITE	6' - 11"	3' - 0"	0' - 1 1/2"	--	TRIMLESS WOOD JAMB	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
234.1A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 04	GANGED RESTROOM	ZONE B	PHASE 2
235.1A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 04	GANGED RESTROOM	ZONE B	PHASE 2
237A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	2' - 6"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 05	STORAGE - KEY CARD ACCESS	ZONE B	PHASE 2
241A	LEVEL 02	1.12	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
242A	LEVEL 02	1.12	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
243A	LEVEL 02	1.12	ALUMINUM STOREFRONT FULL LITE	6' - 9 1/2"	3' - 0"	0' - 2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
244A	LEVEL 02	1.12	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 2"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
245A	LEVEL 02	1.12	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
274A	LEVEL 02	1.14	FRAMELESS GLASS	7' - 0"	6' - 0"	0' - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B	PHASE 2
274B	LEVEL 02	1.10	FRAMELESS GLASS	7' - 0"	6' - 0"	0' - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 06	CORRIDOR DOUBLE DOOR	ZONE B	PHASE 2
275A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 02	SERVER ROOM - KEY CARD ACCESS	ZONE B	PHASE 2
276A	LEVEL 02	1.5	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
277A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
278A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
279A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
280A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
281A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
282A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
283A	LEVEL 02	1.8	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 1/2"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
286A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
287A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
288.1A	LEVEL 02	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0' - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
288.2A	LEVEL 02	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0' - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
288.3A	LEVEL 02	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0' - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
288.4A	LEVEL 02	1.9	FRAMELESS SLIDING GLASS	7' - 1 1/2"	3' - 5"	0' - 0 1/2"	--	ALUMINUM STOREFRONT	GROUP 08	MEETING ROOM - POD	ZONE B	PHASE 2
289A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
290A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
291A	LEVEL 02	1.7	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	PRIVATE OFFICE	ZONE B	PHASE 2
292A	LEVEL 02	1.6	ALUMINUM STOREFRONT FULL LITE	7' - 0"	3' - 0"	0' - 1 3/4"	--	ALUMINUM STOREFRONT	GROUP 01	MEETING ROOM	ZONE B	PHASE 2
295.1A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 03	FAMILY RESTROOM	ZONE B	PHASE 2
295.2A	LEVEL 02	3.0	SOLID WOOD CORE	7' - 0"	3' - 0"	0' - 1 3/4"	--	HOLLOW METAL FRAME	GROUP 03	FAMILY RESTROOM	ZONE B	PHASE 2

issue for review: 2026.08.05
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contents.
DOOR LEGEND + SCHEDULE - ZONE B - PHASE 2

design. CD
date. 2026.09.11
project. 25.18

AA6.00

SYMBOL LIST - FIRE PROTECTION SYSTEMS

SYMBOL	DESCRIPTION
FP	FIRE PROTECTION

FIRE PROTECTION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

FIRE PROTECTION SHEET INDEX

F0.00	FIRE PROTECTION COVERSHEET
F2.11	FIRE PROTECTION PLAN - ZONE B - LVL 01
F2.12	FIRE PROTECTION PLAN - ZONE B - LVL 02 - PHASE 1
F4.00	FIRE PROTECTION DETAILS
FF2.12	FIRE PROTECTION PLAN - ZONE B - LVL 02 - PHASE 2
GRAND TOTAL: 5	

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
5. WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
10. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

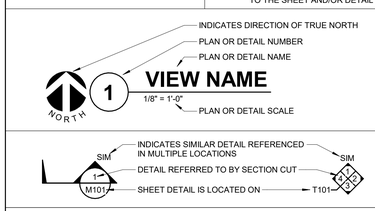
SYMBOL LIST - FIRE HAZARD ZONES

SYMBOL:	DESCRIPTION:
	FIRE ZONE BOUNDARY
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	EXTRA GROUP 1
	EXTRA GROUP 2
	DEMOLITION

VIEW KEY

NAME
10'-0"
LEVEL NAME
HEIGHT ABOVE PROJECT 0'-0"

1
KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
——— NEW
- - - - - - - - EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
——— EXISTING
- - - - - - - - EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2009

FIRE PROTECTION GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
5. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48" WIDE.
6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER TO ARCHITECTURAL PLANS.
7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
8. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
9. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
10. EACH ASSEMBLY SHALL INCLUDE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
11. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ.
12. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
13. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
14. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
15. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
16. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY FM UNLESS OTHERWISE NOTED.
17. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
18. A GRAPHIC ANNUNCIATOR PANEL SHALL BE PROVIDED TO INCLUDE AREAS BEING PROVIDED WITH A PRE-ACTION OR CLEAN AGENT SYSTEM WHICH HAVE CONCEALED AREAS.
19. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
20. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
21. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
22. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
23. WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALL, OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT DIAMETER OF THE HOLE IS NOMINALLY 2 INCHES LARGER THAN THE PIPE FOR 1" NOMINAL TO 3 ½" NOMINAL AND 4" LARGER THAN THE PIPE FOR PIPE 4" AND LARGER.
24. A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM AND SHALL INCLUDE DATE OF INSTALLATION AND/OR DATE SERVICE WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
25. DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
26. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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revisions:
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contents:
FIRE PROTECTION COVERSHEET

design. CD
date. 2026.09.11
project. 25.18

F0.00

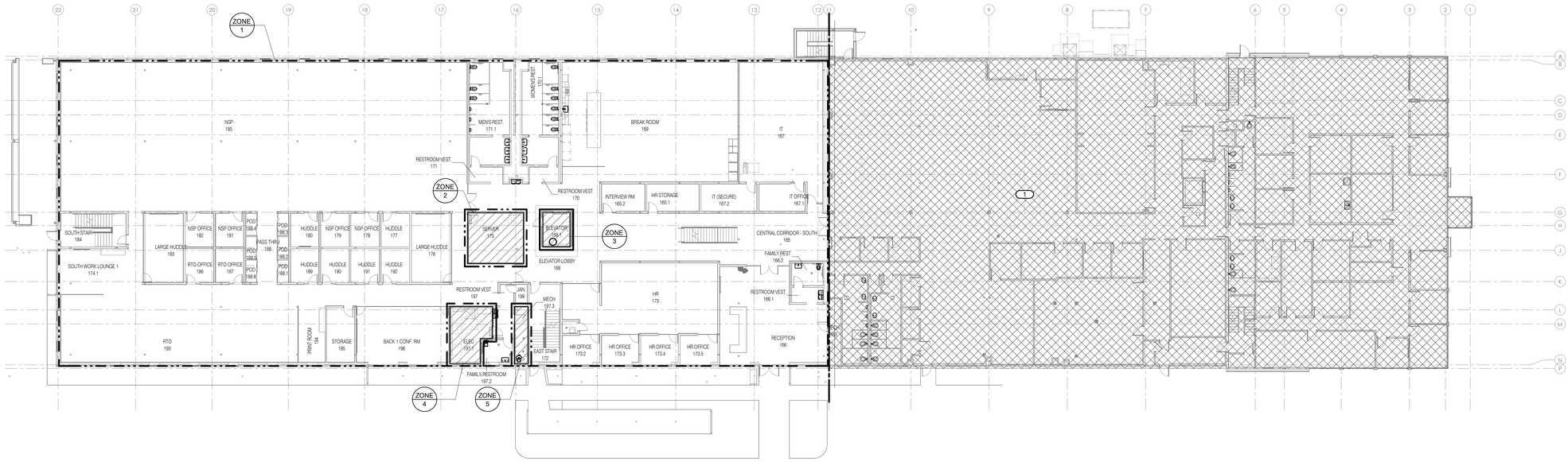
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PROJECT #260034

KEYNOTES

1 NO FIRE PROTECTION TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.



NORTH

1 LEVEL 01 FIRE PROTECTION PLAN

1/16" = 1'-0"

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contents: FIRE PROTECTION PLAN - ZONE B - LVL 01

design: CD
date: 2026.09.11
project: 25.18

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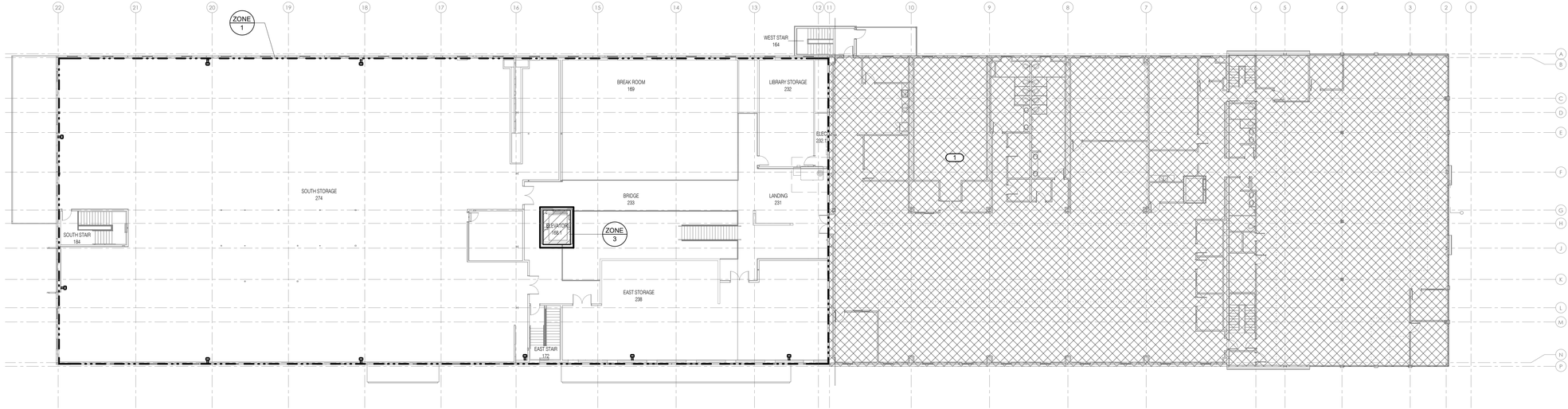
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PROJECT #260034

F2.11

KEYNOTES

1 NO FIRE PROTECTION TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.



1 LEVEL 02 FIRE PROTECTION PLAN

1/16" = 1'-0"

NORTH

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FIRE PROTECTION PLAN - ZONE B - LVL 02 - PHASE 1

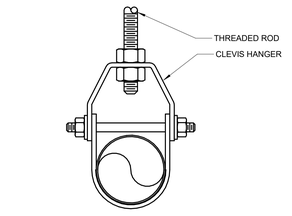
design: CD
date: 2026.09.11
project: 25.18

F2.12

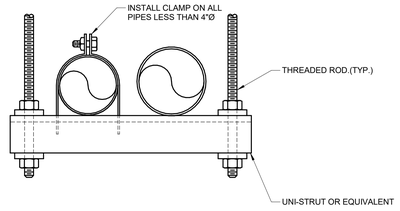
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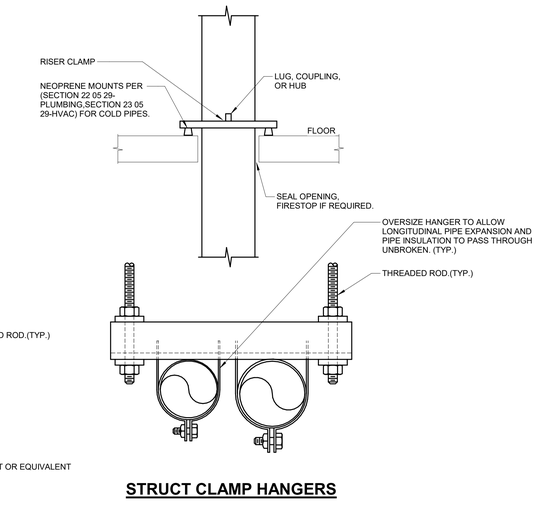
PROJECT #260034



CLEVIS HANGER



TRAPEZE HANGER



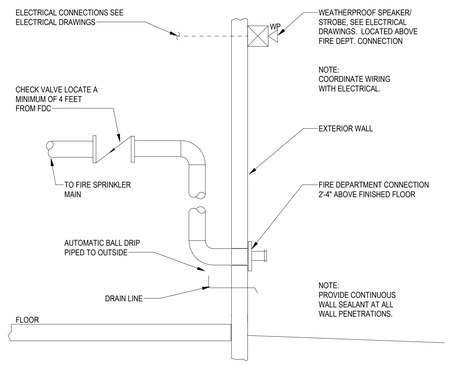
STRUCT CLAMP HANGERS

NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.

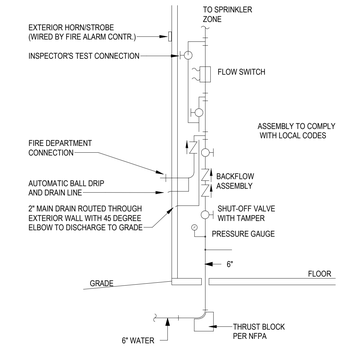
2 PIPE SUPPORT - FIRE PROTECTION

NO SCALE
M_SUP.0.03



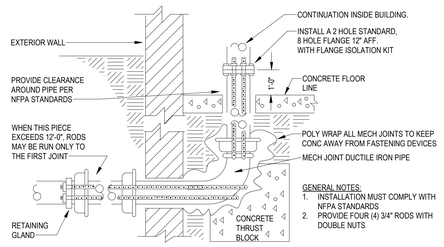
4 FIRE DEPARTMENT CONNECTION

NO SCALE



5 FIRE PROTECTION RISER ASSEMBLY

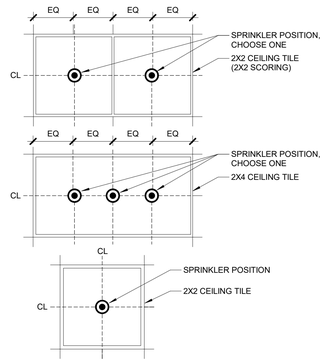
NO SCALE



NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

6 WATER SERVICE LINE EXTENSION

NO SCALE



3 SPRINKLER TILE LOCATION

NO SCALE
M_SPK.0.11

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contents: FIRE PROTECTION DETAILS

design: CD
date: 2026.09.11
project: 25.18

F4.00

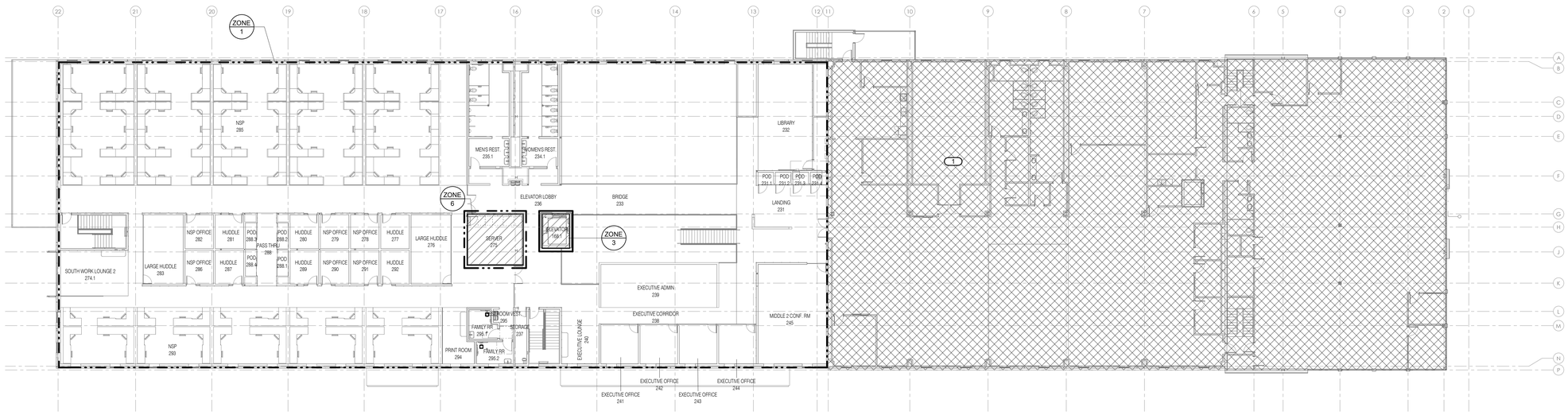
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PROJECT #260034

KEYNOTES

1 NO FIRE PROTECTION TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.



NORTH

1 LEVEL 02 FIRE PROTECTION PLAN

1/16" = 1'-0"

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contents.
FIRE PROTECTION PLAN - ZONE B - LVL 02 - PHASE 2

design. CD
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FF2.12

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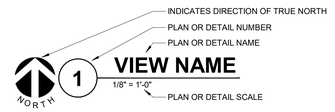
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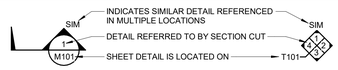
PROJECT #260034

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
———— NEW
- - - - - - - - EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
———— EXISTING
- - - - - - - - EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2009

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

SYMBOL LIST - PIPE ACCESSORIES

SYMBOL	DESCRIPTION
	PIPE DOWN AND PIPE UP / UP AND DOWN
	REDUCER
	SHUTOFF VALVE

SYMBOL LIST - PLUMBING SYSTEMS

SYMBOL	DESCRIPTION
CW	COLD WATER - POTABLE
D	DRAIN
G	NATURAL GAS
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
SAN	SANITARY DRAINAGE
V	VENT

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DN	DOWN
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
L or LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTED
YCO	YARD CLEANOUT

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
5. WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
10. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE.
2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2".
3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER.
4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	CW	HW	SAN	VENT
EWC-1	ELECTRIC WATER COOLER (ACCESSIBLE)	1/2"	-	1 1/2"	1 1/2"
FD-1	FLOOR DRAIN			2"	1 1/2"
FD-2	FLOOR DRAIN			4"	2"
L-1	LAVATORY (ACCESSIBLE)	1/2"	1/2"	1 1/2"	1 1/2"
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"
SK-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"
UB-1	UTILITY BOX (COLD WATER)	1/2"	-	-	-
UB-2	UTILITY BOX (DRAIN)	-	-	2"	1 1/4"
UB-3	UTILITY BOX (COLD WATER)	1/2"	-	-	-
UR-1	URINAL	3/4"	-	2"	1 1/2"
WC-1	WATER CLOSET (ACCESSIBLE)	1 1/4"	-	4"	2"

PLUMBING DESIGN CRITERIA:

°F	SYSTEM, EQUIPMENT, OR FIXTURE
140	BUILDING MASTER MIXING VALVE TEMPERATURE SETPOINT
135	BUILDING HOT WATER CIRCULATING MINIMUM TEMPERATURE
110	LOCAL POINT OF USE MIXING VALVE OUTLET TEMPERATURE
45	COLD WATER MINIMUM TEMPERATURE
75	COLD WATER MAXIMUM TEMPERATURE

DETAIL/DIAGRAM SYMBOLS - PIPE ACCESSORIES

SYMBOL	DESCRIPTION
	ANGLE VALVE
	AUTOMATIC AIR VENT
	AUTOMATIC DRAIN VALVE
	BALANCING VALVE (MANUAL)
	CHECK VALVE
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
	FLEXIBLE CONNECTION
	FLOW SWITCH
	MANUAL AIR VENT
	PIPE CAP
	PITCH PIPE IN DIRECTION
	PRESSURE / TEMPERATURE PLUG
	PRESSURE GAUGE WITH VALVE
	PRESSURE REDUCING VALVE (LIQUID / GAS)
	SAFETY RELIEF VALVE
	SHUTOFF VALVE (NORMALLY CLOSED)
	SHUTOFF VALVE (NORMALLY OPEN)
	SOLENOID VALVE
	UNION / FLANGE

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: IPC-2018

INTERIOR:	
SANITARY WASTE:	≤2-1/2"ø=1/4" PER FOOT ≥3"ø = 1/8" PER FOOT ≥8"ø = 1/16" PER FOOT
GREASE WASTE:	1/4" PER FOOT
STORM (GRAVITY):	1/8" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
SANITARY AND GREASE VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING SHEET INDEX

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P1.12	PLUMBING DEMOLITION PLAN - ZONE B - LVL 02
P2.00	PLUMBING PLAN - ZONE B - UNDERFLOOR
P2.11	PLUMBING PLAN - ZONE B - LVL 01
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P3.00	PLUMBING ENLARGED PLANS - ZONE B - PHASE 1
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P4.01	PLUMBING DETAILS
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P5.01	PLUMBING DIAGRAMS - ZONE B - PHASE 1
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PP3.01	PLUMBING ENLARGED PLANS - ZONE B - PHASE 2
PP5.00	PLUMBING DIAGRAMS - ZONE B - PHASE 2
PP5.01	PLUMBING DIAGRAMS - ZONE B - PHASE 2

GRAND TOTAL: 19

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions: mark date description

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contents: PLUMBING COVERSHEET
design: CD
date: 2026.09.11
project: 25.18

P0.00

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PROJECT #260034

KEYNOTES

1 NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.

2 SAW CUT FOR UNDERSLAB PLUMBING AS REQUIRED FOR THE INSTALLATION OF NEW DRAIN LINES. REFER TO P2.00 FOR EXACT LOCATIONS.

issue for review: 2026.08.05

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issue for construction:

revisions:

mark	date	description

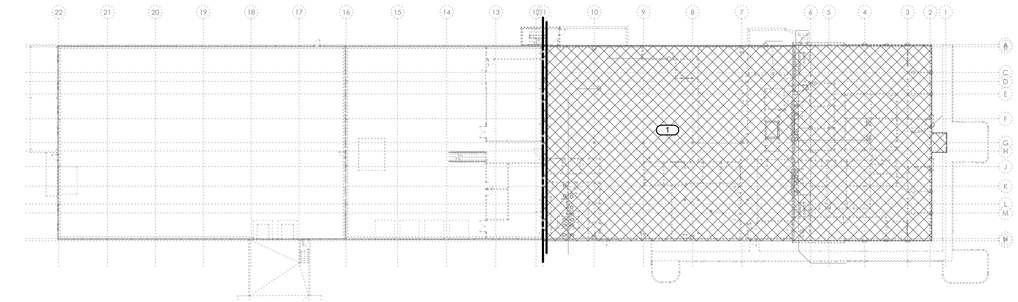
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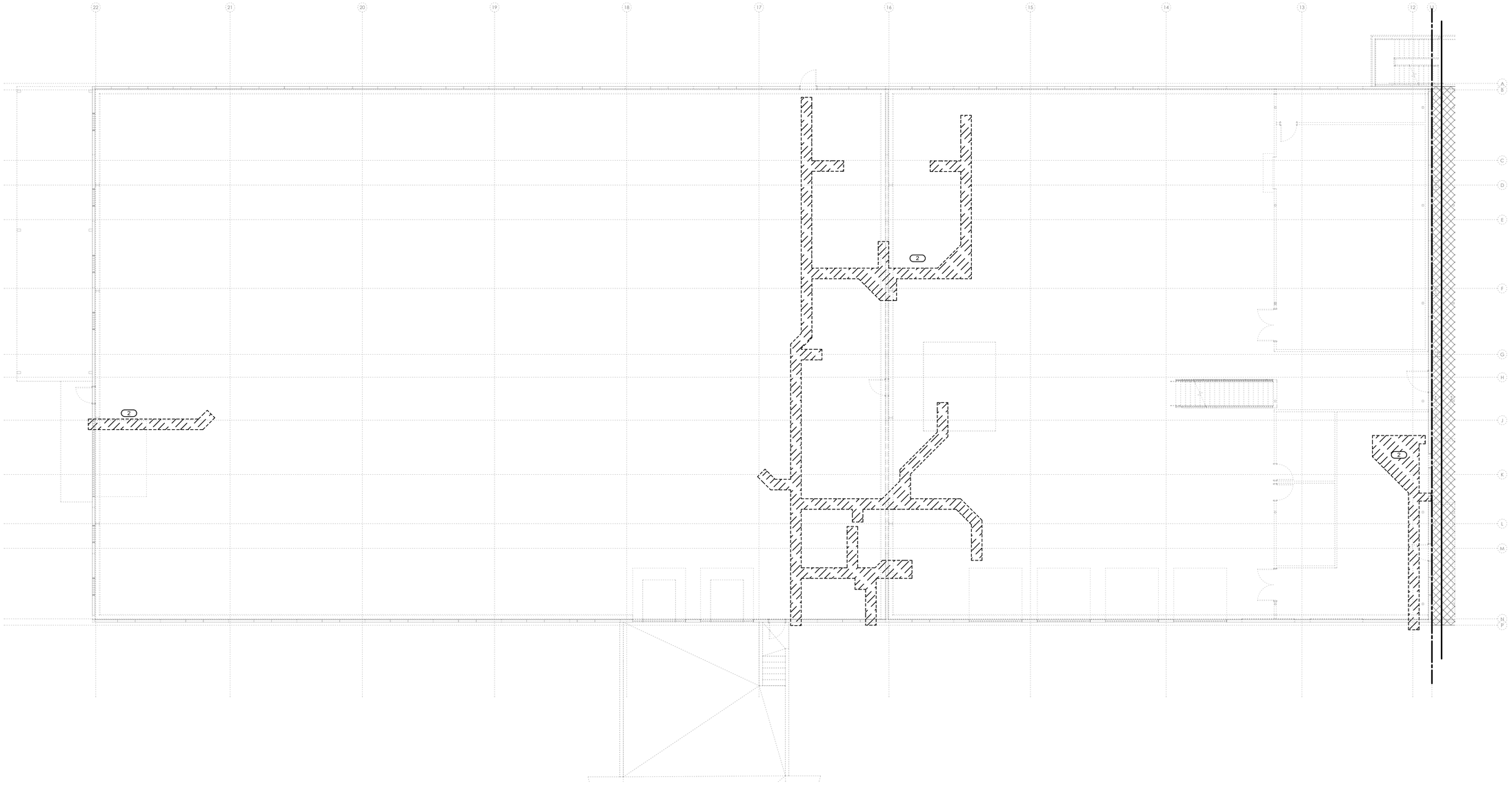
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1 UNDERFLOOR PLUMBING DEMOLITION PLAN
1/32" = 1'-0"



2 UNDERFLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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contents.
PLUMBING DEMOLITION PLAN - ZONE B - UNDERFLOOR

design. CD
date. 2026.09.11
project. 25.18

P1.00

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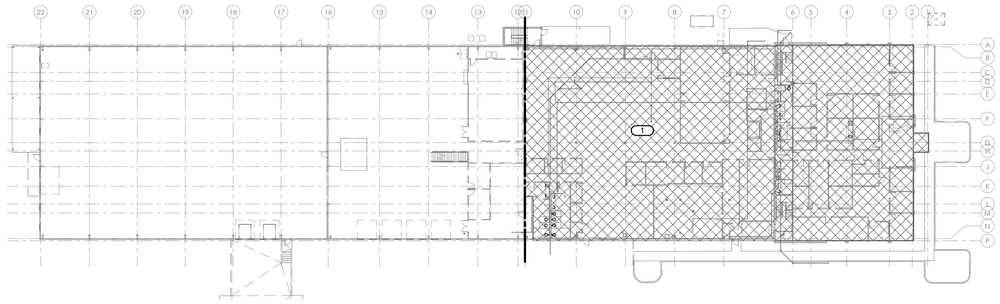
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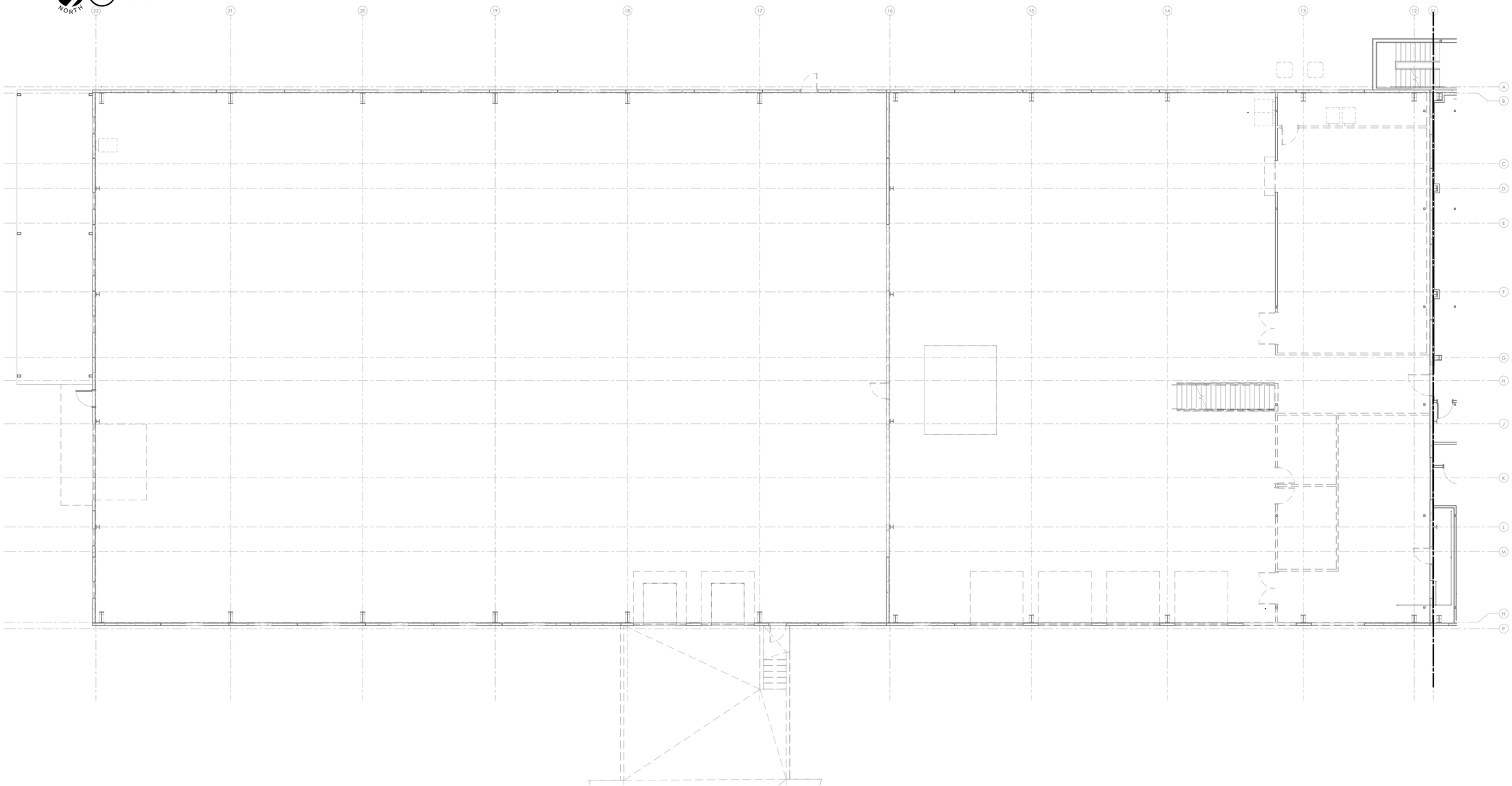
KEYNOTES

1 NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.



1 LEVEL 01 PLUMBING DEMOLITION PLAN

1/32" = 1'-0"



2 LEVEL 01 PLUMBING DEMOLITION PLAN

1/8" = 1'-0"

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PLUMBING DEMOLITION PLAN - ZONE B - LVL 01

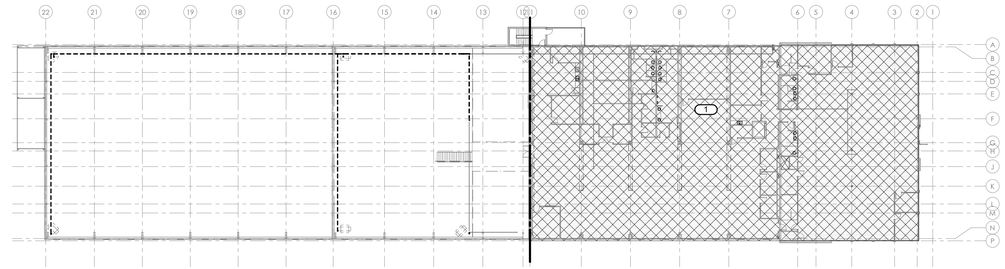
design: CD
date: 2026.09.11
project: 25.18

P1.11

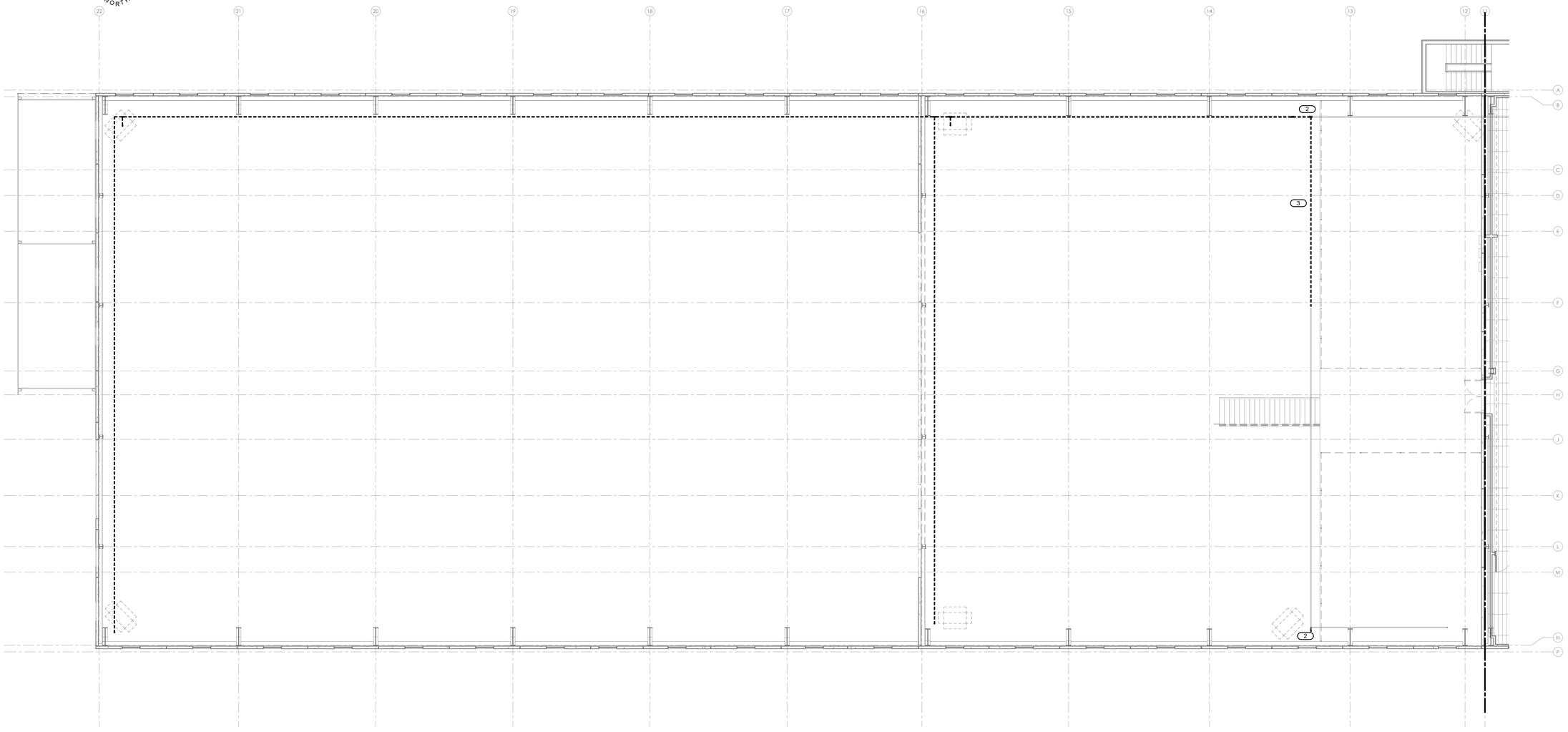
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PROJECT #260034



1 **LEVEL 02 PLUMBING DEMOLITION PLAN OVERALL**
1/32" = 1'-0"



2 **LEVEL 02 PLUMBING DEMOLITION PLAN**
1/8" = 1'-0"

KEYNOTES

1 NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.
2 EXISTING GAS PIPING TO BE DEMOLISHED BACK TO THIS POINT. PROVIDE SHUT OFF VALVE AND CAP FOR NEW WORK DURING NEW CONSTRUCTION.
3 PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.

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contents.
PLUMBING DEMOLITION PLAN - ZONE B - LVL 02

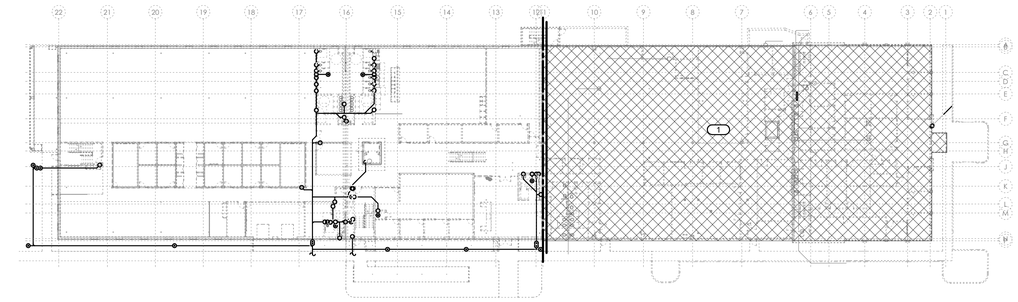
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project. 25.18

P1.12

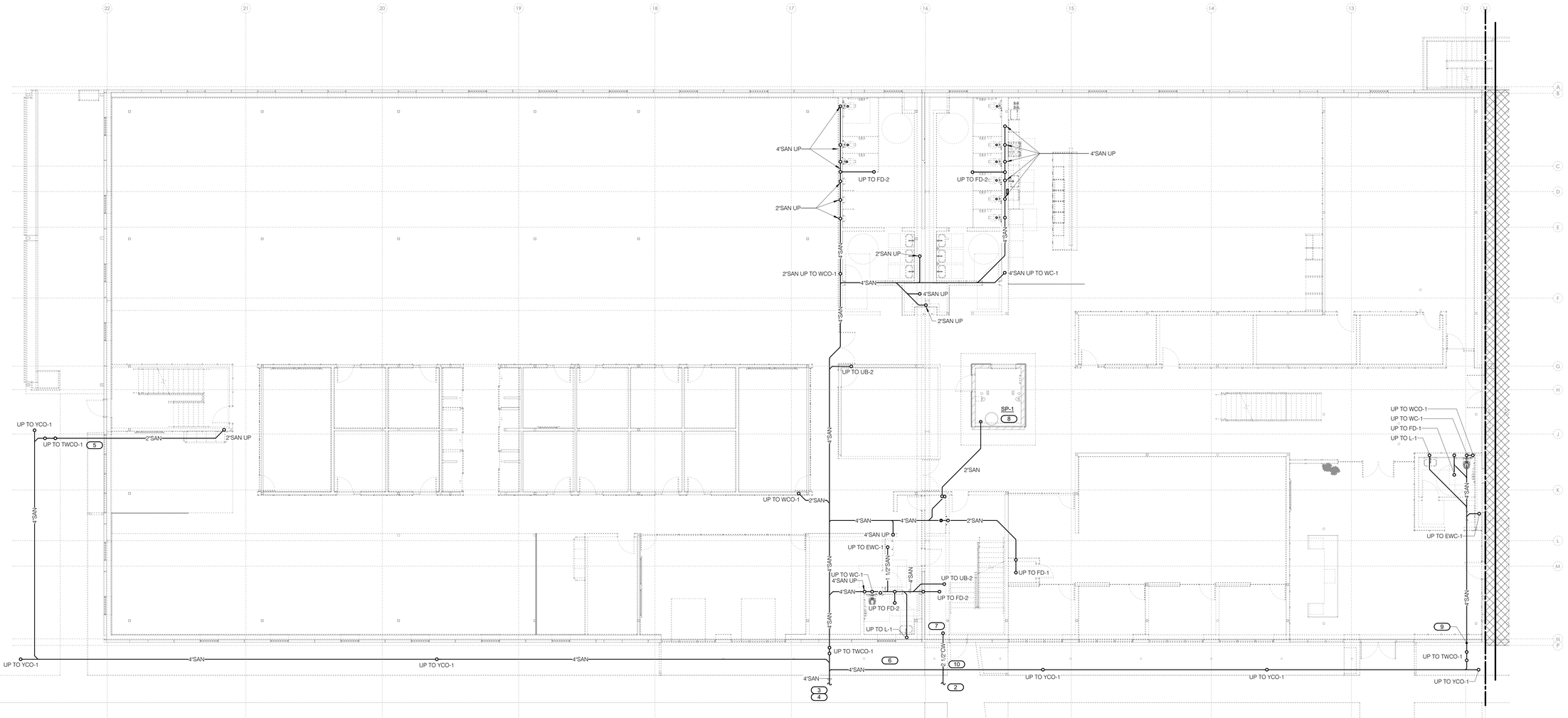
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PROJECT #260034



1 **UNDERFLOOR PLUMBING PLAN**
1/32" = 1'-0"



2 **UNDERFLOOR PLUMBING PLAN**
1/8" = 1'-0"

KEYNOTES

1. NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.
2. DOMESTIC COLD WATER ENTRY. REFER TO CIVIL FOR CONTINUATION.
3. SANITARY SEWER EXIT. TOTAL DFU = 169.5. REFER TO CIVIL FOR CONTINUATION.
4. INVERT ELEVATION = 4'-9" BELOW FINISHED FLOOR.
5. INVERT ELEVATION = 2'-5" BELOW FINISHED FLOOR.
6. MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN THE SANITARY SEWER EXIT AND THE DOMESTIC COLD WATER ENTRY.
7. 2 1/2"CW UP TO LEVEL 01. REFER TO P2.11 FOR CONTINUATION.
8. CONTRACTOR TO COORDINATE PIT LOCATION AND PIPE ROUTING WITH ELEVATOR CONTRACTOR.
9. INVERT ELEVATION = 2'-6" BELOW FINISHED FLOOR.
10. DOMESTIC COLD WATER PIPE TO BE SLEEVED AND EXTEND AT LEAST 5 FEET HORIZONTALLY ON EACH SIDE OF CROSS THE SANITARY SEWER PIPE.

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contents.
PLUMBING PLAN - ZONE B - UNDERFLOOR

design. CD
date. 2026.09.11
project. 25.18

P2.00

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PROJECT #260034

KEYNOTES

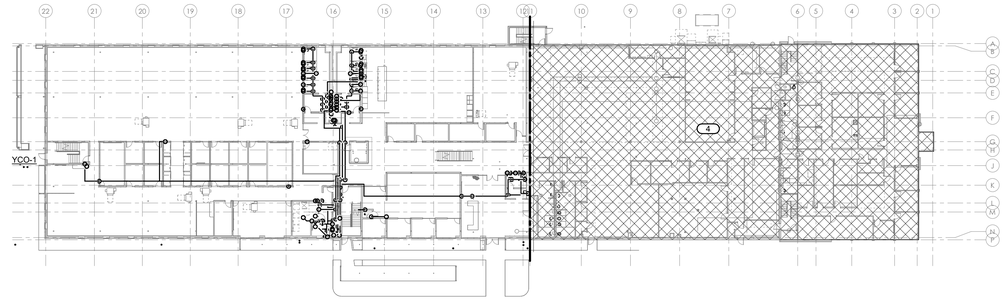
1 DCW LINE TO SERVE COFFEE MAKERS ON BOTH FIRST AND SECOND FLOOR WORK LOUNGES.
2 ROUTE PIPING TIGHT TO STRUCTURE IN AREAS WITH EXPOSED STRUCTURE.
3 NO PIPING IS TO BE ROUTED OVER THIS ROOM.
4 NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.

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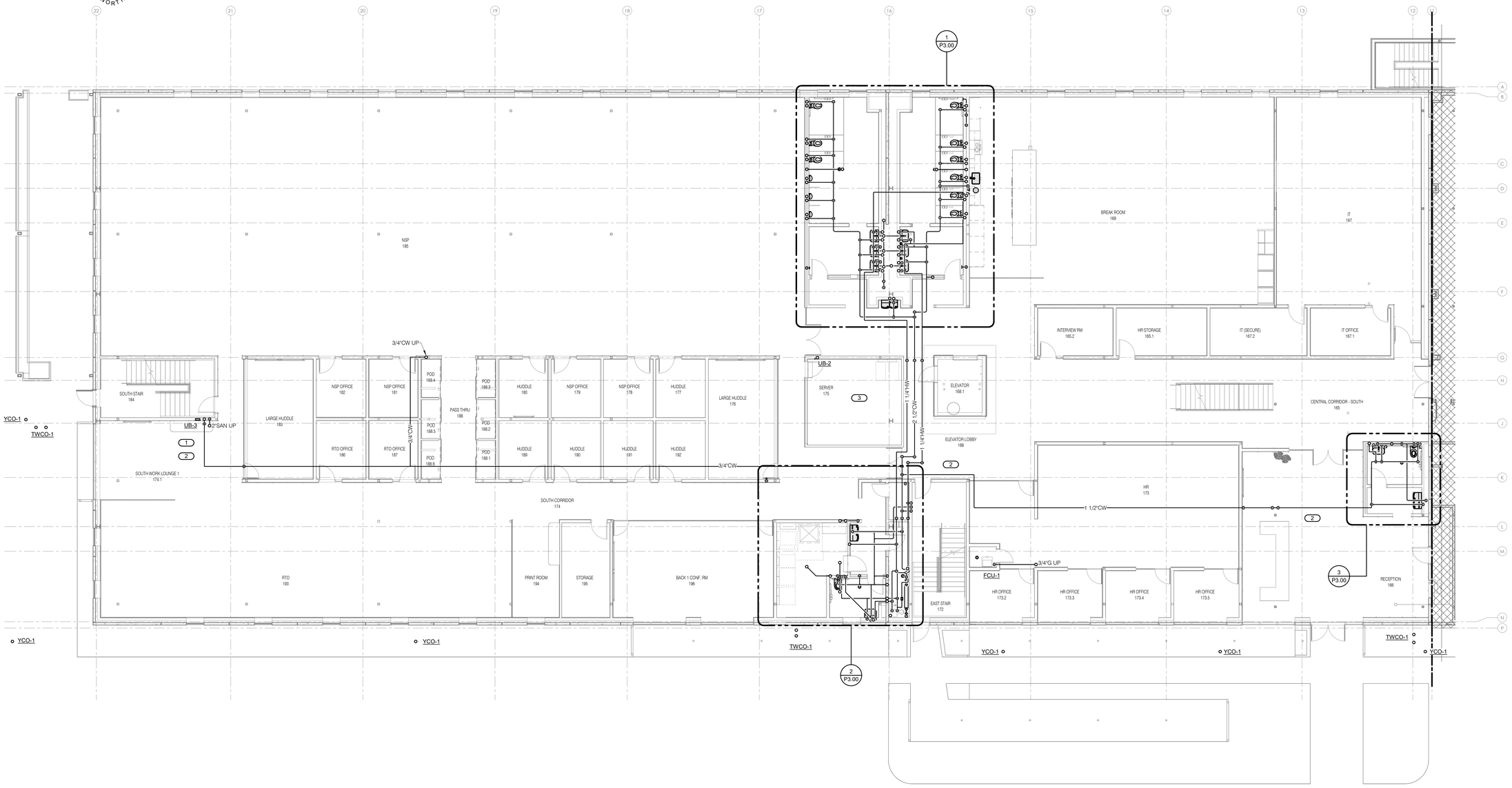
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2 LEVEL 01 PLUMBING PLAN
1/32" = 1'-0"



1 LEVEL 01 PLUMBING PLAN
1/8" = 1'-0"

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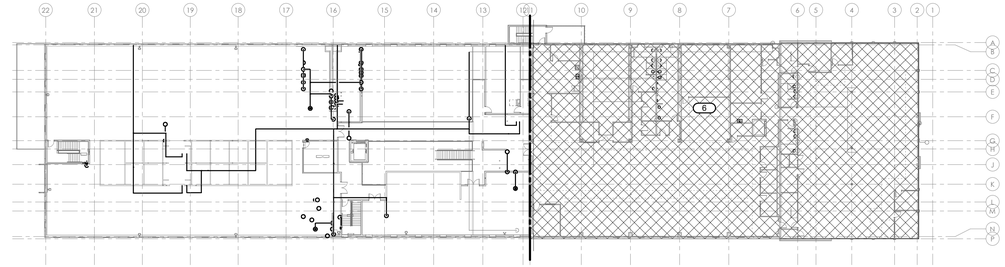
contents: PLUMBING PLAN - ZONE B - LVL 01
design: CD
date: 2026.09.11
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P2.11

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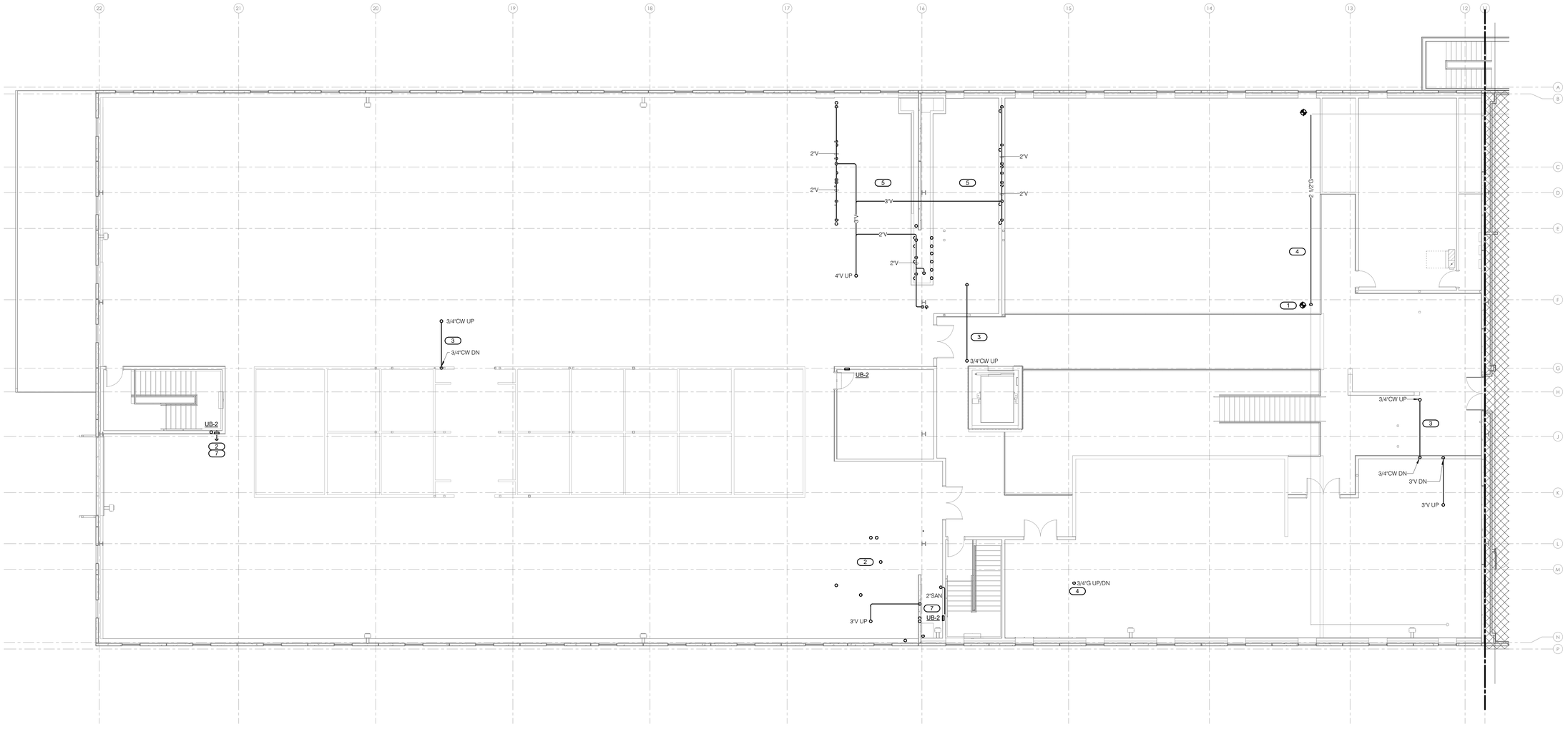
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PROJECT #260034



2 LEVEL 02 PLUMBING PLAN

1/32" = 1'-0"



1 LEVEL 02 PLUMBING PLAN

1/8" = 1'-0"

KEYNOTES

1 PROVIDE NEW GAS PIPING CONNECTION TO EXISTING GAS PIPING SYSTEM, ESTIMATED DEMAND = 2,470 MBH. CONTRACTOR SHALL VERIFY EXISTING GAS LOAD AND SYSTEM CAPACITY TO ACCOMMODATE THE NEW DEMAND. UPSIZE EXISTING PIPING, VALVES, REGULATORS, METER, AND/OR OTHER ASSOCIATED COMPONENTS AS REQUIRED TO MAINTAIN ADEQUATE PRESSURE AND COMPLY WITH APPLICABLE CODE AND UTILITY REQUIREMENTS.

2 DOMESTIC COLD WATER, HOT WATER, AND SANITARY SEWER STUB-UPS TO BE INSTALLED DURING PHASE 1. CAP ALL AND INCLUDE ISOLATION VALVES ON COLD AND HOT WATER. PHASE 2 TO INCLUDE INSTALLATION OF FIXTURES AND REMAINING PIPING. TYPICAL OF ALL AREAS ON THE LEVEL 2 UNLESS NOTED OTHERWISE.

3 DOMESTIC COLD WATER FOR ROOF HYDRANT TO BE INSTALLED DURING PHASE 1

4 ALL NATURAL GAS PIPING WORK ON THIS FLOOR TO BE PERFORMED DURING PHASE 1.

5 VENT PIPING SERVING STACKED RESTROOMS TO BE INSTALLED DURING PHASE 1

6 NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.

7 UTILITY BOX AND SANITARY PIPING ASSOCIATED WITH IT TO BE INSTALLED DURING PHASE 1.

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PLUMBING PLAN - ZONE B - LVL 02

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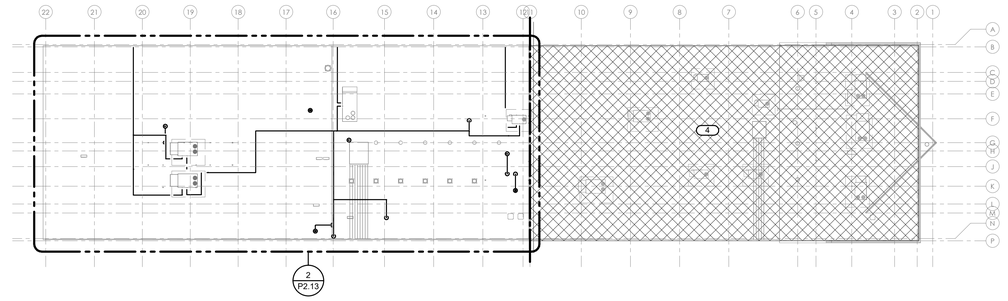
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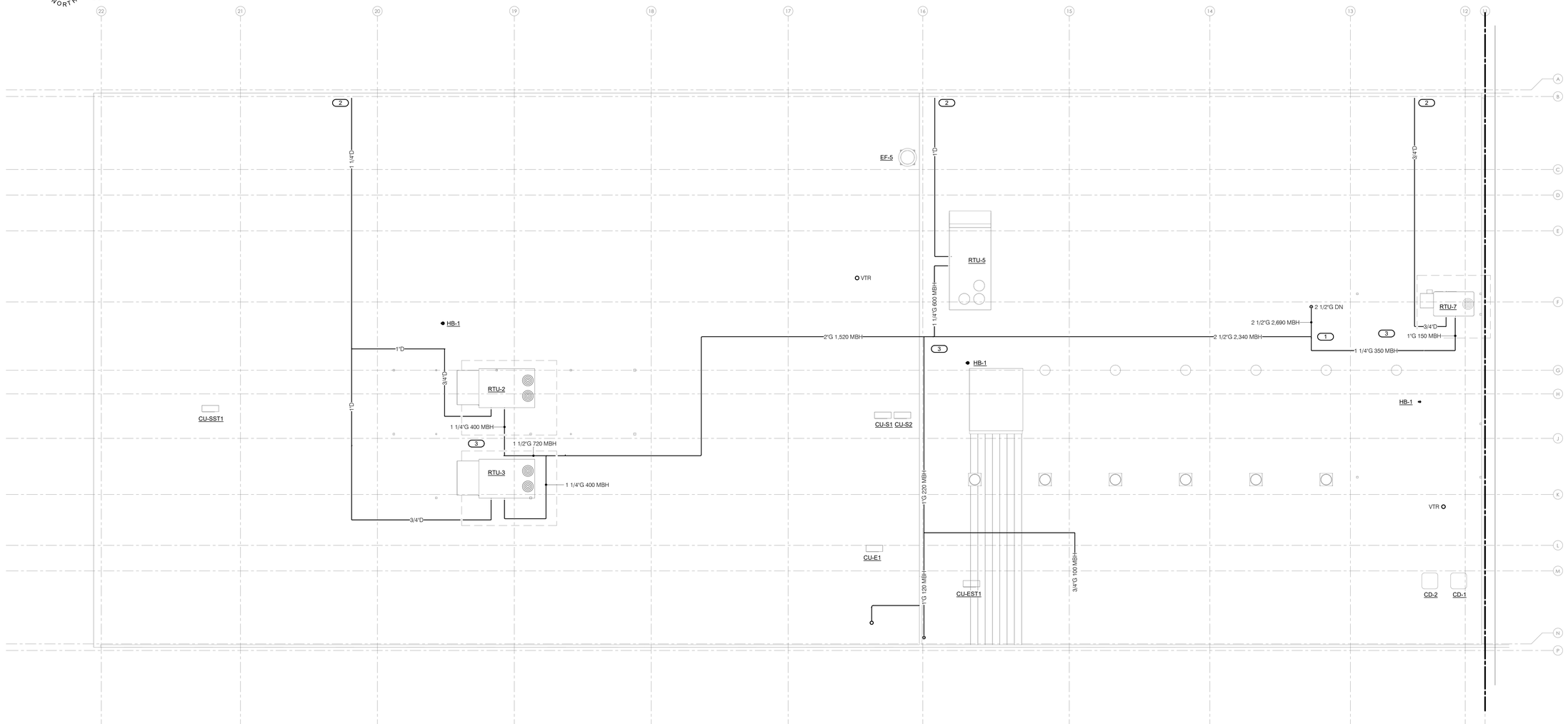
P2.12



1 ROOF PLUMBING PLAN
1/32" = 1'-0"

KEYNOTES

1. GAS PIPING SIZED BASED ON INFORMATION OBTAINED FROM EXISTING BUILDING DOCUMENTS. ESTIMATED TOTAL CONNECTED GAS LOAD - 3,650 MBH. ESTIMATED TOTAL GAS LENGTH - 450 FEET. GAS PRESSURE - LESS THAN 2 PSI. CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND ADJUST GAS PIPE SIZING BASED ON TOTAL CONNECTED LOAD, DISTANCE, AND PRESSURE.
2. CONDENSATE ROUTE TO NEAREST ROOF GUTTER WITH CONTINUOUS SLOPE. TERMINATE DISCHARGE INDIRECTLY INTO GUTTER.
3. NATURAL GAS AND CONDENSATE PIPING TO REMAIN UPSIZED AT GIVEN SIZES TO ACCOMODATE WORK PERFORMED DURING PHASE 2.
4. NO PLUMBING TO BE TOUCHED IN THIS SECTION OF THE BUILDING UNLESS SPECIFICALLY NOTED.



2 ENLARGED ROOF PLUMBING PLAN
1/8" = 1'-0"

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PLUMBING PLAN - ZONE B - ROOF

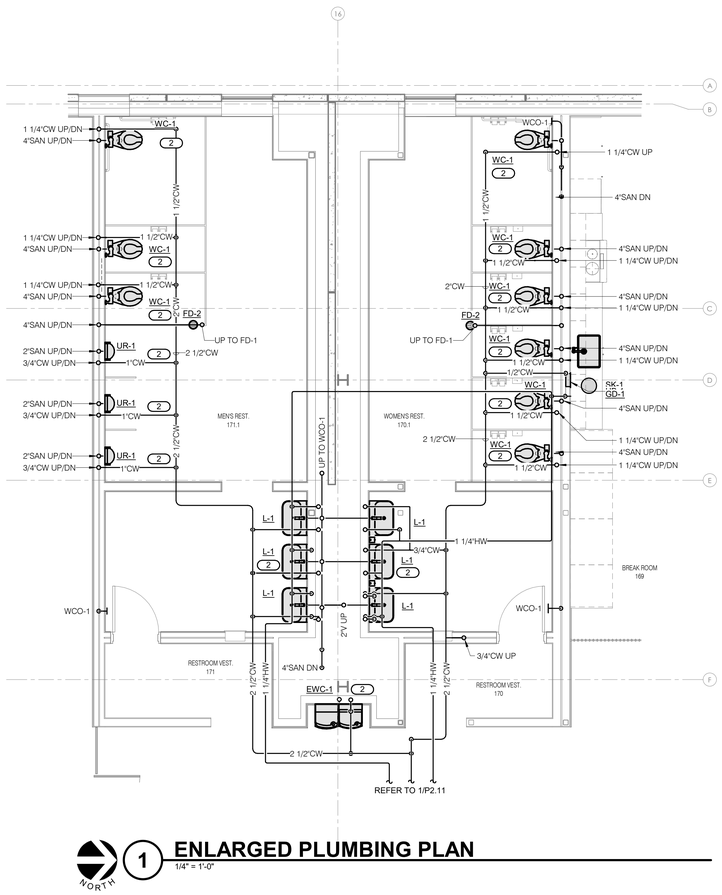
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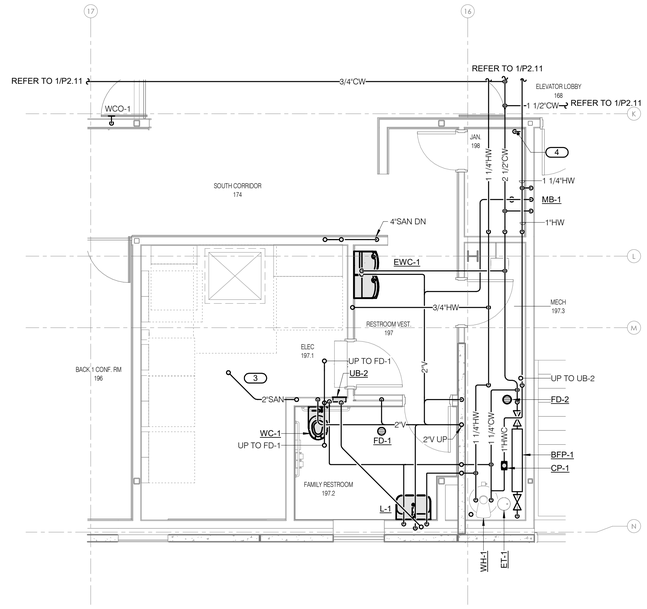
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P2.13



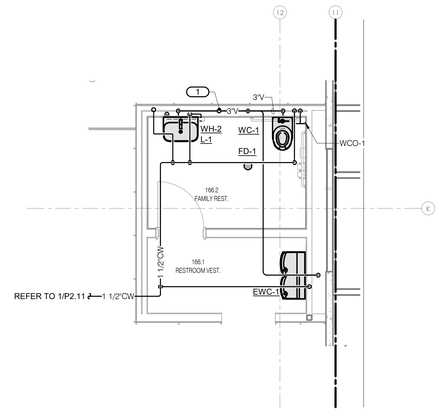
1 ENLARGED PLUMBING PLAN

1/4" = 1'-0"



2 ENLARGED PLUMBING PLAN

1/4" = 1'-0"



3 ENLARGED PLUMBING PLAN

1/4" = 1'-0"

KEYNOTES

1 ROUTE 3"Ø VENT PIPING UP THROUGH SECOND FLOOR TO VTR ON ROOF.

2 HOT AND/OR COLD WATER LINES SHALL BE BRANCHED FROM THE MAIN DISTRIBUTION TO SERVE STACKED PLUMBING FIXTURES AT EACH BRANCH CONNECTION.

3 PIPING ABOVE ELECTRICAL ROOM: SLOPE AWAY FROM ELECTRICAL EQUIPMENT (MIN 1/8" PER FT), NO JOINTS/VALVES/CLEANOUTS OVER EQUIPMENT, PROVIDE SEALED DRIP SHIELD OR PAN WITH DRAIN TO SAFE LOCATION: COORDINATE CLEARANCES WITH ELECTRICAL.

4 PROVIDE SUMP PUMP DISCHARGE TO STANDPIPE VIA CODE APPROVED AIR GAP IN JANITOR'S CLOSET. REFER TO DETAIL FOR SIZING AND INSTALLATION.

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contents:
PLUMBING ENLARGED PLANS - ZONE B - PHASE 1

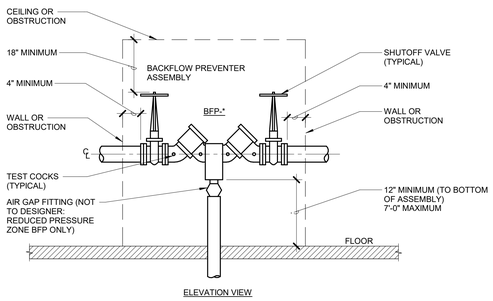
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P3.00

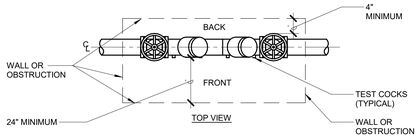
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ELEVATION VIEW



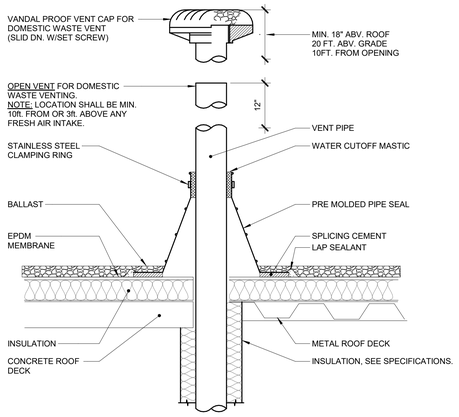
TOP VIEW

NOTES:

1. REFER TO MATERIAL LIST FOR ASSEMBLY TYPE, SIZE, AND CONFIGURATION.

1 BACKFLOW PREVENTER DETAIL

NO SCALE
M_BFP.0.01

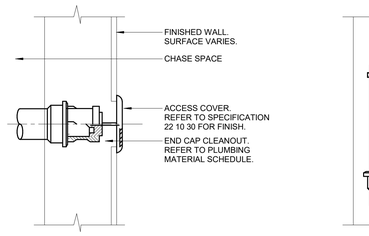


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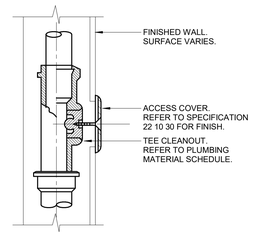
1. VENT PIPE SHALL BE A MINIMUM OF 4" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEAST 12 INCHES BELOW THE THERMAL ENVELOPE OF THE BUILDING.
2. EXTEND VENT PIPE AT LEAST 7 FEET ABOVE ROOF LEVEL WHEN ROOF AREA IS INTENDED TO BE USED BY THE GENERAL PUBLIC. THIS INCLUDES PROMENADES, OBSERVATION DECKS, ETC. THIS IS NOT REQUIRED FOR ROOFS THAT ARE ACCESSIBLE BY MAINTENANCE PERSONEL ONLY.

2 VENT PIPE FLASHING

NO SCALE
M_PEN.0.22



END CAP CLEANOUT

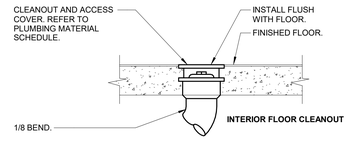


TEE CLEANOUT

WCO LOCATION SCHEDULE (UNLESS SHOWN OTHERWISE ON FLOOR PLAN)	
WATER CLOSET	ON VENT ABOVE WC
URINAL	ON VENT ABOVE UR
LAV, WALL	ON WASTE BELOW LAV
LAV, COUNTER	ON WASTE BELOW LAV THRU BACK OF CABINET
SINK	ON WASTE BELOW SK THRU BACK OF CABINET
FLOOR MOUNTED FIXTURES WITH HORIZONTAL UNDERFLOOR VENT	ON VENT 18" ABOVE PENETRATION THROUGH FLOOR

GENERAL:
A. ON VENT FROM ISLAND FIXTURES.
B. END OF HORIZONTAL CHASE WASTE LINE.
C. AT THE BASE OF STORM AND SANITARY WASTE RISERS.
D. AS REQUIRED BY PLUMBING CODE.

NOTE:
1. CLEANOUTS SHALL BE PROVIDE PER SPECIFICATION SECTION 22 10 30 AND THE APPLICABLE CODE.
2. SPECIFICATION 22 10 30 SHALL BE FOLLOWED WHEN IT EXCEEDS THE CODE MINIMUM REQUIREMENTS.
3. HUB AND SPIGOT PIPE JOINT SYSTEM IS SHOWN AS AN EXAMPLE. REFER TO SECTION 22 10 00 FOR PIPE JOINING METHOD SPECIFIC TO PROJECT AND SYSTEM.



INTERIOR FLOOR CLEANOUT

3 WALL CLEAN OUT DETAIL

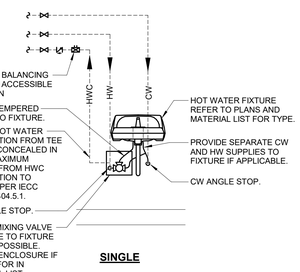
NO SCALE
M_CO.0.01

INTERNATIONAL ENERGY CONSERVATION CODE (IECC) MAXIMUM ALLOWABLE PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER (CIRCULATED TEE FITTING) TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE.

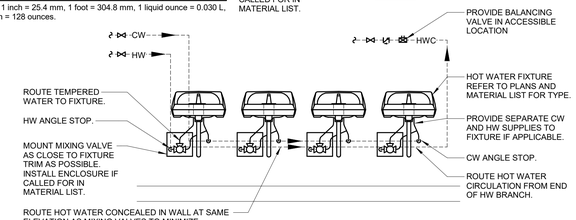
TABLE C404.5.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public lavatory faucets	Other fixtures and appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 or larger	18	0.5	4

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 liquid ounce = 0.030 L, 1 gallon = 128 ounces.



SINGLE

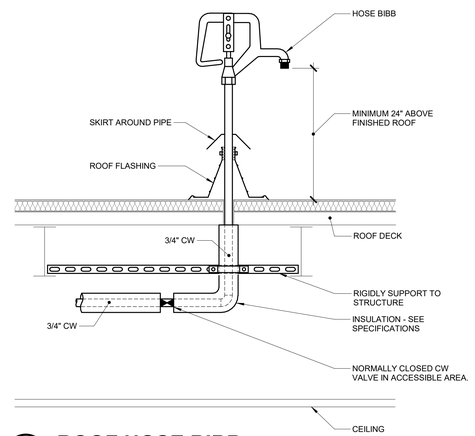


MULTIPLE/BANK

LAVATORY SHOWN; DETAIL IS APPLICABLE TO ALL HW FIXTURES AND DEVICES (E.G. LAVATORIES, SINKS, SHOWERS, TUBS, MOP SINKS, LAUNDRY TUBS, ETC.).

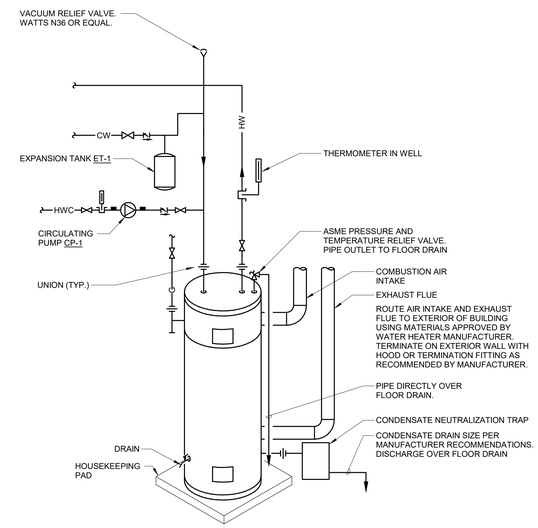
4 LAVATORY MIXING VALVE

NO SCALE
M_MV.0.01



5 ROOF HOSE BIBB

NO SCALE
M_HB.0.01



6 WATER HEATER - GAS TANK

NO SCALE
M_WH.0.07

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contents.
PLUMBING DETAILS

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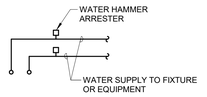
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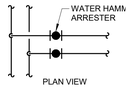
NOT FOR CONSTRUCTION

PROVIDE WATER HAMMER ARRESTER (WHA-#) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTER DESCRIPTION.

SINGLE / DOUBLE FIXTURE



SECTION VIEW



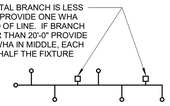
PLAN VIEW

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

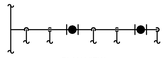
INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

MULTIPLE FIXTURES

IF HORIZONTAL BRANCH IS LESS THAN 20'-0" PROVIDE ONE WHA AT THE END OF LINE. IF BRANCH IS GREATER THAN 20'-0" PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS.



SECTION VIEW

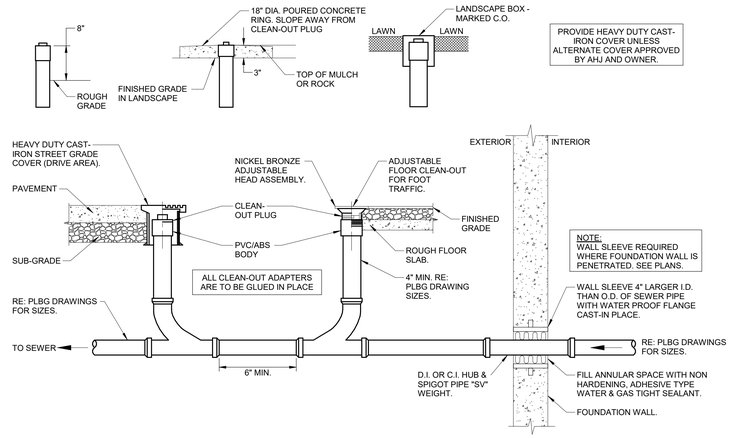


PLAN VIEW

FIXTURE UNIT CALCULATION		
FIXTURE	COLD	HOT
WATER CLOSET (F.V.)	10	--
WATER CLOSET (TANK)	5	--
URINAL	5	--
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	2	-
KITCHEN SINK	2	2
ICE MAKER / BEVERAGE	1	-

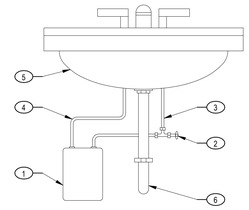
1 WATER HAMMER LOCATION AND SCHEDULE

NO SCALE
M_WHA.0.01



2 YARD CLEANOUT - TWO-WAY

NO SCALE
M_YCO.0.02

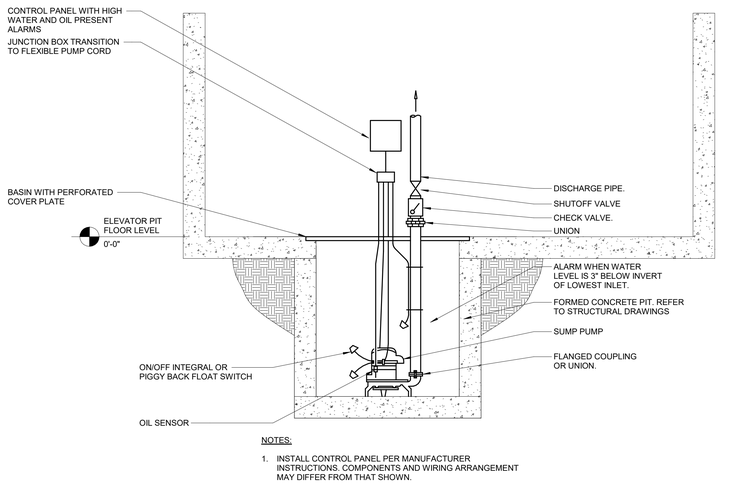


KEYNOTES:

1. INSTANTANEOUS WATER HEATER
2. MAIN DCW SUPPLY
3. SINK DCW SUPPLY
4. SINK DHW SUPPLY. WATER HEATER SET TO PROVIDE 110°F
5. SINK
6. TRAP ASSEMBLY

3 WATER HEATER INSTANTANEOUS WATER HEATER

NO SCALE

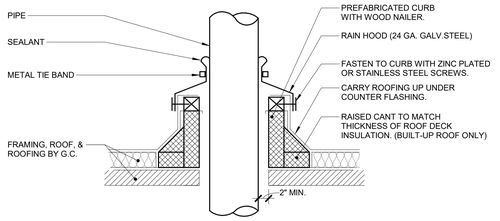


NOTES:

1. INSTALL CONTROL PANEL PER MANUFACTURER INSTRUCTIONS. COMPONENTS AND WIRING ARRANGEMENT MAY DIFFER FROM THAT SHOWN.

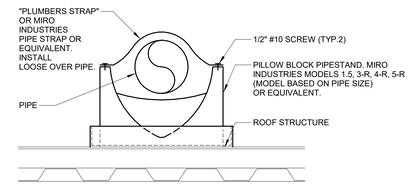
4 ELEVATOR PIT SUMP PUMP DETAIL (OIL SENSOR - CONTROL PANEL)

NO SCALE
M_SP.0.01



5 ROOF PENETRATION - BARE PIPE

NO SCALE
M_PEN.0.01

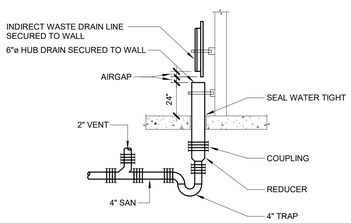


NOTES:

1. SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
2. COORDINATE PIPESTAND LOCATIONS WITH G.C.
3. PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
4. MIRO INDUSTRIES (800)768-6978.

6 PIPE ROOF SUPPORT DETAIL

NO SCALE
M_NG.1.04

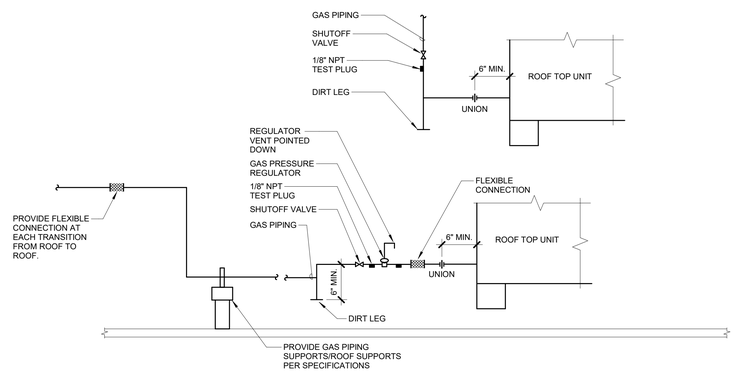


NOTES:

1. AIR GAP DIMENSION TO BE AT LEAST 2 TIMES THE DIAMETER OF THE PIPE DISCHARGING INTO THE INDIRECT WASTE RECEPTOR.

7 STAND PIPE DRAIN

NO SCALE
M_AG.0.02



8 NATURAL GAS FLOW DIAGRAM

NO SCALE
M_NG.1.04

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

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contents: PLUMBING DETAILS

design: CD
date: 2026.09.11
project: 25.18

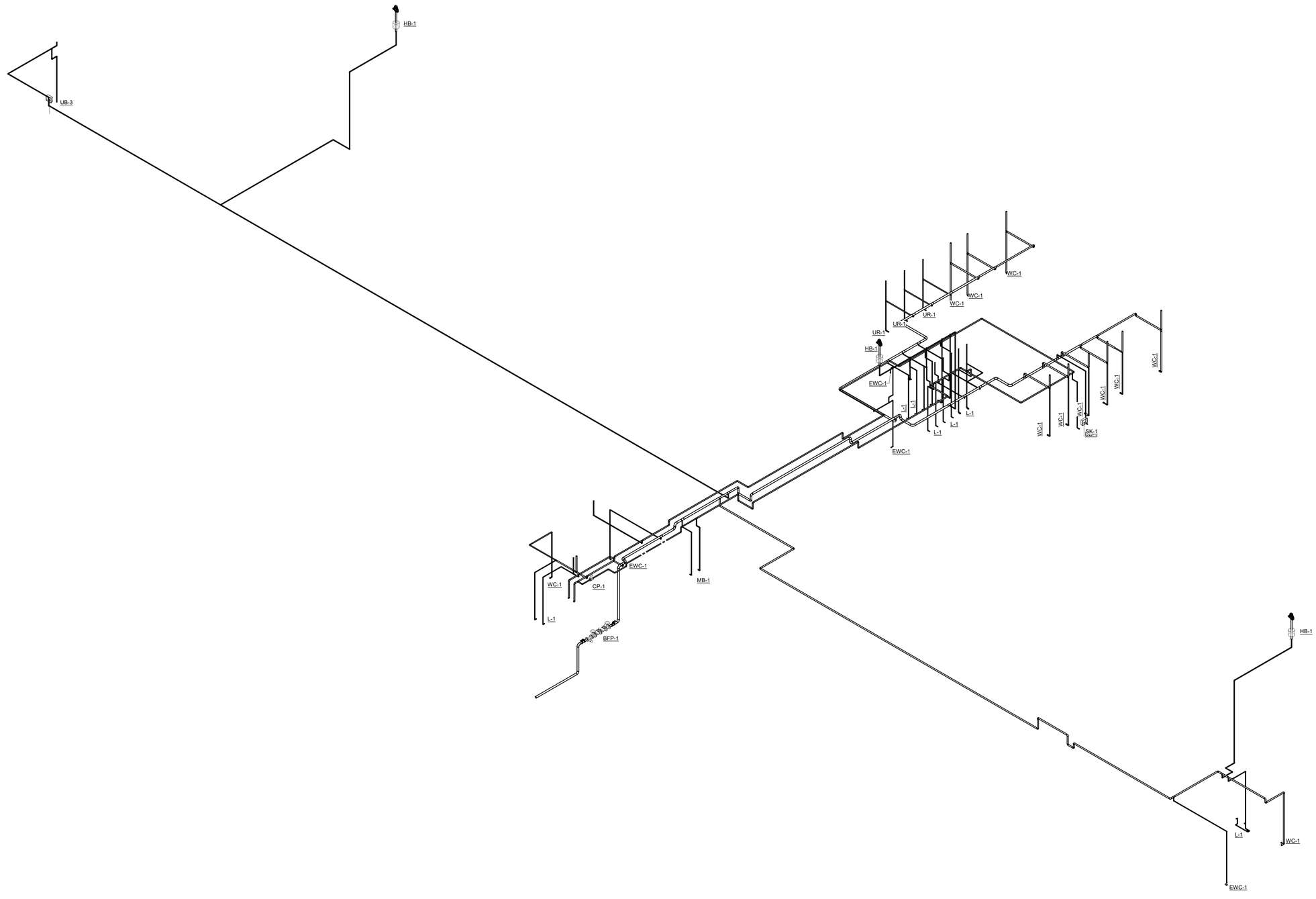
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PROJECT #260034

P4.01



1 RISER DIAGRAM - SUPPLY - PHASE 1

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contents
PLUMBING DIAGRAMS - ZONE B - PHASE 1

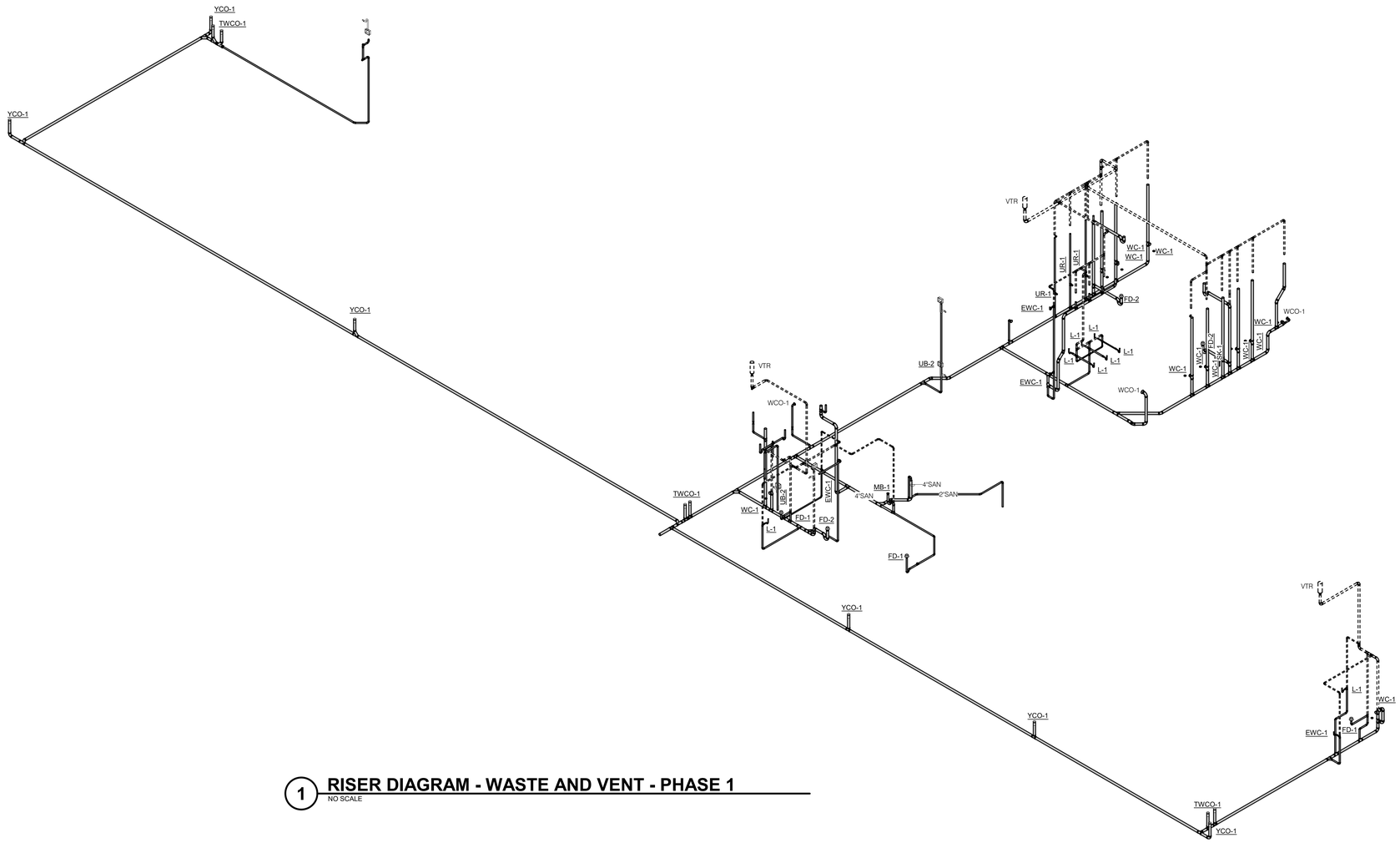
design CD
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PROJECT #260034



1 RISER DIAGRAM - WASTE AND VENT - PHASE 1

NO SCALE

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issue for construction:

revisions:

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PROJECT #260034

P5.01

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BFP-1	BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE 2-1/2", NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, GATE STYLE SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED. MOUNT WITHIN 60" OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	WATTS (957), APOLLO (RPLF4A), ZURN WILKINS (375AST), MIFAB (BEECO BARRACUDA 40 FRP SS)
ET-1	EXPANSION TANK - WELDED STEEL CONSTRUCTION, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO MATCH FIELD VERIFIED STATIC SYSTEM PRESSURE	EXPANSION TANK - WATTS (PLT)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 4" BOTTOM OUTLET, FLASHING COLLAR TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - JRSMITH (2005) TRAP SEAL - SURE SEAL (SS)
FD-2	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 4" BOTTOM OUTLET, FLASHING COLLAR TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - JRSMITH (2005) TRAP SEAL - SURE SEAL (SS)
HB-1	HOSE BIBB - FREEZELESS ROOF HYDRANT, ONE PIECE VARIABLE FLOW PLUNGER WITH ROD GUIDE, BUILT-IN STORAGE RESEVOIR AND VENTURI SYSTEM TO EVACUATE WATER AND ALLOW DRAIN BACK OPERATION FOR FREEZE PROOF WINTERIZATION WITHOUT A DRAIN CONNECTION, CAST IRON FLANGED HYDRANT SUPPORT WITH UNDER-DECK FLANGE, WELL SEAL BETWEEN SUPPORT AND HYDRANT PIPE WITH EDPM BOOT COVER. PROVIDE WITH ASSE 1052 OR 1057 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.	WOODFORD (SRH-MS)
L-1	LAVATORY - WALL MOUNTED, WHITE CERAMIC, 23.6" X 21.1" x 4.7", SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH LAMINAR FLOW OUTLET. MAXIMUM FLOW TO BE 1.0 GPM INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22 40 00. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS.	LAVATORY - NAMEEKS (TEOREMA 2.0 PLUS) LAVATORY TRIM - DELTA (567LF)
MB-1	MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES. TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH ASSE 1011 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP, 24" WIDE STAINLESS STEEL WALL GUARD(S).	MOP BASIN - FIAT (TSB) TRIM - T&S BRASS (B-0665-CRBSTRVR)
SK-1	SINK - UNDERMOUNT SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 28" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, 26" x 18" x 10.5" DEEP BOWL, SOUND DEADENING ON BOTTOM OF BASIN, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. MAXIMUM FLOW TO BE 1.8 GPM FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22 40 00. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	SINK - KRAUS (STANDART PRO) SINK TRIM - DELTA (9159-LS-DST)
TWCO-1	TWO WAY CLEANOUT, SPEEDI-SET OUTLET - UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG.	MANUFACTURER AND MODEL: J.R. SMITH (4237)
UB-1	UTILITY BOX - UNPAINTED GALVANIZED STEEL, OR WHITE PAINTED STEEL ENCLOSURE, MATCHING FACEPLATE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTREGAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT.	GUY GRAY (BIM875AB)
UB-2	UTILITY BOX - PVC / PLASTIC ENCLOSURE, MATCHING SNAP ON FACE PLATE, MINIMUM 6" HIGH BY 6" WIDE BOX, 3/4" TOP MOUNTED CONDENSATE DRAIN INLET, DRAINAGE FUNNNEL WITH 1" AIR GAP, 2" BOTTOM DRAIN OUTLET AND TRAP LOCATED 18"-30" BELOW BOX.	SIOUX CHIEF (696-3F-CF-SC-LC-R3)
UB-3	UTILITY BOX - POLYSTYRENE CONSTRUCTION, 6"W BY 6"H BOX DIMENSIONS, MATCHING SNAP ON FACEPLATE, LOW LEAD 1/4 TURN SHUT OFF VALVE WITH INTEGRAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT. BACK FLOW PREVENTER - DUAL CHECK, LEAD FREE STAINLESS STEEL OR ALUMINUM BODY, HEAVY DUTY FDA APPROVED RUBBER DIAPHRAGMS, 3/8" SIZE, RATED FOR 150 PSI AT 33°F TO 110°F, APPROVED BY ASSE 1032. PROVIDE POLYETHELYENE TUBING DOWNSTREAM FOR FINAL CONNECTION TO EQUIPMENT.	SIOUIX CHIEF (696-G1010) VERSACHECK (VCB038-A)
UR-1	URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. FLUSH VALVE - EXPOSED, SENSOR OPERATION, BATTERY POWERED, 0.125 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY. ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY. CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES. MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. FLUSH HANDLE SHALL BE AT 44" (MAXIMUM) ABOVE FLOOR AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	URINAL - AMERICAN STANDARD (6590.525) FLUSH VALVE - INCLUDED
WC-1	WATER CLOSET - ACCESSIBLE, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD, BOLT CAPS. FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.28 GALLONS PER FLUSH, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, 3 YEAR WARRANTY, WATERSENSE LABELED PER LEED REQUIREMENTS. ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR. FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	WATER CLOSET - AMERICAN STANDARD (MADERA 3043) FLUSH VALVE - AMERICAN STANDARD (6065.121) SEAT - SAME AS WATER CLOSET MANUFACTURER
WCO-1	WALL CLEANOUT - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, [VANDAL RESISTANT] ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.	JR SMITH (4422)
YCO-1	YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	SMITH (4261)

PLUMBING (WITH POWER) MATERIAL LIST

TAG NAME	DESCRIPTION	ELECTRICAL: TOTAL (QTY* KW)	KW	HP (NOTE E)	FLA	MCA	MOCP	VOLTAGE	PHASES	DISCONNECT: BY (NOTE A)	DISCONNECT: TYPE (NOTE B)	CONTROLLER/STARTER: BY (NOTE A)	CONTROLLER/STARTER: TYPE (NOTE C)	EMERGENCY POWER	MANUFACTURER AND MODEL
CP-1	CIRCULATING PUMP - VARIABLE SPEED, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL AND THERMAL OVERLOAD PROTECTION, ONE SET OF DRY CONTACTS FOR STATUS OUTPUT TO BMS, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, MANUFACTURER PROVIDED PUMP BODY INSULATION KIT, UL LISTED. 3 GPM @ 11 FEET OF HEAD. ELECTRICAL REQUIREMENTS - HARD-WIRE	0	0	0.17	0	0	0	120	1	EC	NF	MFR	VFD	No	PUMP - B&G (ECOCIRC XL SERIES)
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL CANE APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON R-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN OR DISCHARGE EXCESS WATER TO BOWL BELOW, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSURE, GFCI BREAKER.	0	0	0.2	0	0	0	120	1	EC	PLUG	0	0	No	ELECTRIC WATER COOLER - ELKAY (LZSTL8WSSK)
GD-1	GARBAGE DISPOSAL - CONTINUOUS FEED UNIT, CORROSION RESISTANT GRIND CHAMBER, CONTROL CENTER WITH AUTOMATIC REVERSING ACTION, OVERLOAD PROTECTION WITH RESET, DISPOSER MOUNTING ASSEMBLY, SOLENOID VALVE, SYPHON BREAKER, FLOW CONTROL VALVE, 1/2" WATER CONNECTION, SUPPORT LEGS, SERVICE WRENCH, FULL 1 YEAR WARRANTY. INCLUDE DELTA AIR SWITCH. ELECTRICAL REQUIREMENTS - HARD-WIRED.			1	10.2	0	0	120	1	EC	NF	EC	FV SWITCH	No	IN-SINK-ERATOR (EVOLUTION)
SP-1	SUMP PUMP - SIMPLEX SUBMERSIBLE, SINGLE-STAGE, SINGLE SEAL, CENTRIFUGAL, END-SUCTION PUMP, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED. CASING - CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 1 1/4" VERTICAL DISCHARGE. IMPELLER - CAST IRON OR ENGINEERED THERMOPLASTIC, STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 1/2" SOLIDS MINIMUM. SHAFT - STEEL OR STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL. MOTOR - 1750 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE WITH GROUNDING PLUG, MAXIMUM LENGTH 6 FEET PER THE NATIONAL ELECTRICAL CODE, COORDINATE RECEPTACLE LOCATION WITH ELECTRICAL CONTRACTOR. CAPACITY : 50 GPM, 15 FEET OF HEAD. ELECTRICAL REQUIREMENTS - HORSEPOWER OR AMPERAGE NOTED IS TOTAL SINGLE POINT CONNECTION. CONTROLS - INTEGRAL FLOAT SWITCH OR PIGGY-BACK FLOAT/DIAPHRAM SWITCH. FLOATS SHALL BE MERCURY-FREE.	0	0	0.5	0	0	0	120	1	MFR	NF	MFR	FV	No	PUMP - STANCOR (SE-50) CONTROLS - STANCOR (OIL MINDER)
WH-1	WATER HEATER - GAS FIRED, CONDENSING, VERTICAL, MINIMUM 94% EFFICIENT, SEALED COMBUSTION, METAL CABINET, BAKED ENAMEL FINISH, ASME STAMPED GLASS-LINED STEEL OR STAINLESS STEEL TANK, 160 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MULTIPLE MAGNESIUM ANODE RODS, VENT PIPING KIT, HIGH TEMPERATURE GAS SHUT OFF, AUTOMATIC WATER THERMOSTAT, BUILT-IN GAS REGULATING VALVE, ADJUSTABLE TEMPERATURE RANGE, 3-YEAR WARRANTY, UL LISTED, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A. 60 GALLON CAPACITY, 120,000 BTUH INPUT NATURAL GAS, 38 GPH RECOVERY AT 100°F RISE. ELECTRICAL REQUIREMENTS - CIRCUIT FOR BLOWER AND CONTROLS, HARD-WIRED. SET WATER TEMPERATURE AT 140°F. SET SUPPLY GAS PRESSURE AT 10" W.C. PROVIDE CONDENSATE NEUTRALIZATION KIT AND LEAK DETECTION KIT.	0	0	0	4	0	0	120	1	EC	NF	0	0	No	WATER HEATER - A.O. SMITH (CYCLONE MXI BTH-120A)
WH-2	WATER HEATER - ELECTRIC INSTANTANEOUS POINT-OF-USE, HIGH STRENGTH REINFORCED PLASTIC BODY, 1/2" COMPRESSION FITTINGS, THERMOSTATICALLY CONTROLLED, NEMA 1 PAINTED STEEL WATERPROOF ENCLOSURE , FACTORY PRESET THERMOSTAT (110°F), HIGH TEMPERATURE LIMIT SWITCH, 150 PSI WORKING PRESSURE, REPLACEABLE ELEMENT , 1-YEAR WARRANTY ON ELEMENT, 5-YEAR WARRANTY ON HEATER BODY/ELEMENT ASSEMBLY, UL LISTED. TURN ON AT 0.5 GPM OR LESS ELECTRICAL REQUIREMENTS - HARD-WIRED. MOUNT WATER HEATER ON WALL BELOW COUNTER OR LAVATORY. SET OUTPUT WATER TEMPERATURE AT 110°F.	5.5			0	20	20	277	1	EC	NF	0	0	No	WATER HEATER - STIEBEL ELTRON (MINI 6-3)

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT PERMITTED IN NON-CONDITIONED OR HIGH-HUMIDITY SPACES (E.G., MECHANICAL ROOMS, EXTERIOR, ATTICS, AND AHU SUPPLY/RETURN AIR TUNNELS). AHU TUNNELS SHALL NOT BE CONSIDERED CONDITIONED SPACES.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
5. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATION(S) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.
7. DIRECT BURIED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURIED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.

SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE: < 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	NOTES
22 PLUMBING - WASTE								
D	DRAIN	A (GlsFbr), B (Elasto), E (Plyiso), F (Phenol)	1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
SAN	SANITARY DRAINAGE	A (GlsFbr) OR B (Elasto) WITH ASTM E84 COMPLIANT JACKET	1/2"	1/2"	1"	1"	1"	APPLY INSULATION TO FLOOR DRAIN BODY, P-TRAP, AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.). APPLY INSULATION TO ALL PIPING ABOVE GRADE.
V	VENT	A (GlsFbr) OR B (Elasto) WITH ASTM E84 COMPLIANT JACKET	1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION.
22 PLUMBING - WATER								
CW	COLD WATER - POTABLE	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	1"	1"	PVC OR HDPE JACKET ONLY FOR DOMESTIC COLD WATER PIPING BELOW GRADE. ELASTOMERIC FOR DOMESTIC COLD WATER ABOVE GRADE. ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.
HW	HOT WATER - POTABLE	A (GlsFbr), B (Elasto)	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.
HWC	HOT WATER CIRCULATING - POTABLE	A (GlsFbr), B (Elasto)	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.

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contents: PLUMBING SCHEDULES

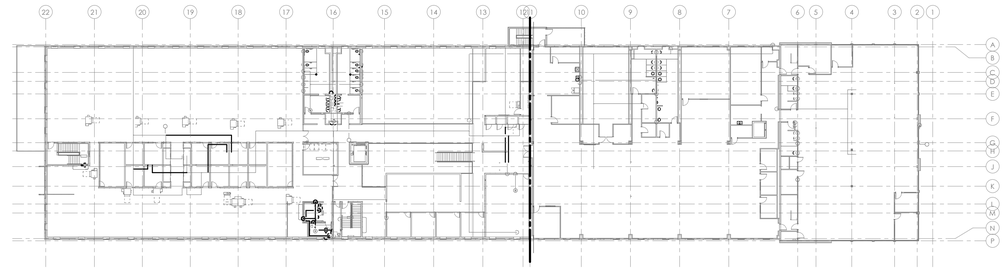
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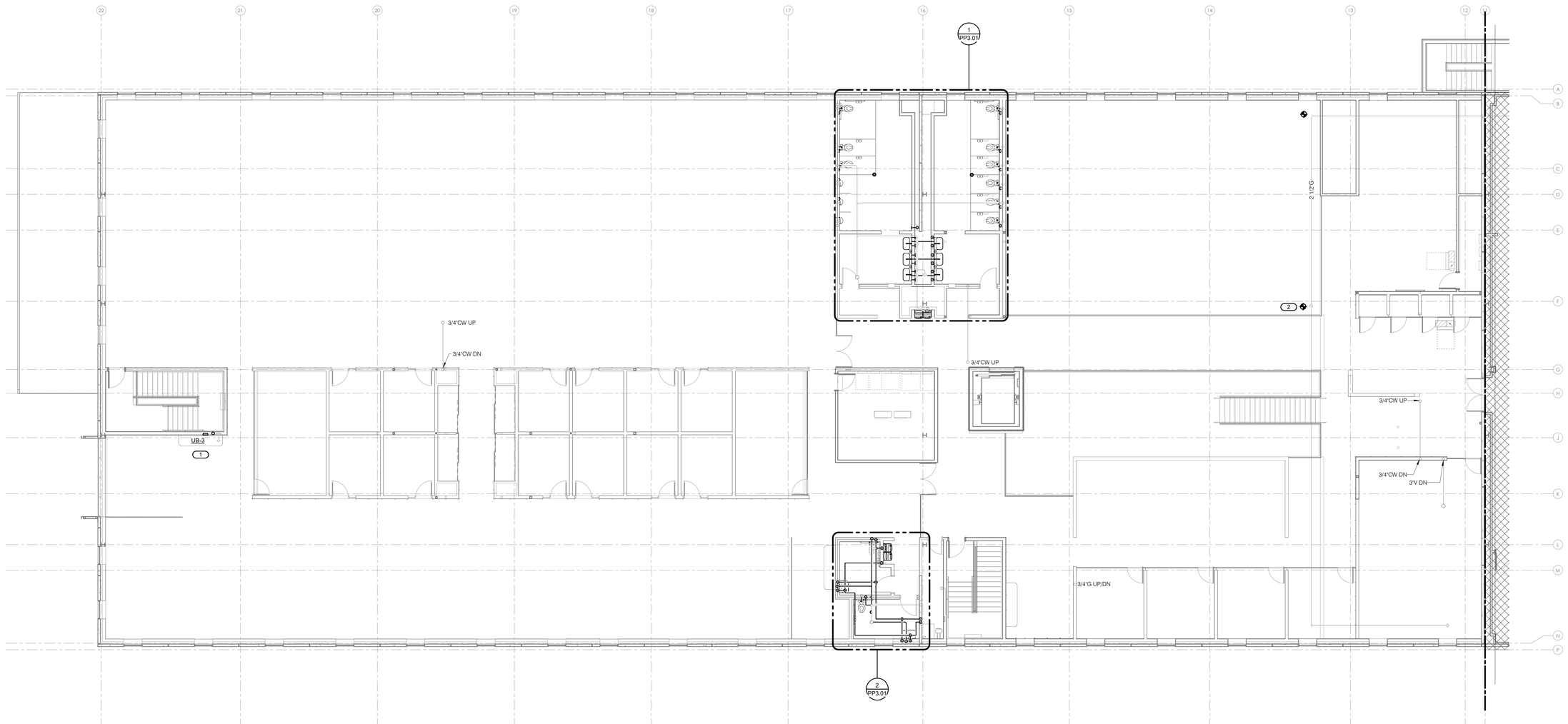
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KEYNOTES

1 COFFEE MAKER IN WORK LOUNGE TO BE SERVED BY DCW LINE FROM FLOOR BELOW.

2 PROVIDE NEW GAS PIPING CONNECTION TO EXISTING GAS PIPING SYSTEM. ESTIMATED DEMAND = 2,470 MBH. CONTRACTOR SHALL VERIFY EXISTING GAS LOAD AND SYSTEM CAPACITY TO ACCOMMODATE THE NEW DEMAND. UPSIZE EXISTING PIPING, VALVES, REGULATORS, METER, AND/OR OTHER ASSOCIATED COMPONENTS AS REQUIRED TO MAINTAIN ADEQUATE PRESSURE AND COMPLY WITH APPLICABLE CODE AND UTILITY REQUIREMENTS.

2 LEVEL 02 PLUMBING PLAN

1/32" = 1'-0"

1 LEVEL 02 PLUMBING PLAN

1/8" = 1'-0"

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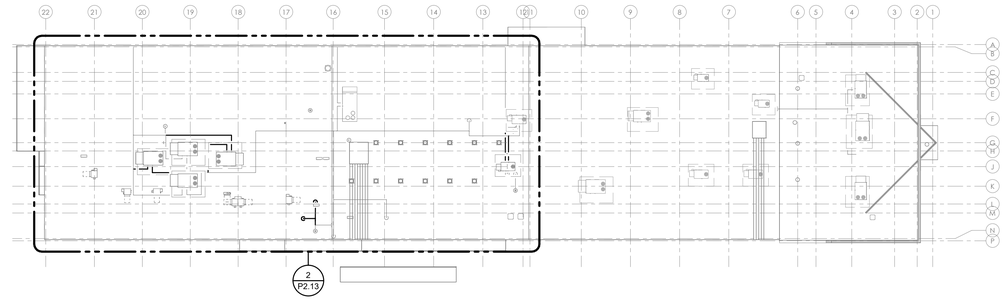
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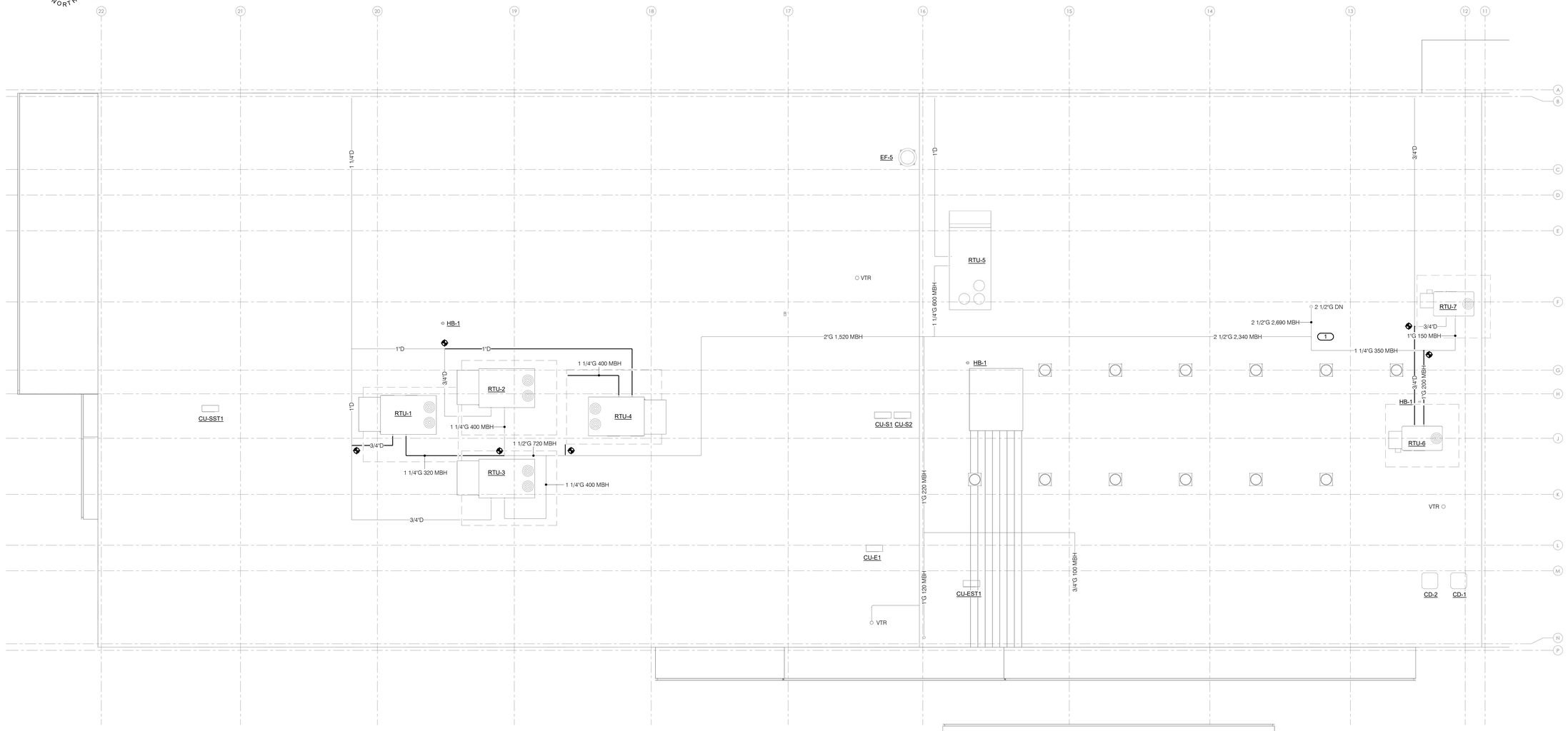
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1 ROOF PLUMBING PLAN
1/32" = 1'-0"



2 ENLARGED ROOF PLUMBING PLAN
1/8" = 1'-0"

KEYNOTES

1 GAS PIPING SIZED BASED ON INFORMATION OBTAINED FROM EXISTING BUILDING DOCUMENTS. ESTIMATED TOTAL CONNECTED GAS LOAD - 3,650 MBH, ESTIMATED TOTAL GAS LENGTH - 450 FEET, GAS PRESSURE - LESS THAN 2 PSI. CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND ADJUST GAS PIPE SIZING BASED ON TOTAL CONNECTED LOAD, DISTANCE, AND PRESSURE.

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PLUMBING PLAN - ZONE B - ROOF - PHASE 2

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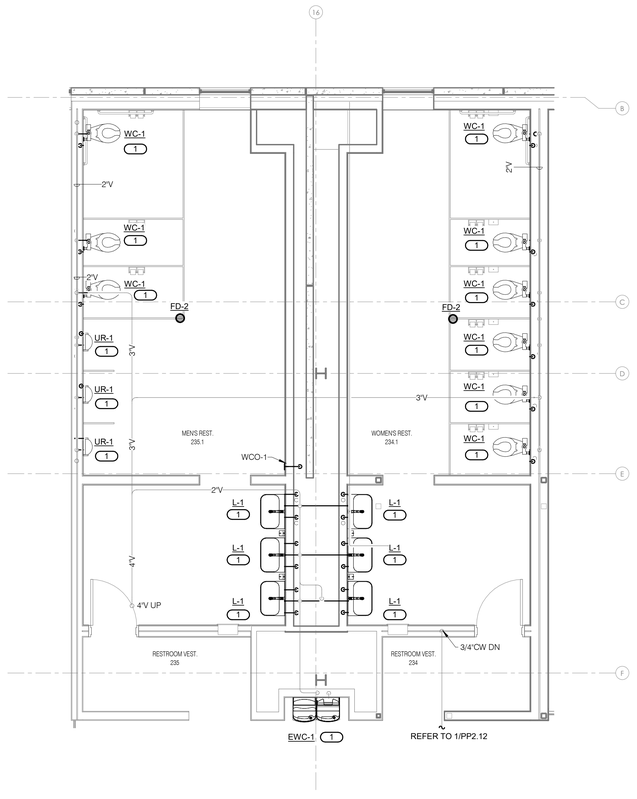
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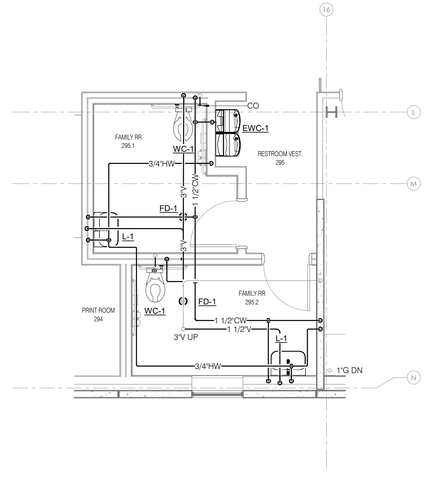
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1 ENLARGED PLUMBING PLAN

1/4" = 1'-0"



2 ENLARGED PLUMBING PLAN

1/4" = 1'-0"

KEYNOTES

1 PLUMBING FIXTURES TO BE SERVED BY SUPPY AND SANITARY LINES FROM THE FLOOR BELOW.

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PLUMBING ENLARGED PLANS - ZONE B - PHASE 2

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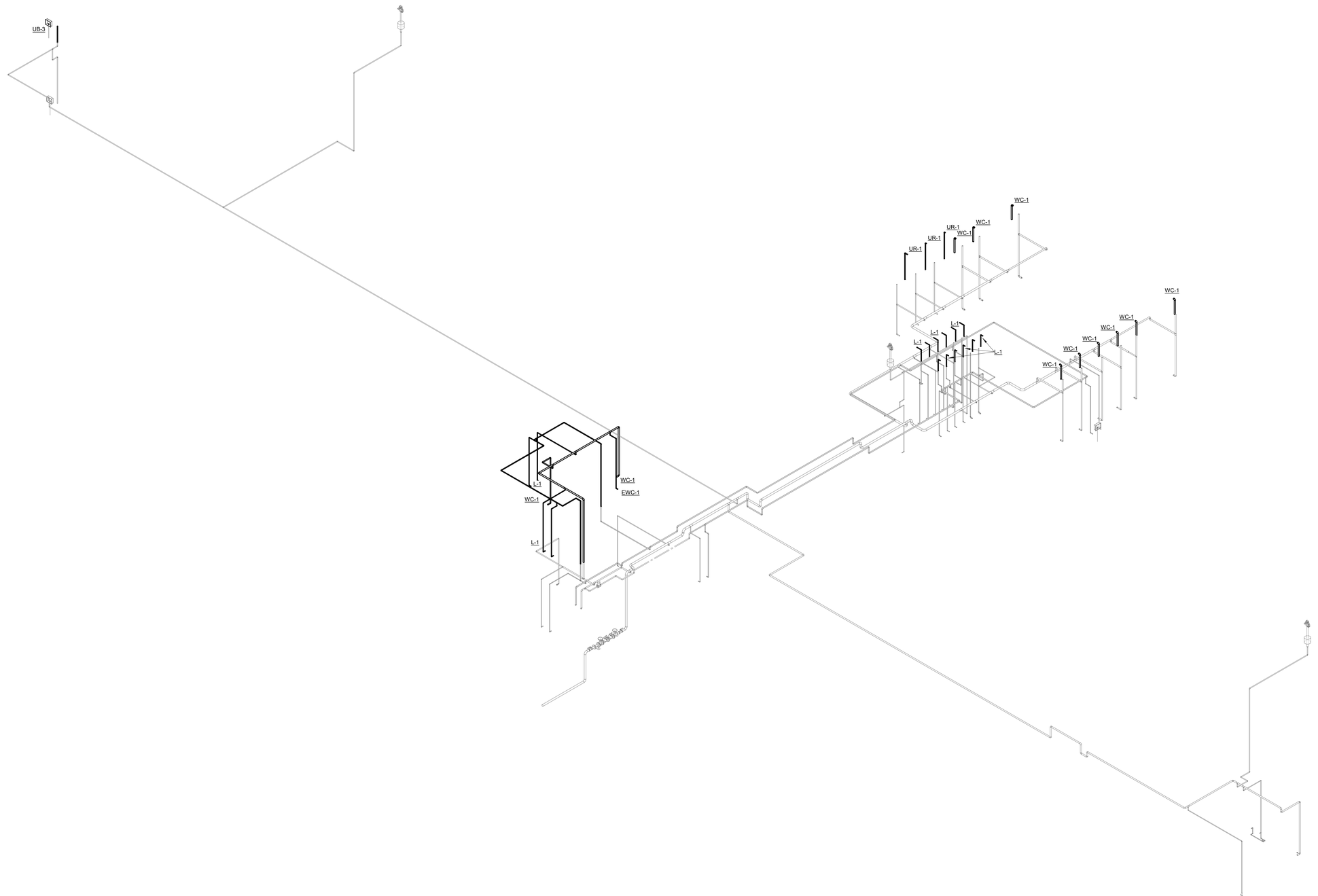
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1 RISER DIAGRAM - SUPPLY - PHASE 2

NO SCALE

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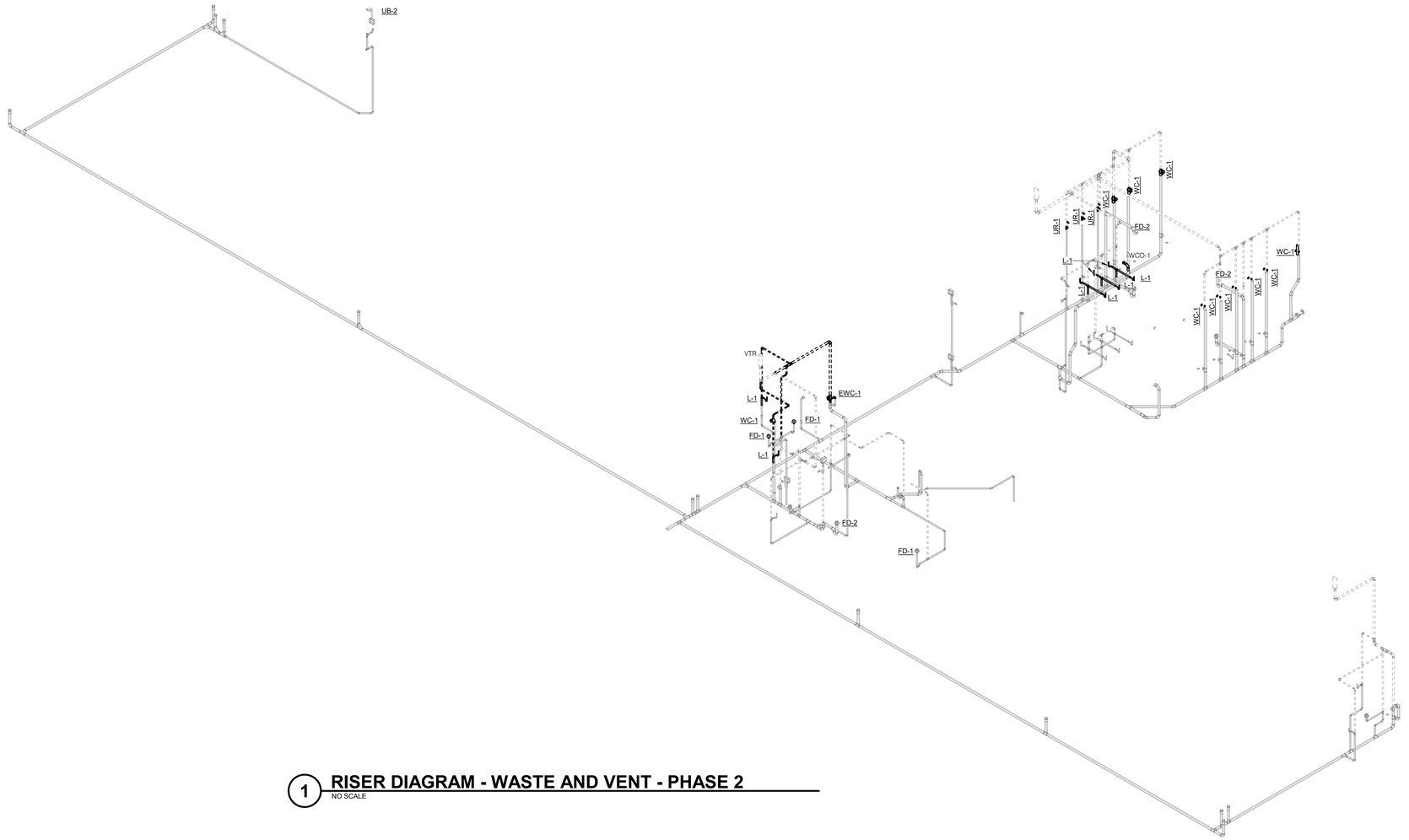
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1 RISER DIAGRAM - WASTE AND VENT - PHASE 2

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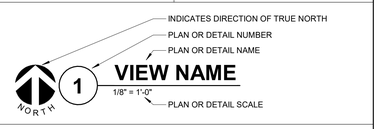
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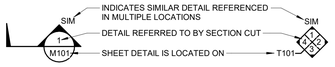
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VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
——— NEW
– – – – – EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
——— EXISTING
– – – – – EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2009

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

DETAIL/DIAGRAM SYMBOLS - PIPE ACCESSORIES

SYMBOL	DESCRIPTION
	ANGLE VALVE
	AUTOMATIC AIR VENT
	AUTOMATIC DRAIN VALVE
	BALANCING VALVE (MANUAL)
	CHECK VALVE
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
	FLEXIBLE CONNECTION
	FLOW SWITCH
	MANUAL AIR VENT
	PIPE CAP
	PITCH PIPE IN DIRECTION
	PRESSURE / TEMPERATURE PLUG
	PRESSURE GAUGE WITH VALVE
	PRESSURE REDUCING VALVE (LIQUID / GAS)
	SAFETY RELIEF VALVE
	SHUTOFF VALVE (NORMALLY CLOSED)
	SHUTOFF VALVE (NORMALLY OPEN)
	SOLENOID VALVE
	UNION / FLANGE

SYMBOL LIST - PIPE ACCESSORIES

SYMBOL	DESCRIPTION
	PIPE DOWN AND PIPE UP / UP AND DOWN
	REDUCER
	SHUTOFF VALVE

SYMBOL LIST - VENTILATION

SYMBOL	DESCRIPTION
SG-1 6/115	AIR TERMINAL PROPERTIES - TAG / NECK SIZE/CFM
	DUCT CAP
	DUCT DOWN, DUCT UP
	MANUAL VOLUME DAMPER

SYMBOL LIST - SENSORS

SYMBOL	DESCRIPTION
T	THERMOSTAT

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
5. WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
10. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

TAB PRE-DEMOLITION NOTES:

1. BEFORE ANY DEMOLITION WORK IS BEGUN AN AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR FOR EQUIPMENT AND DEVICES AS INDICATED ON THE DRAWINGS. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
2. TAB CONTRACTOR SHALL COMPILE AND SUBMIT THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
3. BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE- DEMOLITION REPORT).
3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION AND SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
7. DIFFERENTIAL PRESSURE CONTROLLED SPACES: TAB CONTRACTOR IS PERMITTED TO ADJUST RETURN AIR (RA) AIRFLOW RATES IN DP-CONTROLLED ROOMS AS NEEDED TO ACHIEVE SPECIFIED PRESSURE DIFFERENTIALS. ROOM RETURN CFMS SHOWN ON DRAWINGS ARE BASELINE ESTIMATES ONLY; ACTUAL VALUES MUST BE FIELD-ADJUSTED TO MAINTAIN SPECIFIED DP SETPOINTS.

HVAC ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRICAL TO PNEUMATIC VALVE
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
PS	PRESSURE SWITCH
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

HVAC SHEET INDEX

M0.00	HVAC COVERSHEET - PP, V
M1.11	HVAC DEMOLITION PLAN - ZONE B - LVL1 - PLAN
M1.12	HVAC DEMOLITION PLAN - ZONE B - LVL 2 - PLAN
M1.13	HVAC DEMOLITION PLAN - ZONE B - ROOF
M2.01	HVAC PLAN - ZONE B - LVL 01 OVERALL
M2.02A	HVAC PLAN - ZONE B - LVL 01 - NORTH
M2.02B	HVAC PLAN - ZONE B - LVL 01 - SOUTH
M2.11	HVAC PLAN - ZONE B - LVL 02 OVERALL
M2.12A	HVAC PLAN - ZONE B - LVL 02 NORTH - PHASE 1
M2.12B	HVAC PLAN - ZONE B - LVL 02 SOUTH - PHASE 1
M2.201	HVAC PLAN - ZONE B - ROOF PLAN - PHASE 1
M4.00	HVAC DETAILS
M4.01	HVAC DETAILS
M4.02	HVAC DETAILS
M4.03	HVAC DETAILS
M4.04	HVAC DETAILS
M5.00	CONTROLS DIAGRAM SINGLE ZONE
M5.01	CONTROLS DIAGRAM MULTI ZONE
M6.00	HVAC SCHEDULES - PHASE 1
M9.00	PHASE 1 HVAC RISERS
M9.01	PHASE 1 HVAC RISERS
MM1.12A	HVAC DEMOLITION PLAN - ZONE B - LVL 02 NORTH - PHASE 2
MM1.12B	HVAC DEMOLITION PLAN - ZONE B - LVL 02 SOUTH - PHASE 2
MM2.12A	HVAC PLAN - ZONE B - LVL 02 NORTH - PHASE 2
MM2.12B	HVAC PLAN - ZONE B - LVL 02 SOUTH - PHASE 2
MM2.20	HVAC PLAN - ZONE B - ROOF PLAN - PHASE 2
MM6.00	HVAC SCHEDULES - PHASE 2
MM9.00	PHASE 2 HVAC RISERS
GRAND TOTAL: 28	

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL (E.G. GRILLE, REGISTER, DIFFUSER) SHALL MATCH THE INLET SIZE.
3. UNLESS NOTED OTHERWISE, DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. MAINTAIN CLEAR DIMENSIONS INSIDE ANY LINING
4. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES WHEN IN CLOSE PROXIMITY TO EACH OTHER.
5. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
6. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
7. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
8. CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS PER SPECIFICATION SECTION 23 31 00.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PROJECT ALTITUDE:	**1,316.00 FT. ABOVE SEA LEVEL**

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: **BASED ON WEATHER DATA FOR: BENTONVILLE, AR**

SUMMER: 100°F DRY BULB, 73.6°F WET BULB
WINTER: 0°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN: 70°F DRY BULB, 55% RELATIVE HUMIDITY
WINTER DESIGN: 70°F DRY BULB, 55% RELATIVE HUMIDITY
SUMMER SETBACK: 73°F DRY BULB, 50% RELATIVE HUMIDITY
WINTER SETBACK: 67°F DRY BULB, 50% RELATIVE HUMIDITY
REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

DUCT ABBREVIATION KEY

ABBR.	DESCRIPTION
EA	EXHAUST AIR
OA	OUTSIDE AIR
RA	RETURN/RELIEF AIR
SA	SUPPLY AIR
SA1	SUPPLY AIR Type 1
SA2	SUPPLY AIR Type 2

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:
mark date description

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REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS. WITHOUT EXCEPTION. **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents: HVAC COVERSHEET - PP, V
design: CD
date: 2026.09.11
project: 25.18

M0.00

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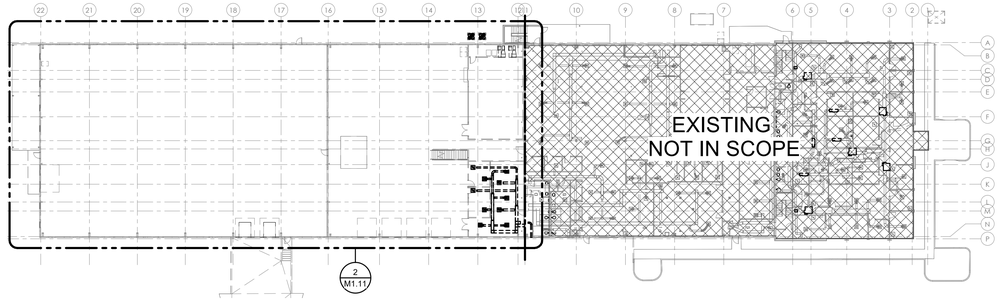
PROJECT #260034

MECHANICAL GENERAL SHEET NOTES:

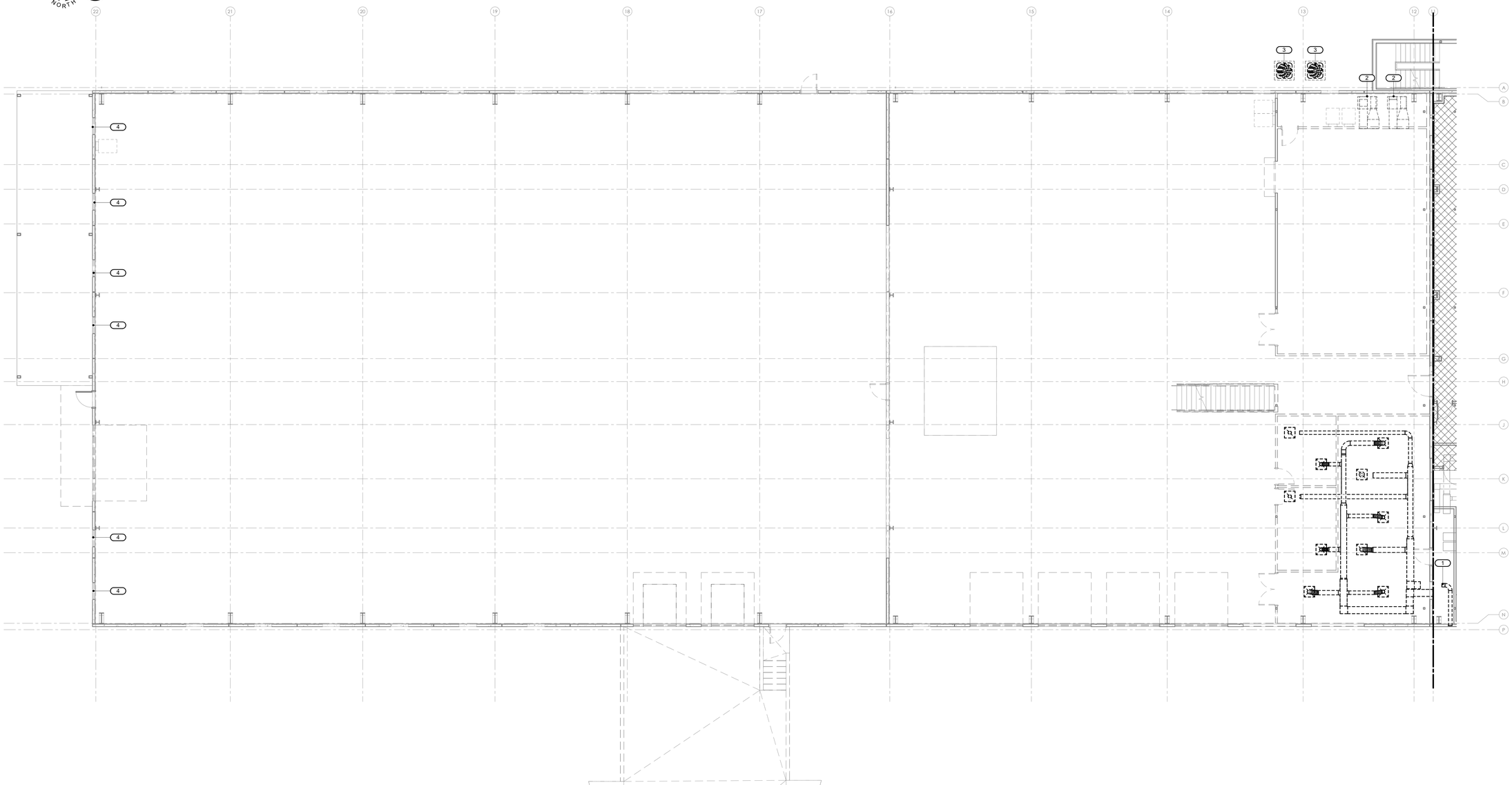
1. ALL DUCTWORK, DUCT ACCESSORIES, DIFFUSERS, REGISTERS, AND ACCOMPANIED ACCESSORIES TO BE DEMOLISHED. AIR DEVICES SUCH AS REGISTERS, GRILLES, DIFFUSERS, DAMPERS ECT TO BE VERIFIED WITH SPECIFICATIONS AND ARCHITECT TO ENSURE THEY MEET ENGINEERING STANDARDS AND DESIGN CRITERIA IF THEY ARE TO BE REUSED. IF, WITH ARCHITECT AND OWNER APPROVAL, ITEMS ARE TO BE REUSED IN NEW DESIGN CONTRACTOR IS TO STORE SAID ITEMS IN A SECURE AND LOCKED LOCATION UNTIL DOCUMENTATION CAN BE PROVIDED TO EOR FOR ITEM TYPE, SPECIFICATIONS, INTENDED USE, AND LOCATION WITH NEW CONSTRUCTION PLANS FOR EOR APPROVAL BEFORE INSTALLATION. .

KEYNOTES

1. EXISTING AIR HANDLER AND ALL ASSOCIATED DUCTWORK, PIPING, AND ACCESSORIES TO BE DEMOLISHED AND REMOVED. CONTRACTOR TO VERIFY SPACE IS ADEQUATE FOR NEWLY INSTALLED SYSTEMS. LOUVER CONNECTED TO EXISTING SYSTEM TO BE REMOVED AND WALL PREPARED FOR INSTALLATION OF NEW LOUVER SPECIFIED ON MECHANICAL SCHEDULES SHEET.
2. EXISTING AIR HANDLER AND ALL ASSOCIATED DUCTWORK, PIPING, AND ACCESSORIES TO BE DEMOLISHED AND REMOVED. CONTRACTOR TO FIX ANY PENETRATIONS TO CODE AND FINISH PER ARCHITECTS SPECIFICATIONS.
3. EXISTING HEAT PUMPS TO BE DEMOLISHED. EXISTING PADS/MOUNTING EQUIPMENT TO BE DEMOLISHED.
4. EXISTING LOUVERS TO BE REMOVED. ALL WALL PENETRATIONS TO BE PATCHED AND REPAIRED PER ARCHITECTS SPECIFICATIONS.



NORTH 1 **LEVEL 01 HVAC DEMOLITION PLAN OVERALL**
1/32" = 1'-0"



NORTH 2 **LEVEL 01 HVAC DEMOLITION PLAN**
1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

mark	date	description

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contents:
HVAC DEMOLITION PLAN - ZONE B - LVL1 - PLAN

design. CD
date. 2026.09.11
project. 25.18

M1.11

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www.imegcorp.com

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PROJECT #260034

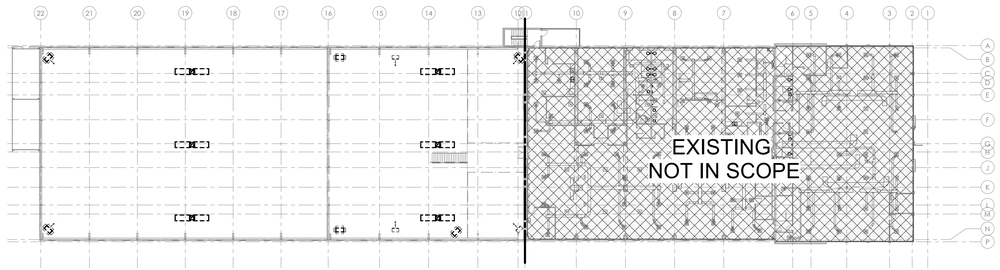
MECHANICAL GENERAL SHEET NOTES:

1. ALL DUCTWORK, DUCT ACCESSORIES, DIFFUSERS, REGISTERS, AND ACCOMPANIED ACCESSORIES TO BE DEMOLISHED. AIR DEVICES SUCH AS REGISTERS, GRILLES, DIFFUSERS, DAMPERS ECT TO BE VERIFIED WITH SPECIFICATIONS AND ARCHITECT TO ENSURE THEY MEET ENGINEERING STANDARDS AND DESIGN CRITERIA IF THEY ARE TO BE REUSED. IF, WITH ARCHITECT AND OWNER APPROVAL, ITEMS ARE TO BE REUSED IN NEW DESIGN CONTRACTOR IS TO STORE SAID ITEMS IN A SECURE AND LOCKED LOCATION UNTIL DOCUMENTATION CAN BE PROVIDED TO EOR FOR ITEM TYPE, SPECIFICATIONS, INTENDED USE, AND LOCATION WITH NEW CONSTRUCTION PLANS FOR EOR APPROVAL BEFORE INSTALLATION. .

KEYNOTES

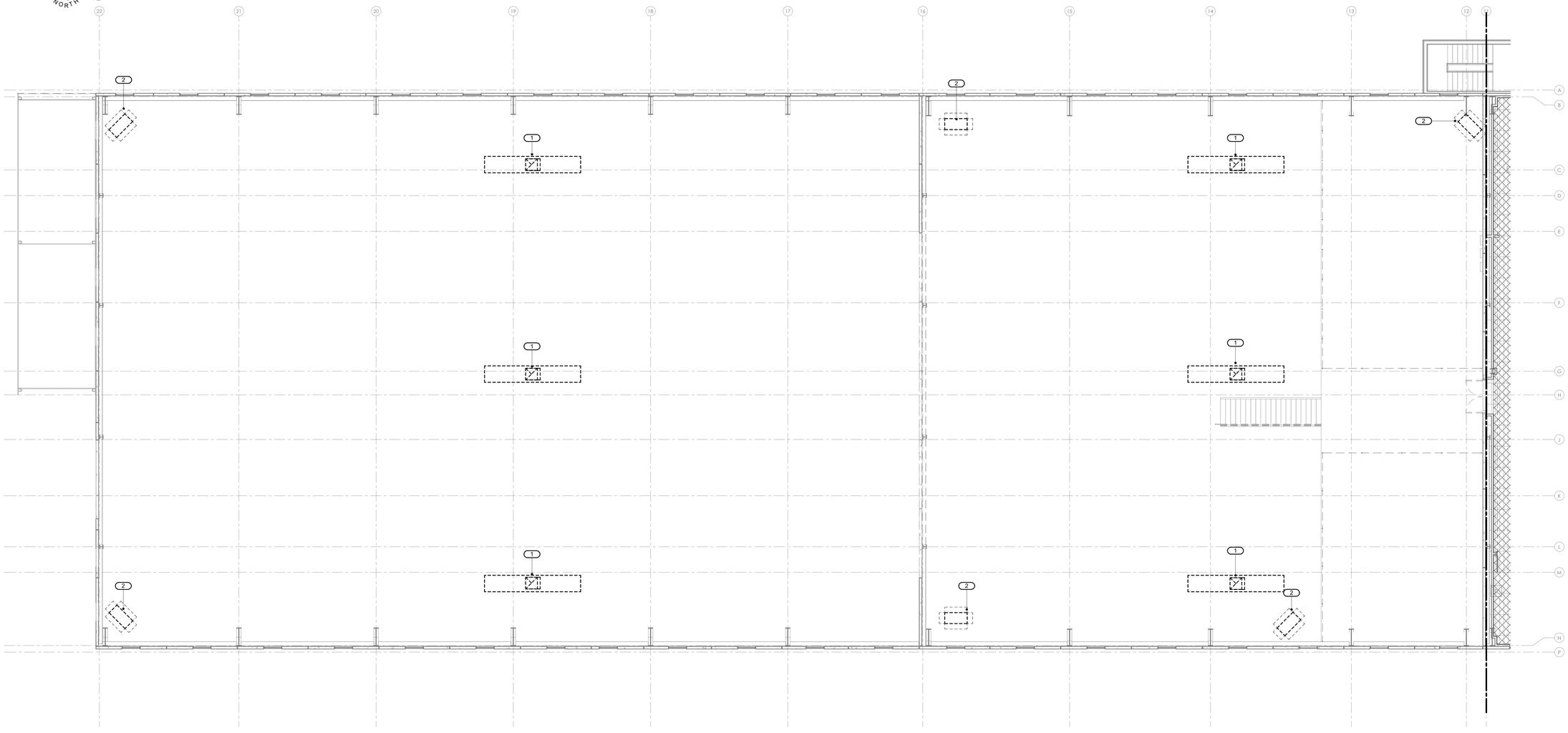
1 EXISTING WAREHOUSE EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE DEMOLISHED. EXHAUST FANS NOT BE REUSED. CONTRACTOR TO PATCH AND REPAIR EXISTING ROOF PENETRATION PER ARCHITECTS SPECIFICATIONS.

2 EXISTING UNIT HEATERS TO BE DEMOLISHED. ANY EXISTING GAS LINES FEEDING EQUIPMENT TO BE CAPPED ON THE EXTERIOR OF THE BUILDING UNLESS EXISTING LINE IS TO BE REUSED FOR ANY REMAING OR FUTURE EQUIPMENT. ANY AND ALL ROOF PENETRATIONS TO BE PATCHED AND REPAIRED PER ARCHITECTS SPECIFICATIONS.



2 LEVEL 02 HVAC DEMOLITION PLAN Copy 1

1/32" = 1'-0"



1 LEVEL 02 HVAC DEMOLITION PLAN

1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

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contents:
HVAC DEMOLITION PLAN - ZONE B - LVL 2 - PLAN

design. CD
date. 2026.09.11
project. 25.18

M1.12

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PROJECT #260034

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KEYNOTES

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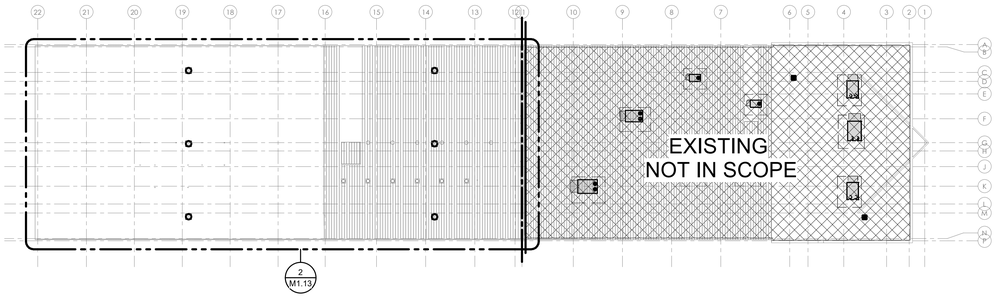
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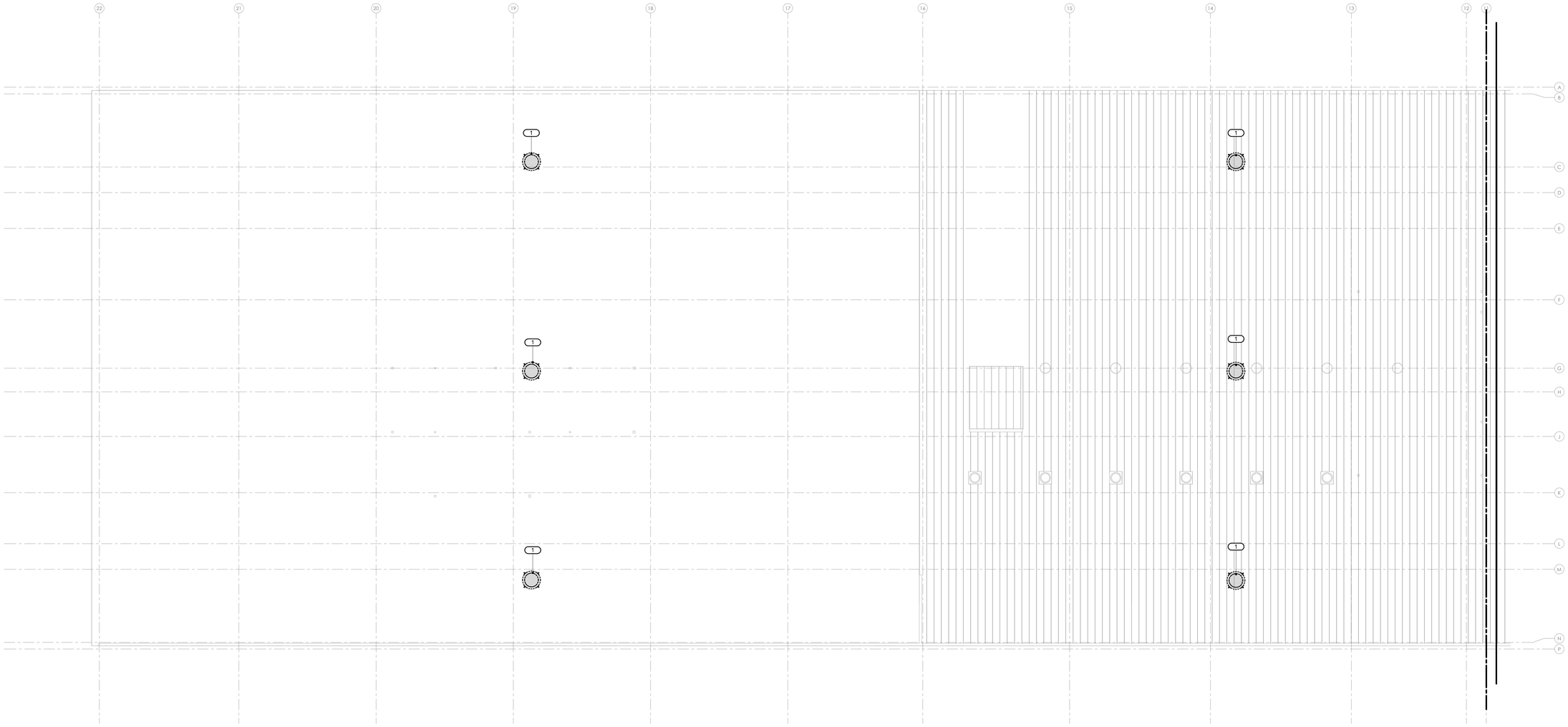
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1 ROOF HVAC DEMOLITION PLAN OVERALL

1/32" = 1'-0"



2 ROOF HVAC DEMOLITION PLAN

1/8" = 1'-0"

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contents:
HVAC DEMOLITION PLAN - ZONE B - ROOF

design: CD
date: 2026.09.11
project: 25.18

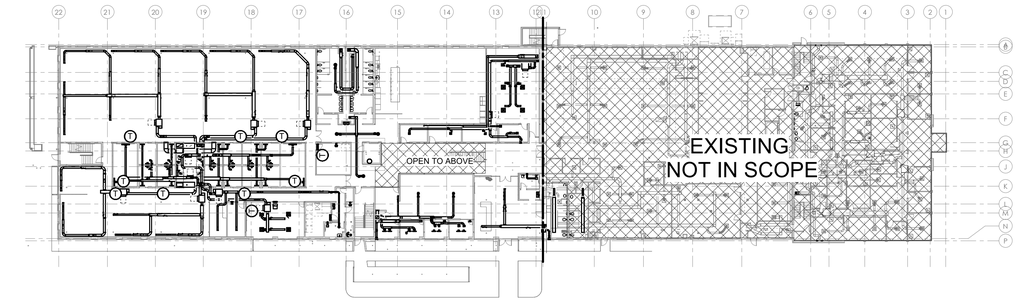
M1.13

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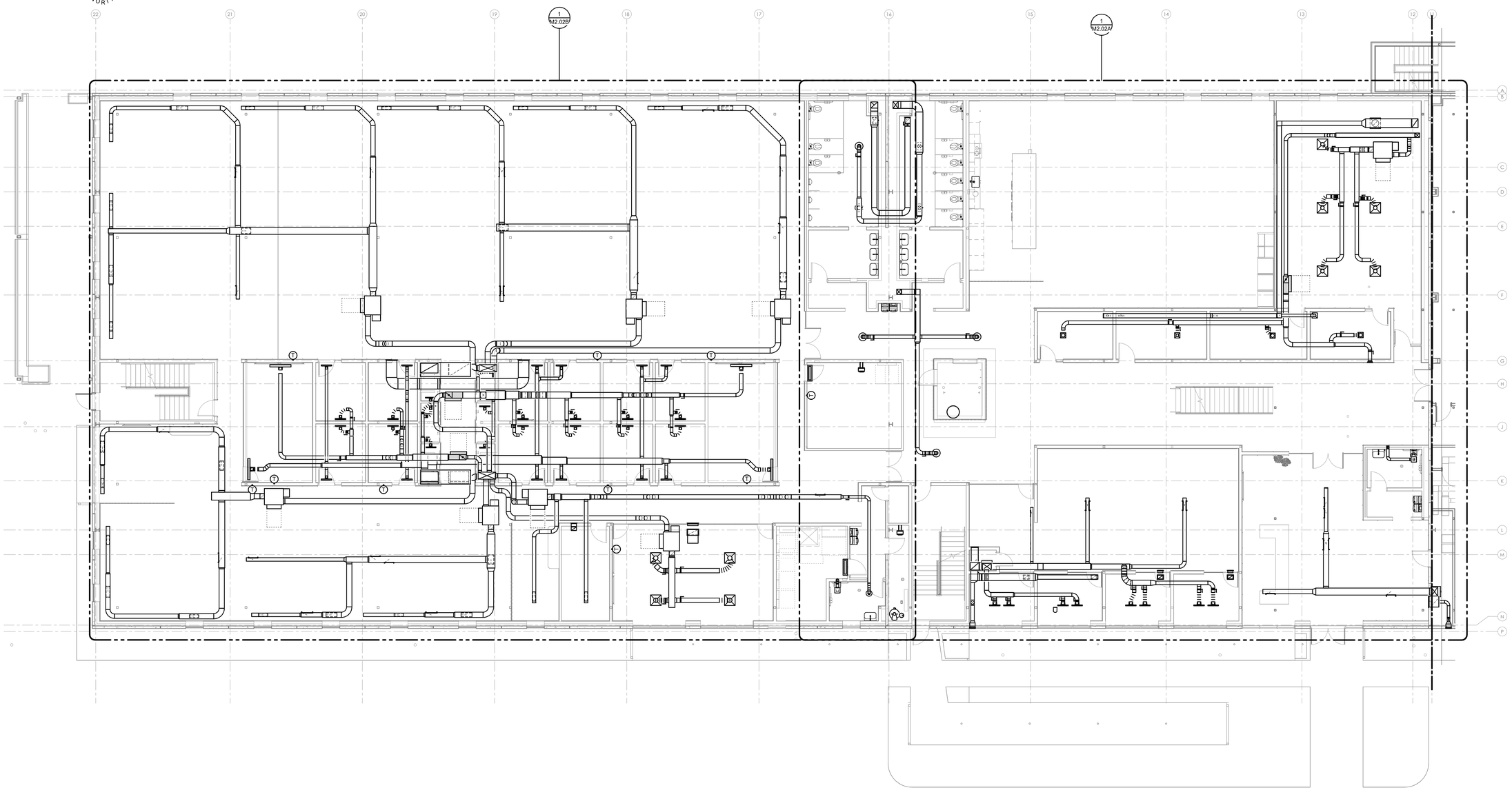
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PROJECT #260034



1 LEVEL 01 HVAC PLAN

1/32" = 1'-0"



2 LEVEL 01 HVAC PLAN - Enlarged

1/8" = 1'-0"

KEYNOTES

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

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contents:
HVAC PLAN - ZONE B - LVL 01 OVERALL

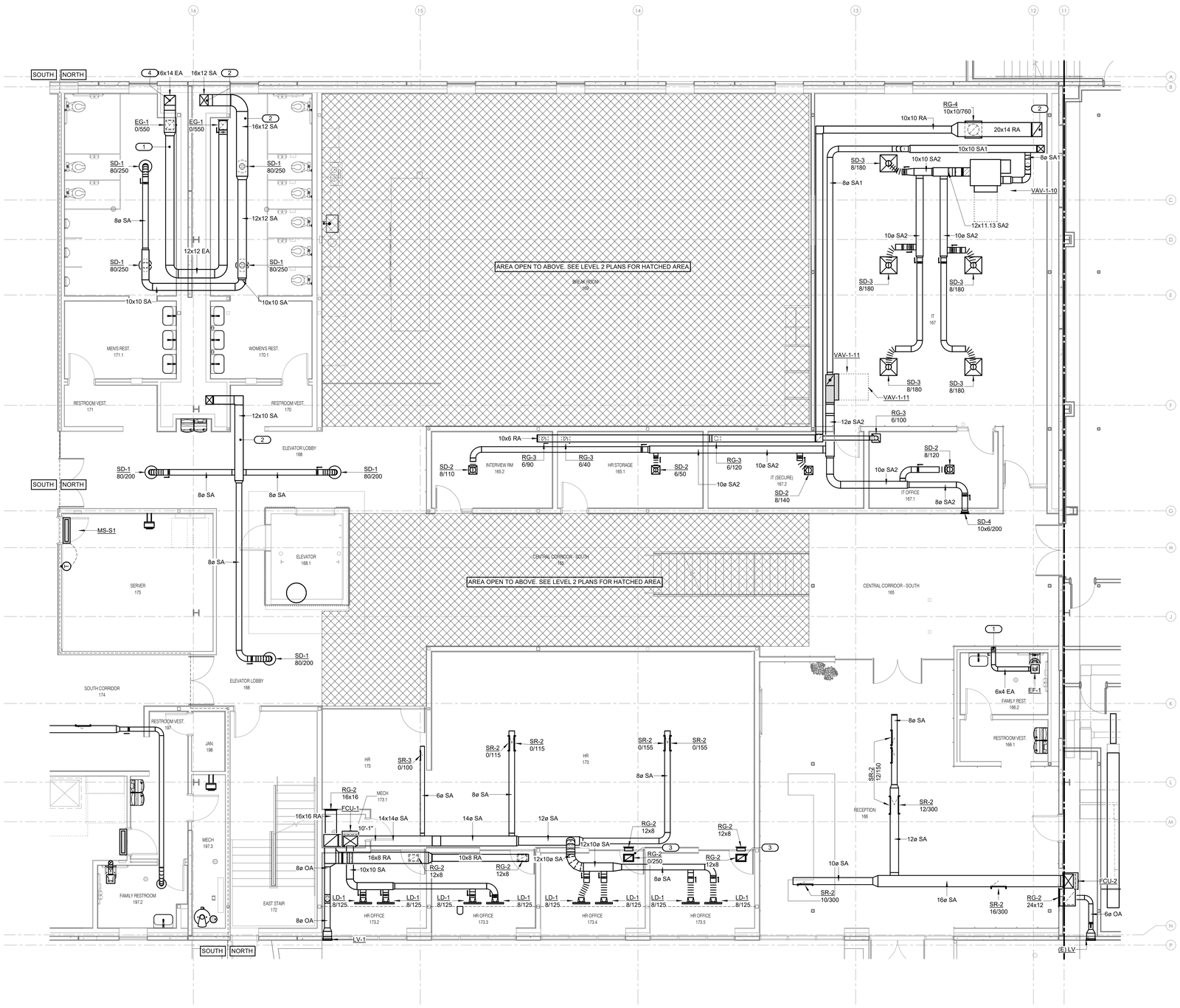
design. CD
date. 2026.09.11
project. 25.18

M2.01

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PROJECT #260034



KEYNOTES

1 EXHAUST FAN DUCT TO BE ROUTED UP THROUGH LEVEL 2 TO ROOF. SEE SHEET M2.11A FOR CONTINUATION.

2 SUPPLY AND RETURN DUCTWORK ROUTED FROM FLOOR ABOVE. SEE SHEET M2.12A FOR CONTINUATION.

3 RETURN AIR TO UTILIZE TRANSFER DUCT AND BOOT. SEE DETAILS ON SHEETS M4.03 #2&3.

4

1 LEVEL 01 HVAC SOUTH EXPANSION NORTH

3/16" = 1'-0"

NORTH

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

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contents: HVAC PLAN - ZONE B - LVL 01 - NORTH

design: CD
date: 2026.09.11
project: 25.18

M2.02A

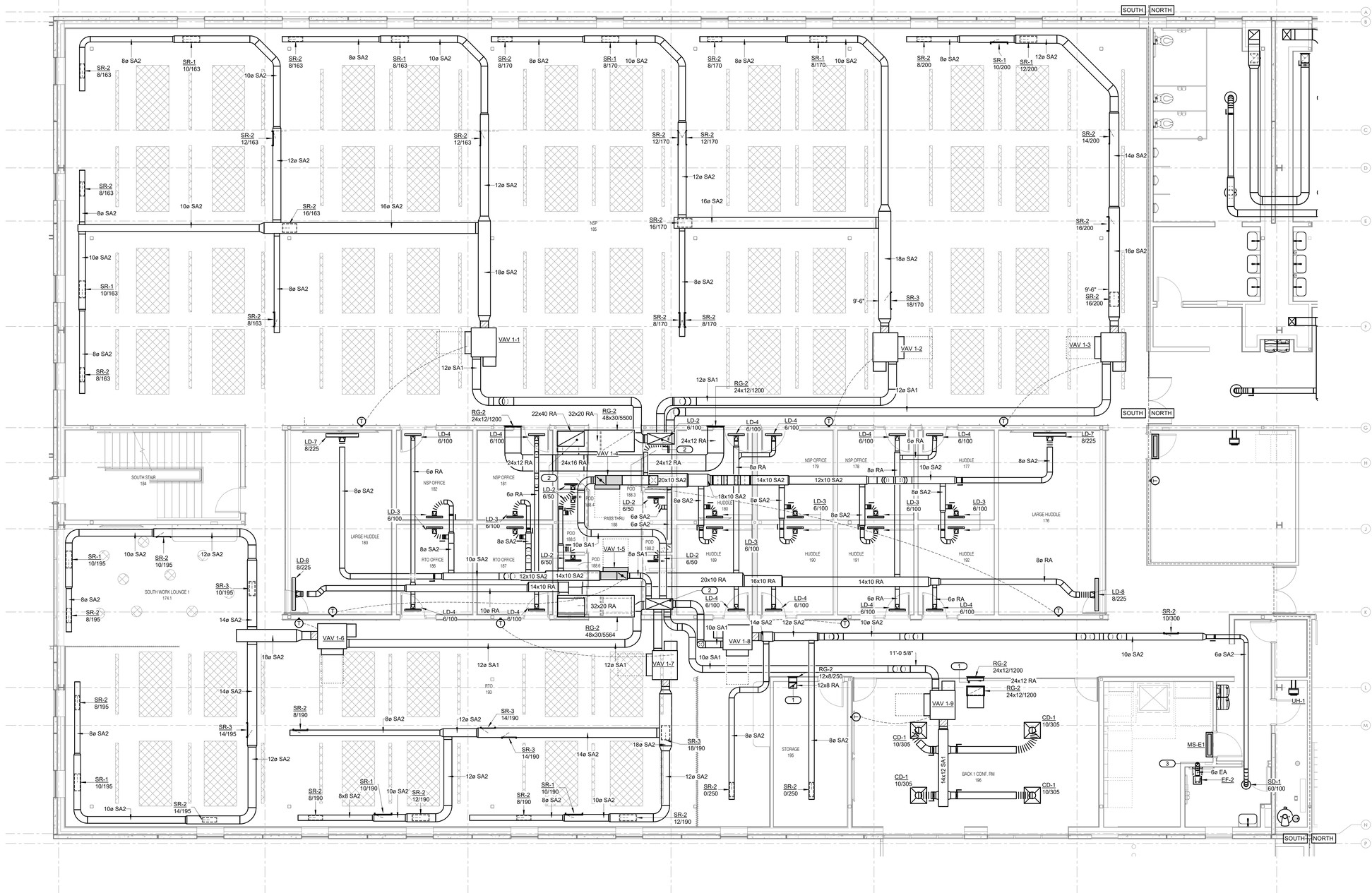
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PROJECT #260034

KEYNOTES

1. RETURN AIR TO UTILIZE TRANSFER DUCT AND BOOT. SEE DETAILS ON SHEETS M4.03 #2&3.
2. SUPPLY AND RETURN DUCTWORK ROUTED FROM FLOOR ABOVE. SEE SHEET M2.12B FOR CONTINUATION.
3. EXHAUST DUCT TO BE ROUTED UP THROUGH LEVEL 2 TO ROOF. SEE SHEET M2.11B FOR CONTINUATION.



1 LEVEL 01 HVAC SOUTH EXPANSION SOUTH

3/16" = 1'-0"

issue for review: 2026.08.05
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contents: HVAC PLAN - ZONE B - LVL 01 - SOUTH

design. CD
date. 2026.09.11
project. 25.18

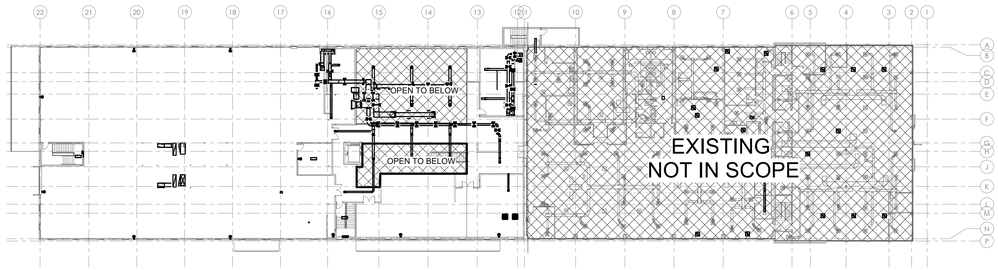
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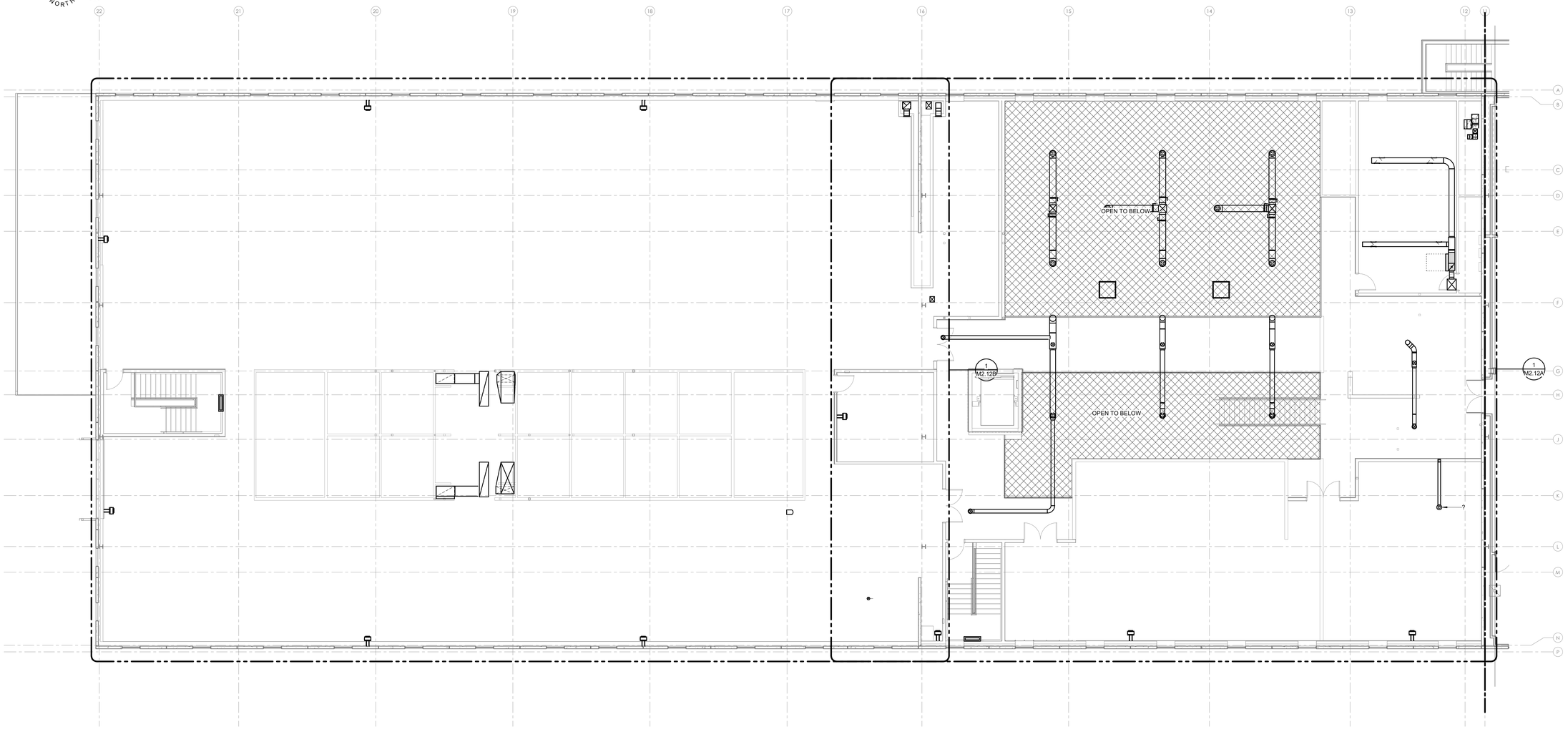
PROJECT #260034

M2.02B



1 LEVEL 02 HVAC PLAN

1/32" = 1'-0"



2 LEVEL 02 HVAC PLAN - ZONE B

1/8" = 1'-0"

KEYNOTES

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issue for pricing: 2026.09.11
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contents:
HVAC PLAN - ZONE B - LVL 02
OVERALL

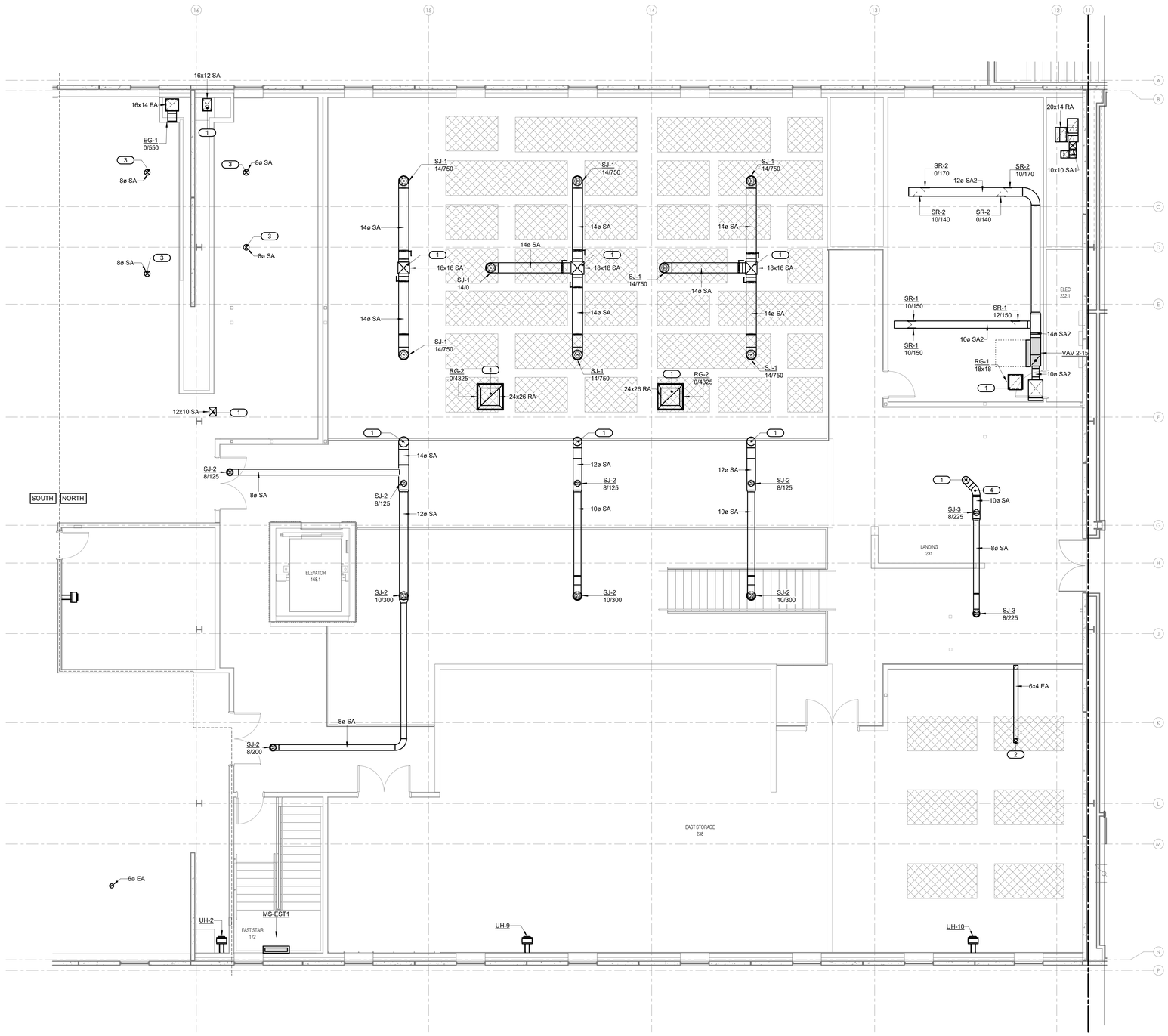
design. CD
date. 2026.09.11
project. 25.18

M2.11

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PROJECT #260034



KEYNOTES

1. SUPPLY AND RETURN DUCTWORK TO BE ROUTED UP TO ROOF. SEE SHEET M2.20 FOR CONTINUATION.
2. EXHAUST DUCT TO BE ROUTED UP TO ROOF. SEE SHEET ME 2.20 FOR CONTINUATION.
3. ROUTE DUCT THROUGH ROOF AND CAP WITH AIRTIGHT SEAL TO BE USED FOR FUTURE CONNECTION.
4. SUPPLY DUCTWORK TO BEND TO AVOID LIGHTING IN AREA. MECHANICAL CONTRACTOR TO COORDINATE RCP WITH ELECTRICAL CONTRATOR PRIOR TO INSTALLATION TO CONFIRM EXACT DUCT LOCATION.

1 LEVEL 02 HVAC SOUTH EXPANSION NORTH PHASE 1

3/16" = 1'-0"

NORTH

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contents:
HVAC PLAN - ZONE B - LVL 02 NORTH - PHASE 1

design. CD
date. 2026.09.11
project. 25.18

M2.12A

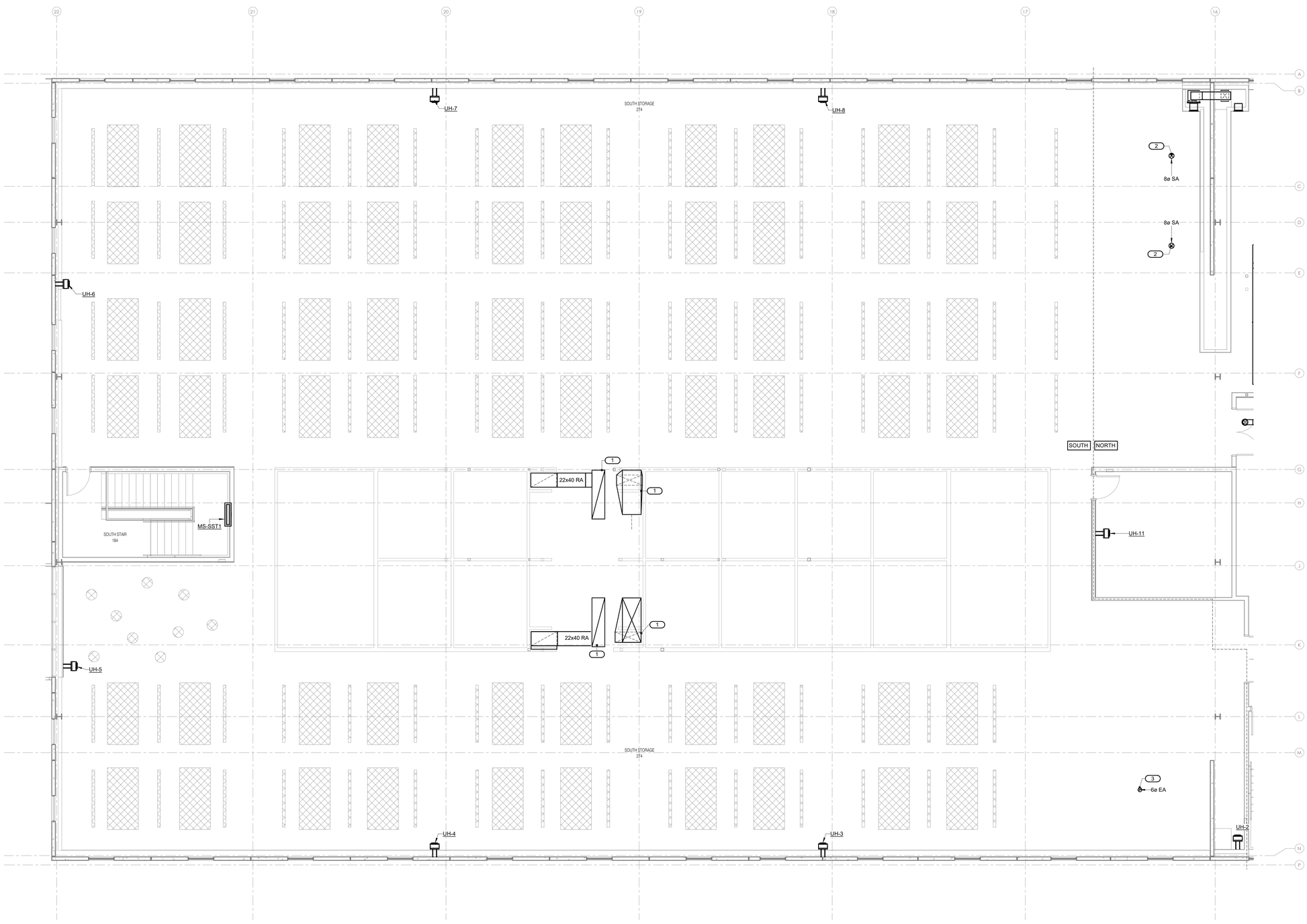
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PROJECT #260034

KEYNOTES

1. SUPPLY AND RETURN DUCTWORK TO BE ROUTED UP TO ROOF. SEE SHEET M2.20 FOR CONTINUATION.
2. ROUTE DUCT THROUGH ROOF AND CAP WITH AIRTIGHT SEAL TO BE USED FOR FUTURE CONNECTION.
3. EXHAUST DUCT FROM BELOW ROUTED UP FLOOR TO ROOF. PROTECT DUCT WITH GUARDRAILS OR WALLS.



1 LEVEL 02 HVAC SOUTH EXPANSION SOUTH PHASE 1

3/16" = 1'-0"

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issue for construction:

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contents.
HVAC PLAN - ZONE B - LVL 02 SOUTH - PHASE 1

design. CD
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project. 25.18

M2.12B

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PROJECT #260034

GENERAL NOTES

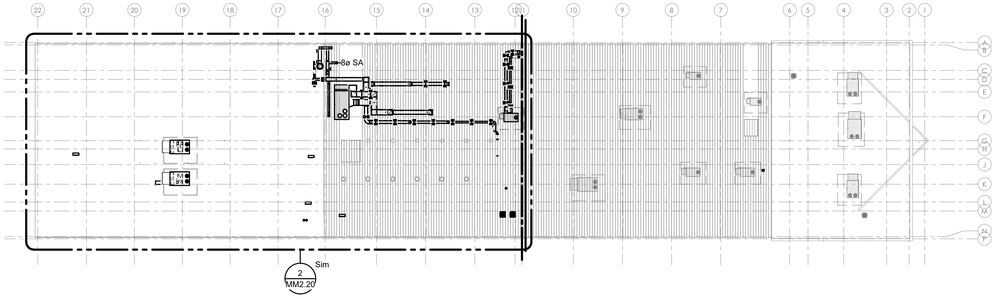
1. ROOFTOP DUCTWORK TO UTILIZE PRE-MANUFACTURED DUCTWORK SUPPORTS AS SHOWN ON SHEET. CONTRACTOR TO PROVIDE MIRO 6-DS, 8-DS, 10-DS OR EQUIVALENT AS NEEDED. CONTRACTOR TO COORDINATE EXACT ROOF SUPPORT LAYOUT PRIOR BID. LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE AND SHOULD NOT BE USED FOR CONSTRUCTION.

KEYNOTES

1 ROOF TOP DUCTWORK TO PENETRATE ROOF AT POINT SHOWN.

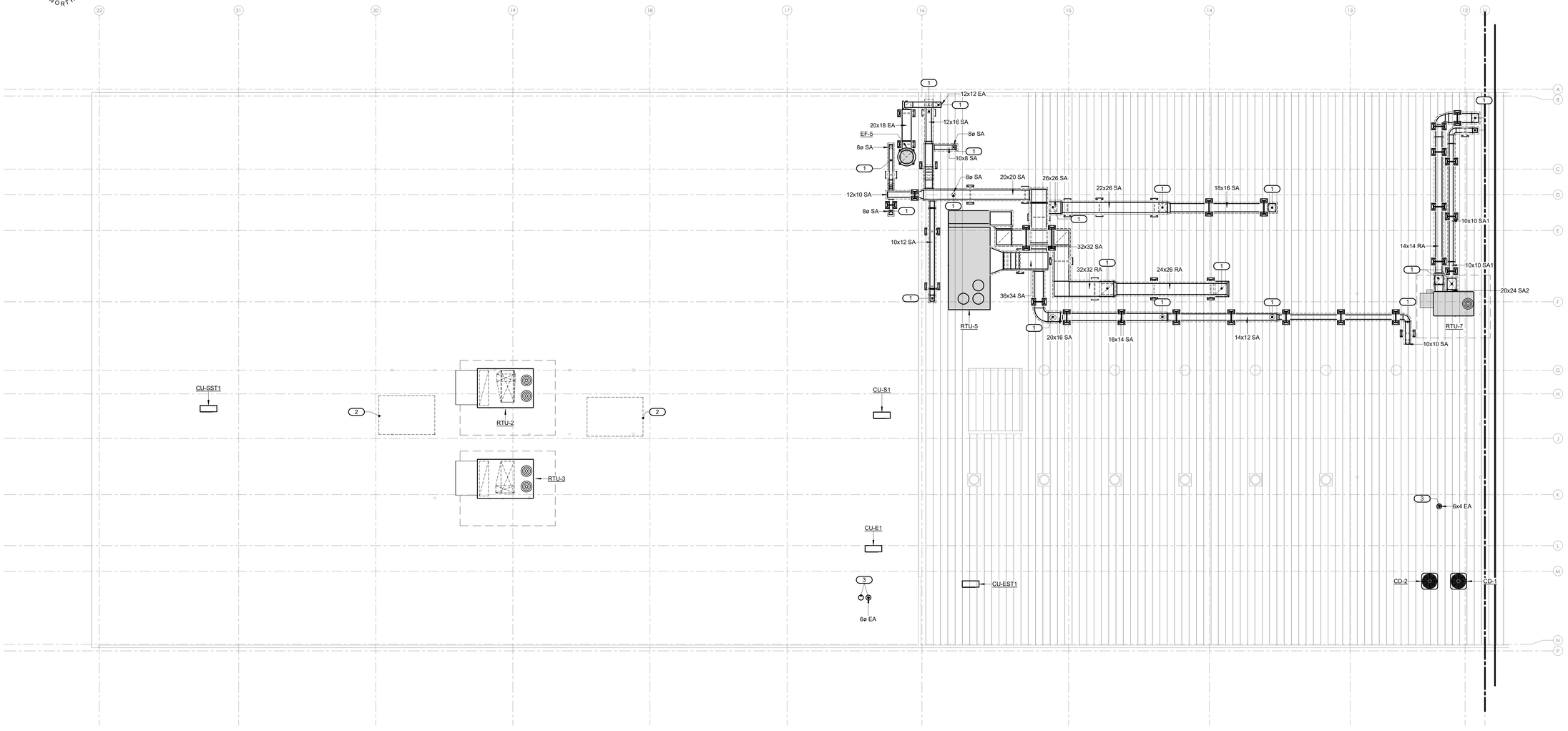
2 PROVIDE AND INSTALL ROOF CURB PENETRATIONS FOR FUTURE ROOFTOP UNIT. PROPOSED FUTURE ROOFTOP UNIT TO BE TRANE YC300.

3 EXHAUST DUCT FROM BELOW TO TERMINATE WITH MANUFACTURER'S ROOF CAP.



1 ROOF HVAC PLAN

1/32" = 1'-0"



2 ROOF HVAC PLAN - PHASE 1

1/8" = 1'-0"

issue for review: 2026.08.05
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contents:
HVAC PLAN - ZONE B - ROOF PLAN - PHASE 1

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date: 2026.09.11
project: 25.18

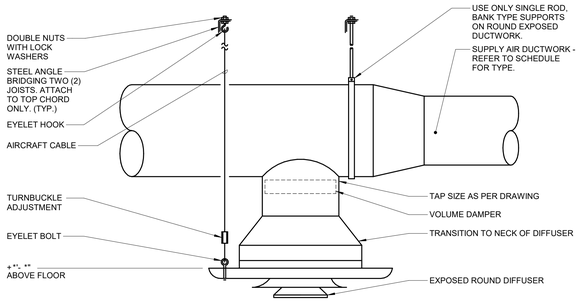
M2.20

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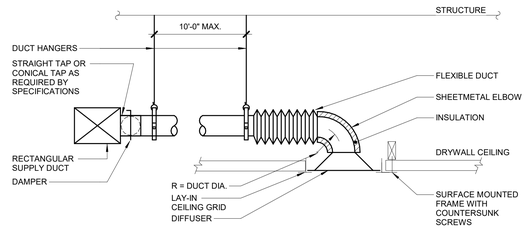
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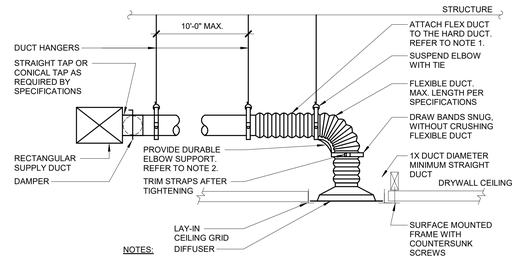
1 AIR TERMINAL - ROUND RIGID CONNECTION
NO SCALE



NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.

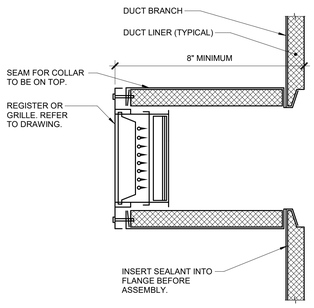
2 AIR TERMINAL - DIFFUSER FLEX LOW PROFILE ELBOW
NO SCALE



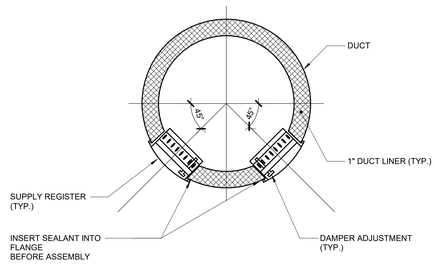
NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

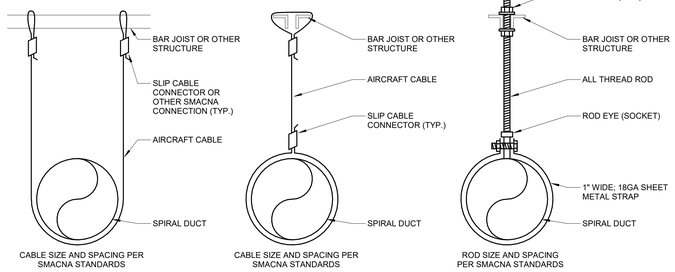
3 AIR TERMINAL - DIFFUSER CONNECTION (W/ RADIUS FORMING ELBOW)
NO SCALE



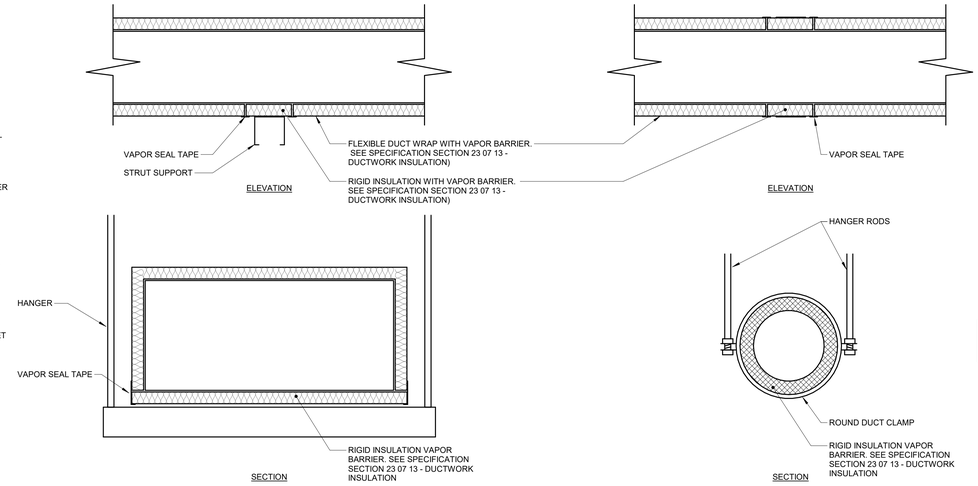
4 DUCT - EXPOSED REGISTER
NO SCALE



5 AIR TERMINAL - SUPPLY REGISTER ROUND INSET
NO SCALE



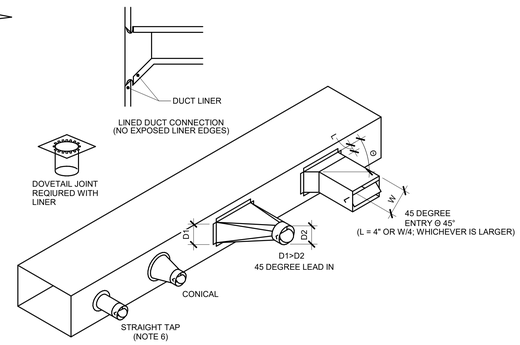
6 DUCT - HANGERS EXPOSED SPACES
NO SCALE



NOTES:

1. DETAIL FOR USE WHERE DUCTS REQUIRE TRAPEZE OR DOUBLE ROD HANGERS (36" DIA. OR EQUIVALENT)

7 DUCT - HANGERS WRAPPED
NO SCALE



NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SEAL SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4" W.G. AND OVER.
4. REFER TO SPECIFICATIONS FOR VOLUME DAMPER REQUIREMENTS.
5. OPENINGS SHALL BE CUT ACCURATELY (SHAPE AND SIZE).
6. STRAIGHT TAPS ONLY ALLOWED DOWNSTREAM OF TERMINAL AIR BOX OR LOW PRESSURE (<2"W.C. PRESSURE CLASS)

8 DUCT - BRANCH CONNECTIONS
NO SCALE

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contents: HVAC DETAILS

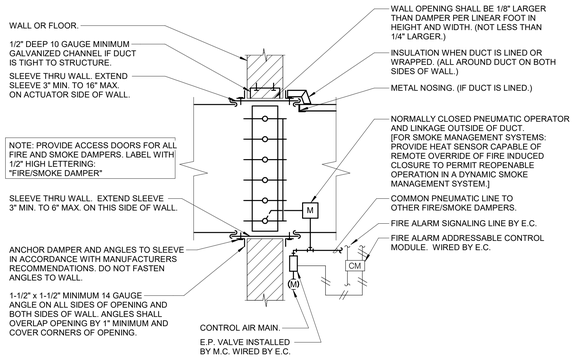
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date: 2026.09.11
project: 25.18

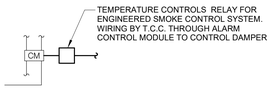
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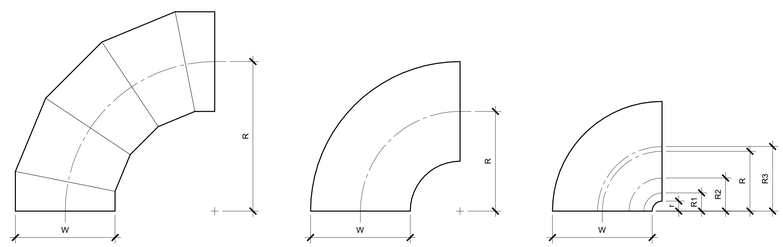




NOTES:

1. CONNECTION OF DAMPER TO SLEEVE SHALL BE AS SHOWN IN FIGURE 1 OF SMACNA "FIRE DAMPER AND HEAT STOP GUIDE FOR AIR HANDLING SYSTEMS", SECOND EDITION.
2. DAMPER CLOSES BY SPRING ACTION IN EVENT OF HIGH TEMPERATURE OR LOSS OF PRESSURE TO PNEUMATIC OPERATOR.
3. FLOOR MOUNTED DAMPER SIMILAR WITH ACTUATOR ON SIDE WITH ACCESS DOOR.
4. SEE FIRE/SMOKE DAMPER WIRING SCHEMATICS ON ELECTRICAL DRAWINGS FOR WIRING SCHEMATIC. COORDINATE ALL FSD/CM LOCATIONS SHOWN ON ELECTRICAL PLANS.

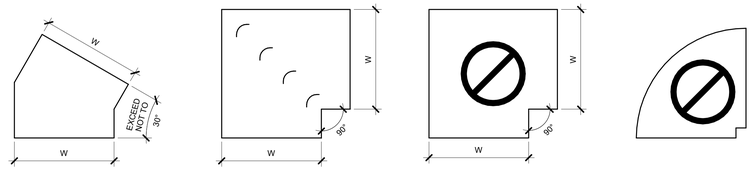
1 FIRE/SMOKE DAMPER - PNEUMATIC ACTUATION
NO SCALE



OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

RECTANGULAR RADIUS ELBOW TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3

RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3
REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.



RECTANGULAR MITERED ELBOW TYPE RE6
USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2

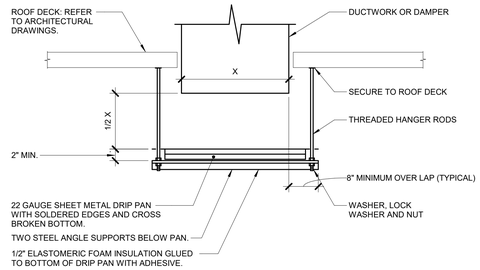
RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4
NOT ALLOWED

RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT
NOT ALLOWED

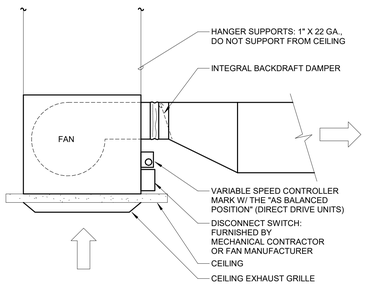
NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

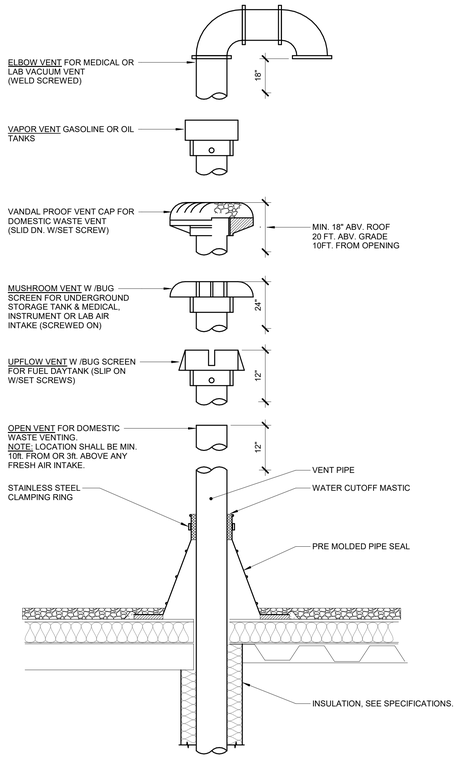
2 DUCT - ELBOW CONSTRUCTION
NO SCALE

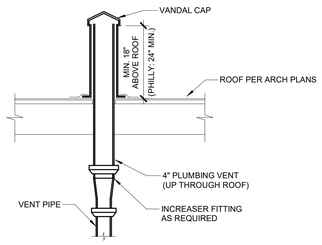


3 DRIP PAN
NO SCALE



4 FAN - CEILING MOUNTED
NO SCALE





NOTES:

1. VENT PIPE SHALL BE A MINIMUM OF 4" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEAST 12 INCHES BELOW THE THERMAL ENVELOPE OF THE BUILDING.
2. EXTEND VENT PIPE AT LEAST 7 FEET ABOVE ROOF LEVEL WHEN ROOF AREA IS INTENDED TO BE USED BY THE GENERAL PUBLIC. THIS INCLUDES PROMENADES, OBSERVATION DECKS, ETC. THIS IS NOT REQUIRED FOR ROOFS THAT ARE ACCESSIBLE BY MAINTENANCE PERSONEL ONLY.

5 VENT PIPE FLASHING
12" = 1'-0"

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contents,
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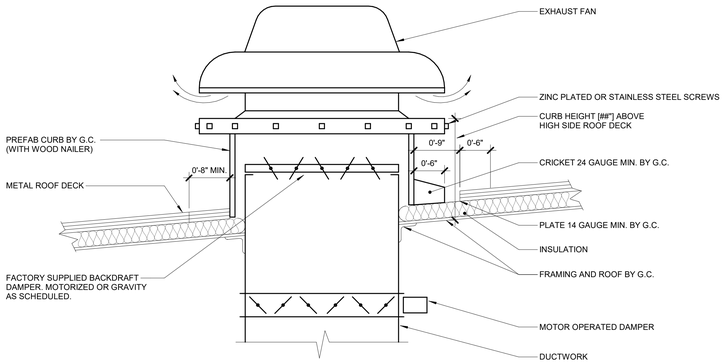
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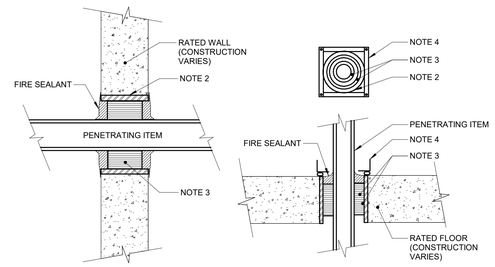
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1 ROOF FAN/HOOD CURB - METAL ROOF

12" = 1'-0"

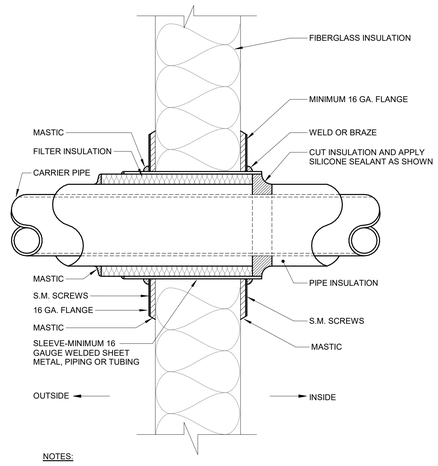


NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (07 84 00) (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING , SECTION 23 05 03 - HVAC) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME. BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

2 FLOOR/WALL PENETRATION - RATED FIRE BARRIER

NO SCALE

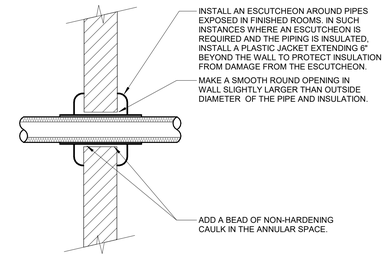


NOTES:

1. CHILLED WATER LINES OR REFRIGERATION SUCTION LINE-ADD LAYER OF CELLULAR FOAM TO COMPLETELY FILL SLEEVE. APPLY MASTIC AND SILICONE SEALANT AS SHOWN.
2. STEAM AND CONDENSATE RETURN LINES-INSULATION TO PASS THROUGH SLEEVE ADD ADDITIONAL INSULATION TO FILL ANNULAR SPACE IN SLEEVE. COAT RAW ENDS WITH CHILLERS INSULATION MASTIC. APPLY SILICONE SEALANT AS SHOWN.
3. REFRIGERANT LIQUID LINES-FILL ANNULAR SPARE CONDUIT COMPLETELY WITH ARMAFLEX TO 2" BEYOND EACH END OF SLEEVE. MASTIC BETWEEN SLEEVE AND INSULATION. APPLY SILICONE SEALANT AS SHOWN.
4. SUPPORT PIPE PER SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) WITH HIGH DENSITY INSULATION INSERT SO PIPING REMAINS AT CENTER OF SLEEVE WITH NO AIR GAPS.

3 WALL PENETRATION - PRESSURIZED AHU HOUSING

NO SCALE

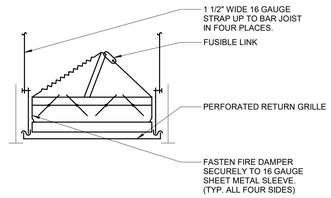


NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

4 WALL PENETRATION - NON-FIRE RATED

NO SCALE



5 RETURN GRILLE FIRE DAMPER

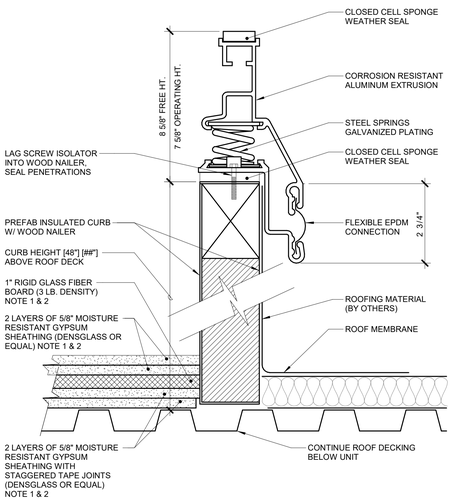
NO SCALE

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE INSULATION.
4. CONTRACTOR OPTION: THE CONTRACTOR MAY SUBSTITUTE A MANUFACTURED WATER/FIRE-RESISTANT FLEXIBLE ACOUSTICAL BARRIER. THIS BARRIER SHALL CONTAIN AT LEAST ONE MASS LAYER (MASS-LOADED VINYL OR GYPSUM) AND FLEXIBLE FIBERGLASS MAT. THE BARRIER MUST HAVE A MINIMUM DOCUMENTED SOUND TRANSMISSION CLASS (STC) RATING OF 37, EQUIVALENT TO VIB-ISO SOUND CLOAK SC.
5. PHOTOGRAPHIC EVIDENCE: PROVIDE PHOTOGRAPHIC EVIDENCE TO THE ENGINEER OF THE SOUND BARRIER INSTALLATION (GYPSUM SHEATHING AND FIBERGLASS MAT OR MANUFACTURED PRODUCT) INSIDE THE CURB BEFORE INSTALLING THE ROOFTOP UNIT.

6 ROOF TOP UNIT CURB

NO SCALE



NOTES:

1. CONTRACTOR OPTION: THE CONTRACTOR MAY SUBSTITUTE A MANUFACTURED WATER/FIRE-RESISTANT FLEXIBLE ACOUSTICAL BARRIER. THIS BARRIER SHALL CONTAIN AT LEAST ONE MASS LAYER (MASS-LOADED VINYL OR GYPSUM) AND FLEXIBLE FIBERGLASS MAT. THE BARRIER MUST HAVE A MINIMUM DOCUMENTED SOUND TRANSMISSION CLASS (STC) RATING OF 37, EQUIVALENT TO VIB-ISO SOUND CLOAK SC.
2. PHOTOGRAPHIC EVIDENCE: PROVIDE PHOTOGRAPHIC EVIDENCE TO THE ENGINEER OF THE SOUND BARRIER INSTALLATION (GYPSUM SHEATHING AND FIBERGLASS MAT OR MANUFACTURED PRODUCT) INSIDE THE CURB BEFORE INSTALLING THE ROOFTOP UNIT.

7 ROOF SUPPORT - ROOF TOP UNIT ISOLATOR CURB

NO SCALE

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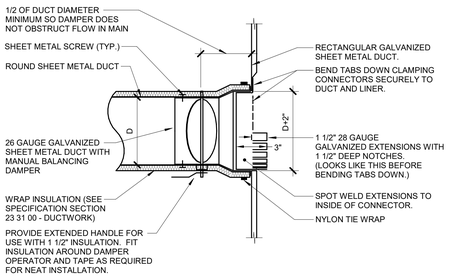
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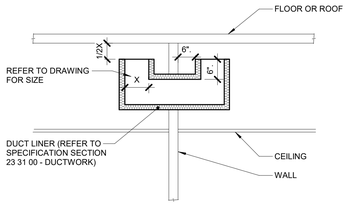


NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF LINED DUCTS.
2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES, DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER.

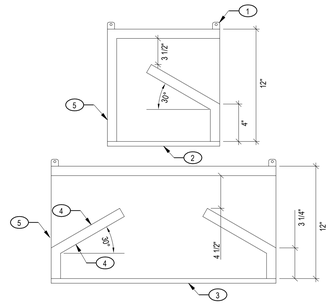
1 DUCT - FLEX CONICAL TO LINED DUCT W/BALANCING DAMPER

NO SCALE



2 TRANSFER DUCT - ELBOW ENDS

NO SCALE



KEYNOTES:

1. SUPPORT HANGER
2. 12" x 24" RETURN GRILLE
3. 24" x 24" RETURN GRILLE
4. 1" DUCT LINER TRIM AND SEAL ALL JOINTS
5. 26 GAUGE SHEET METAL

NOTES:

A. TYPICAL OF ALL RETURN GRILLES INSTALLED IN RETURN AIR PLENUM

3 TYPICAL RETURN AIR GRILLE SOUND BOOT

3/4" = 1'-0"

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.

4 ROOF PENETRATION - STEEL DUCT RECTANGULAR

1'2" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:

mark	date	description

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contents.
HVAC DETAILS

design. CD
date. 2026.09.11
project. 25.18

M4.03

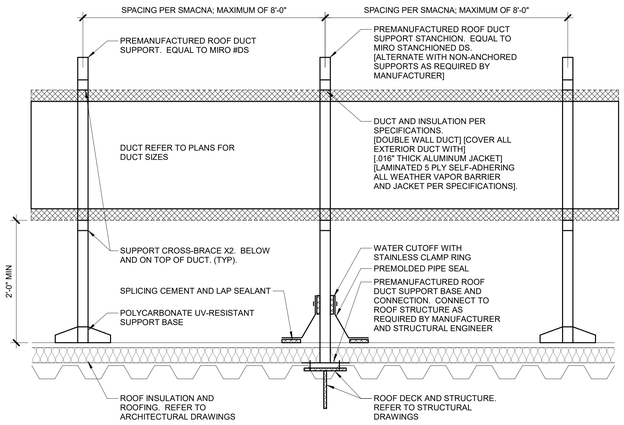
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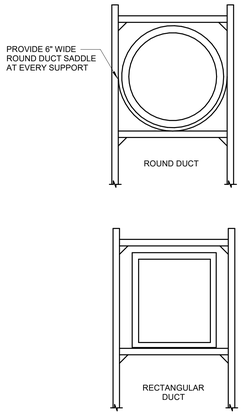
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PROJECT #260034

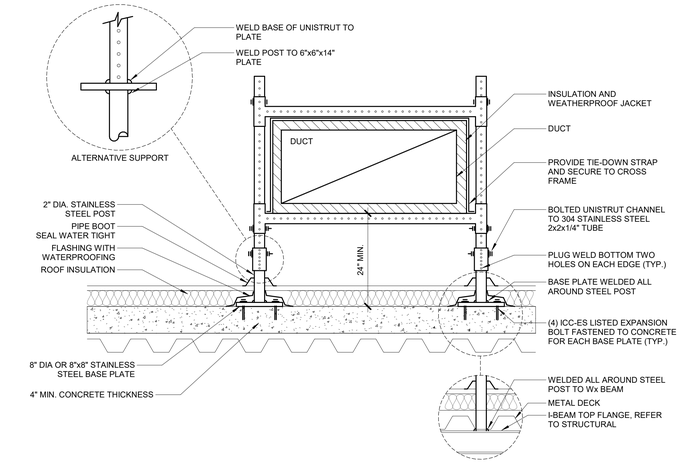
GENERAL INFORMATION:	
1. ADOPTED BUILDING CODE:	IBC-2021
2. BUILDING OCCUPANCY/RISK CATEGORY:	II
WIND DESIGN CRITERIA:	
1. MEAN ROOF HEIGHT	24' FEET
2. BASIC WIND SPEED:	100MPH - 3 SEC GUST
3. EXPOSURE CATEGORY:	C
[SEISMIC DESIGN CRITERIA (WHERE REQUIRED)	
1. SOIL SITE CLASS:	D (ASSUMED)
2. RESPONSE ACCELERATION (0.2S), SDS:	0.168 g
3. SEISMIC DESIGN CATEGORY:	C
4. SEISMIC COMPONENT IMPORTANCE FACTOR IP:	1.0





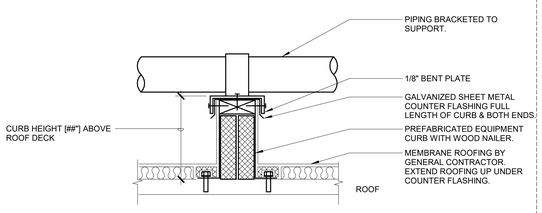
1 ROOF SUPPORT - EXPOSED DUCT (PREMANUFACTURED)

NO SCALE



NOTES:
1. PROVIDE [DUCT] [PIPE] SYSTEM SUPPORT AT MAXIMUM SPACING OF 12 FEET.
2. REFER TO CONCRETE FASTENER INSTALLATION INSTRUCTIONS FOR RECOMMENDED DIAMETER AND EMBED LENGTH FOR WEIGHT OF SYSTEM SUPPORTED. TYPICAL DUCT LESS THAN 24" TALL OR PIPE SYSTEMS LESS THAN 12" DIAMETER, ANCHORED TO A 4" THICK CONCRETE SLAB, WOULD USE FASTENER SIZE: 1/2" DIA. HILTI KB TZ2 WITH 2" EMBED LENGTH (ESR-4266).
3. FOR CONCRETE SLABS THINNER THAN 4", PROVIDE ONE OF THESE OPTIONS:
   A. EXTEND THREADED ROD ALL THE WAY THROUGH THE DECK AND FASTEN WITH WASHER AND NUT FROM BOTTOM SIDE.
   B. WELD TO STRUCTURAL BEAM, REFER TO STRUCTURAL DRAWINGS. WHERE SUPPORT DOES NOT ALIGN WITH A BEAM, ADD NEW W8X13 UNDER SUPPORT.

ROOF SUPPORT - EXPOSED DUCT

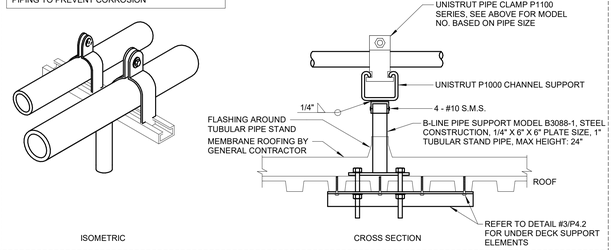


2 ROOF SUPPORT - EXPOSED PIPING RAIL

1/2" = 1'-0"

P1100 SERIES PIPE CLAMP			
MODEL	PIPE SIZE	MODEL	PIPE SIZE
P1112SS	3/4"	P1117SS	2"
P1113SS	1"	P1118SS	2-1/2"
P1114SS	1-1/4"	P1119SS	3"
P1115SS	1-1/2"	P1121SS	4"

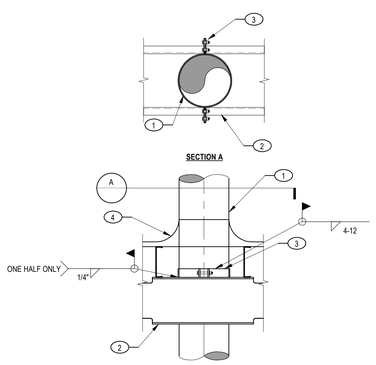
PROVIDE NON-METALIC INSERTS FOR COPPER PIPING TO PREVENT CORROSION



2016 CPC
TABLE 313.3
HANGERS AND SUPPORTS

MATERIALS	TYPES OF JOINTS	HORIZONTAL
CAST-IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1 1/2 inches and smaller. 6 feet; 2 inches and larger, 10 feet
Steel Pipe for Gas	Threaded or Welded	1/2 inch. 6 feet: 3/4 inch and 1 inch 8 feet; 1 1/4 inches and larger, 10 feet

REFER TO CODE SECTION FOR FULL TABLE AND NOTES



3 DUCT SUPPORT AT ROOF PENETRATION

3/4" = 1'-0"

KEYNOTES:
1. DUCTING PER PLAN AND ELEVATIONS
2. ROOF FRAMING PER 400 SERIES
3. 1/4"X 3" FLAT BAR DUCT CLAMP
4. WATERPROOFING PER CONTRACTOR

issue for review: 2026.08.05
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contents: HVAC DETAILS

design: CD
date: 2026.09.11
project: 25.18

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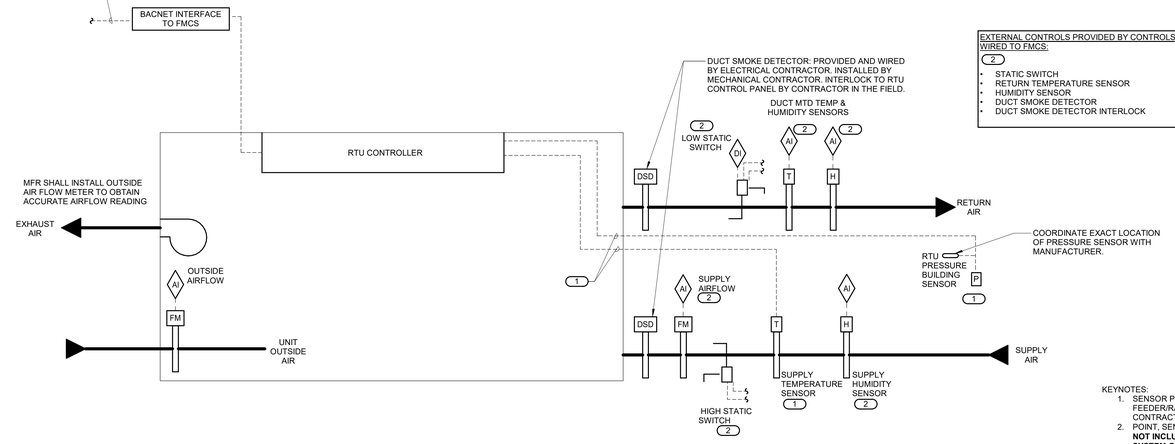
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PROJECT #260034

M4.04

AHU REPORT GENERATION: DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR 365 DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES.	
PROVIDED BY PACKAGED MANUFACTURER THROUGH GATEWAY TO FMCS: • SUPPLY AIR TEMP (SAT) [°F] • OUTSIDE AIRFLOW [CFM] • FILTER SWITCH • SUPPLY FAN VFD OUTPUT [% FULL SPEED] • RETURN FAN VFD OUTPUT [% FULL SPEED] • OUTSIDE AIR DAMPER POSITION [% OPEN] • RETURN AIR DAMPER POSITION [% OPEN]	POINTS PROVIDED BY FMCS AND SYSTEM: • DATE • TIME • GLOBAL OUTSIDE AIR TEMP [°F] • GLOBAL OUTSIDE AIR DEWPOINT [°F] GLOBAL OUTSIDE AIR HUMIDITY [%RH] • SUPPLY AIR RELATIVE HUMIDITY [%] • ROOM AIR TEMP SETPOINT [°F] • RETURN AIR TEMP (RAT) [°F] • RETURN AIR RELATIVE HUMIDITY [%] • SUPPLY AIRFLOW [CFM]
THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.	

TO/FROM FMCS THROUGH RTU BACNET GATEWAY:
2
- DUCT DIFFERENTIAL STATIC PRESSURE SET POINT ["W.C.] (ANALOG)
- DUCT STATIC PRESSURE ["W.C.]
- DISCHARGE TEMP SETPOINT ADJUST [°F] (ANALOG)
- SUPPLY AIR TEMPERATURE [°F] (ANALOG)
- BUILDING STATIC PRESSURE SETPOINT ["W.C.] (ANALOG)
- RTU ENABLE/DISABLE
- OA SETPOINT (CFM) (ANALOG)
- OA AIRFLOW (CFM) (ANALOG)
- GENERAL ALARM
- DIRTY FILTER



EXTERNAL CONTROLS PROVIDED BY CONTROLS CONTRACTOR AND WIRED TO FMCS:
2
- STATIC SWITCH
- RETURN TEMPERATURE SENSOR
- HUMIDITY SENSOR
- DUCT SMOKE DETECTOR
- DUCT SMOKE DETECTOR INTERLOCK

KEYNOTES:
1. SENSOR PROVIDED BY RTU MANUFACTURER. SENSOR FEEDER/RACEWAY AND CONNECTION SHALL BE INSTALLED BY CONTRACTOR IN THE FIELD.
2. POINT, SENSOR AND FEEDER/RACEWAY PROVIDED BY TCC. **[N.T.S. DO NOT INCLUDE IF YOU DO NOT INTEND TO HAVE A BUILDING AUTOMATION SYSTEM OR ONLY HAVE A SIMPLE MANUFACTURER PROVIDED CONTROL SYSTEM. ALSO DELETE SENSORS FROM DIAGRAM]**

CONTROLS SEQUENCE PROVIDED BY CONTRACTOR IN FIELD:

SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU BACNET INTERFACE PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS. SUPPLY FAN SHALL BE ENABLED TO RUN.
- WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
ENABLE RTU TO RUN BASED ON THE FOLLOWING OCCUPANCY SCHEDULE WITH ALLOWANCE FOR ENERGY CODE OPTIMAL START.

• OCCUPIED MODE:	MONDAY THROUGH FRIDAY	6:00AM-9:00PM (ADJ.)
	SATURDAY THROUGH SUNDAY	8:00AM-6:00PM (ADJ.)
• UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	9:00PM-5:00AM (ADJ.)
	SATURDAY THROUGH SUNDAY	6:00PM-7:00AM (ADJ.)

CONTRACTOR SHALL FIELD INSTALL THE FOLLOWING MANUFACTURER PROVIDED EXTERNAL SENSORS AND WIRE BACK TO RTU CONTROLLER:
- BUILDING PRESSURE SENSOR.
- SUPPLY AIR TEMPERATURE IN SUPPLY DUCT.

ALARMS, INTERLOCKS AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD.
- HIGH STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- LOW STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- FIRE ALARM RELAY (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)

CONTROLS PROVIDED BY PACKAGED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL START. SUPPLY FAN. SUPPLY FAN SHALL RUN CONTINUOUSLY WHEN OCCUPIED.

EXHAUST FAN CONTROL:
RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL. MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C.

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR CFM BASED ON QUANTITY OF AIR FROM UNIT MOUNTED AIRFLOW MEASURING STATION.

SUPPLY AIR CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE MODULATED AS REQUIRED TO MAINTAIN SPACE SETPOINT. WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- MODULATE GAS BURNER OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED OR MINIMUM OUTSIDE AIRFLOW SETTING IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, THE COMPRESSORS SHALL BE ENABLED AND UNIT SHALL MODULATE COMPRESSOR CAPACITY AS REQUIRED TO MAINTAIN SET POINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) BELOW SETPOINT. UNIT SHALL MODULATE COMPRESSORS OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED OR MINIMUM OUTSIDE AIRFLOW SETTING IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, MODULATE GAS BURNER AS REQUIRED TO MAINTAIN SET POINT.

ENERGY RECOVERY BYPASS DAMPER:

WHEEL ON:
- OCCUPIED AND IN HEATING MODE
- OCCUPIED AND IN COOLING MODE

WHEEL OFF:
- UNOCCUPIED MODE
- ECONOMIZER MODE (EITHER OCCUPIED OR UNOCCUPIED) FROST/LOW AMBIENT MODE:
- THE MANUFACTURER SHALL CONTROL PREHEAT TO PREVENT FROST FROM FORMING ON THE WHEEL

SEND AN ALARM TO THE FMCS FOR THE FOLLOWING:
- SUPPLY FAN FAULT (AIRFLOW OR CURRENT)
- EXHAUST FAN FAULT (AIRFLOW OR CURRENT)
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- EMERGENCY STOP

WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- THE ENERGY RECOVERY WHEEL SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN

UNOCCUPIED MODE OPERATION:
- OUTSIDE AIR AND EXHAUST AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

PROVIDE CARBON MONOXIDE SENSOR IN LOCATION SHOWN ON PLANS WITH CONNECTION TO THE FMCS. AN ALARM SHALL BE INDICATED IF THE SPACE CO LEVEL EXCEEDS THE FOLLOWING CONCENTRATIONS AND DURATIONS:
50 PPM @ 60 MIN
150 PPM @ 10 MIN
400 PPM @ 5 MIN

AI
C

1 AIR HANDLING UNIT - PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME
NO SCALE

issue for review: 2026.08.05
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issue for construction:
revisions: mark date description

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contents:
CONTROLS DIAGRAM SINGLE ZONE

design. CD
date. 2026.09.11
project. 25.18

M5.00

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PROJECT #260034

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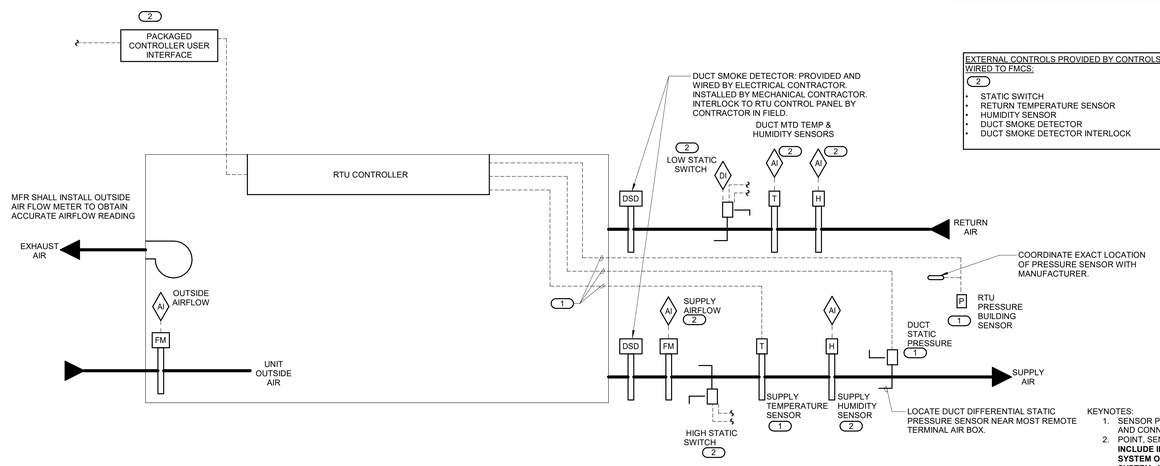
PROVIDED BY PACKAGED MANUFACTURER THROUGH GATEWAY TO FMCS:

- SUPPLY AIR TEMP (SAT) [°F]
- OUTSIDE AIRFLOW [CFM]
- FILTER SWITCH
- SUPPLY FAN VFD OUTPUT [% FULL SPEED]
- RETURN FAN VFD OUTPUT [% FULL SPEED]
- OUTSIDE AIR DAMPER POSITION [% OPEN]
- RETURN AIR DAMPER POSITION [% OPEN]

POINTS PROVIDED BY FMCS AND SYSTEM:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR DEWPOINT [°F] GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- ROOM AIR TEMP SETPOINT [°F]
- RETURN AIR TEMP (RAT) [°F]
- RETURN AIR RELATIVE HUMIDITY [%]
- SUPPLY AIRFLOW [CFM]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.



EXTERNAL CONTROLS PROVIDED BY CONTROLS CONTRACTOR AND WIRED TO FMCS:

- STATIC SWITCH
- RETURN TEMPERATURE SENSOR
- HUMIDITY SENSOR
- DUCT SMOKE DETECTOR
- DUCT SMOKE DETECTOR INTERLOCK

FAN INTERLOCK SCHEDULE

SYSTEM	INTERLOCKED EXHAUST FANS	REMARKS
AHU-1	EF-7	NOTE 1
AHU-2	NONE	NOTE 1
AHU-3	EF-6	NOTE 1
AHU-4	NONE	NOTE 1
AHU-5	EF-7	NOTE 1
AHU-6	EF-6	NOTE 1
AHU-6	EF-1, EF-2	NOTE 1

NOTES:

1. **INTERLOCK EXHAUST FAN OPERATION THROUGH THE FMCS WITH RESPECTIVE AHU IN ACCORDANCE WITH AHU SEQUENCE OF OPERATION.**

KEYNOTES:
1. SENSOR PROVIDED BY RTU MANUFACTURER. SENSOR FEEDER/RACEWAY AND CONNECTION SHALL BE INSTALLED BY CONTRACTOR IN THE FIELD.
2. POINT, SENSOR AND FEEDER/RACEWAY PROVIDED BY TCC. **[N.T.S. DO NOT INCLUDE IF YOU DO NOT INTEND TO HAVE A BUILDING AUTOMATION SYSTEM OR ONLY HAVE A SIMPLE MANUFACTURER PROVIDED CONTROL SYSTEM. ALSO DELETE SENSORS FROM DIAGRAM]**

CONTROLS SEQUENCE PROVIDED BY CONTRACTOR IN FIELD:

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS, SUPPLY FAN SHALL BE ENABLED TO RUN.
- WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
ENABLE RTU TO RUN BASED ON THE FOLLOWING OCCUPANCY SCHEDULE WITH ALLOWANCE FOR ENERGY CODE OPTIMAL START.

- OCCUPIED MODE:
- UNOCCUPIED MODE: MONDAY THROUGH FRIDAY 6:00AM-9:00PM (ADJ.); SATURDAY THROUGH SUNDAY 8:00AM-6:00PM (ADJ.)

CONTRACTOR SHALL FIELD INSTALL: MONDAY THROUGH FRIDAY 9:00PM-5:00AM (ADJ.); SATURDAY THROUGH SUNDAY 6:00PM-7:00AM (ADJ.)
- DUCT STATIC PRESSURE SENSOR
- BUILDING PRESSURE SENSOR.
- SUPPLY AIR TEMPERATURE IN SUPPLY DUCT.

ALARMS, INTERLOCKS AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD.
- HIGH STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- LOW STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- FIRE ALARM RELAY (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)

CONTROLS PROVIDED BY PACKAGED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AS MEASURED BY STATIC PRESSURE TRANSMITTER.

STATIC PRESSURE RESET:
FMCS SHALL RESET SUPPLY DUCT STATIC PRESSURE SETPOINT BELOW THE MAXIMUM SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER 90% (ADJ.) OPEN. FMCS SHALL MONITOR ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

EXHAUST FAN CONTROL:
RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL AND MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C.

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR CFM BASED ON QUANTITY OF AIR FROM UNIT MOUNTED AIRFLOW MEASURING STATION.

SUPPLY AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE 55°F (ADJ.). WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- MODULATE GAS BURNER OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED OR MINIMUM OUTSIDE AIRFLOW SETTING IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL THE COMPRESSORS SHALL BE ENABLED AND UNIT SHALL MODULATE COMPRESSOR CAPACITY AS REQUIRED TO MAINTAIN SET POINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ) BELOW SETPOINT. UNIT SHALL MODULATE COMPRESSORS OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED OR MINIMUM OUTSIDE AIRFLOW SETTING IS REACHED
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, MODULATE GAS BURNER AS REQUIRED TO MAINTAIN SET POINT.

SEND AN ALARM TO THE CONTOLLER INTERFACE [FMCS] FOR THE FOLLOWING:
- SUPPLY FAN FAULT (AIRFLOW, CURRENT OR VFD)
- EXHAUST FAN FAULT (AIRFLOW, CURRENT OR VFD)
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- EMERGENCY STOP

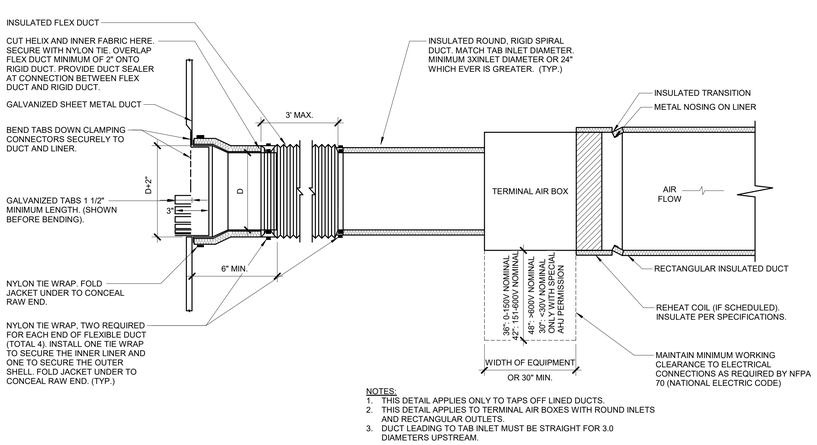
WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- THE ENERGY RECOVERY WHEEL SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN

UNOCCUPIED MODE OPERATION:
- OUTSIDE AIR AND EXHAUST AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

PROVIDE CARBON MONOXIDE SENSOR **[IN LOCATION SHOWN ON PLANS][IN ROOM[S] XXX, XXX, XXX]** WITH **[LOCAL ALARM] [CONNECTION TO THE FMCS]**. AN ALARM SHALL BE INDICATED IF THE SPACE CO LEVEL EXCEEDS THE FOLLOWING CONCENTRATIONS AND DURATIONS:
50 PPM @ 60 MIN
150 PPM @ 10 MIN
400 PPM @ 5 MIN

AI
C

3 AIR HANDLING UNIT - PACKAGED ROOFTOP UNIT WITH EXHAUST FAN
12" = 1'-0"

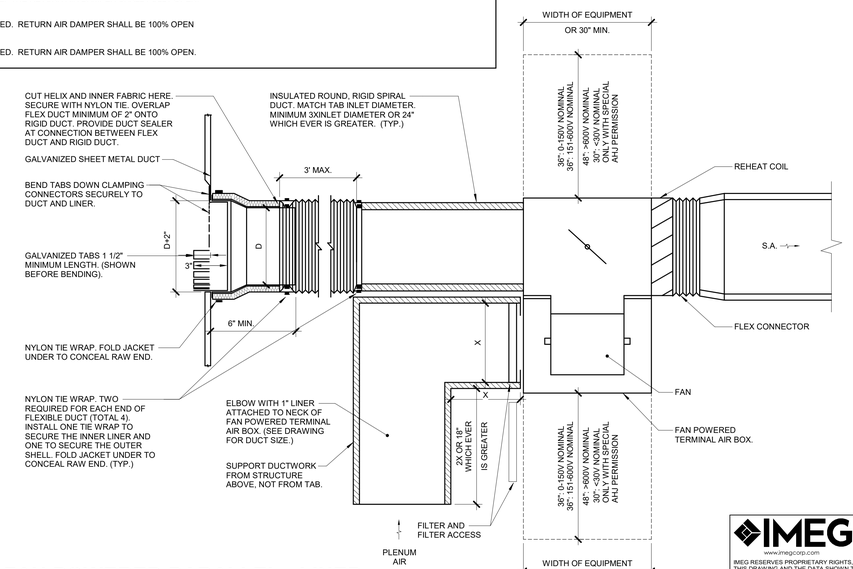


NOTES:
1. THIS DETAIL APPLIES ONLY TO TAPS OFF LINED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 3.0 DIAMETERS UPSTREAM.

NORTH

1 TERMINAL AIR BOX - SINGLE DUCT - LINED
12" = 1'-0"

2 TERMINAL AIR BOX - FAN POWERED PARALLEL - LINED
12" = 1'-0"



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esi

wachter

NOT FOR CONSTRUCTION

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions: mark date description

WACHTER

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS, WITHOUT EXCEPTION. **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents: CONTROLS DIAGRAM MULTI ZONE
design. CD
date. 2026.09.11
project. 25.18

M5.01

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PROJECT #260034

PACKAGED ROOFTOP UNIT SCHEDULE (SUMMARY) (RTU) - PHASE 1

REFER TO "PACKAGED ROOFTOP UNIT COMPONENT SCHEDULES" FOR ADDITIONAL INFORMATION

NOTES:
1.OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO...

			FAN 1		OUTSIDE AIR	REFRIGERATION			FILTER 1	ELECTRICAL				MAXIMUM DIMENSIONS			WEIGHT LBS				
TAG NAME	SERVICE	TYPE	SERVICE	CFM DESIGN	MAX	TYPE	CHARGE LBS	FUEL CFH~ DESIGN ~	SERVICE	VOLTS	PH	MCA	MOCP	WIDTH	HEIGHT	DEPTH	DRY	MANUFACTURER	MODEL	NOTES
RTU-2	185 NSP	ROOFTOP BOTTOM DISCHARGE	SUPPLY	4,862	1,041	R-454B	12.9	400	MERV 8	460	3	40	50	7'-2 3/4"	4'-10 1/4"	10'-3 1/4"	2,602 lbf	TRANE	YSK180A4SOH	1
RTU-3	195 RTO AND HUDDLE	ROOFTOP BOTTOM DISCHARGE	SUPPLY	7,590	1,407	R-454B	14.6	400	MERV 8	460	3	55	70	7'-2 3/4"	4'-10 1/4"	10'-3 1/4"	2,702 lbf	TRANE	YSK240A4SOH	1
RTU-5	BREAK AREA AND OPEN CORRIDORS	ROOFTOP SIDE DISCHARGE	SUPPLY	11,650	1,774	R-454B	33.4	600	MERV 8	460	3	81	100	7'-6"	5'-10 1/2"	17'-3 13/128"	5,714 lbf	TRANE	YCH360D4H*6 B1CH6A0	1
RTU-7	IT-LIBRARY	ROOFTOP SIDE DISCHARGE	SUPPLY	2,600	448	R-454B	9.2	150	MERV 8	460	3	24	35	4'-5 1/4"	4'-4 115/128"	7'-4 179/256"	1,239 lbf	TRANE	YZK090A4SBL	1

SPLIT SYSTEM INDOOR UNIT SCHEDULE (SS) - PHASE 1

TAG NAME	SERVICE	ARRANGEMENT	ASSOC OUTDOOR UNIT	CFM	REFRIGERANT		COOLING	HEATING	ELECTRICAL				FILTER	WEIGHT LBS	MANUFACTURER	MODEL	NOTES
				DESIGN	TYPE	CHARGE LBS	TOTAL MBH	TOTAL MBH	VOLTS	PH	MCA	MOCP	MERV	OPERATING			
FCU-1	HUMAN RESOURCES	VERTICAL	CD-1	1,550	R-454B	5.9	41	100	460	3	14	15	8	224 lbf	TRANE	5TXC*S9X1C	TO BE PLACED ON TOP OF LABOR SAVOR BOX.
FCU-2	RECEPTION	VERTICAL	CD-2	1,635	R-454B	5.9	41	100	460	3	14	15	8	224 lbf	TRANE	5TXC*S9X1C	TO BE PLACED ON TOP OF LABOR SAVOR BOX.
MS-E1	197.1- ELECTRICAL	DUCTLESS SPLIT	CU-E1	765	R-454B	3	34	0	208	1	1	15	MICROPAR TICLE	37 lbf	MITSUBISHI	MSY-GX36NL	POWERED BY OUTDOOR UNIT.
MS-EST1	172 - EAST STAIRS	DUCTLESS SPLIT	CU-EST1	765	R-454B	3	30	34	208	1	1	15	MICROPAR TICLE	37 lbf	MITSUBISHI	MSZ-GX36NL	POWERED BY OUTDOOR UNIT.
MS-S1	175 - SERVER ROOM	DUCTLESS SPLIT	CU-S1	765	R-454B	3	34	0	208	1	1	15	MICROPAR TICLE	37 lbf	MITSUBISHI	MSY-GX36NL	POWERED BY OUTDOOR UNIT.
MS-SST1	184 - SOUTH STAIRS	DUCTLESS SPLIT	CU-SST1	765	R-454B	3	30	34	208	1	1	15	MICROPAR TICLE	37 lbf	MITSUBISHI	MSZ-GX36NL	POWERED BY OUTDOOR UNIT.

CONDENSING UNIT SCHEDULE - COOLING (CU) - PHASE 1

NOTES:
1.

TAG NAME	ASSOC. INDOOR UNIT	REFRIGERANT		ELECTRICAL				MAXIMUM DIMENSIONS			WEIGHT LBS	MANUFACTURER	MODEL	NOTES
		TYPE	CHARGE LBS	VOLTS	PH	MCA~	MOCP ~	WIDTH	HEIGHT	DEPTH	OPERATING			
CD-2	FCU-2	R-454B	5.1	460	3	8	15	2'-8 1/2"	3'-1 51/256"	2'-5 3/4"	212 lbf	TRANE	5TTA4042A4	
CD-1	FCU-1	R-454B	5.1	460	3	8	15	2'-8 1/2"	3'-1 51/256"	2'-5 3/4"	212 lbf	TRANE	5TTA4042A4	
CU-SST1	MS-SST1	R-454B	3	208	1	23	25	2'-9"	34'-6"	1'-1"	116 lbf	MITSUBISHI	MUZ-GX36NL	
CU-S1	MS-S1	R-454B	3	208	1	23	40	2'-9"	34'-6"	1'-1"	116 lbf	MITSUBISHI	RZA36AAVJU	
CU-EST1	MS-EST1	R-454B	3	208	1	23	25	2'-9"	34'-6"	1'-1"	116 lbf	MITSUBISHI	MUZ-GX36NL	
CU-E1	MS-S1	R-454B	3	208	1	23	40	2'-9"	34'-6"	1'-1"	116 lbf	MITSUBISHI	RZA36AAVJU	

AIR TERMINAL SCHEDULE (EG, RG, SD, etc.)

NOTES:
1.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
2.REFER TO DRAWINGS FOR FACE SIZES NOTED AS <varies>.
3.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
4.DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.

TAG NAME	TYPE	MATERIAL	FINISH	FACE SIZE (NOTE 1,2) LENGTH ~	WIDTH	HEIGHT	BORDER (NOTE 3)	LINEAR SLOTS SLOTS (NOTE 4) WIDTH	QTY	VOLUME DAMPER	MANUFACTURER	MODEL	NOTES
CD-1	CONES	ALUMINUM	WHITE	0"	24"	24"	LAY-IN	0"	0	No	TITUS	TMS-AA	
EG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	12"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
EG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	24"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
LD-1		STEEL	WHITE	24"	2"	0"	SURFACE MOUNT	1"	1	Yes	TITUS	TBD	
LD-2		STEEL	WHITE	24"	2"	0"	SURFACE MOUNT	1"	1	Yes	TITUS	TBD	
LD-3		STEEL	WHITE	24"	2 1/2"	0"	SURFACE MOUNT	1 1/2"	1	Yes	TITUS	TBD	
LD-4		STEEL	WHITE	24"	2 1/2"	0"	SURFACE MOUNT	1 1/2"	1	Yes	TITUS	TBD	
LD-7		STEEL	WHITE	48"	5 1/4"	0"	SURFACE MOUNT	1 1/2"	2	Yes	TITUS	TBD	
LD-8		STEEL	WHITE	48"	5 1/4"	0"	SURFACE MOUNT	1 1/2"	2	Yes	TITUS	TBD	
RG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	18"	18"	SURFACE MOUNT	0"	0	Yes	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	12"	8"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	16"	16"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	24"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	34"	34"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	48"	30"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-3	PERFORATED FACE	STEEL	WHITE	0"	12"	12"	LAY-IN			No	TITUS	PAR	DUCTED RETURN
RG-4	PERFORATED FACE	STEEL	WHITE	0"	24"	24"	LAY-IN	0"	0	No	TITUS	PAR	DUCTED RETURN
SD-1	LOUVER FACE	STEEL	WHITE	0"	0"	0"	SURFACE MOUNTED	0"	0	No	TITUS	TMRA	
SD-2	PLAQUE	ALUMINUM	WHITE	0"	12"	12"	LAY-IN			No	TITUS	OMNI	ALL NON-FERROUS CONSTRUCTION FOR MRI OR DAMP LOCATION
SD-3	PLAQUE	ALUMINUM	WHITE	0"	24"	24"	LAY-IN			No	TITUS	OMNI	ALL NON-FERROUS CONSTRUCTION FOR MRI OR DAMP LOCATION
SD-4	DOUBLE DEFLECTION	[ALUMINUM] [STEEL]	WHITE	0"	10"	6"	SURFACE MOUNT	0"	0	No	TITUS	300	LONG FRONT BLADES
SJ-1	EYEBALL NOZZLE DIFFUSER	ALUMINUM	WHITE	0"	0"	0"	DUCT MOUNT	0"	0	Yes	TITUS	TND-AA	PROVIDE WITH OPTIONAL RING MOUNT FOR DUCT ATTACHMENT. PROVIDE WITH MANUFACTUERS VOLUME DAMPER. PROVIDE WITH MANUFACTUERS SIZE 6 4 NOZZLE.
SJ-2	EYEBALL NOZZLE DIFFUSER	ALUMINUM	WHITE	0"	0"	0"	DUCT MOUNT	0"	0	Yes	TITUS	TND-AA	PROVIDE WITH OPTIONAL RING MOUNT FOR DUCT ATTACHMENT. PROVIDE WITH MANUFACTUERS VOLUME DAMPER. PROVIDE WITH MANUFACTUERS SIZE 6 1 NOZZLE.
SR-1	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	
SR-2	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	
SR-3	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	

FAN SCHEDULE (EF, RF, SF, etc.) - PHASE 1

NOTES:
1.

TAG NAME	ARRANGEMENT	CFM DESIGN	TOTAL S.P. IN. WC	DRIVE	RPM	MOTOR BHP [E]	DAMPER TYPE	ELECTRICAL VOLTS	PH	MAXIMUM DIMENSIONS WIDTH	HEIGHT	DEPTH	WEIGHT LBS DRY	MANUFACTURER	MODEL	NOTES
EF-1	CEILING MOUNT	75	0.44	DIRECT	650	0.04	BACKDRAFT	115	1	1'-2"	7"	1'-0"	10 lbf	GREENHECK	SP-B11OES	
EF-2	CEILING MOUNT	125	0.13	DIRECT	1100	0.01	BACKDRAFT	115	1	1'-1"	9"	11"	24 lbf	GREENHECK	SP-A125	
EF-5	ROOF MOUNTED TOP DISCHARGE	2,200	0.26	DIRECT	682	0.23	BACKDRAFT	460	3	3'-0"	3'-4"	0"	113 lbf	GREENHECK	GB-180	

TERMINAL AIR BOX SCHEDULE - ELECTRIC REHEAT (TAB) - Phase 1

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3. SUPPLY WITH ECM MOTORS.
4. WEIGHT PROVIDED ARE FROM SPECIFICATION WITH SUPPLIED ATTENUATORS. WEIGHT COULD GO UP OR DOWN DEPENDING ON ACCESSORIES PROVIDED. WORK WITH TRANE REP FOR FINAL SELECTION...

TAG NAME	SERVICE	INLET	COOLING CFM	HEATING CFM	MOTOR HP	ELECTRIC ELEMENT EAT DB °F	LAT DB °F	TOTAL KW (QTY * KW) QTY	KW	ELECTRICAL VOLTS	PH	FLA~	WEIGHT LBS DRY	MANUFACTURER	MODEL
VAV 1-1	NSP 185	12"	1,629	600	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-12-04SQ-115KW
VAV 1-2	NSP 185	12"	1,613	600	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-12-04SQ-115KW
VAV 1-3	NSP 185	12"	1,200	600	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-12-04SQ-115KW
VAV 1-4	1ST FLOOR HUDDLE/OFFICES	10"	1,135	420	0.33	55	90	1	4	480	3	5.6	145 lbf	TRANE	VSEG-10-02SQ-040KW
VAV 1-5	1ST FLOOR HUDDLE/ OFFICES	8"	459	150	0.33	55	90	1	1.5	480	3	2.6	145 lbf	TRANE	VSEGS-6-02Q-015W
VAV 1-6	RTO 193	12"	1,560	600	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-12-04SQ-115KW
VAV 1-7	RTO 193	12"	1,789	600	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-12-04SQ-115KW
VAV 1-8	STORAGE 195, PRINT 194, MECH	10"	900	900	1	55	90	1	11.5	480	3	15.6	223 lbf	TRANE	VPEG-10-04SQ-115KW
VAV 1-9	BACK 1 CONF. RM	10"	1,213	420	0.33	55	90	1	6	480	3	8	155 lbf	TRANE	VPEG-10-02SQ-060KW
VAV 2-15	LIBRARY 232	10"	1,070	420	0.75	55	90	1	5	480	3	6.8	195 lbf	TRANE	VSEG-10-03SQ-050KW
VAV-1-10	IT 167	10"	900	420	0.33	55	90	1	5	480	3	4.4	208 lbf	TRANE	VPEG-10-02SQ-050KW
VAV-1-11	IT OFFICE/STORAGE	8"	620	270	0.33	55	90	1	3	480	3	7.4	145 lbf	TRANE	VSEG-8-02SQ-030KW

UNIT HEATER SCHEDULE - ELECTRIC (UH) - PHASE 1

NOTES:
1.

TAG NAME	SERVICE	ARRANGEMENT	FAN CFM DESIGN	ELECTRIC ELEMENT TOTAL KW (QTY * KW) QTY	KW	ELECTRICAL VOLTS	PH	MAXIMUM DIMENSIONS WIDTH	HEIGHT	DEPTH	WEIGHT LBS OPERATING	MANUFACTURER	MODEL	NOTES
UH-1	MECH 197.3	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-1	MECH 197.3	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-2	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-3	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-4	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-5	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-6	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-7	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-8	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-9	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-10	STORAGE 237	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.
UH-11	275 - SERVER ROOM	WALL OR CEILING MOUNT	350	1	3	208	1	1'-2"	1'-4"	7 1/2"	27 lbf	BERKO	HUHAA320	COORDINATE WITH ARCHITECT IF UNIT HEATER IS TO BE CEILING HUNG OR WALL MOUNTED. CONTRACTOR TO CONFIRM IF B10 MOUNTING BRACKET IS REQUIRED.

LOUVER SCHEDULE (EAL, OAL, RAL, etc.)

TAG NAME	SERVICE	TYPE	FINISH (NOTE 1)	SIZE (INCHES) WIDTH	HEIGHT	FREE AREA SQ FT	CFM DESIGN	A.P.D. IN. W.C.	FREE AREA FPM	MANUFACTURER	MODEL	NOTES
LV-1	HUMAN RESOURCES AND RECEPTION	STATIONARY	CONFIRM WITH ARCHITECT	12"	12"	0.53	270	0	510	RUSKIN	ELF375	

NOTES:
1. FINISH TYPES: TYPE 1 - MILL FINISH, TYPE 2 - 204-R1 SATIN ANODIZED, TYPE 3 - BAKED ENAMEL FINISH ON PRETREATED PRIME PAINT. STANDARD COLOR - SELECTION BY ARCHITECT. TYPE 4 - BAKED EPOXY FINISH ON PRIME COATED METAL, STANDARD COLOR - SELECTION BY ARCHITECT. TYPE 5 - DURANODIC BRONZE - LIGHT, MEDIUM, DARK. TYPE 6 - PVDF (KYNAR 500, HYLAR 5000, OR DURANAR). STANDARD COLOR - SELECTION BY ARCHITECT.

DUCTWORK APPLICATION SCHEDULE

NOTES:
1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO DRAWINGS FOR THE SHAPE OF DUCTWORK.
3. THE APPLICATION COLUMN, AS NOTED BELOW, SHALL TAKE PRECEDENCE OVER THE DRAWINGS UNLESS OTHERWISE NOTED.

ABBR.	SYSTEM	APPLICATION	MATERIAL	PRESS. CLASS	SEAL CLASS	INSULATION TYPE	THICK	PLACE	NOTES
SA1	SUPPLY AIR Type 1	FROM SUPPLY FAN TO TERMINAL EQUIPMENT	SINGLE WALL, GALVANIZED STEEL	POS. 4"	A	REFER TO SPEC.	1 1/2"	WRAP	
SA2	SUPPLY AIR Type 2	FROM TERMINAL EQUIPMENT TO AIR TERMINAL	SINGLE WALL, GALVANIZED STEEL	POS. 2"	A	REFER TO SPEC.	1 1/2"	WRAP	

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contents: HVAC SCHEDULES - PHASE 1

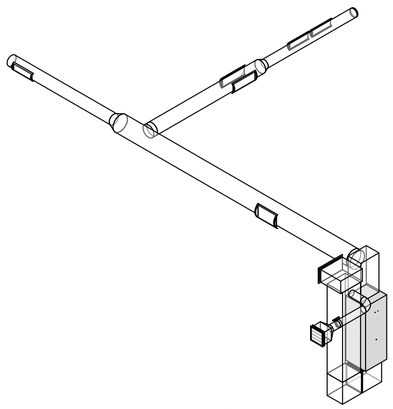
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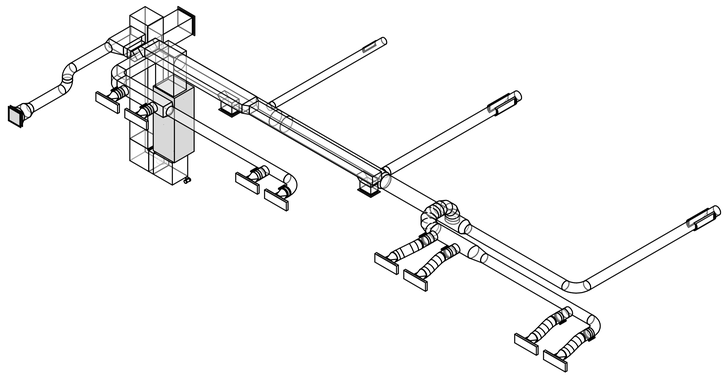
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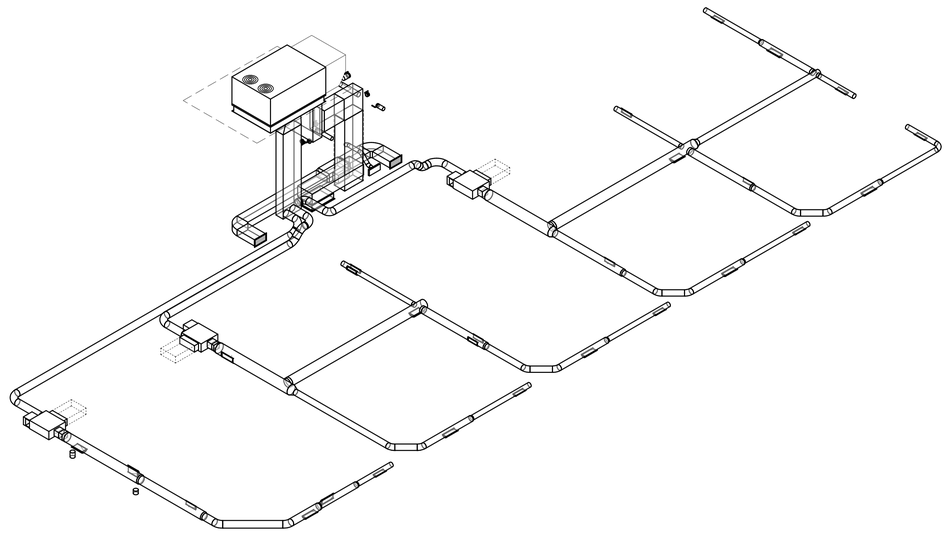
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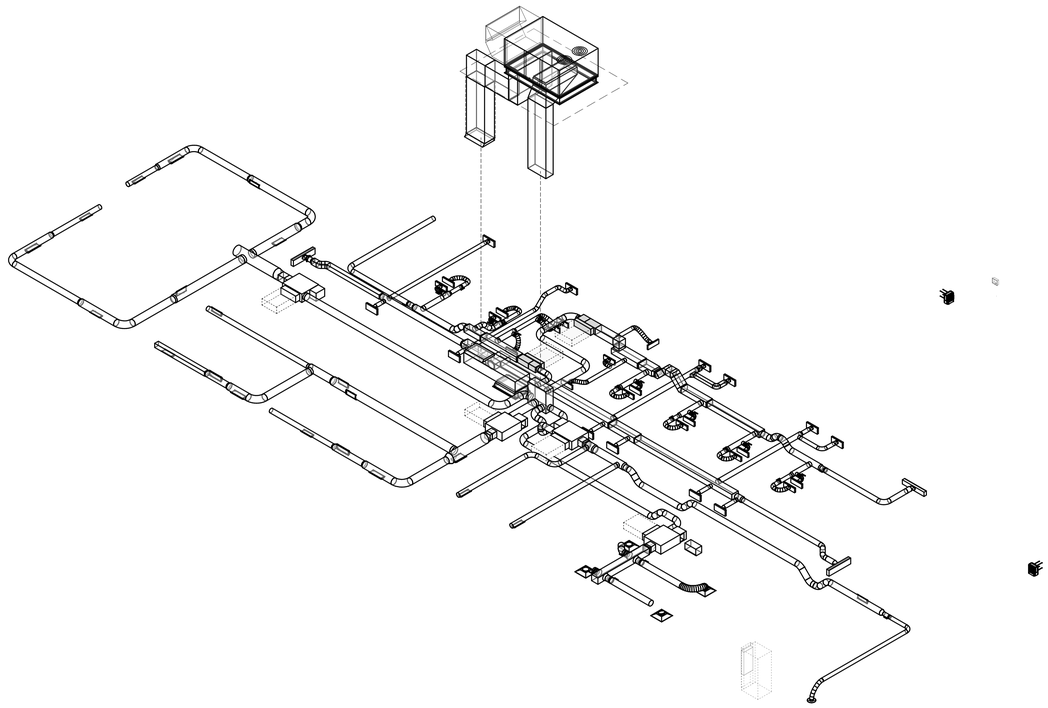
1 RECEPTION HVAC RISER



2 HR SUITE HVAC RISER



3 RTU-2 RISER



4 RTU-3

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PHASE 1 HVAC RISERS

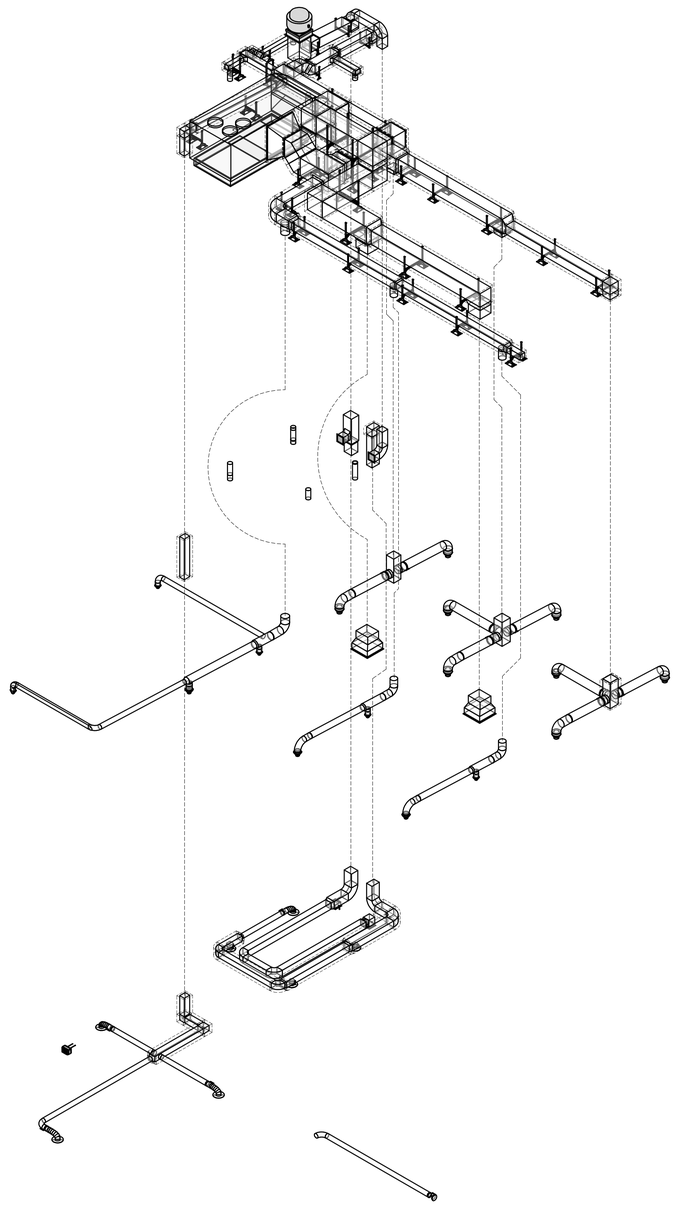
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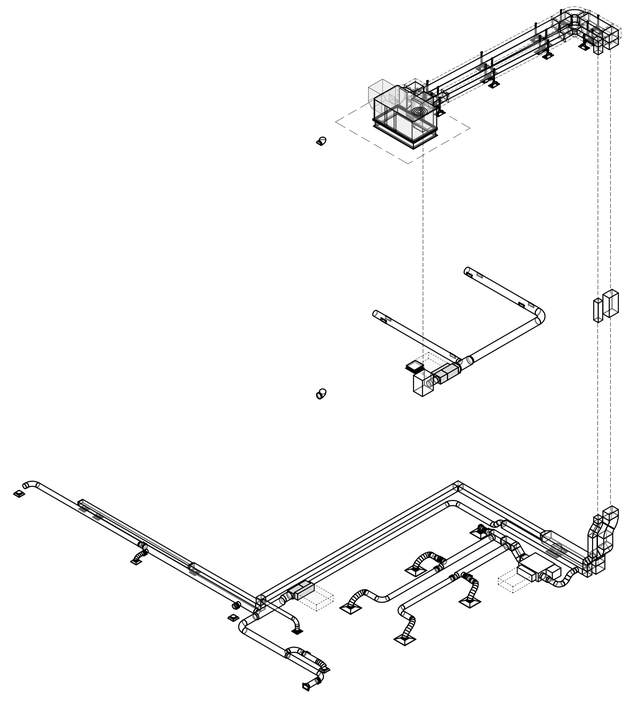
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2 **RTU-5**
NO SCALE



1 **RTU-7**
NO SCALE

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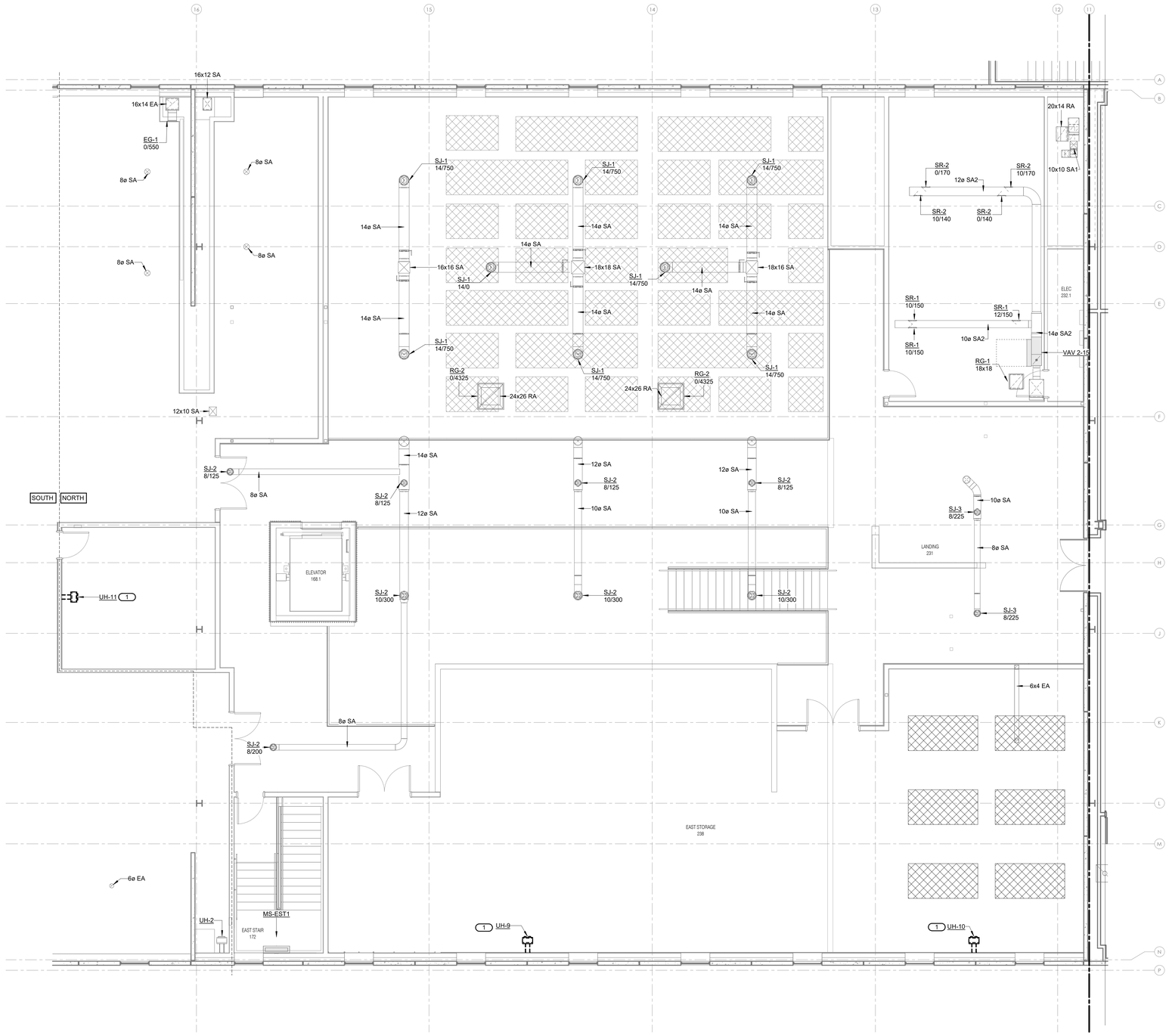
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PROJECT #260034



KEYNOTES

1 REMOVE ELECTRIC UNIT HEATER, PATCH WALL, AND RETURN EQUIPMENT WITH ALL APPURTENANCES TO OWNER.

NORTH

1 LEVEL 02 HVAC SOUTH EXPANSION NORTH PHASE 2 DEMOLITION

3/16" = 1'-0"

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HVAC DEMOLITION PLAN - ZONE B - LVL 02 NORTH - PHASE 2

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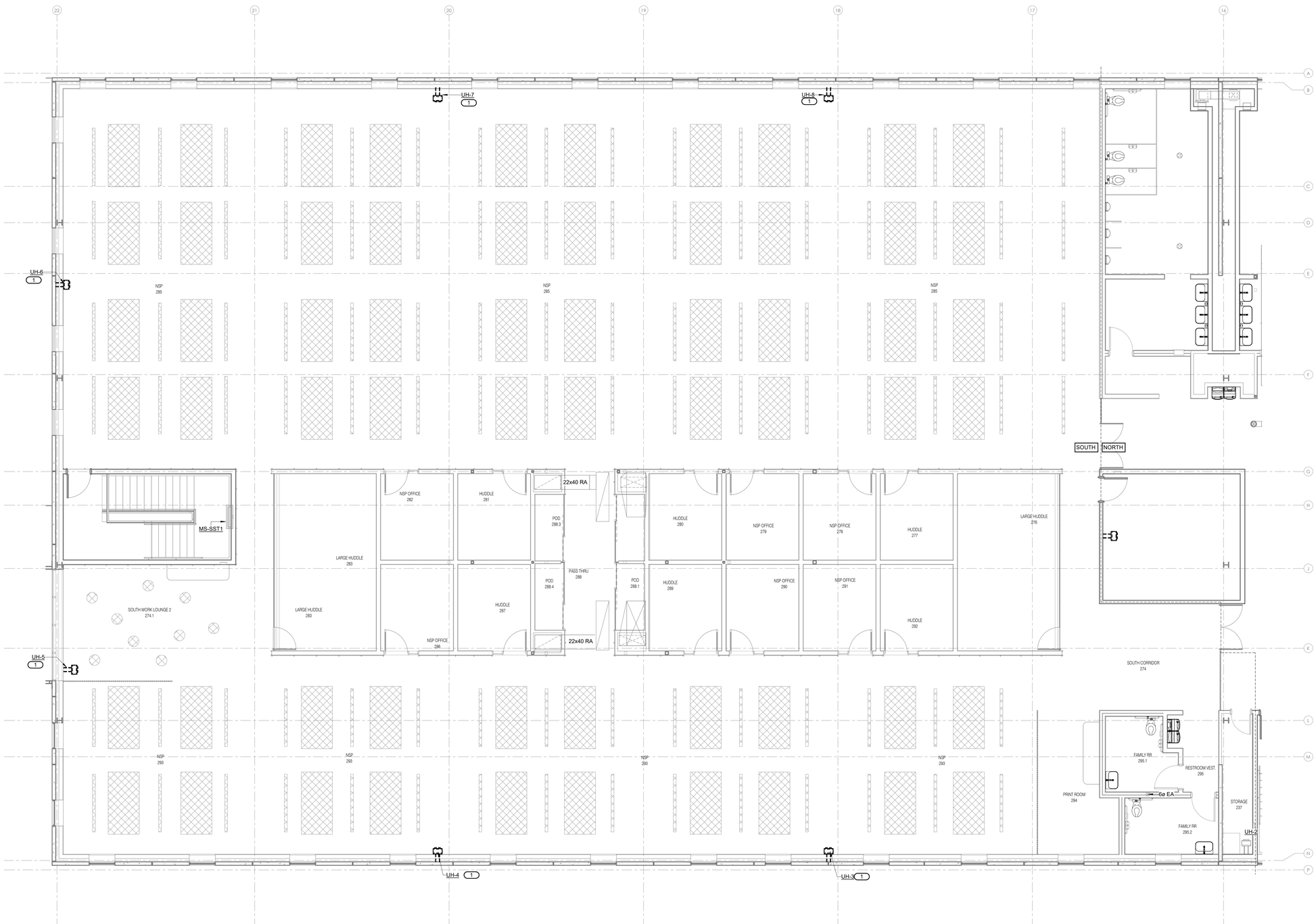
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1 REMOVE ELECTRIC UNIT HEATER, PATCH WALL, AND RETURN EQUIPMENT WITH ALL APPURTENANCES TO OWNER.



1 LEVEL 02 HVAC SOUTH EXPANSION SOUTH - PHASE 2 DEMOLITION

3/16" = 1'-0"

NORTH

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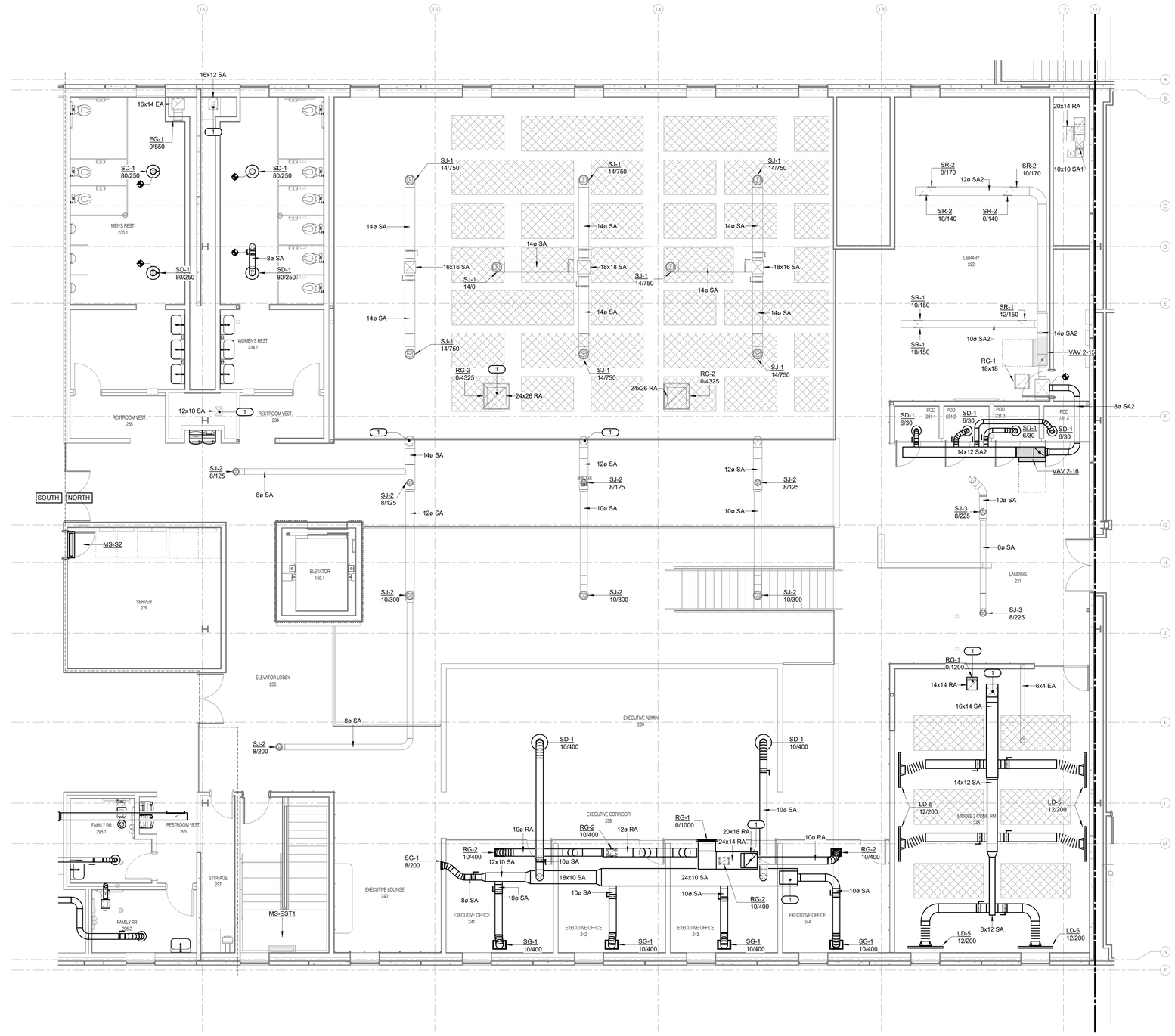
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PROJECT #260034

MM1.12B



KEYNOTES

1 SUPPLY AND RETURN DUCTWORK TO BE ROUTED UP TO ROOF. SEE SHEET M2.20 FOR CONTINUATION.

1 LEVEL 02 HVAC SOUTH EXPANSION NORTH

3/16" = 1'-0"

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PROJECT #260034

MM2.12A

KEYNOTES

1. SUPPLY AND RETURN DUCTWORK TO BE ROUTED UP TO ROOF. SEE SHEET M2.20 FOR CONTINUATION.
2. EXHAUST DUCT TO BE ROUTED UP TO ROOF. SEE SHEET ME 2.20 FOR CONTINUATION.
3. ROUTE SUPPLY DUCT UP THROUGH ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
4. ROUTE RETURN DUCT UP THROUGH ROOF. REFER TO ROOF PLAN FOR CONTINUATION.

1 LEVEL 02 HVAC SOUTH EXPANSION SOUTH - PHASE 2

3/16" = 1'-0"

NORTH

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SOUTH - PHASE 2

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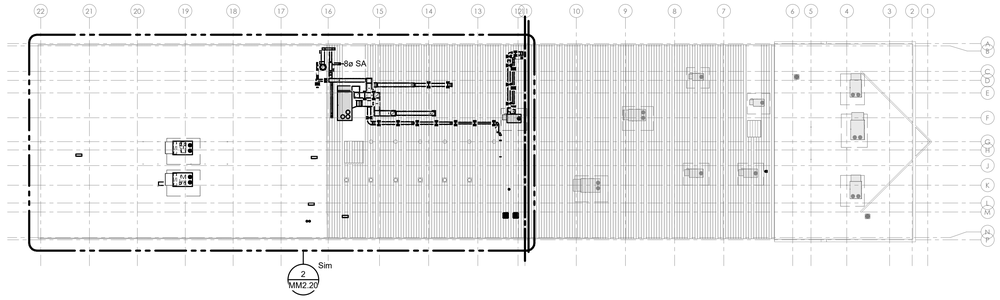
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MM2.12B



1 ROOF HVAC PLAN

1/32" = 1'-0"

GENERAL NOTES

1. ROOFTOP DUCTWORK TO UTILIZE PRE-MANUFACTURED DUCTWORK SUPPORTS AS SHOWN ON SHEET. CONTRACTOR TO PROVIDE MIRO 6-DS, 8-DS, 10-DS OR EQUIVALENT AS NEEDED. CONTRACTOR TO COORDINATE EXACT ROOF SUPPORT LAYOUT PRIOR BID. LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE AND SHOULD NOT BE USED FOR CONSTRUCTION.

KEYNOTES

1 ROOF TOP DUCTWORK TO PENETRATE ROOF AT POINT SHOWN.

2 PROVIDE AND INSTALL ROOFTOP UNIT ON EXISTING ROOF CURB.

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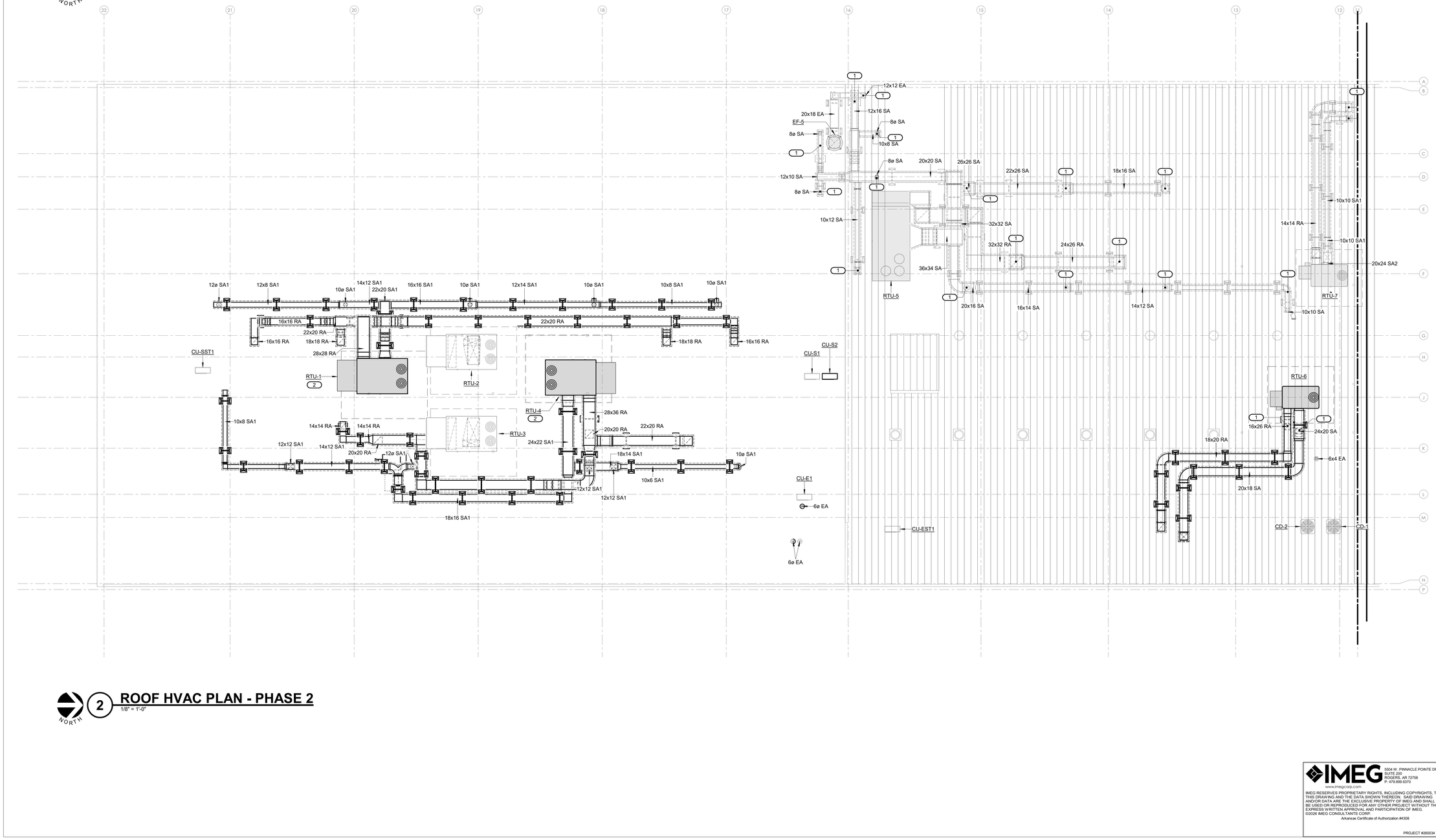
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2 ROOF HVAC PLAN - PHASE 2

1/8" = 1'-0"

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PACKAGED ROOFTOP UNIT SCHEDULE (SUMMARY) (RTU) - PHASE 2

REFER TO "PACKAGED ROOFTOP UNIT COMPONENT SCHEDULES" FOR ADDITIONAL INFORMATION

NOTES:
1.OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO...

			FAN 1		OUTSID E AIR	REFRIGERATION			FILTER 1	ELECTRICAL				MAXIMUM DIMENSIONS			WEIGHT LBS			
TAG NAME	SERVICE	TYPE	SERVICE	CFM DESIGN	MAX	TYPE	CHARGE LBS	FUEL CFH~ DESIGN ~	SERVICE	VOLTS	PH	MCA	MOCP	WIDTH	HEIGHT	DEPTH	DRY	MANUFACTURER	MODEL	NOTES
RTU-1	285 NSP	ROOFTOP BOTTOM DISCHARGE	SUPPLY	6,249	508	R-454B	12.9	320	MERV 8	460	3	40	50	7'-3"	4'-11 5/128"	10'-3"	2,584 lbf	TRANE	YC210	1
RTU-4	285 NSP AND HUDDLE	ROOFTOP BOTTOM DISCHARGE	SUPPLY	8,806	678	R-454B	15.3	400	MERV 8	460	3	59	80	7'-3"	4'-11 5/128"	10'-3"	2,752 lbf	TRANE	YC300	1
RTU-6	ADMIN-OPEN OF	ROOFTOP SIDE DISCHARGE	SUPPLY	3,262	339	R-454B	9	200	MERV 8	460	3	30	40	4'-5"	4'-4 205/256"	6'-11 115/128"	1,308 lbf	TRANE	YSK120A4S0M	1

SPLIT SYSTEM INDOOR UNIT SCHEDULE (SS) - PHASE 2

NOTES:
1.

			ASSOC OUTDOOR UNIT	CFM	REFRIGERANT		COOLING	HEATING	ELECTRICAL				FILTER	WEIGHT LBS			
TAG NAME	SERVICE	ARRANGEMENT		DESIGN	TYPE	CHARGE LBS	TOTAL MBH	TOTAL MBH	VOLTS	PH	MCA	MOCP	MERV	OPERATING	MANUFACTURER	MODEL	NOTES
MS-S2	275 - SERVER ROOM	DUCTLESS SPLIT	CU-S2	765	R-454B	3	34	0	208	1	1	15	MICROPAR TICLE	37 lbf	MITSUBISHI	MSY-GX36NL	POWERED BY OUTDOOR UNIT.

CONDENSING UNIT SCHEDULE - COOLING (CU) - PHASE 2

NOTES:
1.

		REFRIGERANT		ELECTRICAL				MAXIMUM DIMENSIONS			WEIGHT LBS			
TAG NAME	ASSOC. INDOOR UNIT	TYPE	CHARGE LBS	VOLTS	PH	MCA~	MOCP ~	WIDTH	HEIGHT	DEPTH	OPERATING	MANUFACTURER	MODEL	NOTES
CU-S2	MS-S2	R-454B	3	208	1	23	40	2'-9"	34'-6"	1'-1"	116 lbf	MITSUBISHI	RZA36AAVJU	

AIR TERMINAL SCHEDULE (EG, RG, SD, etc.)

NOTES:
1.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
2.REFER TO DRAWINGS FOR FACE SIZES NOTED AS <varies>
3.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
4.DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.

				FACE SIZE (NOTE 1,2)				LINEAR SLOTS					
TAG NAME	TYPE	MATERIAL	FINISH	LENGTH ~	WIDTH	HEIGHT	BORDER (NOTE 3)	SLOTS (NOTE 4) WIDTH	SLOTS (NOTE 4) QTY	VOLUME DAMPER	MANUFACTURER	MODEL	NOTES
CD-1	CONES	ALUMINUM	WHITE	0"	24"	24"	LAY-IN	0"	0	No	TITUS	TMS-AA	
EG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	12"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
EG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	24"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
LD-1		STEEL	WHITE	24"	2"	0"	SURFACE MOUNT	1"	1	Yes	TITUS	TBD	
LD-2		STEEL	WHITE	24"	2"	0"	SURFACE MOUNT	1"	1	Yes	TITUS	TBD	
LD-3		STEEL	WHITE	24"	2 1/2"	0"	SURFACE MOUNT	1 1/2"	1	Yes	TITUS	TBD	
LD-4		STEEL	WHITE	24"	2 1/2"	0"	SURFACE MOUNT	1 1/2"	1	Yes	TITUS	TBD	
LD-7		STEEL	WHITE	48"	5 1/4"	0"	SURFACE MOUNT	1 1/2"	2	Yes	TITUS	TBD	
LD-8		STEEL	WHITE	48"	5 1/4"	0"	SURFACE MOUNT	1 1/2"	2	Yes	TITUS	TBD	
RG-1	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	18"	18"	SURFACE MOUNT	0"	0	Yes	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	12"	8"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	16"	16"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	24"	12"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	34"	34"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-2	35 DEGREE DEFLECTION	ALUMINUM	WHITE	0"	48"	30"	SURFACE MOUNT	0"	0	No	TITUS	350	LONG BLADES
RG-3	PERFORATED FACE	STEEL	WHITE	0"	12"	12"	LAY-IN			No	TITUS	PAR	DUCTED RETURN
RG-4	PERFORATED FACE	STEEL	WHITE	0"	24"	24"	LAY-IN	0"	0	No	TITUS	PAR	DUCTED RETURN
SD-1	LOUVER FACE	STEEL	WHITE	0"	0"	0"	SURFACE MOUNTED	0"	0	No	TITUS	TMRA	
SD-2	PLAQUE	ALUMINUM	WHITE	0"	12"	12"	LAY-IN			No	TITUS	OMNI	ALL NON-FERROUS CONSTRUCTION FOR MRI OR DAMP LOCATION
SD-3	PLAQUE	ALUMINUM	WHITE	0"	24"	24"	LAY-IN			No	TITUS	OMNI	ALL NON-FERROUS CONSTRUCTION FOR MRI OR DAMP LOCATION
SD-4	DOUBLE DEFLECTION	[ALUMINUM] [STEEL]	WHITE	0"	10"	6"	SURFACE MOUNT	0"	0	No	TITUS	300	LONG FRONT BLADES
SJ-1	EYEBALL NOZZLE DIFFUSER	ALUMINUM	WHITE	0"	0"	0"	DUCT MOUNT	0"	0	Yes	TITUS	TND-AA	PROVIDE WITH OPTIONAL RING MOUNT FOR DUCT ATTACHMENT. PROVIDE WITH MANUFACTURERS VOLUME DAMPER. PROVIDE WITH MANUFACTUERS SIZE 6 4 NOZZLE.
SJ-2	EYEBALL NOZZLE DIFFUSER	ALUMINUM	WHITE	0"	0"	0"	DUCT MOUNT	0"	0	Yes	TITUS	TND-AA	PROVIDE WITH OPTIONAL RING MOUNT FOR DUCT ATTACHMENT. PROVIDE WITH MANUFACTURERS VOLUME DAMPER. PROVIDE WITH MANUFACTUERS SIZE 6 1 NOZZLE.
SR-1	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	
SR-2	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	
SR-3	DOUBLE DEFLECTION	ALUMINUM	WHITE	0"	0"	0"		0"	0	Yes	PRICE	SDGER Series	

FAN SCHEDULE (EF, RF, SF, etc.) - PHASE 2

NOTES:
1.

TAG NAME	ARRANGEMENT	CFM DESIGN	TOTAL S.P. IN. WC	DRIVE	RPM	MOTOR BHP [E]	DAMPER TYPE	ELECTRICAL VOLTS	ELECTRICAL PH	MAXIMUM DIMENSIONS WIDTH	MAXIMUM DIMENSIONS HEIGHT	MAXIMUM DIMENSIONS DEPTH	WEIGHT LBS DRY	MANUFACTURER	MODEL	NOTES
EF-1	CEILING MOUNT	75	0.44	DIRECT	650	0.04	BACKDRAFT	115	1	1'-2"	7"	1'-0"	10 lbf	GREENHECK	SP-B11OES	
EF-2	CEILING MOUNT	125	0.13	DIRECT	1100	0.01	BACKDRAFT	115	1	1'-1"	9"	11"	24 lbf	GREENHECK	SP-A125	
EF-5	ROOF MOUNTED TOP DISCHARGE	2,200	0.26	DIRECT	682	0.23	BACKDRAFT	460	3	3'-0"	3'-4"	0"	113 lbf	GREENHECK	GB-180	

TERMINAL AIR BOX SCHEDULE - ELECTRIC REHEAT (TAB) - Phase 2

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3. SUPPLY WITH ECM MOTORS.

		INLET	COOLING CFM	HEATING CFM		ELECTRIC ELEMENT EAT	ELECTRIC ELEMENT LAT	ELECTRIC ELEMENT TOTAL KW (QTY * KW) QTY	ELECTRIC ELEMENT TOTAL KW (QTY * KW) KW	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL TOTAL FLA	WEIGHT LBS DRY			
TAG NAME	SERVICE	DIA	MAX	MAX	MOTOR HP	DB °F	DB °F	QTY	KW	VOLTS	PH	TOTAL FLA	DRY	MANUFACTURER	MODEL	NOTES (NOTE 1 & 2)
VAV 2-1	NSP 285	12"	1,550	600	1	55	90	1	10	480	3	13.8	223 lbf	TRANE	VPEG-12-04SQ-115KW	
VAV 2-2	NSP 285	10"	1,100	420	0.33	55	90	1	7	480	3	9.2	155 lbf	TRANE	VPEG-10-02SQ-060KW	
VAV 2-3	NSP 285	10"	1,100	420	0.33	55	90	1	7	480	3	9.2	155 lbf	TRANE	VPEG-10-02SQ-060KW	
VAV 2-4	NSP 285	10"	1,100	420	0.33	55	90	1	7	480	3	9.2	155 lbf	TRANE	VPEG-10-02SQ-060KW	
VAV 2-5	NSP 285	10"	1,400	600	0.75	55	90	1	9.5	480	3	12.8	208 lbf	TRANE	VPEG-12-03SQ-95KW	
VAV 2-6	NSP 293	10"	1,250	420	0.75	55	90	1	7	480	3	9.8	208 lbf	TRANE	VPEG-12-03SQ-95KW	
VAV 2-7	NSP 293, SOUTH WORK LOUNGE	8"	750	270	0.75	55	90	1	4	480	3	6.2	208 lbf	TRANE	VSEG-8-03SQ-040KW	
VAV 2-8	NSP 293	8"	930	420	0.33	55	90	1	6	480	3	8	155 lbf	TRANE	VPEG-8-02SQ-045KW	
VAV 2-9	NSP 293	12"	1,560	600	0.75	55	90	1	9	480	3	12.2	208 lbf	TRANE	VSEG-8-03SQ-040KW	
VAV 2-10	NSP 293	8"	680	270	0.75	55	90	1	4	480	3	6.2	208 lbf	TRANE	VSEG-8-03SQ-040KW	
VAV 2-11	NSP 293	8"	850	270	0.33	55	90	1	4.5	480	3	6.2	155 lbf	TRANE	VPEG-8-02SQ-045KW	
VAV 2-12	NSP 293	8"	0	270	0.33	55	90	1	4.5	480	3	6.2	155 lbf	TRANE	VPEG-8-02SQ-045KW	
VAV 2-13	NSP 293	8"	780	270	0.75	55	90	1	4.5	480	3	6.8	208 lbf	TRANE	VSEG-8-03SQ-040KW	
VAV 2-14	FAMILY RR 295, PRINT ROOM 294, PARTIAL SOUTH CORRIDOR 274	10"	1,140	420	0.75	55	90	1	6.5	480	3	9.2	208 lbf	TRANE	VPEG-10-03SQ-065KW	
VAV 2-16	PODS	10"	90	109	0.75	55	90	1	1.5	480	3	3.2	208 lbf	TRANE	VSEG-10-03SQ-050KW	

DUCTWORK APPLICATION SCHEDULE

NOTES:
1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO DRAWINGS FOR THE SHAPE OF DUCTWORK.
3. THE APPLICATION COLUMN, AS NOTED BELOW, SHALL TAKE PRECEDENCE OVER THE DRAWINGS UNLESS OTHERWISE NOTED.

ABBR.	SYSTEM	APPLICATION	MATERIAL	PRESS. CLASS	SEAL CLASS	INSULATION TYPE	INSULATION THICK	INSULATION PLACE	NOTES
SA1	SUPPLY AIR Type 1	FROM SUPPLY FAN TO TERMINAL EQUIPMENT	SINGLE WALL, GALVANIZED STEEL	POS. 4"	A	REFER TO SPEC.	1 1/2"	WRAP	
SA2	SUPPLY AIR Type 2	FROM TERMINAL EQUIPMENT TO AIR TERMINAL	SINGLE WALL, GALVANIZED STEEL	POS. 2"	A	REFER TO SPEC.	1 1/2"	WRAP	

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REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

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contents.
HVAC SCHEDULES - PHASE 2

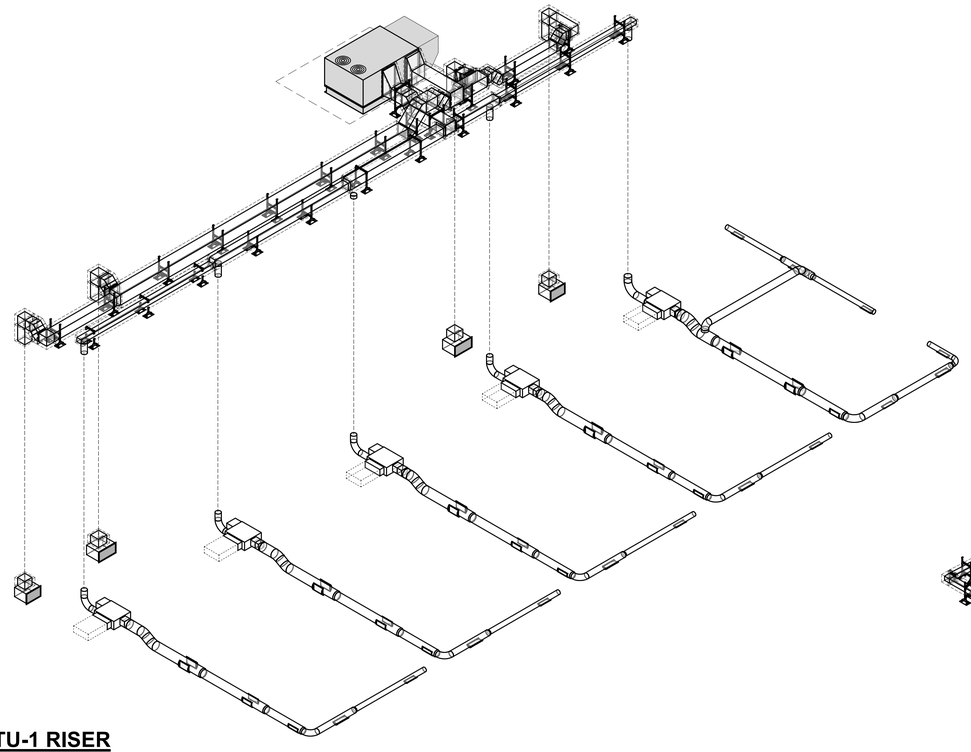
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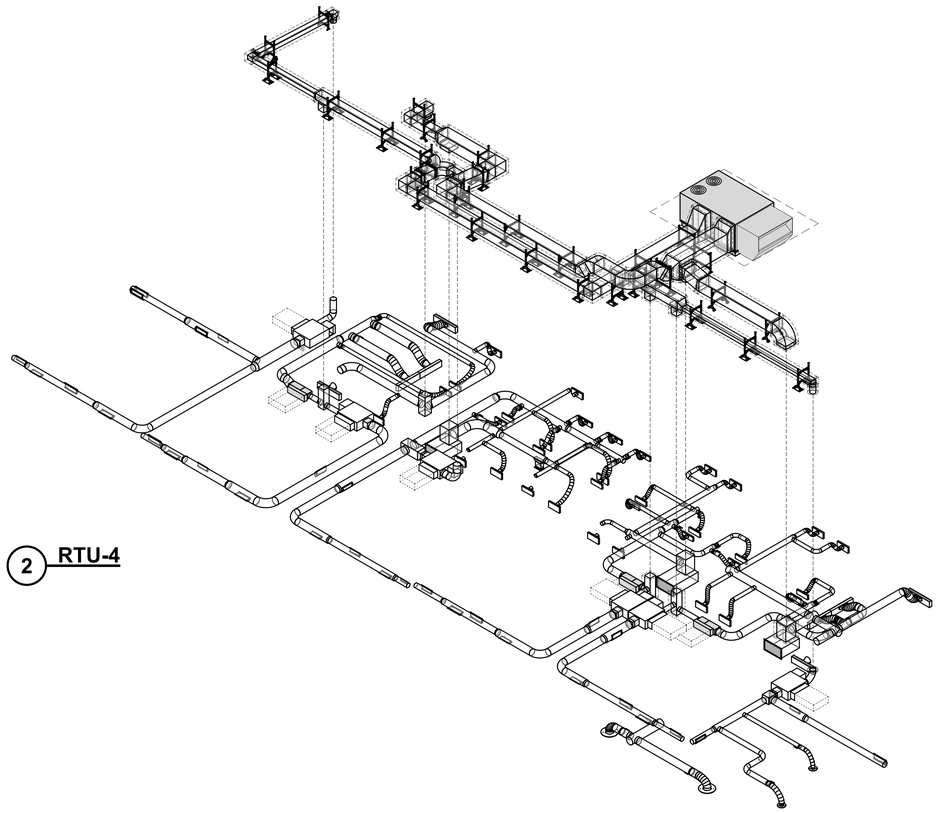
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PROJECT #260034



1 **RTU-1 RISER**



2 **RTU-4**

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PHASE 2 HVAC RISERS

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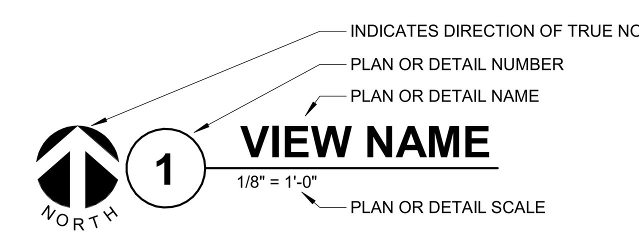
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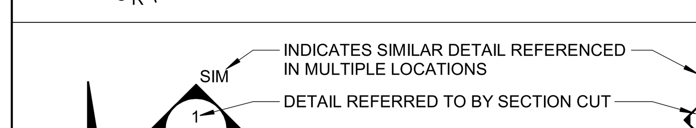
PROJECT #260034

VIEW KEY

NAME ← LEVEL NAME
10'-0" ← HEIGHT ABOVE PROJECT 0'-0"

(1) KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

EQUIPMENT ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	AUTOMATIC DOOR OPERATOR WITH SENSOR
ATM	AUTOMATIC TELLER MACHINE
COF	COFFEE
COPY	COPIER
DB	DOOR BELL
DISP	GARBAGE DISPOSAL
DLVL	DOCK LEVELER
DOOR	DOOR OPERATOR, ELECTRIC
DRY	DRYER, CLOTHS
DW	DISHWASHER
ELEV	ELEVATOR
ELVC	ELEVATOR CAB CONNECTION
ELVD	ELEVATOR AUDIO VISUAL DATA SYSTEM
EPT	ELECTRONIC PAPER TOWEL DISPENSER (NON-BATTERY)
ESP	ESPRESSO MACHINE
EWC	ELECTRIC WATER COOLER
EWCC	ELECTRIC WATER COOLER CONDENSER
FAN	CEILING FAN
FDO	FIRE DOOR OPERATOR
FFE	OWNER FURNISHED FIXTURES, FURNITURE, AND EQUIPMENT
FURN	OWNER FURNITURE
HD	HAND DRYER
HOOD	KITCHEN EXHAUST HOOD
ICE	ICE MACHINE
MS	MOTORIZED SHADE
MW	MICROWAVE
OHD	OVERHEAD DOOR
OVEN	OVEN, WALL
PFR	PLUMB FIXTURE RECEPT FOR LV VALVE POWER
PP	PUSH PAD AUTOMATIC DOOR OPERATOR (REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION)
PW	POWER WASHER SPECIAL RECEPTACLE
RANGE	ELECTRICAL COOKTOP RANGE
REF	REFRIGERATOR
SIGN	DEDICATED SIGNAGE CIRCUIT
SINK	SCRUB SINK
STOVE	RANGE / OVEN APPLIANCE
TCP	TEMPERATURE CONTROLS PANEL
TRSH	TRASH COMPACTOR
TV	TELEVISION - MONITOR - DISPLAY
UCF	UNDERCOUNTER FREEZER
UCM	UNDERCOUNTER MICROWAVE
UCR	UNDERCOUNTER REFRIGERATOR
VEND	VENDING MACHINE

ELECTRICAL SYMBOL LIST - POWER

SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
E	ECONN	26 05 33	ELECTRICAL CONNECTION - CEILING/SURFACE
E	ECONN	26 05 33	ELECTRICAL CONNECTION - WALL
J	JB	26 05 33	JUNCTION BOX - WALL
	PANEL-'##'	26 24 16	PANELBOARD - SURFACE MOUNT
	DP-#	26 24 16	DISTRIBUTION PANEL
	SB-#	26 23 00	SWITCHBOARD
	TR-#	26 22 00	DRY TRANSFORMER(S)
	GEN-#		GENERATORS
	ATS-#		AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
	DS-#	26 28 16	DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	FDS-#	26 28 16	FUSIBLE DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	LC-#	26 28 21	LIGHTING CONTACTOR, REFER TO CONTACTOR SCHEDULE
M	KWM	26 09 13	ELECTRIC METER

ELECTRICAL SYMBOL LIST - RECEPTACLES

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
#		REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	U	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING
	W	REC-DUP-W	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, 125V - NEMA 3R WHILE IN-USE COVER
		REC-DUP-GFI	26 27 26	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V
#		REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
		REC-QUAD-GFI	26 27 26	QUAD RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V
		PP-#	26 05 33	POWER POLE
#	650	REC-SIM-650R	26 27 26	RECEPTACLE, 6-50R, 250V
	L620	REC-SIM-L620R	26 27 26	RECEPTACLE-LOCKING, L6-20R, 250V
		FB-#	26 27 26	ELECTRICAL FLOOR BOX
		PT-#	26 27 26	ELECTRICAL POKE THROUGH

ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
S		SW-1P	26 09 33	SWITCH - SINGLE POLE
	D	SW-D	26 09 33	DIMMER - STAND ALONE
	DO	SW-DO	26 09 33	DIMMER - OCCUPANCY/VACANCY SENSOR (STAND ALONE DUAL TECH)
	O	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR AND SWITCH
# OC		SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			AIMABLE OR WALL WASH LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	T.C.	T.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	T.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. REFER TO T SERIES DRAWINGS FOR DATA, AV, AND TELECOMMUNICATIONS ROUGH-IN LOCATIONS.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E**6.01.**

{#B} LIGHTING CONTROL STATION. THE "#" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). PRESS AND HOLD BUTTONS FOR DIMMING ARE NOT ACCEPTABLE. CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

{z##} INDICATES ZONING AND REFLECTS A LIGHTING CONTROL GROUP. PROVIDE RELAYS AS REQUIRED TO ALLOW LUMINAIRES WITHIN THE DEFINED ZONE TO FUNCTION TOGETHER.

LIGHTING CONTROL SUBSCRIPTS:
1. LOWER CASE ALPHA SUBSCRIPTS “a, b, c” INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR {#B} ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.
2. LOWER CASE ALPHA NUMERIC SUBSCRIPTS “z1, z2, z3” INDICATE NETWORK BASED LIGHTING CONTROL SYSTEM.

EMERGENCY LIGHTING OVERRIDE CONTROL (UL924 AND UL1008): LIGHTING CONTROL EQUIPMENT COUPLED WITH REMOTE EMERGENCY POWER SOURCES (EXTERNAL TO THE LUMINAIRE) REQUIRE ALCR (UL924) OR BCELTS (UL1008) DEVICES FOR EMERGENCY (LIFE SAFETY) COMPLIANCE. AN EMERGENCY LIGHTING CONTROL BYPASS IS REQUIRED FOR EVERY INDIVIDUAL LIGHTING CONTROL ZONE-CIRCUIT BUT NOT SHOWN ON THE PLANS. REFER TO THIS SPECIFICATION FOR ALCR AND BCELTS DESCRIPTIONS. REFER TO THE SEQUENCE OF OPERATION LIGHTING CONTROL DESCRIPTIONS ON THE PLANS FOR ADDITIONAL REQUIREMENTS.

REFER TO SHEET E6.01 FOR LUMINAIRE SCHEDULE

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASR	ARCHITECTURAL SURFACE RACEWAY
BC	BELOW COUNTER
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
GFR	GROUND FAULT REMOTE
HOA	HAND/OFF/AUTO
ITR	IT RACK MOUNTED RECEPTACLE
NC	NORMALLY CLOSED
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
3. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
5. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
2. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
3. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
4. PROVIDE TEMPORARY LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
   A. EXAMPLE SYMBOL “S”, SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT “a” WITHIN THE SAME SPACE.
   D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {LC##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.

F# / a — LUMINAIRE; a / S — CONTROL

LUMINAIRE CIRCUIT AND CONTROL KEY

LUMINAIRE

F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
z1=ZONE DESIGNATION
"NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
"SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

LUMINAIRE SHADING KEY

NORMAL BRANCH LUMINAIRE

EMERGENCY EGRESS LUMINAIRE

SHADED LUMINAIRE INDICATES LUMINAIRE CONTAINS BATTERY BACKUP.

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST PUBLISHED ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA STANDARDS FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION. REFER TO THE ARCHITECTURAL DRAWINGS ACCESSIBILITY STANDARDS.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
7. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
8. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS,CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
10. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
13. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
15. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE — # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
SM	SURFACE MOUNTED
WG	WIRE GUARD
+#"	MOUNT AT #" TO CENTERLINE ABOVE FINISHED FLOOR

SHADED DEVICE INDICATES DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT. PROVIDE EMERGENCY RECEPTACLES WITH RED COVER PLATES.

DEVICE E

PROJECT ALTITUDE:	1,316.00 FT. ABOVE SEA LEVEL

ELECTRICAL SHEET INDEX

E0.00	ELECTRICAL COVERSHEET
E1.01	ELECTRICAL DEMOLITION PLAN - LEVEL 01
E1.02	ELECTRICAL DEMOLITION PLAN - LEVEL 02
E2.00	ELECTRICAL SITE PLAN
E2.11B	LIGHTING PLAN - ZONE B - LEVEL 01
E2.12B	LIGHTING PLAN - ZONE B - LEVEL 02 - PHASE 1
E2.21B	POWER PLAN - ZONE B - LEVEL 01
E2.22B	POWER PLAN - ZONE B - LEVEL 02 - PHASE 1
E2.23	POWER PLAN - ZONE B - ROOF - PHASE 1
E4.00	ELECTRICAL DETAILS
E5.00	ELECTRICAL DIAGRAMS
E6.00	ELECTRICAL SCHEDULES
E6.01	ELECTRICAL SCHEDULES
E7.00	ELECTRICAL PANEL SCHEDULES
E7.01	ELECTRICAL PANEL SCHEDULES
EE1.02	ELECTRICAL DEMOLITION PLAN - ZONE B - LEVEL 02 - PHASE 2
EE2.12B	LIGHTING PLAN - ZONE B - LEVEL 02 - PHASE 2
EE2.22B	POWER PLAN - ZONE B - LEVEL 02 - PHASE 2
EE2.23	POWER PLAN - ZONE B - ROOF - PHASE 2
EE6.00	ELECTRICAL SCHEDULES - PHASE 2
EE7.00	ELECTRICAL PANEL SCHEDULES - PHASE 2
GRAND TOTAL: 21	

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2009

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PROJECT #260034

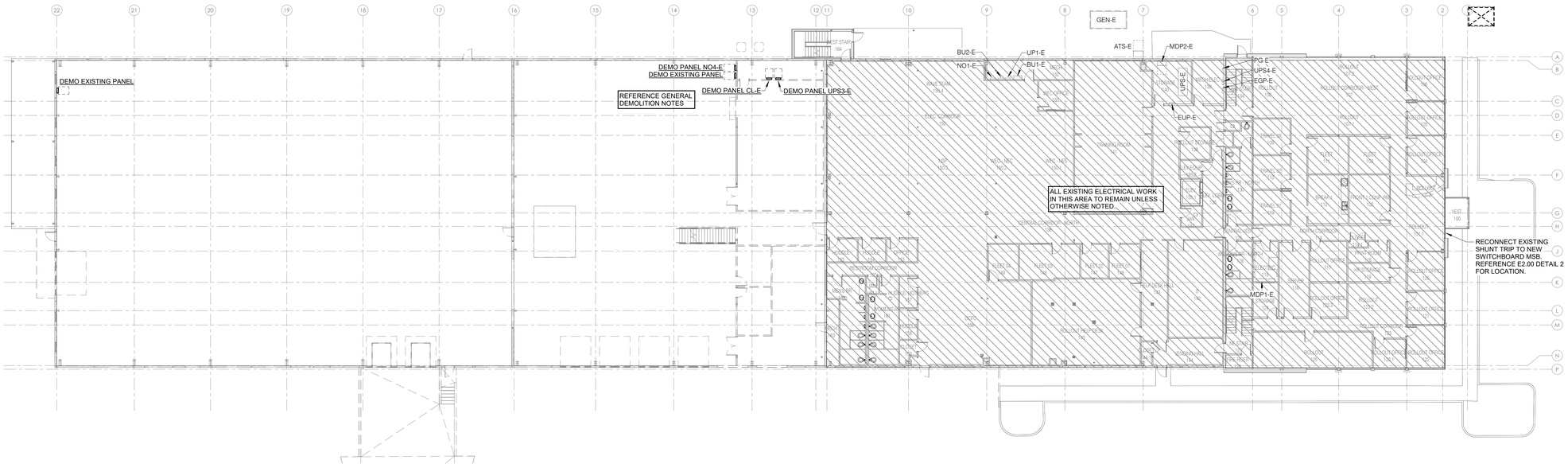
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ELECTRICAL COVERSHEET

design. CD
date. 2026.09.11
project. 25.18

E0.00

GENERAL DEMOLITION NOTES:

1. FOR ALL PANELS MARKED "DEMO": REMOVE PANEL AND ALL CIRCUITS FROM THE SITE. VERIFY PANELS IN THE WAREHOUSE AREA TO BE REMOVED DO NOT INCLUDE CIRCUITS SERVING THE EXISTING OFFICE SPACES OR EXTERIOR EQUIPMENT TO REMAIN. RELOCATE CIRCUITS TO REMAINING PANELS AS NEEDED.
2. REMOVE ALL EXISTING ELECTRICAL WITHIN THE SCOPE OF WORK. THIS INCLUDES ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, JUNCTION BOXES AND ASSOCIATED BRANCH CIRCUITING.
3. WHERE BRANCH CIRCUIT SERVES ELECTRICAL EQUIPMENT TO REMAIN, EC SHALL DISCONNECT PORTION OF CIRCUITING TO BE REMOVED AND SPLICE EXISTING WIRING AS REQUIRED TO MAINTAIN CONTINUITY.



1 LEVEL 01 ELECTRICAL DEMOLITION PLAN

1/16" = 1'-0"

issue for review: 2026.08.05
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contents: ELECTRICAL DEMOLITION PLAN - LEVEL 01
design: CD
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E1.01

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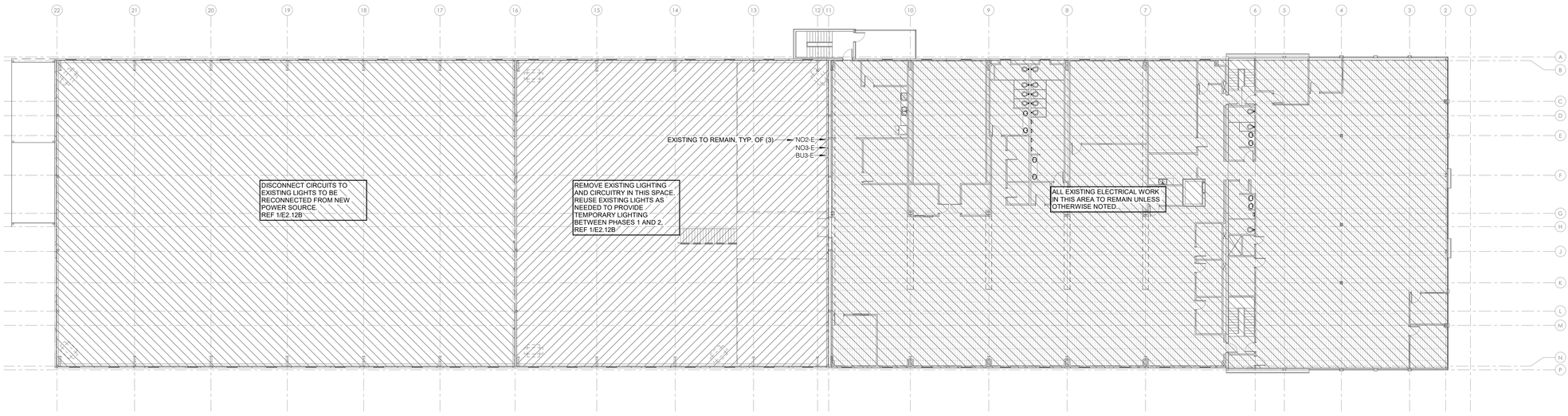
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GENERAL DEMOLITION NOTES:

1. FOR ALL PANELS MARKED "DEMO": REMOVE PANEL AND ALL CIRCUITS FROM THE SITE. VERIFY PANELS IN THE WAREHOUSE AREA TO BE REMOVED DO NOT INCLUDE CIRCUITS SERVING THE EXISTING OFFICE SPACES OR EXTERIOR EQUIPMENT TO REMAIN. RELOCATE CIRCUITS TO REMAINING PANELS AS NEEDED.
2. REMOVE ALL EXISTING ELECTRICAL WITHIN THE SCOPE OF WORK. THIS INCLUDES ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, JUNCTION BOXES AND ASSOCIATED BRANCH CIRCUITING.
3. WHERE BRANCH CIRCUIT SERVES ELECTRICAL EQUIPMENT TO REMAIN, EC SHALL DISCONNECT PORTION OF CIRCUITING TO BE REMOVED AND SPLICE EXISTING WIRING AS REQUIRED TO MAINTAIN CONTINUITY.



1 LEVEL 02 ELECTRICAL DEMOLITION PLAN

1/16" = 1'-0"

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ELECTRICAL DEMOLITION PLAN - LEVEL 02

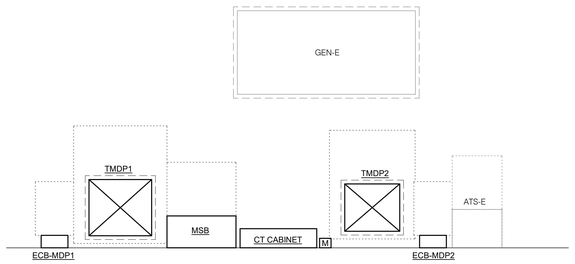
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E1.02

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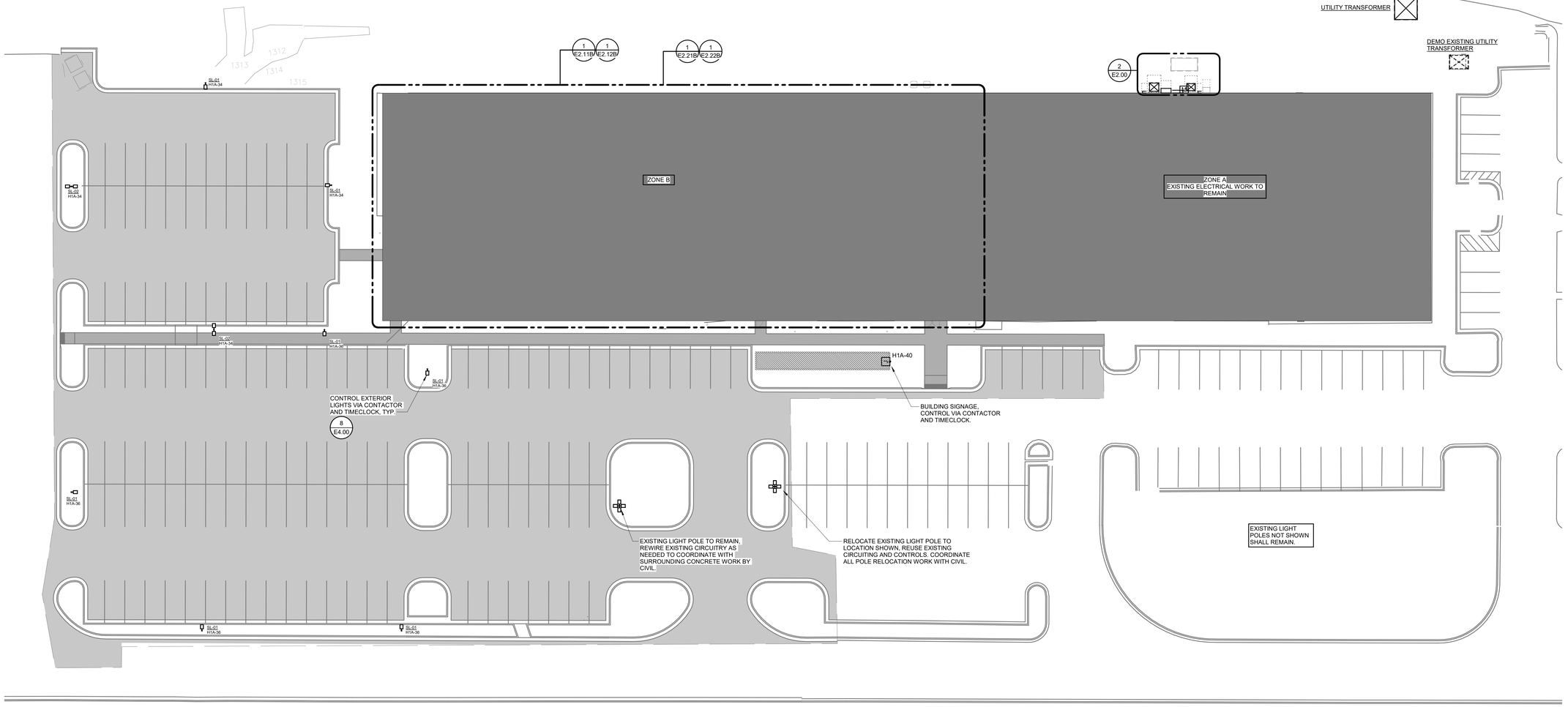
PROJECT #260034



2 SERVICE ENTRANCE EQUIPMENT ENLARGED PLAN

1/4" = 1'-0"

NORTH



1 SITE PLAN

1" = 20'-0"

NORTH

issue for review: 2026.08.05
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ELECTRICAL SITE PLAN

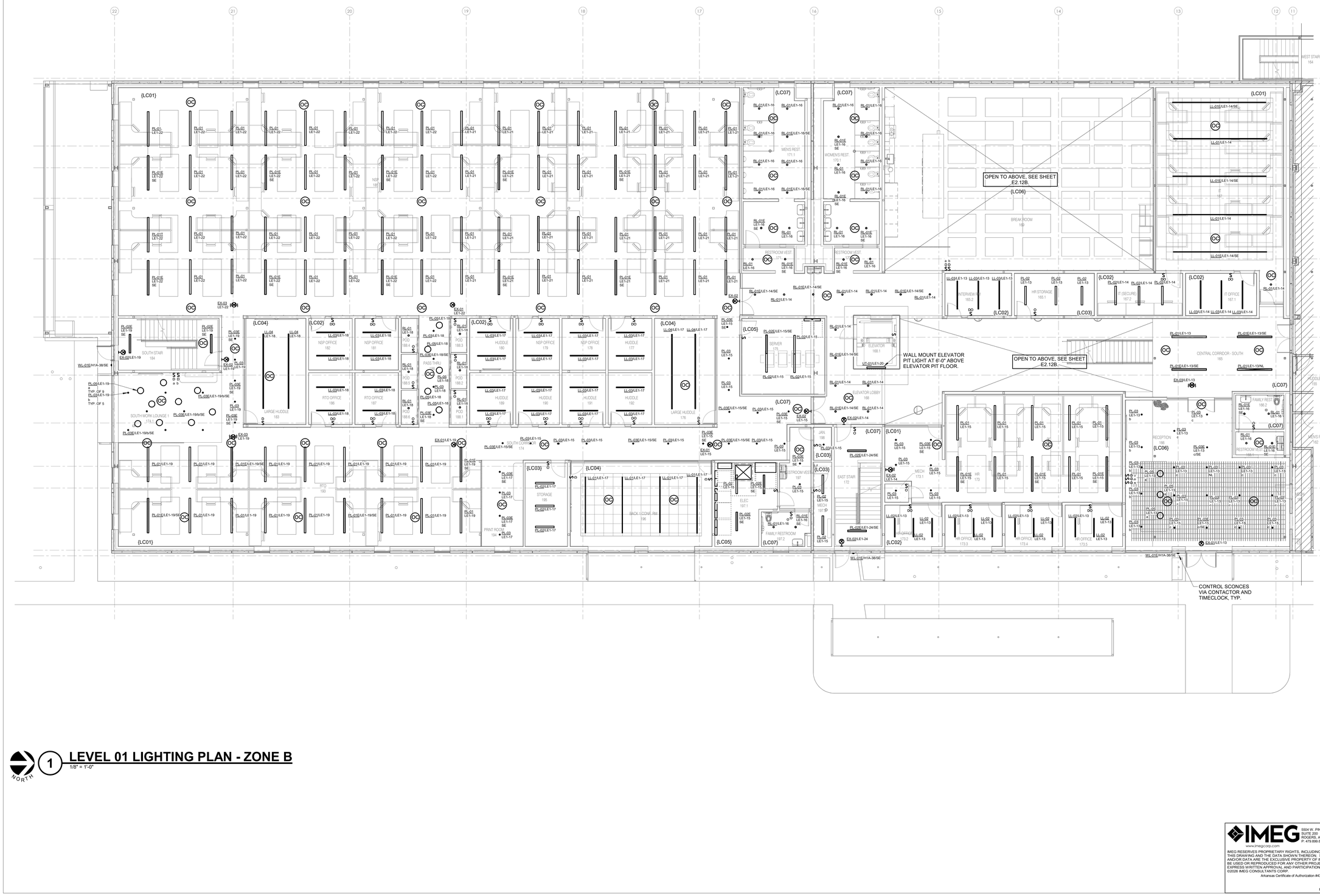
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PROJECT #260034



1 LEVEL 01 LIGHTING PLAN - ZONE B

1/8" = 1'-0"

NORTH

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LIGHTING PLAN - ZONE B - LEVEL 01

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project. 25.18

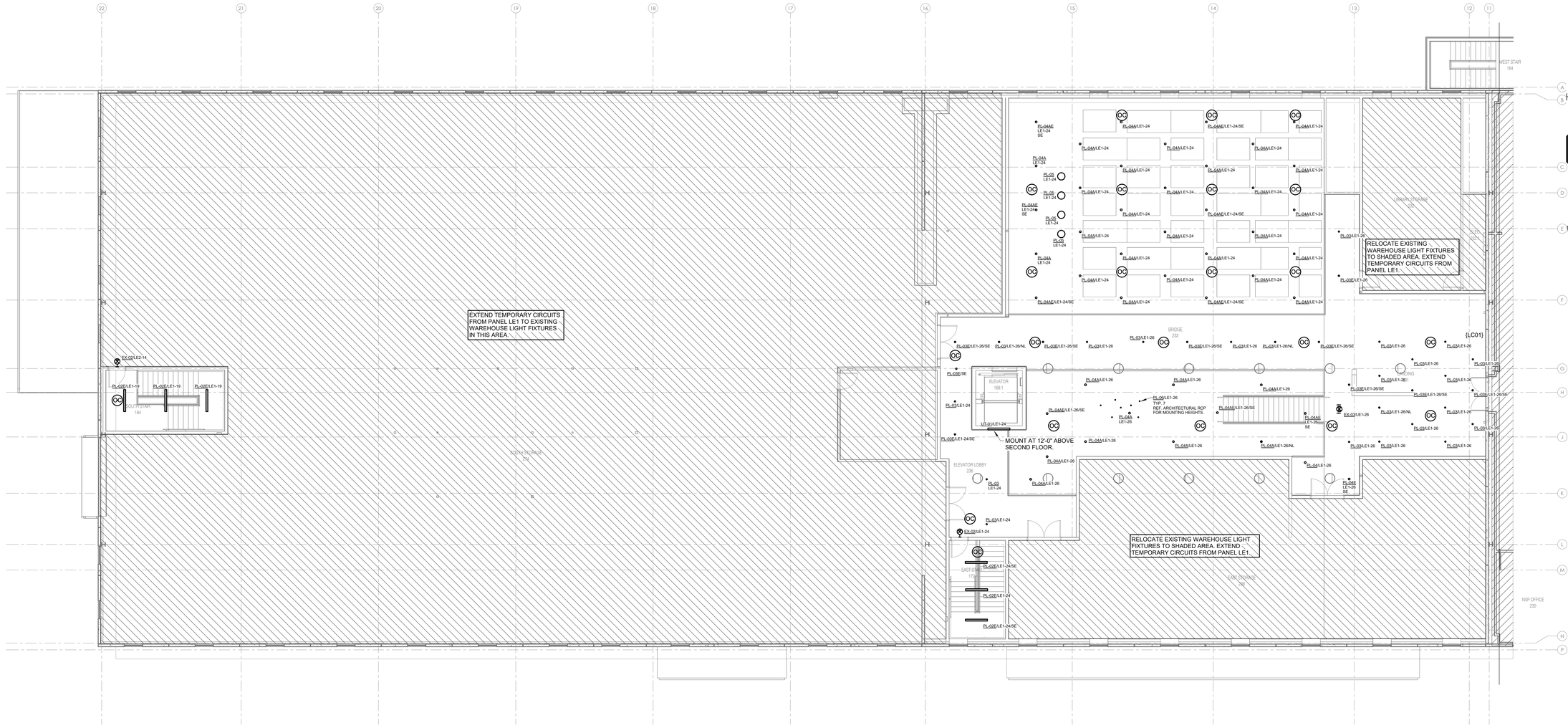
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PROJECT #260034

E2.11B



1 LEVEL 02 LIGHTING PLAN - ZONE B PHASE 1

1/8" = 1'-0"

NORTH

issue for review: 2026.08.05
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revisions:

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LIGHTING PLAN - ZONE B - LEVEL 02 - PHASE 1

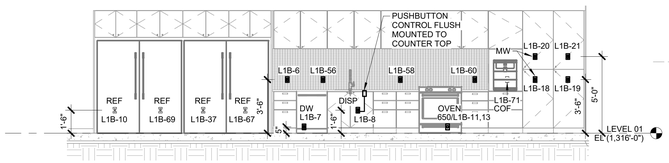
design: CD
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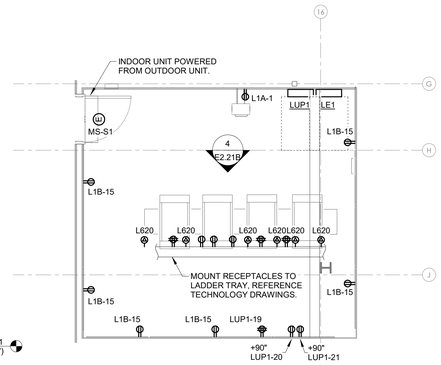
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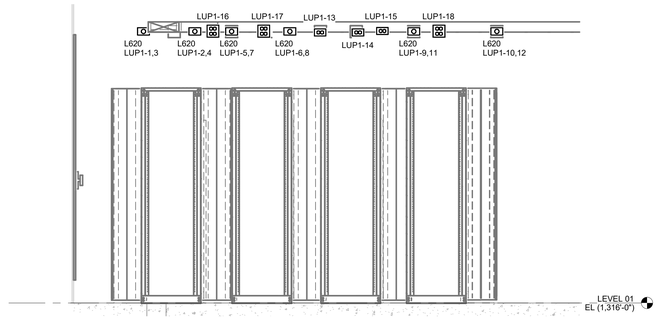
E2.12B



2 BREAKROOM POWER SECTION
1/4" = 1'-0"



3 LEVEL 1 SERVER ENLARGED POWER PLAN
1/4" = 1'-0"



4 1ST FLOOR SERVER POWER ELEVATION
1/2" = 1'-0"

NORTH

ROUTE POWER DOWN POWER POLE TO PROVIDE FURNITURE FEED TO RECEPTACLES. COORDINATE EXACT ROUTING WITH FURNITURE HARDWARE PROVIDER, TYP.

CONFIRM EXACT VENDING MACHINE CONNECTION REQUIREMENTS PRIOR TO INSTALLATION, TYP. 5

PROVIDE JUNCTION BOX FROM INDICATED CIRCUIT FOR FUTURE WALL DECORATION.

SWITCHBOARD MSBS
XFMR TDP
PANEL LDP
PANEL LUP1
PANEL LE1
FDS-ELEV
ELEVATOR H1A-55,57,59
ELEVATOR CAB L1B-36
SERVER 175
INDOOR UNIT POWERED FROM OUTDOOR UNIT.
MS-E1
PANEL H1A
PANEL L1C
PANEL L1B
PANEL L1A
PRINTER
SHREDDER
PLOTTER
DS-EF-2
DS-FCU-1
DS-FCU-2
DS-UH-1
DS-EF-1
DS-WH-2
VAV 1-1 H1A-7,9,11
VAV 1-2 H1A-8,10,12
VAV 1-3 H1A-13,15,17
VAV 1-4 H1A-20,22,24
VAV 1-5 H1A-19,21,23
VAV 1-6 H1A-14,16,18
VAV 1-7 H1A-26,28,30
VAV 1-8 H1A-43,45,47
VAV 1-9 H1A-49,51,53
VAV-1-10 H1A-31,33,35
VAV-1-11 H1A-37,39,41
FCU-1 H1A-1,3,5
FCU-2 H1A-2,4,6
WH-1
WH-2 H1A-32
EF-1 L1B-5
EF-2 L1B-35
CP-1
UH-1/L1B-53,55
COFFEE MAKER
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SOUTH STAIR 184
CENTRAL CORRIDOR - SOUTH 165
SOUTH WORK LOUNGE 1 174.1
LARGE HUDDLE 183
NSP 185
NSP OFFICE 181
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NSP OFFICE 177
HUDDLE 177
HUDDLE 192
HUDDLE 190
HUDDLE 189
LARGE HUDDLE 176
POD 188.4
POD 188.3
POD 188.5
POD 188.6
POD 188.2
POD 188.1
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SOUTH CORRIDOR 174
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PRINT ROOM 194
RTO 193
RTO OFFICE 191
RTO OFFICE 187
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WOMEN'S REST. 170.1
RESTROOM VEST. 171
RESTROOM VEST. 170
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RESTROOM 197.1
JAN. 198
MECH 197.3
EAST STAIR 172
BREAK ROOM 169
IT 167
IT (SECURE) 167.2
IT OFFICE 167.1
INTERVIEW RM 165.2
HR STORAGE 165.1
HR 173
HR OFFICE 173.1
HR OFFICE 173.2
HR OFFICE 173.5
MECH 173.1
MECH 155
ELEVATOR 168.1
IT OFFICE 168.2
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RECEPTION 166
BREAK ROOM 177
SERVER 175
JAN. 198
MECH 197.3
EAST STAIR 172
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RESTROOM VEST. 171
RESTROOM VEST. 170
HR 173
HR OFFICE 173.1
HR OFFICE 173.2
HR OFFICE 173.5
MECH 173.1
MECH 155
IT 167
IT (SECURE) 167.2
IT OFFICE 167.1
INTERVIEW RM 165.2
HR STORAGE 165.1
FAMILY REST. 166.2
RECEPTION 166

1 LEVEL 01 POWER PLAN - ZONE B
1/8" = 1'-0"

KEYNOTES
1. E.C. SHALL PROVIDE ROUGH IN FOR 6" FLOOR BOX ON CARPET TILE WITH DUPLEX OUTLET. T.C. SHALL PROVIDE INSERTS FOR DATA. TRENCH EXISTING CONCRETE AS NEEDED TO COMPLETE INSTALLATION.

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POWER PLAN - ZONE B - LEVEL 01

design: CD
date: 2026.09.11
project: 25.18

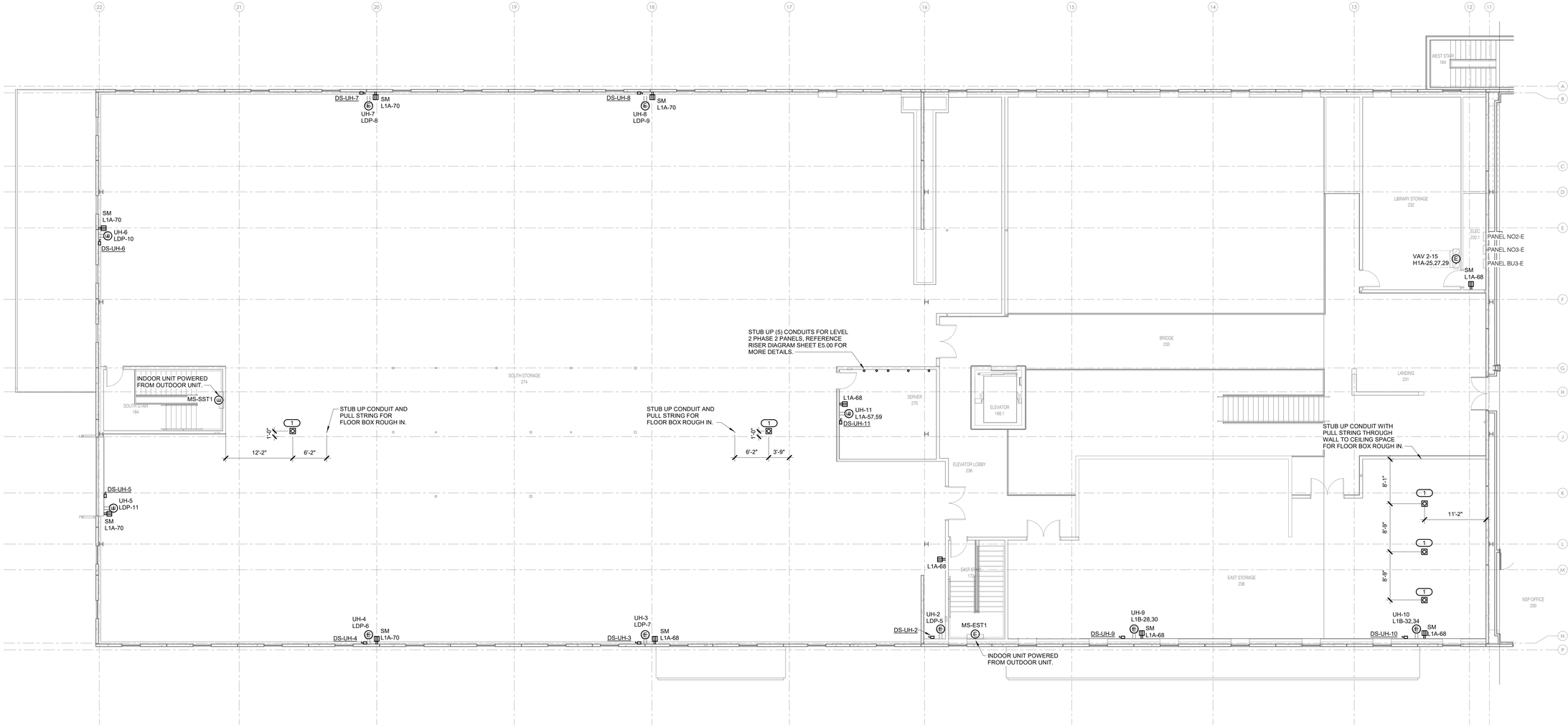
E2.21B

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KEYNOTES
1. E.C. SHALL PROVIDE ROUGH IN FOR 6" FLOOR BOX ON CARPET TILE. PROVIDE CONDUIT WITH PULL STRING TO STUB UP AT THE INDICATED LOCATION.



1 LEVEL 02 POWER PLAN - ZONE B - PHASE 1
1/8" = 1'-0"

NORTH

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contents.
POWER PLAN - ZONE B - LEVEL 02 - PHASE 1

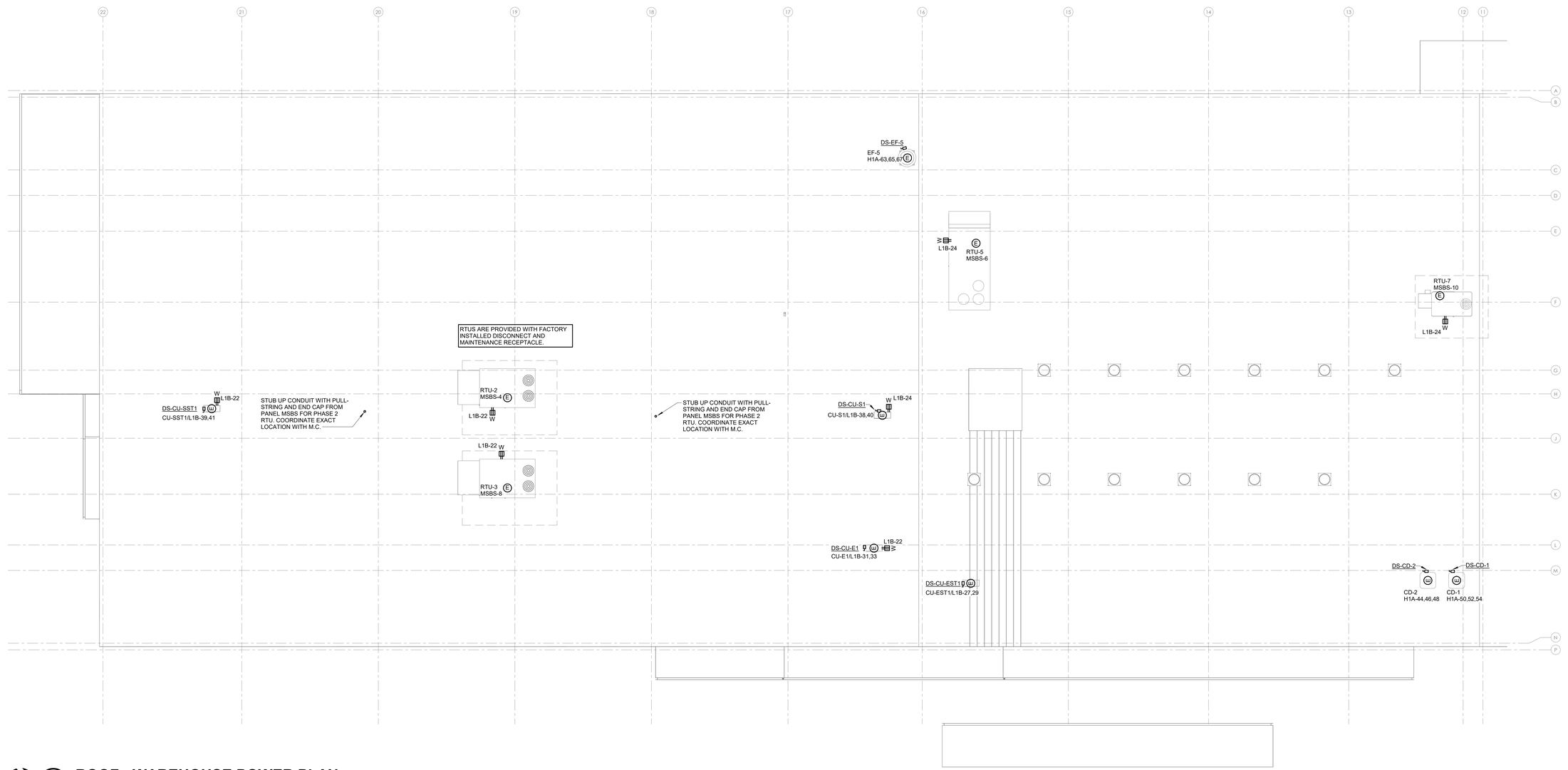
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PROJECT #260034

E2.22B



1 ROOF - WAREHOUSE POWER PLAN

1/8" = 1'-0"

NORTH

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POWER PLAN - ZONE B - ROOF - PHASE 1

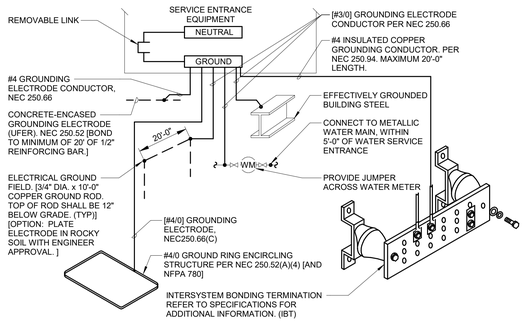
design, CD
date, 2026.09.11
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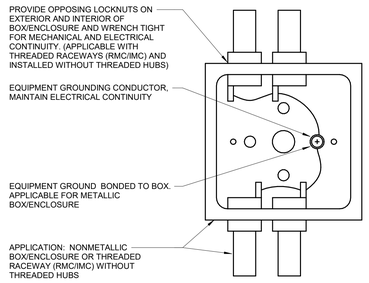
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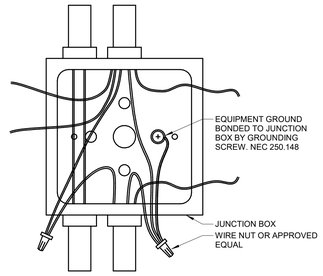
NOTES.

1. 1. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING

1 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE

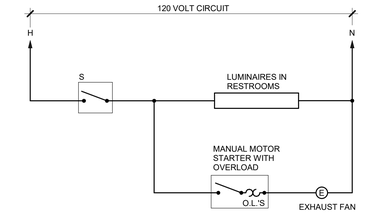


MALLEABLE GROUNDING INSULATED BUSHING MGIB REQUIRED APPLICATION

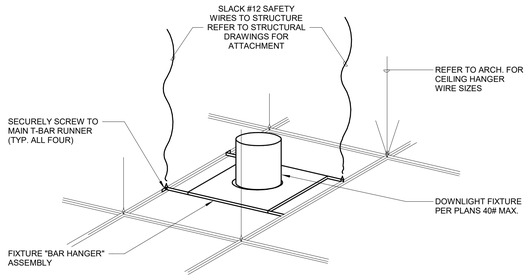


TYPICAL CONDUIT WITH LISTED CONNECTOR APPLICATION

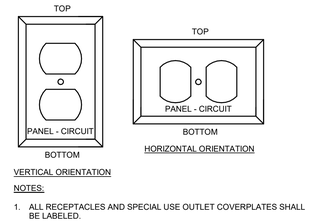
2 JUNCTION BOX GROUNDING DETAIL
NO SCALE



3 EXHAUST FAN CONTROL (1 POLE)
NO SCALE



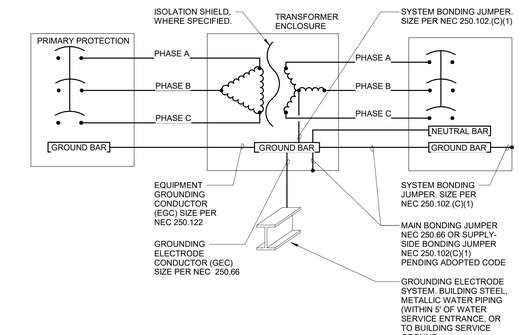
4 RECESSED DOWNLIGHT IN ACOUSTIC CEILING TILE DETAIL
NO SCALE



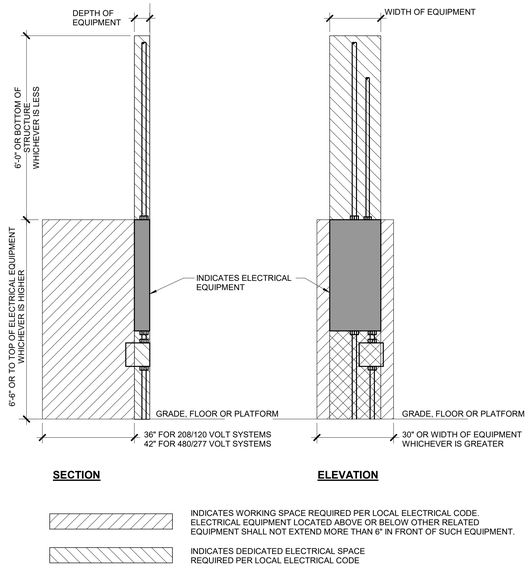
NOTES:

1. ALL RECEPTACLES AND SPECIAL USE OUTLET COVERPLATES SHALL BE LABELED.

5 WIRING DEVICE COVERPLATE LABELING DETAIL
NO SCALE



6 TRANSFORMER WIRING DETAIL
NO SCALE

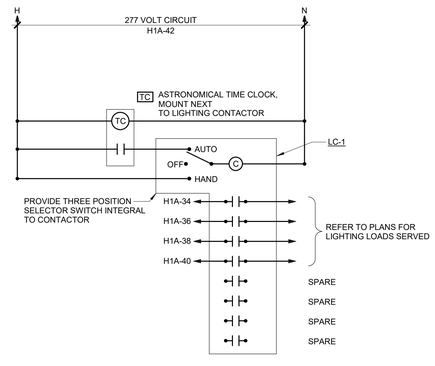


SECTION **ELEVATION**

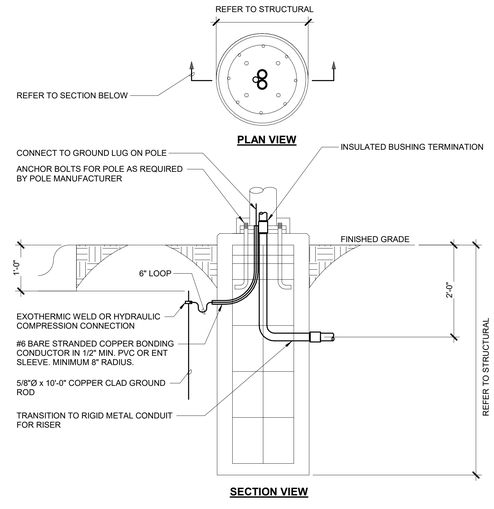
INDICATES WORKING SPACE REQUIRED PER LOCAL ELECTRICAL CODE. ELECTRICAL EQUIPMENT LOCATED ABOVE OR BELOW OTHER RELATED EQUIPMENT SHALL NOT EXTEND MORE THAN 6" IN FRONT OF SUCH EQUIPMENT.

INDICATES DEDICATED ELECTRICAL SPACE REQUIRED PER LOCAL ELECTRICAL CODE

7 PANELBOARD OR CABINET MOUNTING DETAIL
NO SCALE



8 EXTERIOR LIGHTING CONTROL DETAIL
NO SCALE



9 POLE BASE DETAIL
NO SCALE

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ELECTRICAL DETAILS

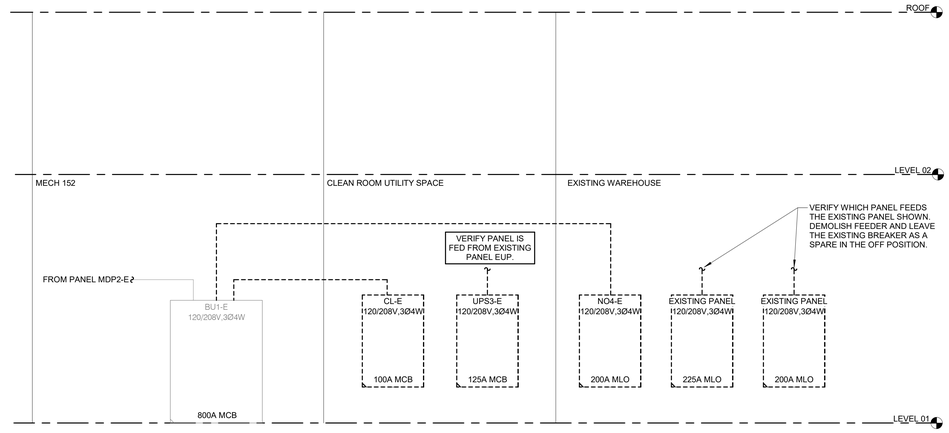
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2 RISER DIAGRAM
NO SCALE

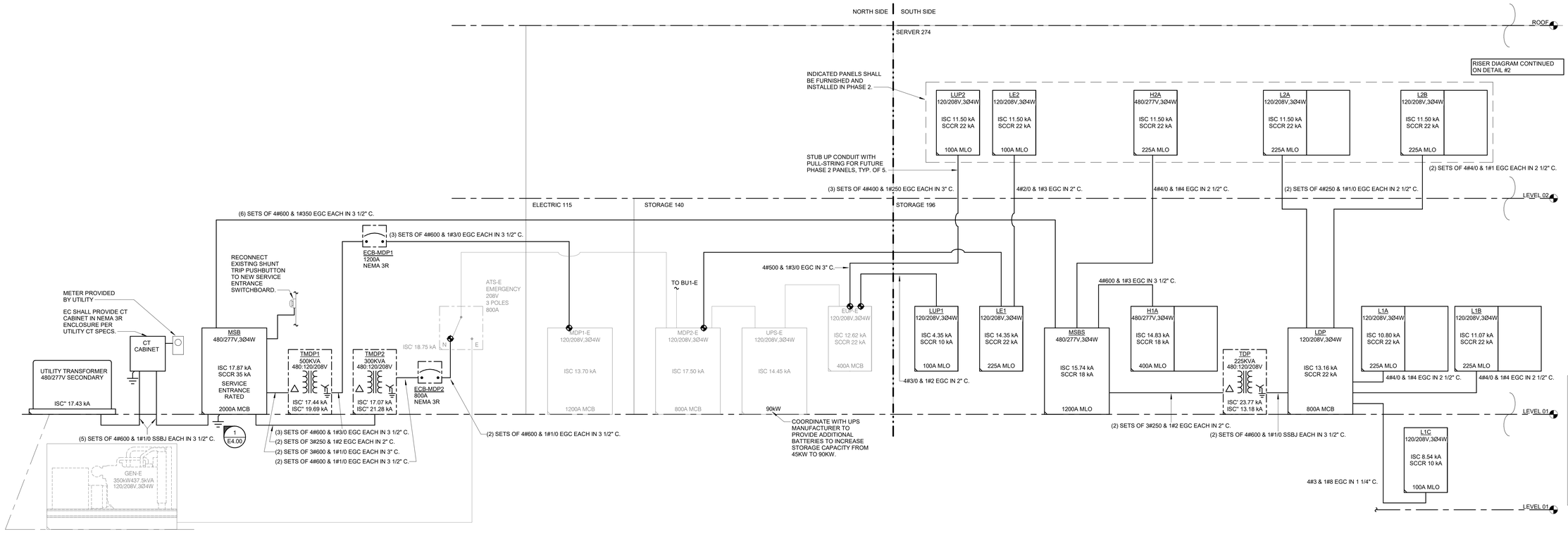
CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	PVC CONCRETE ENCASED	RTRC	PVC COATED RMC	HDPE	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X						
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X						
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X						
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X						
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X						
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X					X			
CORROSIVE LOCATIONS						X	X		
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X			X					
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X						
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X						
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X						X
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)									
WITHIN THE PERIMETER OF THE BUILDING, UNDER SLAB ON GRADE	X			X					
WITHIN 5' OF ANY BUILDING WALL OR FOUNDATION WHEN PENETRATING THE STRUCTURAL FOUNDATION OR WALL	X				X	X			
UNDERGROUND SITE CONDUITS:									
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X	X			
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X		X			
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT				X	X		X	X	
DUCTBANKS (REFER TO DUCTBANK DETAILS WHEN APPLICABLE)									
REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED TWELVE INCHES ON CENTERS.					X	?			
BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND ROADS, DRIVES, TRAVELED WAYS, ETC.					X	?			
PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF REINFORCING.					X	?			
ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE PAVERS ON 3' CENTERS.					X	?			
HAZARDOUS (CLASSIFIED LOCATIONS AS DEFIED BY THE NATIONAL ELECTRICAL CODE: COMPLETE WITH SCREWED FITTINGS AND CONDUIT SEALS	X								
FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY						X			
DEFINITIONS:									
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.									

ELECTRICAL - RISER DIAGRAM NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION / PANEL / EQUIPMENT / EQUIPMENT CONNECTION SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUSS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
3. TRANSFER SWITCHES (SCCR) RATINGS ARE INTENDED AS WITHSTAND AND CLOSE RATINGS (WCR).
4. THE BASIS OF DESIGN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED AMPACITY OF THE BASIS OF DESIGN CIRCUITS WHEN ALTERNATIVE METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE APPLIED. THE BASIS OF DESIGN IS COPPER CONDUCTOR UNLESS OTHERWISE SCHEDULED OR ALLOWED PER SPECIFICATION. ALUMINUM AND COPPER-CLAD ALUMINUM CONDUCTORS ARE NOT ALLOWED FOR THE PROJECT.
   a. RACEWAY: EMT UNLESS OTHERWISE NOTED
   b. FEEDER CHARACTERISTICS: ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. CONDUCTOR SIZES ARE BASED ON AMERICAN WIRE GAUGE AWG AND KCMIL THOUSANDS OF CIRCULAR MIL. REFER TO SPECIFICATION SECTION 26 05 13 WIRE AND CABLE FOR ADDITIONAL INFORMATION
   c. GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
   d. CONDUCTORS (MOTORS): COPPER
   e. CONDUCTOR LENGTHS LISTED IN RISER DIAGRAMS AND SCHEDULES ARE FOR ENGINEERING CALCULATIONS AND SHALL NOT BE USED FOR BIDDING PURPOSES.
   f. [AL] INDICATES ALUMINUM CONDUCTOR
   g. [BLANK] OR [CU] INDICATES COPPER CONDUCTOR
   h. [CI] INDICATES CIRCUIT INTEGRITY CIRCUIT. FEEDER ROUTED OUTSIDE BUILDING OR 2 HOUR FIRE RATED.
5. PROVIDE GROUNDING ELECTRODE AND BONDING SYSTEM PER CODE REQUIREMENTS. PROVIDE THE FOLLOWING MINIMUM CONNECTIONS AND COMPONENTS. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING AND DETAILS WHEN APPLICABLE:
   a. ELECTRICAL GROUND FIELD
   b. CONCRETE-ENCASED GROUNDING ELECTRODE (UFER)
   c. METALLIC WATER MAIN
   d. BUILDING STEEL, EFFECTIVELY GROUNDED
   e. INTERSYSTEM BONDING TERMINAL [IBT]
   f. GROUND RING ENCIRCLING STRUCTURE
6. DRY TYPE TRANSFORMER AND SEPARATELY DERIVED SYSTEMS. PROVIDE GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM. ROUTE TO STRUCTURAL BUILDING STEEL WHEN AVAILABLE. OTHERWISE ROUTE TO MAIN GROUNDING ELECTRODE SYSTEM.
7. PROVIDE MALLEABLE INSULATED GROUNDING BUSHING MGIB FOR ALL SERVICE AND FEEDER RACEWAYS BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY, OZ GEDNEY OR EQUAL.
8. CONDUCTORS AND GROUND SIZES ON THE LINE AND LOAD SIDES OF ALL DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
9. REFER TO COVER SHEET FOR ADDITIONAL EQUIPMENT TAG INFORMATION (SPD-#, M-#, ETC).
10. REFER TO GROUNDING ELECTRODE SYSTEM AND BONDING DETAILS
    a. EGC – EQUIPMENT GROUNDING CONDUCTOR
    b. GEC – GROUNDING ELECTRODE CONDUCTOR
    c. SSBJ – SUPPLY SIDE BONDING JUMPER
11. CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
    a. [CB] INDICATES CIRCUIT BREAKER
    b. [FU] INDICATES FUSED SWITCH
    c. [NF] INDICATES NON-FUSED SWITCH
    d. [MLO] INDICATES MAIN LUG ONLY
    e. [MCB] INDICATES MAIN CIRCUIT BREAKER
    f. [MCCB] INDICATES MOLDED CASE CIRCUIT BREAKER
    g. [LSIGM] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT METER (CBM)]
    h. [LSIA] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT ALARM (NO GROUND FAULT TRIP)]
    i. [GF] INDICATES GROUND FAULT RELAY
    j. [AER] INDICATES ARC ENERGY REDUCTION SYSTEM
    k. [100% RATED] INDICATES INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE
    l. [DRAW] INDICATES DRAWOUT DEVICES
    m. [LOCK] INDICATES PADLOCK HASP
    n. [RED] INDICATES RED HANDLE
    o. [SHUNT] INDICATES SHUNT TRIP BREAKER
    p. [KIRK] CAPTURED KEY INTERLOCK SWITCH



1 RISER DIAGRAM
NO SCALE

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions: mark date description

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IMEG
ESI
wachter

NOT FOR CONSTRUCTION

WACHTER

REFER TO SHEETS G0.00 - G0.03 FOR ALL GENERAL NOTES RELATIVE TO THE SCOPE OF WORK AND TYPES OF DRAWINGS, ELEMENTS, AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED TRADE PACKAGES (DIVISION 00) FOR ALL CONTRACTOR PROJECT REQUIREMENTS, WITHOUT EXCEPTION. **ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS** (INCLUDING SHEETS, DRAWINGS, GENERAL NOTES, SPECIFICATIONS, ETC.) AS PROVIDED BY THE ARCHITECT OR ANY OTHER CONSULTANT.

contents: ELECTRICAL DIAGRAMS
design. CD
date. 2026.09.11
project. 25.18

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PROJECT #260034

E5.00

ELECTRICAL DISTRIBUTION SCHEDULE

ITEM	VOLTAGE	MAINS RATING / XFMR RATING	FEEDER: UPSTREAM OCPD OR TERMINATION	FEEDER: WIRE AND RACEWAY	CIRCUIT LENGTH	CONNECTED LOAD	ESTIMATED DEMAND LOAD	CONNECTED CURRENT	ESTIMATED DEMAND CURRENT	ESTIMATED ISC	SCCR	VOLTAGE DROP: FEEDERS: FEEDER VOLTAGE DROP	VOLTAGE DROP: FEEDERS: UPSTREAM FEEDERS VOLTAGE DROP	VOLTAGE DROP: FEEDERS: TOTAL FEEDER VOLTAGE DROP	VOLTAGE DROP: BRANCH CIRCUITS: MAX BRANCH VOLTAGE DROP	VOLTAGE DROP: BRANCH CIRCUITS: TOTAL VOLTAGE DROP AT MAX BRANCH	LEVEL	LOCATION	COMMENTS
MSB	480/277V, 3Ø4W	2,000 MCB	2,000	(5) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	127'-9"	1111.85 kVA	1057.85 kVA	1,337.3	1,272.4	17.87 kA	35 kA	0.60%		0.60%	2.91%	0.60%	LEVEL 01		
MSBS	480/277V, 3Ø4W	1,200 MLO	1,200	(6) SETS OF 4#600 & 1#350 EGC EACH IN 3 1/2" C.	297'-11"	819.56 kVA	734.13 kVA	985.8	883	15.74 kA	18 kA	0.75%	0.60%	1.35%	1.97%	3.32%	LEVEL 01	ELEC 196	
H1A	480/277V, 3Ø4W	400 MLO	400	4#600 & 1#3 EGC IN 3 1/2" C.	25'-7"	182.49 kVA	182.49 kVA	219.5	219.5	14.83 kA	18 kA	0.13%	1.35%	1.48%	2.37%	3.85%	LEVEL 01	ELEC 196	
TDP	480:120/208V, 3Ø4W	225 kVA	500	(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	24'-9"	260.91 kVA	175.48 kVA	724.2	487.1	23.77 kA PRIMARY, 13.18 kA SECONDARY		0.09%	1.35%	1.44%		1.44%	LEVEL 01	ELEC 196	
LDP	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	15'-1"	260.91 kVA	175.48 kVA	724.2	487.1	13.16 kA	22 kA	0.20%	1.44%	1.64%	2.84%	4.48%	LEVEL 01	ELEC 196	
L1A	120/208V, 3Ø4W	225 MLO	225	4#4/0 & 1#4 EGC IN 2 1/2" C.	27'-0"	48.67 kVA	33.60 kVA	135.1	93.3	10.80 kA	22 kA	0.30%	1.64%	1.94%	2.89%	4.83%	LEVEL 01	ELEC 196	
L1B	120/208V, 3Ø4W	225 MLO	225	4#4/0 & 1#4 EGC IN 2 1/2" C.	23'-4"	82.46 kVA	67.41 kVA	228.9	187.1	11.07 kA	22 kA	0.28%	1.64%	1.92%	2.99%	4.91%	LEVEL 01	ELEC 196	
L1C	120/208V, 3Ø4W	100 MLO	100	4#3 & 1#8 EGC IN 1 1/4" C.	21'-4"	25.38 kVA	17.69 kVA	70.4	49.1	8.54 kA	10 kA	0.36%	1.64%	2.00%	2.87%	4.87%	LEVEL 01	ELEC 196	
TMDP1	480:120/208V, 3Ø4W	500 kVA	800	(2) SETS OF 3#600 & 1#1/0 EGC EACH IN 3" C.	17'-5"	78.2 kVA	97.75 kVA	217.1	271.3	17.44 kA PRIMARY, 19.69 kA SECONDARY		0.08%	0.60%	0.68%		0.68%	LEVEL 01		
ECB-MDP1	120/208V, 3Ø4W	1,200 MCB	1,200	(3) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	18'-1"	78.2 kVA	97.75 kVA	217.1	271.3	18.79 kA	22 kA	0.21%	0.68%	0.89%		0.89%			
MDP1-E	120/208V, 3Ø4W	1,200 MCB	1,200	(3) SETS OF 4#600 & 1#3/0 EGC EACH IN 3 1/2" C.	150'-3"	78.2 kVA	97.75 kVA	217.1	271.3	13.70 kA	22 kA	1.74%	0.89%	2.63%	2.97%	5.60%	LEVEL 01	ELECTRIC 115	
TMDP2	480:120/208V, 3Ø4W	300 kVA	500	(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	23'-9"	214.09 kVA	230.97 kVA	594.2	641.1	17.07 kA PRIMARY, 21.28 kA SECONDARY		0.11%	0.60%	0.71%		0.71%	LEVEL 01		
ECB-MDP2	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	12'-1"	214.09 kVA	230.97 kVA	594.2	641.1	20.24 kA	42 kA	0.14%	0.71%	0.85%		0.85%	LEVEL 01		
ATS-E	120/208V, 3Ø4W	800	800 NORMAL, 800	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. NORMAL, (2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. STANDBY	20'-0"	214.09 kVA	230.97 kVA	594.2	641.1	18.75 kA NORMAL, 0.00 kA STANDBY	22 kA	0.23%	0.85%	1.08%		1.08%	LEVEL 01		
MDP2-E	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C.	19'-5"	214.09 kVA	230.97 kVA	594.2	641.1	17.50 kA	22 kA	0.22%	1.08%	1.30%	2.35%	3.65%	LEVEL 01	STORAGE 140	
LE1	120/208V, 3Ø4W	225 MLO	225	(3) SETS OF 4#400 & 1#250 EGC EACH IN 3" C.	274'-5"	39.17 kVA	35.08 kVA	108.7	97.4	14.35 kA	22 kA	0.72%	1.30%	2.02%	2.82%	4.84%	LEVEL 01	SERVER 174	
UPS-E	120/208V, 3Ø4W	400 MLO	400	4#600 & 1#3 EGC IN 3 1/2" C.	31'-5"	59.89 kVA	57.10 kVA	166.2	158.5	14.45 kA	22 kA	0.36%	1.30%	1.66%		1.66%	LEVEL 01	STORAGE 140	
EUP-E	120/208V, 3Ø4W	400 MCB	400	4#600 & 1#3 EGC IN 3 1/2" C.	26'-11"	59.89 kVA	57.10 kVA	166.2	158.5	12.62 kA	22 kA	0.31%	1.66%	1.97%	2.07%	4.04%	LEVEL 01	STORAGE 140	
LUP1	120/208V, 3Ø4W	100 MLO	100	4#3/0 & 1#2 EGC IN 2" C.	265'-8"	18.42 kVA	17.04 kVA	51.1	47.3	4.35 kA	10 kA	1.66%	1.97%	3.63%	0.60%	4.23%	LEVEL 01	SERVER 174	

ELECTRICAL CONNECTION SCHEDULE

	ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTOR	MOTORS: QTY @ HP	MOTORS: QTY @ HP	MOTORS: QTY @ HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT: BY	DISCONNECT: TYPE	CONTROLLER / STARTER: BY	CONTROLLER / STARTER: TYPE	COMMENTS
	MS-E1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.21 kVA	0	1	15	0	No			4	0					INDOOR UNIT POWERED FROM OUTDOOR UNIT, PROVIDE WIRING PER MANUFACTURERS RECOMMENDATIONS.
	MS-EST1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.21 kVA	0	1	15	0	No			4	0					INDOOR UNIT POWERED FROM OUTDOOR UNIT, PROVIDE WIRING PER MANUFACTURERS RECOMMENDATIONS.
	MS-S1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.21 kVA	0	1	15	0	No			4	0					INDOOR UNIT POWERED FROM OUTDOOR UNIT, PROVIDE WIRING PER MANUFACTURERS RECOMMENDATIONS.
	MS-SST1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.21 kVA	0	1	15	0	No			4	0					INDOOR UNIT POWERED FROM OUTDOOR UNIT, PROVIDE WIRING PER MANUFACTURERS RECOMMENDATIONS.
H1A																								
	CD-1		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	6.65 kVA	0	8	15	15	No	50,52,54	3#12 & 1#12 EGC IN 3/4" C.	1,382	0	EC	NF			
	CD-2		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	6.65 kVA	0	8	15	15	No	44,46,48	3#12 & 1#12 EGC IN 3/4" C.	1,418.3	0	EC	NF			
	SF-5		480, 3Ø	Power	Yes	1 @ 1	0 - 0	0 - 0	0	1.75 kVA	2.1	2.6	15	15	No	63,65,67	3#12 & 1#12 EGC IN 3/4" C.	1,631.3	0	EC	NF			
	ELEVATOR		480, 3Ø	Power	Yes	1 @ 30	0 - 0	0 - 0	0	33.26 kVA	40	50	80	70	No	55,57,59	4#6 & 1#8 EGC IN 1" C.	6,326.7	0	EC	FU			
	FCU-1		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	6.65 kVA	8	14	15	15	No	1,3,5	3#12 & 1#12 EGC IN 3/4" C.	3,218.7	0	EC	NF			
	FCU-2		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	11.64 kVA	0	14	15	15	No	2,4,6	3#12 & 1#12 EGC IN 3/4" C.	1,562.8	0	EC	NF			
	VAV 1-1		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	7,9,11	3#12 & 1#12 EGC IN 3/4" C.	1,658.2	0	MFR	NF			
	VAV 1-2		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	8,10,12	3#12 & 1#12 EGC IN 3/4" C.	2,460	0	MFR	NF			
	VAV 1-3	SOUTH CORRIDOR-1 173-1	480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	13,15,17	3#12 & 1#12 EGC IN 3/4" C.	3,298.8	0	MFR	NF			
	VAV 1-4		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	4	4.64 kVA	5.6	6	15	15	No	20,22,24	3#12 & 1#12 EGC IN 3/4" C.	2,062.5	0	MFR	NF			
	VAV 1-5		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	1.5	2.14 kVA	2.6	2.3	15	15	No	19,21,23	3#12 & 1#12 EGC IN 3/4" C.	2,280.2	0	MFR	NF			
	VAV 1-6	SOUTH CORRIDOR-1 173-1	480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	14,16,18	3#12 & 1#12 EGC IN 3/4" C.	1,896.9	0	MFR	NF			
	VAV 1-7	SOUTH CORRIDOR-1 173-1	480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	26,28,30	3#12 & 1#12 EGC IN 3/4" C.	2,697.3	0	MFR	NF			
	VAV 1-8		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	11.5	12.94 kVA	15.6	17.3	20	20	No	43,45,47	3#12 & 1#12 EGC IN 3/4" C.	2,903.2	0	MFR	NF			
	VAV 1-9		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	6	6.64 kVA	8	9	15	15	No	49,51,53	3#12 & 1#12 EGC IN 3/4" C.	4,587.1	0	MFR	NF			
	VAV 2-15		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	5	5.64 kVA	6.8	7.5	15	15	No	25,27,29	3#12 & 1#12 EGC IN 3/4" C.	1,199.5	0	MFR	NF			
	VAV-1-10		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	5	3.64 kVA	4.4	7.5	15	15	No	31,33,35	3#12 & 1#12 EGC IN 3/4" C.	1,176.3	0	MFR	NF			
	VAV-1-11		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	6.14 kVA	7.4	4.5	15	15	No	37,39,41	3#12 & 1#12 EGC IN 3/4" C.	1,442.6	0	MFR	NF			
	WH-2		277, 1Ø	Power	No	0 - 0	0 - 0	0 - 0	5.5	5.54 kVA	0	20	20	20	No	32	2#10 & 1#10 EGC IN 3/4" C.	1,300.1	0	EC	NF	0	0	
L1A																								
	SP-1		120, 1Ø	Power	Yes	1 @ 0.5	0 - 0	0 - 0	0	1.18 kVA	9.8	12.3	20	20	No	50	2#12 & 1#12 EGC IN 3/4" C.	697.7	0	MFR	NF	MFR	FV	
	UH-11		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	57,59	2#12 & 1#12 EGC IN 3/4" C.	0	0	EC	NF			
L1B																								
	CP-1		120, 1Ø	Power	Yes	1 @ 0.17	0 - 0	0 - 0	0	0.53 kVA	4.4	5.5	15	15	No	1	2#12 & 1#12 EGC IN 3/4" C.	934.2	0	EC	NF	MFR	VFD	
	CU-E1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	4.78 kVA	0	23	40	40	No	31,33	2#10 & 1#10 EGC IN 3/4" C.	2,033.5	0	EC	NF			
	CU-EST1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	4.78 kVA	0	23	25	25	No	27,29	2#10 & 1#10 EGC IN 3/4" C.	1,764.1	0	EC	NF			
	CU-S1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	4.78 kVA	0	23	40	40	No	38,40	2#10 & 1#10 EGC IN 3/4" C.	1,528.2	0	EC	NF			
	CU-SST1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	4.78 kVA	0	23	25	25	No	39,41	2#8 & 1#8 EGC IN 3/4" C.	1,135	0	EC	NF			
	EF-1		120, 1Ø	Power	Yes	1 @ 0.04	0 - 0	0 - 0	0	0.53 kVA	4.4	5.5	15	15	No	5	2#12 & 1#12 EGC IN 3/4" C.	354.1	0			EC	MX	
	EF-2		120, 1Ø	Power	Yes	1 @ 0.01	0 - 0	0 - 0	0	0.53 kVA	4.4	5.5	15	15	No	35	2#12 & 1#12 EGC IN 3/4" C.	1,506.7	0			EC	MX	
	ELEVATOR CAB		120, 1Ø	Power	No	0 - 0	0 - 0	0 - 0	0	1.00 kVA	0	0	15	15	No	36	2#12 & 1#12 EGC IN 3/4" C.	585.6	0					
	UH-1		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	53,55	2#12 & 1#12 EGC IN 3/4" C.	1,513.9	0	EC	NF			
	UH-9		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	28,30	2#12 & 1#12 EGC IN 3/4" C.	844.2	0	EC	NF			
	UH-10		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	32,34	2#10 & 1#10 EGC IN 3/4" C.	878.5	0	EC	NF			
	WH-1		120, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.37 kVA	4	0	0	20	No	4	2#12 & 1#12 EGC IN 3/4" C.	1,144.5	0	EC	PLUG	0	0	
LDP																								
	UH-2		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	5	2#12 & 1#12 EGC IN 3/4" C.	1,145.4	0	EC	NF			
	UH-3		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	7	2#12 & 1#12 EGC IN 3/4" C.	1,009.5	0	EC	NF			
	UH-4		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	6	2#10 & 1#10 EGC IN 3/4" C.	988	0	EC	NF			
	UH-5		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	11	2#10 & 1#10 EGC IN 3/4" C.	801.2	0	EC	NF			
	UH-6		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	10	2#8 & 1#8 EGC IN 3/4" C.	903	0	EC	NF			
	UH-7		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	8	2#10 & 1#10 EGC IN 3/4" C.	706.3	0	EC	NF			
	UH-8		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	3	3.00 kVA	14.4	18	20	20	No	9	2#10 & 1#10 EGC IN 3/4" C.	911.1	0	EC	NF			
MSBS																								
	RTU-2		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	33.26 kVA	0	40	50	50	No	4	3#8 & 1#10 EGC IN 3/4" C.	3,408.9	0	MFR	NF			
	RTU-3		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	45.73 kVA	0	55	70	70	No	8	3#6 & 1#8 EGC IN 3/4" C.	4,973.9	0	MFR	NF			
	RTU-5		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	67.31 kVA	0	81	100	100	No	6	3#3 & 1#8 EGC IN 1" C.	7,134.7	0	MFR	NF			
	RTU-7		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	19.95 kVA	0	24	35	35	No	10	3#10 & 1#10 EGC IN 3/4" C.	1,907.8	0	MFR	NF			

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E6.00

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PROJECT #260034

TRANSFORMER SCHEDULE

TYPE:		ACCESSORIES & OPTIONS
K1 - DOE 2016 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		NV - NON-VENTILATED
PE - NEMA PREMIUM EFFICIENCY		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHIELD
		TTM - TRANSFORMER TEMP MONITOR (REFER TO SPECIFICATION 26 09 13)

ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	PRIMARY VOLTS	PRIMARY PH	SECONDARY VOLTS	SECONDARY PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
TDP	225 kVA	K-1	NEMA 1	150	480	3	120/208	3	AL	
TMDP1	500 kVA	K-1	NEMA 3R	150	480	3	120/208	3	AL	
TMDP2	300 kVA	K-1	NEMA 3R	150	480	3	120/208	3	AL	

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	ACCESSORIES & OPTIONS	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING: TYPE	RATING	TRIP RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	STARTER: TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
FDS-ELEV	FU	100	70	480	3			NEMA 1		
DS-FCU-2	NF	30		480	3			NEMA 1		
DS-CD-2	NF	30		480	3			NEMA 3R		
DS-CD-1	NF	30		480	3			NEMA 3R		
DS-CU-SST1	NF	30		208	3			NEMA 3R		
DS-CU-EST1	NF	30		208	3			NEMA 3R		
DS-EF-5	NF	30		480	3			NEMA 1		
DS-EF-1	NF	30		120	1			NEMA 1		
DS-EF-2	NF	30		120	1			NEMA 1		
DS-WH-2	NF	30		277	1			NEMA 1		
DS-UH-1	NF	30		208	3			NEMA 1		
DS-UH-2	NF	30		208	3			NEMA 1		
DS-FCU-1	NF	30		480	3			NEMA 1		
DS-UH-4	NF	30		208	3			NEMA 1		
DS-UH-3	NF	30		208	3			NEMA 1		
DS-UH-7	NF	30		208	3			NEMA 1		
DS-UH-8	NF	30		208	3			NEMA 1		
DS-UH-6	NF	30		208	3			NEMA 1		
DS-UH-5	NF	30		208	3			NEMA 1		
DS-CU-E1	NF	30		208	3			NEMA 3R		
DS-UH-9	NF	30		208	3			NEMA 1		
DS-UH-10	NF	30		208	3			NEMA 1		
DS-UH-11	NF	30		208	3			NEMA 1		
DS-CU-S1	NF	60		208	3			NEMA 3R		

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MTG	DIMENSIONS	LIGHT SOURCE	DELIVERED LUMENS	WATTS	POWER SUPPLY	MANUFACTURER - SERIES	NOTES
EX-01	SINGLE-FACE EXIT SIGN	SP	14 1/2"L X 4 1/2"W X 9"H	LED	0 lm	3 / FIX	120	EVENLITE - SOVIL-EM-G-1M-XX-PC-UC	
EX-02	SINGLE FACE EXIT SIGN	WL	14 1/2"L X 4 1/2"W X 9"H	LED	0 lm	3 / FIX	120	EVENLITE - SOVIL-EM-G-1M-XX-SW-UC	
EX-03	DOUBLE-FACE EXIT SIGN	SP	14 1/2"L X 4 1/2"W X 9"H	LED	0 lm	3 / FIX	120	EVENLITE - SOVIL-EM-G-2M-XX-PC-UC	
LL-01	GRID MOUNTED LINEAR	RE	VAR.L X 1 3/8"W X 3/4"H	LED	498 lm/FT	7 / FT	120	VODE - 707-ZZ-SL-Z'-24-XX-RPXX-AE-2-ZZ-Z-SO-XX-F5-0-XX	PROVIDE FIXTURE IN 2' INCREMENTS FOR TOTAL LENGTHS SHOWN ON THE LIGHTING PLANS.
LL-01E	GRID MOUNTED LINEAR BATTERY	RE	240"L X 1 3/8"W X 3/4"H	LED	498 lm/FT	7 / FT	120 EM	VODE - 707-ZZ-SL-Z'-24-XX-RPXX-AE-2-ZZ-Z-SO-XX-F5-0-XX	PROVIDE FIXTURE IN 2' INCREMENTS FOR TOTAL LENGTHS SHOWN ON THE LIGHTING PLANS.
LL-02	GRID MOUNTED LINEAR	RE	48"L X 2"W X 1"H	LED	1,992 lm	8 / FT	120	PINNACLE-EV1D-HE-830HO-04'-GX-U-FSD-1-0-X	
LL-03	RECESSED LINEAR	RE	72"L X 2"W X 1"H	LED	4,493 lm	8 / FT	120	PINNACLE - EV1D-HE-830HO-06'-GX-U-FSD-1-0-X	
LL-04	RECESSED LINEAR	RE	192"L X 2"W X 1"H	LED	501 lm/FT	5 / FT	120	PINNACLE - EV1D-HE-830-16'-GX-U-FSD-1-0-X	
PL-01	SUSPENDED LINEAR	SP	89"L X 4 1/4"W X 4 1/4"H	LED	6,042 lm	47 / FIX	120	PINNACLE - EX3D-HE-N-830HO-08-XACXX-U-FSD-1-0-X	
PL-01E	SUSPENDED LINEAR BATTERY	SP	89"L X 4 1/4"W X 4 1/4"H	LED	6,042 lm	47 / FIX	120 VAR.	PINNACLE - EX3D-HE-N-830HO-08-XACXX-U-FSD-1-0-FSB	
PL-01T	SUSPENDED LINEAR	SP	89"L X 4 1/4"W X 4 1/4"H	LED	6,042 lm	47 / FIX	120	PINNACLE-EX3D-HE-N-TWHO-08-XACXX-U-FSD-1-0-X	
PL-02	4' SUSPENDED LINEAR	SP	48"L X 4 1/4"W X 4 1/4"H	LED	3,021 lm	23 / FIX	120	PINNACLE - EX3D-HE-N-830HO-04-XACXX-U-FSD-1-0-X	
PL-02E	4' SUSPENDED LINEAR BATTERY	SP	48"L X 4 1/4"W X 4 1/4"H	LED	3,021 lm	23 / FIX	120	PINNACLE - EX3D-HE-N-830HO-04-XACXX-U-FSD-1-0-FSB	
PL-03	3" ROUND SUSPENDED CYLINDER	SP	8"H, 3"Ø	LED	1,770 lm	17 / FIX	120	ALPHABET - BETA-3R-SW-20LM-30K-55D-DL-XX-XX-PX-UNV-DIM10	
PL-03E	3" ROUND SUSPENDED CYLINDER BATTERY	SP	8"H, 3"Ø	LED	1,770 lm	17 / FIX	120 EM	ALPHABET - BETA-3R-SW-20LM-30K-55D-DL-XX-XX-PX-UNV-DIM10-EM7	
PL-04	PENDANT CYLINDER	SP/CL	6"H, 4"Ø	LED	3,090 lm	26 / FIX	120	BETA-4R-X-SW-30LM-30K-XX-50D-DL-XX-XX-PX-UNV-DIM10	
PL-04A	PENDANT CYLINDER	SP/CL	6"H, 4"Ø	LED	3,500 lm	31 / FIX	120	BETA-4R-X-SW-35LM-30K-XX-35D-DL-XX-XX-PX-UNV-DIM10	
PL-04AE	PENDANT CYLINDER BATTERY	SP/CL	6"H, 4"Ø	LED	3,500 lm	31 / FIX	120	BETA-4R-X-SW-35LM-30K-XX-35D-DL-XX-XX-PX-UNV-DIM10-EM7	
PL-04E	PENDANT CYLINDER BATTERY	SP/CL	6"H, 4"Ø	LED	3,090 lm	26 / FIX	120	BETA-4R-X-SW-30LM-30K-XX-50D-DL-XX-XX-PX-UNV-DIM10-EM7	
PL-05	16" GLOBE PENDANT	SP	, 16"Ø	LED	1,540 lm	21 / FIX	120	OCL - EU1-P1CB-X-16-WG-XXX-LED2-30K-UNV-XX-DM1	
PL-06	DECORATIVE PENDANT	SP	36"H, 2"Ø	LED	1,115 lm	12 / FIX	120	SPI LIGHTING - SIP12133-3FT-L12-120-277C-3000K-DF_90_DF_DIM1-0A-DF_PSC	SUSPENSION LENGTH AS NEEDED, REF. ARCHITECTURAL RCP. CONFIRM DIFFUSER SELECTION WITH ARCH PRIOR TO ORDERING.
RL-01	4" RECESSED DOWNLIGHT	RE	8 1/4"H, 4"Ø	LED	1,500 lm	21 / FIX	120	ALPHABET-NUE4-RD-SW-20LM-30K-90-60D-XX-XX-XX-NC-UNV-DIM10	
RL-01E	4" RECESSED DOWNLIGHT BATTERY	RE	8 1/4"H, 4"Ø	LED	1,500 lm	21 / FIX	120 EM	ALPHABET-NUE4-RD-SW-20LM-30K-90-60D-XX-XX-XX-NC-UNV-DIM10-EM7	
SL-01	AREA LIGHT POLE 1 HEAD	PL	22"L X 16"W X 3 3/4"H	LED	27,751 lm	213 / FIX	277	MCGRAW-EDISON - GALN-SA-4-C-740-U-T4FT-XX	
SL-02	AREA LIGHT POLE 2 HEAD	PL	22"L X 16"W X 3 3/4"H	LED	55,502 lm	426 / FIX	277	MCGRAW-EDISON - GALN-SA-4-C-740-U-T4FT-XX	
UT-01	UTILITY STRIP	WL	48"L X 4"W X 3 7/8"H	LED	5,623 lm	10 / FT	120	LA LIGHTING -CIT100-6-4-DRFA-WL-XX-XX-DRDM-UNV-1-830	
WL-01E	WALL SCONCE	WL	5 1/8"L X 3 7/8"W X 5 1/8"H X 3 7/8"D	LED	1,100 lm	17 / FIX	277	BRUCK - EXT-EUD-SW-10LM - 30K - 90 - BK - W - UNV-10V	PROVIDE EXTERNAL BATTERY PACKS FOR EACH FIXTURE. LOCATE AND CONCEAL PACKS IMMEDIATELY INSIDE THE BUILDING.

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. {#B} PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. {Z#} DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

SPACE TYPE	PLAN ID	LIGHTING SWITCHED
OPEN OFFICE	{LC01}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% WHEN THE SPACE BECOMES OCCUPIED OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
OFFICE/HUDDLE	{LC02}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE WITH MANUAL DIMMING. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% MAXIMUM OUTPUT WHEN THE SPACE BECOMES OCCUPIED. ADJUST: THE LIGHTS ARE RAISED / LOWERED USING A WALL CONTROLLER WITH MANUAL DIMMING CONTROL. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
UTILITY SPACE	{LC03}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% WHEN THE SPACE BECOMES OCCUPIED OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
CONFERENCE ROOM	{LC04}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE WITH MANUAL DIMMING. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% MAXIMUM OUTPUT WHEN THE SPACE BECOMES OCCUPIED. ADJUST: THE LIGHTS ARE RAISED / LOWERED USING A WALL CONTROLLER WITH MANUAL DIMMING CONTROL. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
ELECTRICAL ROOM	{LC05}	SEQUENCE: SWITCHED LIGHTS ARE MANUALLY CONTROLLED IN THIS SPACE. ON: THE LIGHTS TURN ON USING SWITCHES. OFF: THE LIGHTS TURN OFF USING SWITCHES.
RECEPTION/LOUNGE	{LC06}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE WITH MANUAL DIMMING. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% MAXIMUM OUTPUT WHEN THE SPACE BECOMES OCCUPIED. ADJUST: THE LIGHTS ARE RAISED / LOWERED USING A WALL CONTROLLER WITH MANUAL DIMMING CONTROL BASED ON LIGHTING CONTROL ZONES SHOWN IN THE PLANS. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
CIRCULATION/REST ROOM	{LC07}	SEQUENCE: SWITCHED LIGHTS ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: THE LIGHTS IN THE SPACE WILL AUTOMATICALLY TURN ON TO 100% WHEN THE SPACE BECOMES OCCUPIED OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.

LUMINAIRE SCHEDULE LEGEND

DESCRIPTION:

PAF - PAINT AFTER FABRICATION

CFSA - COLOR FINISH SELECTION BY ARCHITECT

CCFSA - CUSTOM COLOR FINISH SELECTED BY ARCHITECT

CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER

OPTICS:

BEAM ANGLE

##° or ## DEG - BEAM ANGLE IN DEGREES

VNSP - VERY NARROW SPOT
NSP - NARROW SPOT
SP - SPOT
WSP - WIDE SPOT
VWSP - VERY WIDE SPOT
NFL - NARROW FLOOD
FL - FLOOD
WFL - WIDE FLOOD
VWF - VERY WIDE FLOOD

MOUNTING (MTG):

CL - CEILING
CV - COVE
G - GROUND SURFACE
IG - IN GRADE
P - PERIMETER
PL - POLE
RE - RECESSED
SP - SUSPENDED
SU - SURFACE
UC - UNDER CABINET
WL - WALL
O - OTHER (SEE DESCRIPTION)

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS. REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS, AND DETAILS FOR LUMINAIRE MOUNTING LOCATIONS AND REQUIREMENTS.

MOUNTING HEIGHTS INDICATED IN THE SCHEDULE ARE TO THE BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.

DIMENSIONS:

L - LENGTH **W** - WIDTH **H** - HEIGHT **D** - DEPTH **Ø** - DIAMETER

VAR. - DIMENSION VARIES, SEE LIGHTING PLANS.

LIGHT SOURCE:

SOURCE TYPE: **LED** - INTEGRAL LIGHT EMITTING DIODE; **DLED** - DYNAMIC TUNABLE WHITE LED; **RLED** - RETROFIT LED LAMP; **WLED** - WARM DIM LED

CCT / CRI: INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

DELIVERED LUMENS:

LUMENS INDICATED ARE MINIMUM INITIAL DELIVERED LUMENS AT SPECIFIED CCT AND CRI.

WATTS:

MAXIMUM ANSI WATTS PER: (BLANK) = PER LUMINAIRE **FT** = LINEAR FOOT **LAMP** **POLE**

POWER SUPPLY:

PS TYPE: (BLANK) - INTEGRAL UNLESS NOTED OTHERWISE; **REM** - REMOTE; **EM** - EMERGENCY BATTERY

CONTROL METHOD: **0-10V** - 0 TO 10V DIMMING; **10%**, **1%**, **0.1%**, **0.01%** AS INDICATED; **DALI** - DIGITAL ADDRESSABLE LIGHTING INTERFACE (IEC 62386); **DMX** - USITT DMX512-A (ANSI E1.11); **UPC** - UNIVERSAL PHASE CONTROL DIMMING (PHASE ADAPTIVE); **SWC** - SWITCHED CONTROL; **O** - OTHER (SEE DESCRIPTION)

COORDINATE LUMINAIRE DRIVER DIMMING METHODS AND PROTOCOLS WITH THE LIGHTING CONTROL SYSTEM AND CONTROL MANUFACTURER REQUIREMENTS TO ENSURE DIMMING COMPATIBILITY.

MANUFACTURER - SERIES:

1. **THE FIRST MANUFACTURER AND MODEL LISTED IS THE BASIS OF DESIGN.**
2. **THE MODEL NUMBER SHOWN SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE MODEL NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.**

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PROJECT #260034

SWITCHBOARD MSB

ENCLOSURE: NEMA 3R
FED FROM: 2,000/3P @ UTILITY TRANSFORMER
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 2,000 MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 35 kA
ISC: 17.87 kA

NOTES: EXISTING LOAD PER PEAK DEMAND OF 216KW FROM SWEPCO

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	MSBS	819.56 kVA	3	1,200	1,200			(6) SETS OF 4#600 & 1#350 EGC EACH IN 3 1/2" C.	
2	TMDP1	78.2 kVA	3	800	800			(2) SETS OF 3#600 & 1#1/0 EGC EACH IN 3" C.	
3	TMDP2	214.09 kVA	3	600	500			(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	
4	SPACE	--	1	--	--				
5	SPACE	--	1	--	--				
6	SPACE	--	1	--	--				
7	SPACE	--	1	--	--				
8	SPACE	--	1	--	--				
9	SPACE	--	1	--	--				
10	SPACE	--	1	--	--				
11	SPACE	--	1	--	--				
12	SPACE	--	1	--	--				

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Kitchen Equip.	36.968 kVA	65%	24.029 kVA		
Lighting	24.848 kVA	100%	24.848 kVA	TOTAL CONNECTED LOAD:	1111.85 kVA
Power	633.916 kVA	100%	633.916 kVA	TOTAL ESTIMATED DEMAND LOAD:	1057.853 kVA
Receptacles	200.120 kVA	52.5%	105.060 kVA	TOTAL CONNECTED AMPS:	1337.35 A
(E) Existing Load	216.000 kVA	125%	270.000 kVA	TOTAL ESTIMATED DEMAND AMPS:	1,272.4

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

SWITCHBOARD MSBS

ENCLOSURE: NEMA 1
FED FROM: 1,200/3P @ MSB
LOCATION: ELEC 196

SOLID NEUTRAL
GROUND BUS

MAIN: 1,200 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 18 kA
ISC: 15.74 kA

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	H1A	182.49 kVA	3	400	400			4#600 & 1#3 EGC IN 3 1/2" C.	
2	H2A	102.67 kVA	3	250	225			4#4/0 & 1#4 EGC IN 2 1/2" C.	P2
3	TDP	260.91 kVA	3	600	500			(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	
4	RTU-2	33.26 kVA	3	150	50			3#8 & 1#10 EGC IN 3/4" C.	
5	RTU-4	49.05 kVA	3	150	80			3#4 & 1#8 EGC IN 1" C.	P2
6	RTU-5	67.31 kVA	3	150	100			3#3 & 1#8 EGC IN 1" C.	
7	RTU-1	33.26 kVA	3	150	50			3#8 & 1#10 EGC IN 3/4" C.	P2
8	RTU-3	45.73 kVA	3	150	70			3#6 & 1#8 EGC IN 3/4" C.	
9	RTU-6	24.94 kVA	3	150	40			3#10 & 1#10 EGC IN 3/4" C.	P2
10	RTU-7	19.95 kVA	3	150	35			3#10 & 1#10 EGC IN 3/4" C.	
11	SPACE	--	1	--	--				
12	SPACE	--	1	--	--				

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Kitchen Equip.	36.968 kVA	65%	24.029 kVA		
Lighting	3.860 kVA	100%	3.860 kVA	TOTAL CONNECTED LOAD:	819.56 kVA
Power	623.756 kVA	100%	623.756 kVA	TOTAL ESTIMATED DEMAND LOAD:	734.135 kVA
Receptacles	154.980 kVA	53.23%	82.490 kVA	TOTAL CONNECTED AMPS:	985.78 A
				TOTAL ESTIMATED DEMAND AMPS:	883

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL LDP

ENCLOSURE: NEMA 1
FED FROM: 800/3P @ TDP
LOCATION: ELEC 196

SOLID NEUTRAL
GROUND BUS

MAIN: 800 MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 13.16 kA

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	L1A	48.67 kVA	3	250	225			4#4/0 & 1#4 EGC IN 2 1/2" C.	
2	L1B	82.46 kVA	3	250	225			4#4/0 & 1#4 EGC IN 2 1/2" C.	
3	L2A	42.62 kVA	3	250	225			(2) SETS OF 4#250 & 1#1/0 EGC EACH IN 2 1/2" C.	P2
4	L2B	40.78 kVA	3	250	225			(2) SETS OF 4#4/0 & 1#1 EGC EACH IN 2 1/2" C.	P2
5	UH-2	3 kVA	2	150	20			2#12 & 1#12 EGC IN 3/4" C.	
6	UH-4	3 kVA	2	150	20			2#10 & 1#10 EGC IN 3/4" C.	P1
7	UH-3	3 kVA	2	150	20			2#12 & 1#12 EGC IN 3/4" C.	P1
8	UH-7	3 kVA	2	150	20			2#10 & 1#10 EGC IN 3/4" C.	P1
9	UH-8	3 kVA	2	150	20			2#10 & 1#10 EGC IN 3/4" C.	P1
10	UH-6	3 kVA	2	150	20			2#8 & 1#8 EGC IN 3/4" C.	P1
11	UH-5	3 kVA	2	150	20			2#10 & 1#10 EGC IN 3/4" C.	P1
12	L1C	25.38 kVA	3	150	100			4#3 & 1#8 EGC IN 1 1/4" C.	

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Kitchen Equip.	36.968 kVA	65%	24.029 kVA		
Power	68.959 kVA	100%	68.959 kVA	TOTAL CONNECTED LOAD:	260.91 kVA
Receptacles	154.980 kVA	53.23%	82.490 kVA	TOTAL ESTIMATED DEMAND LOAD:	175.478 kVA
				TOTAL CONNECTED AMPS:	724.21 A
				TOTAL ESTIMATED DEMAND AMPS:	487.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL L1A

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ LDP
LOCATION: ELEC 196

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 10.80 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	SERVER 174 REC	20	1	12	12	12	0.35	0.18	1.08					1.09	12	12	12	1	20	BACK 1 CONF RM 195 FLOOR RECS	2	
G	3	BREAK RM ISLAND RECS	20	1	12	12	12	2.86			0.9	0.18			0.4	12	12	12	1	20	HR 173 RECS	4	
	5	FAM RR 197| 166 REC	20	1	12	12	12	1.56					0.54	1.08	0.82	12	12	12	1	20	BACK 1 CONF RM 195 RECS	6	
	7	HR 173 RECS	20	1	12	12	12	0.77	0.54	0						12	12	12	1	20	LVL 1 WATER COOLER	8	
	9	INTRV RM/HR STG RECS	20	1	12	12	12	2.79			0.9	0.36			0.61	12	12	12	1	20	PRINT RM 194 RECS	10	
	11	RECS ELEC 197	20	1	12	12	12	0.7					0.72	0.72	2.38	12	12	12	1	20	NSP 182 | RTO 186 RECS	12	
	13	NSP 179 RECS	20	1	12	12	12	1.58	0.72	0.54					1.2	12	12	12	1	20	HR OFFICE RECS	14	
	15	NSP 181|182 RECS	20	1	12	12	12	2.3			0.72	0.18			0.4	12	12	12	1	20	POD RECS	16	
	17	NSP 178 RECS	20	1	12	12	12	1.01					0.54	0.36	0.74	12	12	12	1	20	LVL 1 POD RM RECS	18	
	19	RECS HUDDLE 189	20	1	12	12	12	1.17	0.54	0.18					0.4	12	12	12	1	20	POD RECS	20	
	21	HUDDLE 190 RECS	20	1	12	12	12	0.98			0.54	0.72			1.69	12	12	12	1	20	LEVEL 1 RR RECS	22	
	23	POD RECS	20	1	12	12	12	0.95					0.36	0.18	0.27	12	12	12	1	20	HR 173 DESK RECS	24	
	25	HUDDLE 191 RECS	20	1	12	12	12	2.23	1.08	0.9					1.4	12	12	12	1	20	HUDDLE 177/192 RECS	26	
	27	HUDDLE 192/177 RECS	20	1	12	12	12	1.37			0.9	0.54			0.84	12	12	12	1	20	HR 173.2 RECS	28	
	29	HUDDLE 180 RECS	20	1	12	12	12	1.23					0.54	0.72	2.1	12	12	12	1	20	RTO 186|187 RECS	30	
	31	RECEPTION 166 RECS	20	1	10	10	10	2.36	1.08	1.54					2.4	8	8	8	1	20	RTO 193 | SOUTH SITTING RECS	32	
	33	SOUTH CORRIDOR | STORAGE 195...	20	1	10	10	10	1.84			1.08	1.08			1.98	10	10	10	1	20	RECS SOUTH CORRIDOR	34	
	35	LARGE HUDDLE 176 RECS	20	1	12	12	12	0.78					0.72	0.72	2.8	12	12	12	1	20	BREAK RM RECS	36	
	37	RECEPTION 166 RECS	20	1	10	10	10	2	0.9	1.08					2.01	10	10	10	1	20	CENTRAL CORRIDOR 165 RECS	38	
	39	LARGE HUDDLE 183 RECS	20	1	12	12	12	2.3			0.72	0.72			2.6	12	12	12	1	20	BREAK RM 169 RECS	40	
	41	IT 167 RECS	20	1	12	12	12	0.92					0.18	0.54	1.03	12	12	12	1	20	HR 173.3 RECS	42	
	43	LARGE HUDDLE 176 RECS	20	1	12	12	12	1.16	0.72	1.08					2.25	12	12	12	1	20	HUDDLE 180|189|190 RECS	44	
	45	HR OFFICE 173.1 RECS	20	1	12	12	12	0.66			0.54	0.9			2	10	10	10	1	20	LARGE HUDDLE 183 RECS	46	
	47	NSP 182 | RTO 186 RECS	20	1	12	12	12	2.12					0.72	0.55	0.9	12	12	12	1	20	SHREDDER	48	
	49	PRINTER	20	1	12	12	12	2.89	1.8	1.36					2.38	12	12	12	1	20	SP-1	50	
	51	PLOTTER	20	1	12	12	12	0.3			0.18	1			2.4	10	10	10	1	20	LOUNGE COFFEE MACHINE	52	
	53	ELEVATOR PIT REC	20	1	12	12	12	0.42					0.18	1.08	2.41	10	10	10	1	20	RTO 193 RECS	54	
	55	SPARE	20	1					0	1.08					1.86	10	10	10	1	20	RTO 193 RECS	56	
P1	57	UH-11	20	2	12	--	12	1.76			1.5	1.08			2.32	12	12	12	1	20	RTO 193 RECS	58	
	59												1.5	0.54	0.9	12	12	12	1	20	RTO 193 RECS	60	
	61	SPARE	20	1					0	0.9					2.67	12	12	12	1	20	RTO 193 RECS	62	
	63	SPARE	20	1							0	1.08			1.98	10	10	10	1	20	RTO 193 RECS	64	
	65	SPARE	20	1									0	1.08	2.17	12	12	12	1	20	RTO 193 RECS	66	
	67	SPARE	20	1					0	1.08					2.31	10	10	10	1	20	2ND FLR MAINT RECS	68	
	69	SPARE	20	1							0	0.9			2.09	8	8	8	1	20	2ND FLR MAINT RECS	70	P1
	71	SPARE	20	1									0	--					1	--	SPACE	72	
	73	SPARE	20	1					0	--									1	--	SPACE	74	
	75	SPARE	20	1							0	--							1	--	SPACE	76	
	77	SPARE	20	1									0	--					1	--	SPACE	78	
	79	SPACE	--	1					--	--									1	--	SPACE	80	
	81	SPACE	--	1							--	--							1	--	SPACE	82	
	83	SPACE	--	1									--	--					1	--	SPACE	84	
								Total Load:	18.38 kVA		16.72 kVA		13.57 kVA										
								Total Amps:	157.17		143.37		113.08										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	8.526 kVA	100%	8.526 kVA		
Receptacles	40.140 kVA	62.46%	25.070 kVA	TOTAL CONNECTED LOAD:	48.67 kVA
				TOTAL ESTIMATED DEMAND LOAD:	33.596 kVA
				TOTAL CONNECTED AMPS:	135.08 A
				TOTAL ESTIMATED DEMAND AMPS:	93.3

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL L1B

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ LDP
LOCATION: ELEC 196

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.07 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	CP-1	15	1	12	12	12	0.79	0.71	0						12	12	12	1	20	EWC	2	
	3	SPACE	--	1							--	0.55			0.46	12	12	12	1	20	WH-1	4	
	5	EF-1	15	1	12	12	12	2.06					0.53	1.5	2.55	10	10	10	1	20	BREAK RM KITCHEN REC	6	
G	7	BREAK RM DISHWASHER	20	1	12	12	12	2.94	1.07	1.5					2.61	10	10	10	1	20	BREAK RM DISP	8	G
	9	SPACE	--	1							--	1			2.84	12	12	12	1	20	BREAK RM FRIDGE	10	G
G	11	BREAK RM OVEN	50	2	6	6	10	2.95					5.05	0.9	2.8	12	12	12	1	15	WARMING CABINETS	12	G
	13								5.05	0.9					2.71	12	12	12	1	15	WARMING CABINETS	14	G
	15	SERVER RM RECS	20	1	12	12	12	1.55			1.08	1			2.2	10	10	10	1	20	BREAK RM MICROWAVE	16	G
G	17	BREAK RM MICROWAVE	20	1	10	10	10	1.96					1	1	2	10	10	10	1	20	BREAK RM MICROWAVE	18	G
G	19	BREAK RM TOASTERS	20	1	10	10	10	2.14	1	1					2	10	10	10	1	20	BREAK RM MICROWAVE	20	G
G	21	BREAK RM TOASTERS	20	1	10	10	10	2.12			1	0.72			2	12	12	12	1	20	ROOF MAINT. RECS	22	
	23	SPACE	--	1									--	0.54	1.91	12	12	12	1	20	ROOF MAINT. RECS	24	
	25	SPACE	--	1					--	0.18					0.5	12	12	12	1	20	FUTURE DECORATION	26	
	27	CU-EST1	25	2	10	--	10	1.46			2.39	1.5			2.24	12	--	12	2	20	UH-9	28	P1
	29												2.39	1.5								30	
	31	CU-E1	40	2	10	--	10	1.19	2.39	1.5					2.14	10	--	10	2	20	UH-10	32	P1
	33										2.39	1.5										34	
	35	EF-2	15	1	12	12	12	0.32					0.53	1	2.07	12	12	12	1	15	ELEVATOR CAB POWER/LIGHTS	36	HL
G	37	BREAK RM FRIDGE	20	1	12	12	12	2.99	1	2.39					1.79	10	--	10	2	40	CU-S1	38	
	39	CU-SS1T	25	2	8	--	8	2.73			2.39	2.39										40	
	41												2.39	--					1	--	SPACE	42	
	43	HR 173 RECS	20	1	12	12	12	2.56	1.08	1.08					2.16	12	12	12	1	20	HR 173 RECS	44	
	45	HR 173 RECS	20	1	12	12	12	2.62			1.08	1.08			2.17	12	12	12	1	20	HR 173 RECS	46	
	47	IT 167 RECS	20	1	8	8	8	2.06					1.08	1.08	2.7	12	12	12	1	20	HR 173 RECS	48	
	49	IT 167 RECS	20	1	8	8	8	2.2	1.08	1.08					2.39	10	10	10	1	20	IT (SECURE) RECS	50	
	51	IT 167 RECS	20	1	10	10	10	2.3			0.9	1.08			2.1	8	8	8	1	20	IT 167 RECS	52	
	53	UH-1	20	2	12	--	12	1					1.5	0.9	2.66	10	10	10	1	20	IT 167 RECS	54	
	55								1.5	1.5					2.85	10	10	10	1	20	BREAK RM KITCHEN REC	56	
	57	BREAKROOM VENDING	20	1	10	10	10	2.65			1	1.5			2.96	10	10	10	1	20	BREAK RM KITCHEN REC	58	
	59	BREAKROOM VENDING	20	1	10	10	10	2.61					1	1.5	2.03	8	8	8	1	20	BREAK RM KITCHEN REC	60	
	61	BREAKROOM VENDING	20	1	10	10	10	2.56	1	0									1	20	SPARE	62	
	63	BREAKROOM VENDING	20	1	10	10	10	2.51			1	0							1	20	SPARE	64	
G	65	BREAKROOM VENDING	20	1	10	10	10	2.68					1	0					1	20	SPARE	66	
G	67	BREAK RM FRIDGE	20	1	10	10	10	1.86	1	0									1	20	SPARE	68	
G	69	BREAK RM FRIDGE	20	1	12	12	12	2.92			1	0							1	20	SPARE	70	
	71	BREAK RM COFFEE MAKER	20	1	8	8	8	2.06					1.5	0					1	20	SPARE	72	
	73	SPACE	--	1					--	0									1	20	SPARE	74	
	75	SPACE	--	1							--	0							1	20	SPARE	76	
	77	SPACE	--	1									--	0					1	20	SPARE	78	
	79	SPACE	--	1					--	--									1	--	SPACE	80	
	81	SPACE	--	1							--	--							1	--	SPACE	82	
	83	SPACE	--	1									--	--					1	--	SPACE	84	
								Total Load:	28.01 kVA		26.56 kVA		27.89 kVA										
								Total Amps:	235.12		221.33		234.12										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Kitchen Equip.	36.968 kVA	65%	24.029 kVA		
Power	31.272 kVA	100%	31.272 kVA	TOTAL CONNECTED LOAD:	82.46 kVA
Receptacles	14.220 kVA	85.16%	12.110 kVA	TOTAL ESTIMATED DEMAND LOAD:	67.411 kVA
				TOTAL CONNECTED AMPS:	228.89 A
				TOTAL ESTIMATED DEMAND AMPS:	187.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL H1A

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 400/3P @ MSBS
LOCATION: ELEC 196

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 400 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 18 kA
ISC: 14.83 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1								2.22	3.88												2	
	3	FCU-1	15	3	12	--	12	0.29			2.22	3.88			1.35	12	--	12	3	15	FCU-2	4	
	5												2.22	3.88								6	
	7								4.31	4.31												8	
	9	VAV 1-1	20	3	12	12	12	1.35			4.31	4.31			0.81	12	12	12	3	20	VAV 1-2	10	
	11												4.31	4.31								12	
	13								4.31	4.31												14	
	15	VAV 1-3	20	3	12	12	12	0.54			4.31	4.31			1.14	12	12	12	3	20	VAV 1-6	16	
	17												4.31	4.31								18	
	19								0.71	1.55												20	
	21	VAV 1-5	15	3	12	12	12	0.15			0.71	1.55			0.37	12	12	12	3	15	VAV 1-4	22	
	23												0.71	1.55								24	
	25								1.88	4.31												26	
	27	VAV 7-1	15	3	12	12	12	0.86			1.88	4.31			0.71	12	12	12	3	20	VAV 1-7	28	
	29												1.88	4.31								30	
	31								1.21	5.54					2.37	10	10	10	1	20	WH-2	32	
	33	VAV 1-10	15	3	12	12	12	0.57			1.21	1.42			1.16	8	8	8	1	20	PARKING LOT LIGHTS	34	
	35												1.21	1.18	0.89	8	8	8	1	20	PARKING LOT LIGHTS	36	
	37								2.05	0.06					0.05	12	12	12	1	20	EXTERIOR SCONCES	38	
	39	VAV 1-11	15	3	12	12	12	0.75			2.05	1.2			0.79	12	12	12	1	20	EXTERIOR SIGNAGE	40	
	41												2.05	0	0.4	12	12	12	1	20	LIGHTING CONTACTOR	42	
	43								4.31	2.22												44	
	45	VAV 1-8	20	3	12	12	12	0.65			4.31	2.22			0.87	12	--	12	3	15	CD-2	46	
	47												4.31	2.22								48	
	49								2.21	2.22												50	
	51	VAV 1-9	15	3	12	12	12	0.17			2.21	2.22			0.9	12	--	12	3	15	CD-1	52	
	53												2.21	2.22								54	
	55								11.09	0									1	20	SPARE	56	
	57	ELEVATOR	70	3	6	6	8	0.5			11.09	0							1	20	SPARE	58	
	59												11.09	0					1	20	SPARE	60	
	61	ELEVATOR SHUNT TRIP	20	1					0	0									1	20	SPARE	62	
	63										0.58	0							1	20	SPARE	64	
	65	EF-5	15	3	12	--	12	0.19					0.58	0					1	20	SPARE	66	
	67								0.58	--									1	--	SPACE	68	
	69	SPACE	--	1							--	--							1	--	SPACE	70	
	71	SPACE	--	1									--	--					1	--	SPACE	72	
	73	SPACE	--	1					--	--									1	--	SPACE	74	
	75	SPACE	--	1							--	--							1	--	SPACE	76	
	77	SPACE	--	1									--	--					1	--	SPACE	78	
	79	SPACE	--	1					--	--									1	--	SPACE	80	
	81	SPACE	--	1							--	--							1	--	SPACE	82	
	83	SPACE	--	1									--	--					1	--	SPACE	84	
								Total Load:	63.29 kVA		60.32 kVA		58.88 kVA										
								Total Amps:	229.30		218.55		212.57										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	3.860 kVA	100%	3.860 kVA		
Power	178.634 kVA	100%	178.634 kVA	TOTAL CONNECTED LOAD:	182.49 kVA
				TOTAL ESTIMATED DEMAND LOAD:	182.494 kVA
				TOTAL CONNECTED AMPS:	219.51 A
				TOTAL ESTIMATED DEMAND AMPS:	219.5

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL L1C

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 100/3P @ LDP
LOCATION: ELEC 196

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 8.54 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	NSP 185 RECS	20	1	10	10	10	2.4	1.08	0.72					2.05	10	10	10	1	20	NSP 185 RECS	2	
	3	NSP 185 RECS	20	1	10	10	10	2.85			0.9	1.08			1.99	8	8	8	1	20	NSP 185 RECS	4	
	5	NSP 185 RECS	20	1	10	10	10	2.76					1.08	0.9	2.22	10	10	10	1	20	NSP 185 RECS	6	
	7	NSP 185 RECS	20	1	10	10	10	2.56	1.08	1.08					2	10	10	10	1	20	NSP 185 RECS	8	
	9	NSP 185 RECS	20	1	12	12	12	2.51			0.9	1.26			2.67	10	10	10	1	20	NSP 185 RECS	10	
	11	NSP 185 RECS	20	1	12	12	12	1.69					0.72	0.72	1.41	12	12	12	1	20	NSP 185 RECS	12	
	13	NSP 185 RECS	20	1	12	12	12	2.19	0.9	0.72					1.36	12	12	12	1	20	NSP 185 RECS	14	
	15	NSP 185 RECS	20	1	12	12	12	1.45			0.72	1.08			2.87	10	10	10	1	20	NSP 185 RECS	16	
	17	NSP 185 RECS	20	1	10	10	10	2.21					0.9	1.08	2.57	10	10	10	1	20	NSP 185 RECS	18	
	19	NSP 185 RECS	20	1	10	10	10	2.12	1.08	0.9					2.51	12	12	12	1	20	NSP 185 RECS	20	
	21	NSP 185 RECS	20	1	10	10	10	2.31			1.08	0.9			2.54	12	12	12	1	20	NSP 185 RECS	22	
	23	NSP 185 RECS	20	1	12	12	12	1.71					0.72	0.9	2.25	12	12	12	1	20	NSP 185 RECS	24	
	25	NSP 185 RECS	20	1	8	8	8	2.22	1.08	1.08					2	8	8	8	1	20	NSP 185 RECS	26	
	27	NSP 185 RECS	20	1	12	12	12	1.36			0.72	--							1	--	SPACE	28	
	29	SPARE	20	1									0	--					1	--	SPACE	30	
	31	SPARE	20	1					0	--									1	--	SPACE	32	
	33	SPARE	20	1							0	--							1	--	SPACE	34	
	35	SPARE	20	1									0	--					1	--	SPACE	36	
	37	SPARE	20	1					0	--									1	--	SPACE	38	
	39	SPARE	20	1							0	--							1	--	SPACE	40	
	41	SPARE	20	1									0	--					1	--	SPACE	42	
								Total Load:	9.72 kVA		8.64 kVA		7.02 kVA										
								Total Amps:	83.08		74.08		58.50										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Receptacles	25.380 kVA	69.7%	17.690 kVA		
				TOTAL CONNECTED LOAD:	25.38 kVA
				TOTAL ESTIMATED DEMAND LOAD:	17.690 kVA
				TOTAL CONNECTED AMPS:	70.45 A
				TOTAL ESTIMATED DEMAND AMPS:	49.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

ELECTRICAL DISTRIBUTION AND PANEL SCHEDULE NOTES:

1. BRANCH PANEL KEY:
   a. *A = ARC FAULT CIRCUIT INTERRUPT
   b. *G = GROUND FAULT CIRCUIT INTERRUPT
   c. *I = ISOLATED GROUND
   d. *P = PADLOCK HASP
   e. *R = RED HANDLE
   f. *S = SHUNT TRIP
   g. *NB = NEW BREAKER
   h. *RB = REPLACE EXISTING BREAKER WITH NEW BREAKER
   i. *EB = EXISTING BREAKER
   j. *HL = INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
   k. P1 = TEMPORARY POWER FOR PHASE 1 EQUIPMENT. DEMOLISH CIRCUITS BACK TO THE BREAKER IN PHASE 2 SCOPE OF WORK.
   l. P2 = EQUIPMENT SHALL BE INSTALLED IN PHASE 2. PHASE 1 WORK SHALL INCLUDE INSTALLATION OF THE BREAKER SWITCHED OFF AND CONDUIT STUBBED UP TO FUTURE PHASE 2 EQUIPMENT LOCATIONS, REFERENCE PLANS AND RISER DIAGRAM FOR MORE DETAILS.

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PROJECT #260034

contents. ELECTRICAL PANEL SCHEDULES

design. CD
date. 2026.09.11
project. 25.18

E7.00

PANEL LE1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ MDP2-E
LOCATION: SERVER 174

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 14.35 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A	B	C	VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	Receptacles	20	1	12	12	1.8	1.08	0.72			1.47	12	12	12	1	20	HR OFFICE RECS	2	
	3	Receptacles CLEAN ROOM 167	20	1	10	10	1.93			0.9	0.54	1.06	12	12	12	1	20	IT SECURE AND OFFICE RECS	4	
	5	IT SECURE AND OFFICE RECS	20	1	12	12	1.66				0.72 0.9	1.82	10	10	10	1	20	RTO 193 RECS	6	
	7	RTO 193 RECS	20	1	10	10	2.42	0.9	1.08			2.6	12	12	12	1	20	Receptacles Room 177, 178, 181, 182,...	8	
	9	NSP 185 RECS	20	1	12	12	2.82			1.44	1.44	2.23	10	10	10	1	20	NSP 185 RECS	10	
	11	NSP 185 RECS	20	1	10	10	2.46				1.26 0.9	2.36	10	10	10	1	20	NSP 185 RECS	12	
	13	RECEP|CORRIDOR|HR|INTRVIEW LTG	20	1	8	8	2.71	1.13	1.27			2.14	6	6	6	1	20	IT LTG	14	
	15	HR|SERVER|ELEC|CORRIDOR LTG	20	1	8	8	2.58			0.82	0.7	1.85	10	10	10	1	20	RESTROOM LIGHTING	16	
	17	HUDDLE|ENSP|CORRIDOR LTG	20	1	8	8	2.07				1.47 0.94	2.61	10	10	10	1	20	HUDDLE|ENSP|CORRIDOR LTG	18	
	19	OPEN OFFICE|LOUNGE LTG	20	1	6	6	2.36	1.13	0.04			0.05	12	12	12	1	20	ELEVATOR LTG	20	
	21	OPEN OFFICE LTG	20	1	8	8	2.29			1.29	1.2	1.95	6	6	6	1	20	OPEN OFFICE LTG	22	
	23	SPARE	20	1							0 1.32	2.75	6	6	6	1	20	BREAK|E. STAIR|STRG LTG	24	
	25	SPARE	20	1				0	1.08			2.54	8	8	8	1	20	LANDING|LIB|BRIDGE|STAIR LTG	26	
	27	SPARE	20	1						0	--					1	--	SPACE	28	
	29	SPARE	20	1							0 --					1	--	SPACE	30	
	31	SPARE	20	1				0	--							1	--	SPACE	32	
	33	SPACE	--	1						--	--					1	--	SPACE	34	
	35	SPACE	--	1							-- --					1	--	SPACE	36	
	37							5.47	--							1	--	SPACE	38	
	39	LE2	100	3	2/0	2/0	3	0.19		5.26	--					1	--	SPACE	40	
	41										4.17 --					1	--	SPACE	42	
					Total Load:				13.90 kVA	13.59 kVA	11.68 kVA									
					Total Amps:				118.27	115.73	97.32									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	20.988 kVA	100%	20.988 kVA
Receptacles	18.180 kVA	77.5%	14.090 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	39.17 kVA
TOTAL ESTIMATED DEMAND LOAD:	35.078 kVA
TOTAL CONNECTED AMPS:	108.72 A
TOTAL ESTIMATED DEMAND AMPS:	97.4

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL LUP1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 100/3P @ EUP-E
LOCATION: SERVER 174

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 4.35 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A	B	C	VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	NETWORK RACKS	20	2	12	--	12	0.55	1.55	1.55		0.52	12	--	12	2	20	NETWORK RACKS	2	
	3										1.55 1.55								4	
	5	NETWORK RACKS	20	2	12	--	12	0.55			1.55 1.55	0.6	12	--	12	2	20	NETWORK RACKS	6	
	7								1.55	1.55									8	
	9	FUTURE RACKS	20	2	12	--	12				0 0		12	--	12	2	20	FUTURE RACKS	10	
	11										0 0								12	
	13	AV RACKS	20	1	12	12	12	0.36	0.6	0.6		0.38	12	12	12	1	20	AV RACKS	14	
	15	AV RACKS	20	1	12	12	12	0.4		0.6	1	0.5	12	12	12	1	20	NETWORK RACKS	16	
	17	NETWORK RACKS	20	1	12	12	12	0.56			1 0.36	0.25	12	12	12	1	20	FUTURE RACKS	18	
	19	FIRE ALARM QUAD	20	1	12	12	12	0.32	0.36	0.75		0.52	12	12	12	1	20	FUTURE ACCESS CONTROL RECS	20	
	21	FUTURE ACCESS CONTROL RECS	20	1	12	12	12	0.51			0.75 --					1	--	SPACE	22	
	23	SPARE	20	1							0 --					1	--	SPACE	24	
	25	SPARE	20	1					0	--						1	--	SPACE	26	
	27	SPARE	20	1						0	--					1	--	SPACE	28	
	29	SPARE	20	1							0 --					1	--	SPACE	30	
	31	SPARE	20	1					0	--						1	--	SPACE	32	
	33	SPARE	20	1						0	--					1	--	SPACE	34	
	35	SPARE	--	1							-- --					1	--	SPACE	36	
	37	SPARE	--	1					--	--						1	--	SPACE	38	
	39	SPARE	--	1							-- --					1	--	SPACE	40	
	41	SPACE	--	1							-- --					1	--	SPACE	42	
					Total Load:				8.51 kVA	5.45 kVA	4.46 kVA									
					Total Amps:				72.19	46.69	37.17									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	5.660 kVA	100%	5.660 kVA
Receptacles	12.760 kVA	89.18%	11.380 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	18.42 kVA
TOTAL ESTIMATED DEMAND LOAD:	17.040 kVA
TOTAL CONNECTED AMPS:	51.13 A
TOTAL ESTIMATED DEMAND AMPS:	47.3

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL MDP2-E

ENCLOSURE: NEMA 1
FED FROM: 800/3P @ ATS-E
LOCATION: STORAGE 140

SOLID NEUTRAL
GROUND BUS

MAIN: 800 MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 17.50 kA

NOTES: EXISTING LOAD PER 30-DAY METERING REPORT PERFORMED 8/17/2026 THROUGH 9/17/2026.

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	LE1	39.17 kVA	3	250	225			(3) SETS OF 4#400 & 1#250 EGC EACH IN 3" C.	NB
2	UPS-E	59.89 kVA	3	400	400			4#600 & 1#3 EGC IN 3 1/2" C.	EB
3	PANEL NO1	0 kVA	1	200	200				EB
4	PANEL NO2	0 kVA	1	200	200				EB
5	PANEL NO3	0 kVA	1	200	200				EB
6	PANEL BU1	0 kVA	1	800	800				EB
7									
8									
9									
10									
11									
12									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	20.988 kVA	100%	20.988 kVA
Power	10.160 kVA	100%	10.160 kVA
Receptacles	45.140 kVA	61.08%	27.570 kVA
(E) Existing Load	137.800 kVA	125%	172.250 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	214.09 kVA
TOTAL ESTIMATED DEMAND LOAD:	230.968 kVA
TOTAL CONNECTED AMPS:	594.25 A
TOTAL ESTIMATED DEMAND AMPS:	641.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL EUP-E

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 400/3P @ UPS-E
LOCATION: STORAGE 140

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 400 MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 12.62 kA

NOTES: EXISTING LOAD PER 30-DAY METERING REPORT PERFORMED 8/17/2026 THROUGH 9/17/2026.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A	B	C	VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1								0 0										2	
EB	3	UP1	100	3	1	--	8			0 0			8	--	1	3	100	UP2	4	EB
	5										0 0								6	
	7								0 0										8	EB
EB	9	EXISTING BREAKER	100	3	1	--	8			0 0									10	EB
	11										0 0								12	EB
	13								8.51 0										14	EB
NB	15	LUP1	100	3	3/0	3/0	2	1.66		5.45 --									16	
	17										4.46 --								18	
	19								8.9 --										20	
NB	21	LUP2	100	3	500	500	3/0	0.9		4.7 --									22	
	23										5.1 --								24	
	25	SPACE	--	1					-- --										26	
	27	SPACE	--	1						-- --									28	
	29	SPACE	--	1							-- --								30	
					Total Load:				25.00 kVA	17.74 kVA	17.15 kVA									
					Total Amps:				209.09	148.59	142.92									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	10.160 kVA	100%	10.160 kVA
Receptacles	26.960 kVA	68.55%	18.480 kVA
(E) Existing Load	22.770 kVA	125%	28.463 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	59.89 kVA
TOTAL ESTIMATED DEMAND LOAD:	57.103 kVA
TOTAL CONNECTED AMPS:	166.24 A
TOTAL ESTIMATED DEMAND AMPS:	158.5

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

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contents:
ELECTRICAL PANEL SCHEDULES

design. CD
date. 2026.09.11
project. 25.18

E7.01

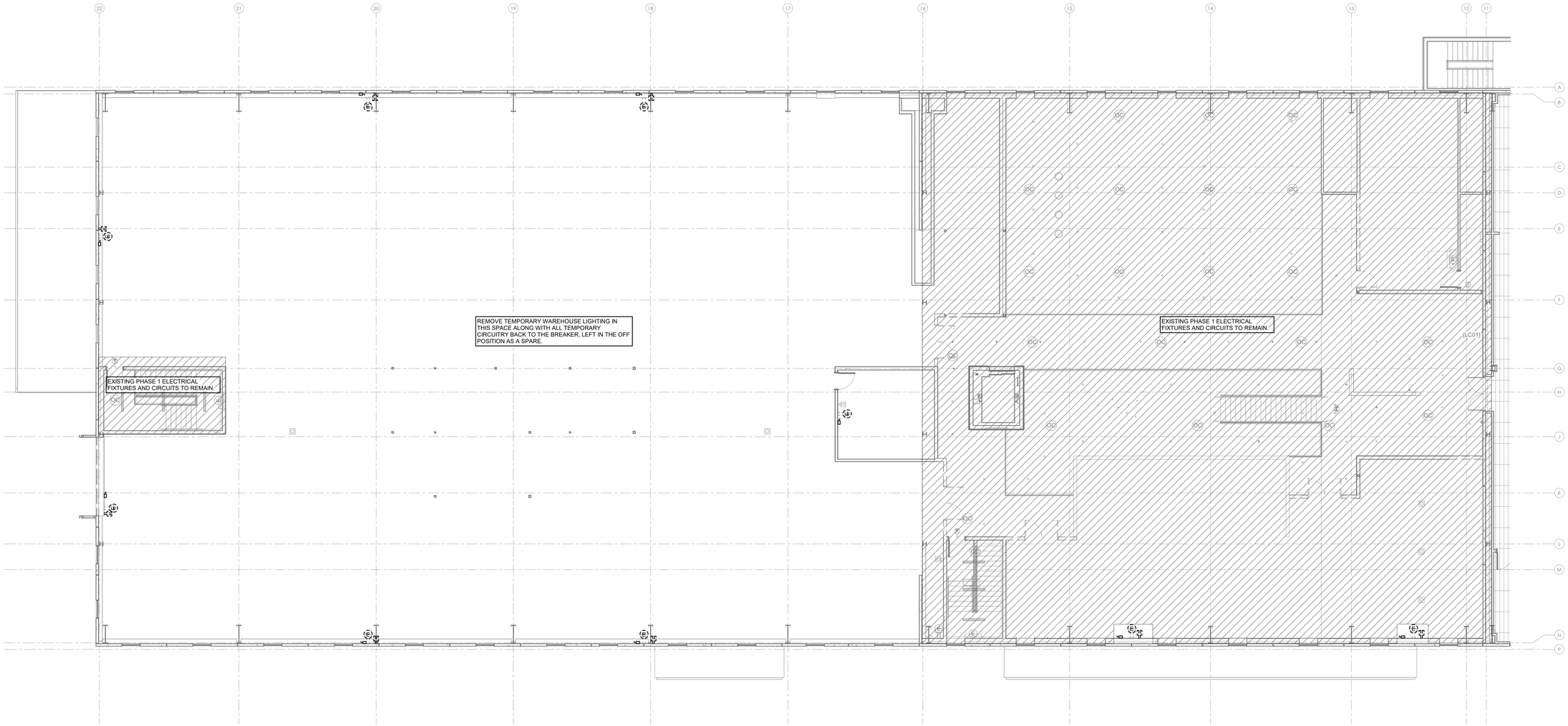
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PROJECT #260034

GENERAL DEMOLITION NOTES:

1. FOR ALL PANELS MARKED "DEMO": REMOVE PANEL AND ALL CIRCUITS FROM THE SITE. VERIFY PANELS IN THE WAREHOUSE AREA TO BE REMOVED DO NOT INCLUDE CIRCUITS SERVING THE EXISTING OFFICE SPACES OR EXTERIOR EQUIPMENT TO REMAIN. RELOCATE CIRCUITS TO REMAINING PANELS AS NEEDED.
2. REMOVE ALL EXISTING ELECTRICAL WITHIN THE SCOPE OF WORK. THIS INCLUDES ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, JUNCTION BOXES AND ASSOCIATED BRANCH CIRCUITING.
3. WHERE BRANCH CIRCUIT SERVES ELECTRICAL EQUIPMENT TO REMAIN, EC SHALL DISCONNECT PORTION OF CIRCUITING TO BE REMOVED AND SPLICE EXISTING WIRING AS REQUIRED TO MAINTAIN CONTINUITY.



NORTH

1 LEVEL 02 ELECTRICAL DEMOLITION PLAN PHASE 2

1/8" = 1'-0"

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contents:
ELECTRICAL DEMOLITION PLAN - ZONE B - LEVEL 02 - PHASE 2

design: CD
date: 2026.09.11
project: 25.18

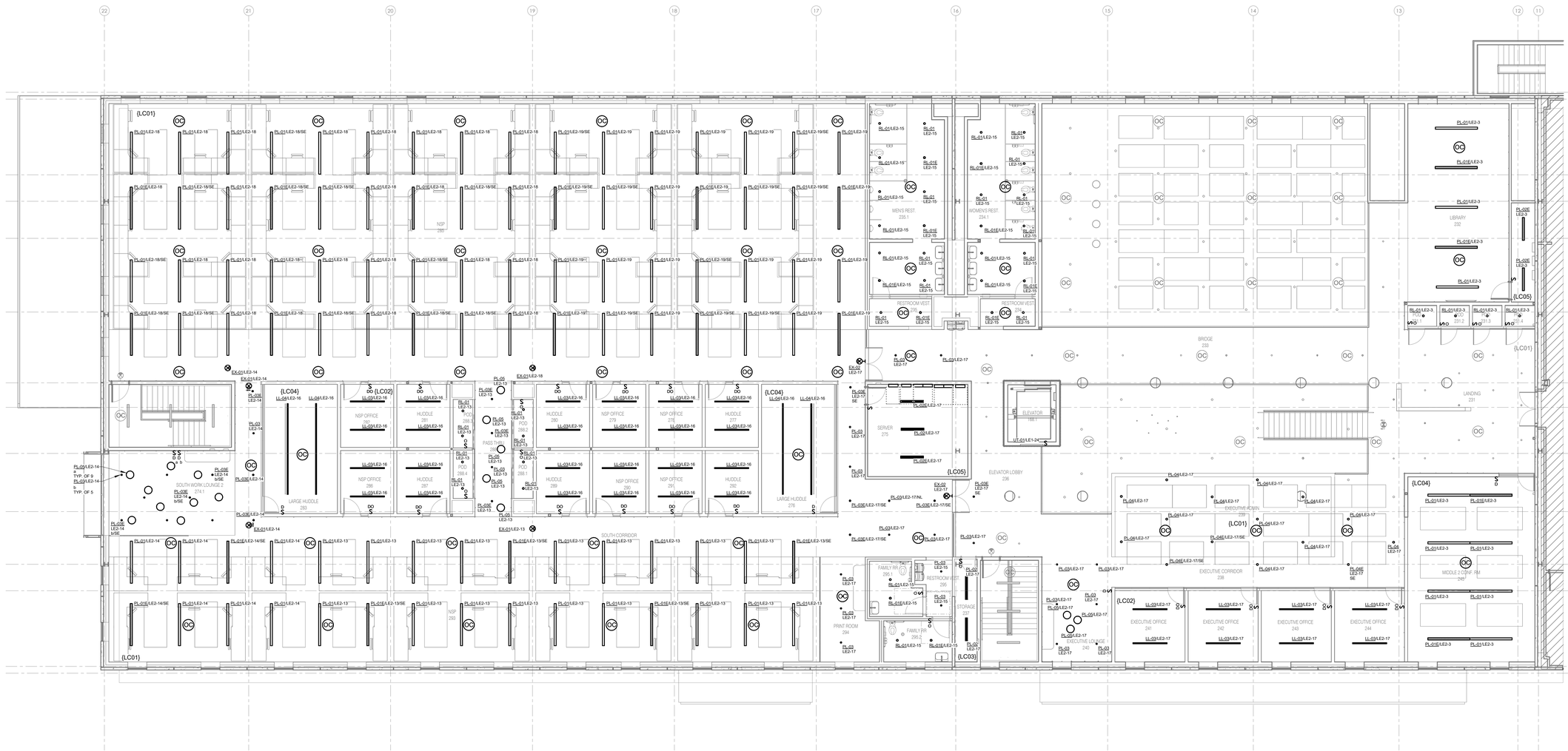
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PROJECT #260034



1 LEVEL 02 LIGHTING PLAN - ZONE B

1/8" = 1'-0"

NORTH

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contents:
LIGHTING PLAN - ZONE B - LEVEL 02 - PHASE 2

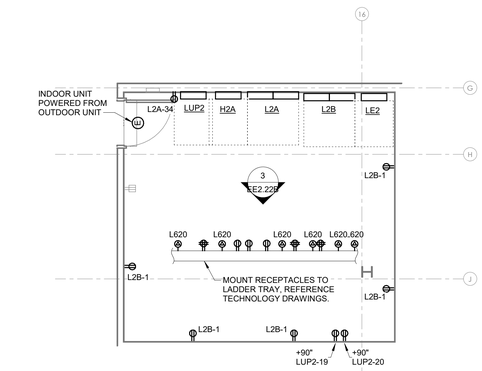
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project. 25.18

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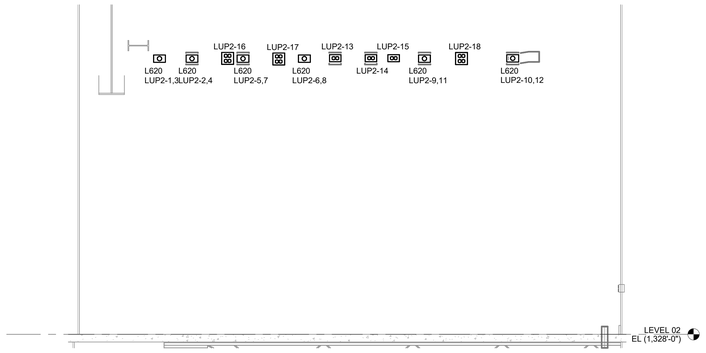
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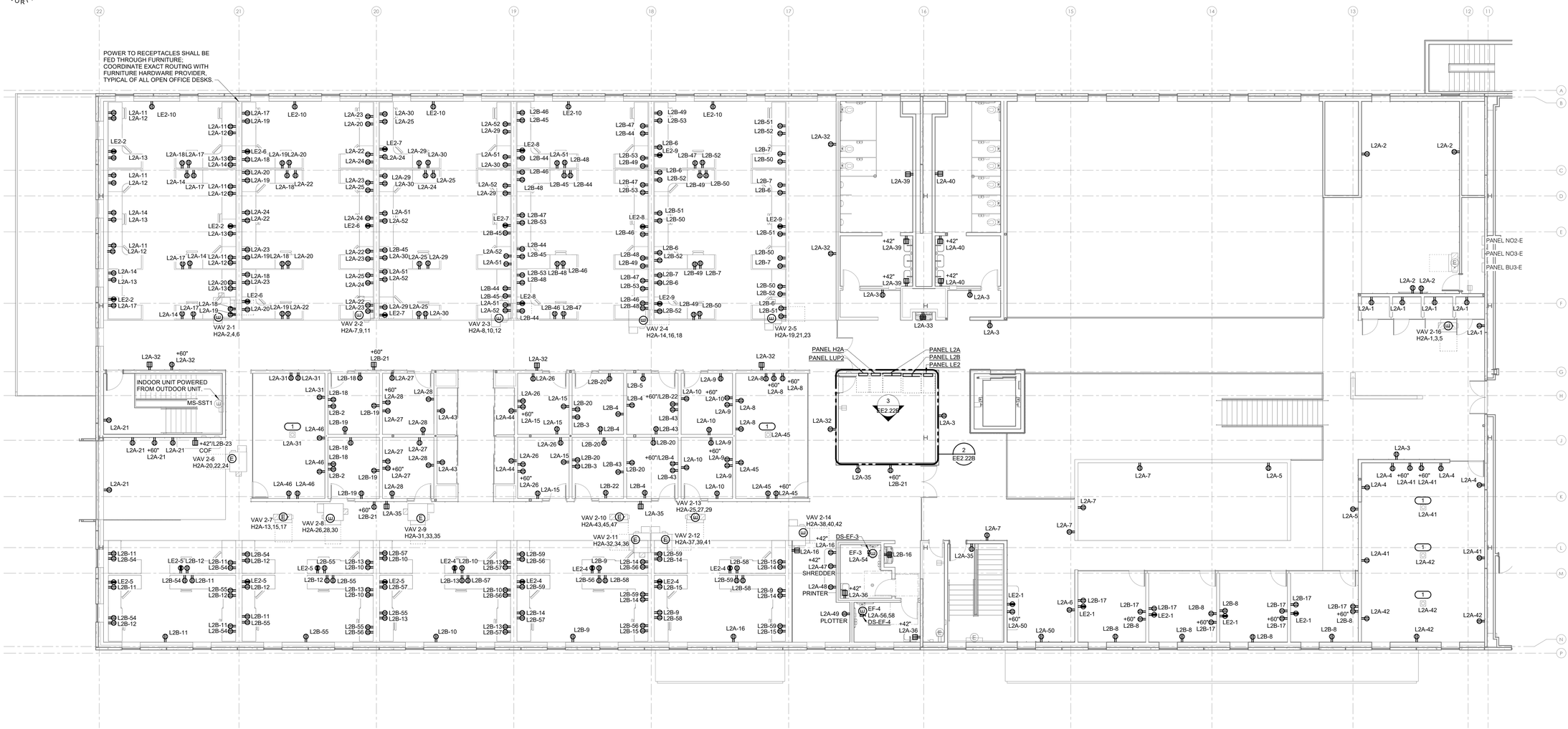
2 LEVEL 2 SERVER ENLARGED POWER PLAN

1/4" = 1'-0"



3 2ND FLOOR SERVER POWER ELEVATION

1/2" = 1'-0"



1 LEVEL 02 POWER PLAN - ZONE B

1/8" = 1'-0"

KEYNOTES
1. E.C. SHALL PROVIDE CIRCUITRY TO EXISTING FLOOR BOX ROUGH IN TO T.C. PROVIDED INSERTS.

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contents:
POWER PLAN - ZONE B - LEVEL 02 - PHASE 2

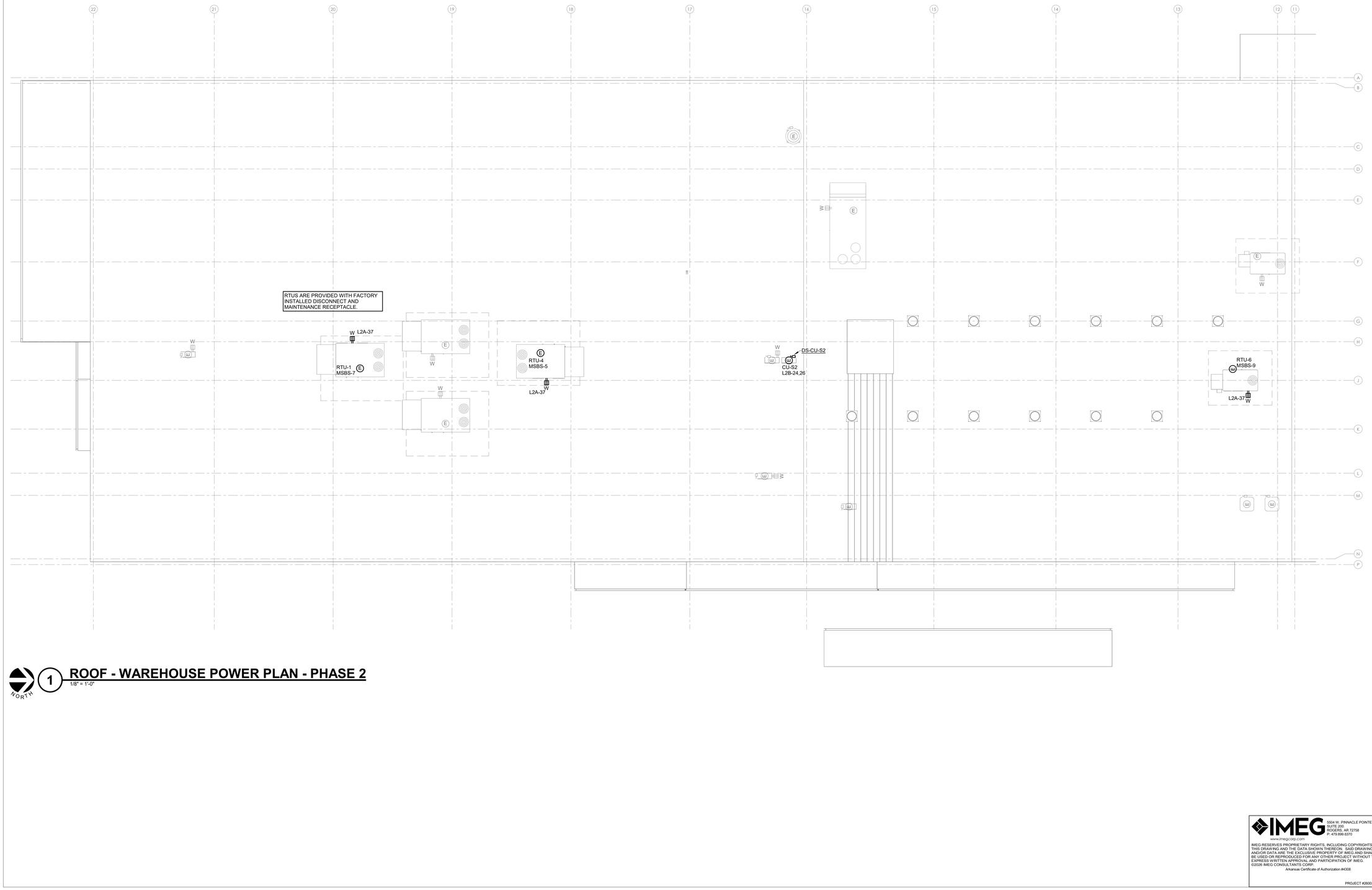
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PROJECT #260034



1 ROOF - WAREHOUSE POWER PLAN - PHASE 2

1/8" = 1'-0"

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PROJECT #260034

ELECTRICAL DISTRIBUTION SCHEDULE

ITEM	VOLTAGE	MAINS RATING / XFMR RATING	FEEDER: UPSTREAM OCPD OR TERMINATION	FEEDER: WIRE AND RACEWAY	CIRCUIT LENGTH	CONNECTED LOAD	ESTIMATED DEMAND LOAD	CONNECTED CURRENT	ESTIMATED DEMAND CURRENT	ESTIMATED ISC	SCCR	VOLTAGE DROP: FEEDERS: FEEDER VOLTAGE DROP	VOLTAGE DROP: FEEDERS: UPSTREAM FEEDERS VOLTAGE DROP	VOLTAGE DROP: FEEDERS: TOTAL FEEDER VOLTAGE DROP	VOLTAGE DROP: BRANCH CIRCUITS: MAX BRANCH VOLTAGE DROP	VOLTAGE DROP: BRANCH CIRCUITS: TOTAL VOLTAGE DROP AT MAX BRANCH	LEVEL	LOCATION	COMMENTS
MSB	480/277V, 3Ø4W	2,000 MCB	2,000	(5) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	127'-9"	1111.85 kVA	1057.85 kVA	1,337.3	1,272.4	17.87 kA	35 kA	0.60%		0.60%	2.91%	0.60%	LEVEL 01		
MSBS	480/277V, 3Ø4W	1,200 MLO	1,200	(6) SETS OF 4#600 & 1#350 EGC EACH IN 3 1/2" C.	297'-11"	819.56 kVA	734.13 kVA	985.8	883	15.74 kA	18 kA	0.75%	0.60%	1.35%	1.97%	3.32%	LEVEL 01	ELEC 196	
H1A	480/277V, 3Ø4W	400 MLO	400	4#600 & 1#3 EGC IN 3 1/2" C.	25'-7"	182.49 kVA	182.49 kVA	219.5	219.5	14.83 kA	18 kA	0.13%	1.35%	1.48%	2.37%	3.85%	LEVEL 01	ELEC 196	
H2A	480/277V, 3Ø4W	225 MLO	225	4#4/0 & 1#4 EGC IN 2 1/2" C.	55'-10"	102.67 kVA	102.67 kVA	123.5	123.5	11.50 kA	22 kA	0.29%	1.35%	1.64%	1.11%	2.75%	LEVEL 02	SERVER 275	
TDP	480:120/208V, 3Ø4W	225 kVA	500	(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	24'-9"	260.91 kVA	175.48 kVA	724.2	487.1	23.77 kA PRIMARY, 13.18 kA SECONDARY		0.09%	1.35%	1.44%		1.44%	LEVEL 01	ELEC 196	
LDP	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	15'-1"	260.91 kVA	175.48 kVA	724.2	487.1	13.16 kA	22 kA	0.20%	1.44%	1.64%	2.84%	4.48%	LEVEL 01	ELEC 196	
L1A	120/208V, 3Ø4W	225 MLO	225	4#4/0 & 1#4 EGC IN 2 1/2" C.	27'-0"	48.67 kVA	33.60 kVA	135.1	93.3	10.80 kA	22 kA	0.30%	1.64%	1.94%	2.89%	4.83%	LEVEL 01	ELEC 196	
L1B	120/208V, 3Ø4W	225 MLO	225	4#4/0 & 1#4 EGC IN 2 1/2" C.	23'-4"	82.46 kVA	67.41 kVA	228.9	187.1	11.07 kA	22 kA	0.28%	1.64%	1.92%	2.99%	4.91%	LEVEL 01	ELEC 196	
L2A	120/208V, 3Ø4W	225 MLO	225	(2) SETS OF 4#250 & 1#1/0 EGC EACH IN 2 1/2" C.	69'-2"	42.62 kVA	28.00 kVA	118.3	77.7	11.50 kA	22 kA	0.37%	1.64%	2.01%	2.99%	5.00%	LEVEL 02	SERVER 275	
L2B	120/208V, 3Ø4W	225 MLO	225	(2) SETS OF 4#4/0 & 1#1 EGC EACH IN 2 1/2" C.	72'-9"	40.78 kVA	27.78 kVA	113.2	77.1	11.50 kA	22 kA	0.43%	1.64%	2.07%	2.93%	5.00%		SERVER 275	
L1C	120/208V, 3Ø4W	100 MLO	100	4#3 & 1#8 EGC IN 1 1/4" C.	21'-4"	25.38 kVA	17.69 kVA	70.4	49.1	8.54 kA	10 kA	0.36%	1.64%	2.00%	2.87%	4.87%	LEVEL 01	ELEC 196	
TMDP1	480:120/208V, 3Ø4W	500 kVA	800	(2) SETS OF 3#600 & 1#1/0 EGC EACH IN 3" C.	17'-5"	78.2 kVA	97.75 kVA	217.1	271.3	17.44 kA PRIMARY, 19.69 kA SECONDARY		0.08%	0.60%	0.68%		0.68%	LEVEL 01		
ECB-MDP1	120/208V, 3Ø4W	1,200 MCB	1,200	(3) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	18'-1"	78.2 kVA	97.75 kVA	217.1	271.3	18.79 kA	22 kA	0.21%	0.68%	0.89%		0.89%			
MDP1-E	120/208V, 3Ø4W	1,200 MCB	1,200	(3) SETS OF 4#600 & 1#3/0 EGC EACH IN 3 1/2" C.	150'-3"	78.2 kVA	97.75 kVA	217.1	271.3	13.70 kA	22 kA	1.74%	0.89%	2.63%	2.97%	5.60%	LEVEL 01	ELECTRIC 115	
TMDP2	480:120/208V, 3Ø4W	300 kVA	500	(2) SETS OF 3#250 & 1#2 EGC EACH IN 2" C.	23'-9"	214.09 kVA	230.97 kVA	594.2	641.1	17.07 kA PRIMARY, 21.28 kA SECONDARY		0.11%	0.60%	0.71%		0.71%	LEVEL 01		
ECB-MDP2	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 SSBJ EACH IN 3 1/2" C.	12'-1"	214.09 kVA	230.97 kVA	594.2	641.1	20.24 kA	42 kA	0.14%	0.71%	0.85%		0.85%	LEVEL 01		
ATS-E	120/208V, 3Ø4W	800	800 NORMAL, 800	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. NORMAL, (2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C. STANDBY	20'-0"	214.09 kVA	230.97 kVA	594.2	641.1	18.75 kA NORMAL, 0.00 kA STANDBY	22 kA	0.23%	0.85%	1.08%		1.08%	LEVEL 01		
MDP2-E	120/208V, 3Ø4W	800 MCB	800	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C.	19'-5"	214.09 kVA	230.97 kVA	594.2	641.1	17.50 kA	22 kA	0.22%	1.08%	1.30%	2.35%	3.65%	LEVEL 01	STORAGE 140	
LE1	120/208V, 3Ø4W	225 MLO	225	(3) SETS OF 4#400 & 1#250 EGC EACH IN 3" C.	274'-5"	39.17 kVA	35.08 kVA	108.7	97.4	14.35 kA	22 kA	0.72%	1.30%	2.02%	2.82%	4.84%	LEVEL 01	SERVER 174	
LE2	120/208V, 3Ø4W	100 MLO	100	4#2/0 & 1#3 EGC IN 2" C.	24'-8"	14.9 kVA	14.90 kVA	41.3	41.3	11.50 kA	22 kA	0.19%	2.02%	2.21%	2.87%	5.08%	LEVEL 02	SERVER 275	
UPS-E	120/208V, 3Ø4W	400 MLO	400	4#600 & 1#3 EGC IN 3 1/2" C.	31'-5"	59.89 kVA	57.10 kVA	166.2	158.5	14.45 kA	22 kA	0.36%	1.30%	1.66%		1.66%	LEVEL 01	STORAGE 140	
EUP-E	120/208V, 3Ø4W	400 MCB	400	4#600 & 1#3 EGC IN 3 1/2" C.	26'-11"	59.89 kVA	57.10 kVA	166.2	158.5	12.62 kA	22 kA	0.31%	1.66%	1.97%	2.07%	4.04%	LEVEL 01	STORAGE 140	
LUP1	120/208V, 3Ø4W	100 MLO	100	4#3/0 & 1#2 EGC IN 2" C.	265'-8"	18.42 kVA	17.04 kVA	51.1	47.3	4.35 kA	10 kA	1.66%	1.97%	3.63%	0.60%	4.23%	LEVEL 01	SERVER 174	
LUP2	120/208V, 3Ø4W	100 MLO	100	4#500 & 1#3/0 EGC IN 3" C.	287'-3"	18.7 kVA	16.60 kVA	51.9	46.1	11.50 kA	22 kA	0.90%	1.97%	2.87%	0.80%	3.67%	LEVEL 02	SERVER 275	

ELECTRICAL CONNECTION SCHEDULE

	ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTOR	MOTORS: QTY @ HP	MOTORS: QTY @ HP	MOTORS: QTY @ HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT: BY	DISCONNECT: TYPE	CONTROLLER / STARTER: BY	CONTROLLER / STARTER: TYPE	COMMENTS
	MS-S2		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	0.21 kVA	0	1	15	0	No			4	0					INDOOR UNIT POWERED FROM OUTDOOR UNIT, PROVIDE WIRING PER MANUFACTURERS RECOMMENDATIONS.
H2A																								
	VAV 2-1		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	10	10.00 kVA	13.8	15	0	15	No	2,4,6	3#12 & 1#12 EGC IN 3/4" C.	912.4	0	MFR	NF			
	VAV 2-2		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	7	7.64 kVA	9.2	10.5	15	15	No	7,9,11	3#12 & 1#12 EGC IN 3/4" C.	1,097.1	0	MFR	NF			
	VAV 2-3		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	7	7.64 kVA	9.2	10.5	15	15	No	8,10,12	3#12 & 1#12 EGC IN 3/4" C.	1,379.8	0	MFR	NF			
	VAV 2-4		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	7	7.64 kVA	9.2	10.5	15	15	No	14,16,18	3#12 & 1#12 EGC IN 3/4" C.	1,876.1	0	MFR	NF			
	VAV 2-5		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	9.5	9.50 kVA	12.8	14.3	0	15	No	19,21,23	3#12 & 1#12 EGC IN 3/4" C.	2,718.5	0	MFR	NF			
	VAV 2-6		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	7	8.14 kVA	9.8	10.5	15	15	No	20,22,24	3#12 & 1#12 EGC IN 3/4" C.	903.3	0	MFR	NF			
	VAV 2-7		480, 3Ø	Power	No	0 - 0	0 - 0	0 - 0	4	5.14 kVA	6.2	6	15	15	No	13,15,17	3#12 & 1#12 EGC IN 3/4" C.	886.3	0	MFR	NF			
	VAV 2-8		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	6	6.64 kVA	8	9	15	15	No	26,28,30	3#12 & 1#12 EGC IN 3/4" C.	943.8	0	MFR	NF			
	VAV 2-9		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	9	9.00 kVA	12.2	13.5	0	15	No	31,33,35	3#12 & 1#12 EGC IN 3/4" C.	1,059.2	0	MFR	NF			
	VAV 2-10		480, 3Ø	Power	No	0 - 0	0 - 0	0 - 0	4	5.14 kVA	6.2	6	15	15	No	43,45,47	3#12 & 1#12 EGC IN 3/4" C.	1,456.4	0	MFR	NF			
	VAV 2-11		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	4.5	5.14 kVA	6.2	6.8	15	15	No	32,34,36	3#12 & 1#12 EGC IN 3/4" C.	1,441	0	MFR	NF			
	VAV 2-12		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	4.5	5.14 kVA	6.2	6.8	15	15	No	37,39,41	3#12 & 1#12 EGC IN 3/4" C.	1,510.8	0	MFR	NF			
	VAV 2-13		480, 3Ø	Power	No	0 - 0	0 - 0	0 - 0	4.5	5.64 kVA	6.8	6.8	15	15	No	25,27,29	3#12 & 1#12 EGC IN 3/4" C.	1,702.1	0	MFR	NF			
	VAV 2-14		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	6.5	7.64 kVA	9.2	9.8	15	15	No	38,40,42	3#12 & 1#12 EGC IN 3/4" C.	2,133	0	MFR	NF			
	VAV 2-16		480, 3Ø	Power	No	0 - 0	0 - 0	0 - 0	1.5	2.64 kVA	3.2	2.3	15	15	No	1,3,5	3#12 & 1#12 EGC IN 3/4" C.	1,024.8	0	MFR	NF			
L2A																								
	EF-3		120, 1Ø	Power	Yes	1 @ 0.01	0 - 0	0 - 0	0	0.53 kVA	4.4	5.5	15	15	No	54	2#12 & 1#12 EGC IN 3/4" C.	622.8	0			EC	MX	
	EF-4		208, 1Ø	Power	Yes	1 @ 0.03	0 - 0	0 - 0	0	0.50 kVA	2.4	3	15	15	No	56,58	2#12 & 1#12 EGC IN 3/4" C.	824.2	0			EC	MX	
L2B																								
	CU-S2		208, 1Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	4.78 kVA	0	23	40	40	No	24,26	2#10 & 1#10 EGC IN 3/4" C.	1,425.1	0	EC	NF			
MSBS																								
	RTU-1		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	33.26 kVA	0	40	50	50	No	7	3#8 & 1#10 EGC IN 3/4" C.	3,192.6	0	MFR	NF			
	RTU-4		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	49.05 kVA	0	59	80	80	No	5	3#4 & 1#8 EGC IN 1" C.	6,521	0	MFR	NF			
	RTU-6		480, 3Ø	Power	Yes	0 - 0	0 - 0	0 - 0	0	24.94 kVA	0	30	40	40	No	9	3#10 & 1#10 EGC IN 3/4" C.	2,187.4	0	MFR	NF			

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	**ACCESSORIES & OPTIONS**	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING: TYPE	RATING	TRIP RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	STARTER: TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
DS-EF-3	NF	30		120	1			NEMA 1		
DS-EF-4	NF	30		208	2			NEMA 1		
DS-CU-S2	NF	60		208	3			NEMA 3R		

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ELECTRICAL SCHEDULES - PHASE 2

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PROJECT #260034

1 2 3 4 5 6

PANEL H2A

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ MSBS
LOCATION: SERVER 275

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.50 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1								0.88	3.33												2	
	3	VAV 2-16	15	3	12	12	12	0.26			0.88	3.33			1.11	12	12	12	3	15	VAV 2-1	4	
	5												0.88	3.33								6	
	7								2.55	2.55												8	
	9	VAV 2-2	15	3	12	12	12	0.69			2.55	2.55			0.54	12	12	12	3	15	VAV 2-3	10	
	11												2.55	2.55								12	
	13								1.71	2.55												14	
	15	VAV 2-7	15	3	12	12	12	0.59			1.71	2.55			0.38	12	12	12	3	15	VAV 2-4	16	
	17												1.71	2.55								18	
	19								3.17	2.71												20	
	21	VAV 2-5	15	3	12	12	12	0.29			3.17	2.71			0.92	12	12	12	3	15	VAV 2-6	22	
	23												3.17	2.71								24	
	25								1.88	2.21												26	
	27	VAV 2-13	15	3	12	12	12	0.31			1.88	2.21			0.71	12	12	12	3	15	VAV 2-8	28	
	29												1.88	2.21								30	
	31								3	1.71												32	
	33	VAV 2-9	15	3	12	12	12	0.85			3	1.71			0.3	12	12	12	3	15	VAV 2-11	34	
	35												3	1.71								36	
	37								1.71	2.55												38	
	39	VAV 2-12	15	3	12	12	12	0.33			1.71	2.55			0.32	12	12	12	3	15	VAV 2-14	40	
	41												1.71	2.55								42	
	43								1.71	--									1	--	SPACE	44	
	45	VAV 2-10	15	3	12	12	12	0.34			1.71	--							1	--	SPACE	46	
	47												1.71	--					1	--	SPACE	48	
	49	SPARE	20	1					0	--									1	--	SPACE	50	
	51	SPARE	20	1							0	--							1	--	SPACE	52	
	53	SPARE	20	1									0	--					1	--	SPACE	54	
	55	SPACE	--	1					--	--									1	--	SPACE	56	
	57	SPACE	--	1							--	--							1	--	SPACE	58	
	59	SPACE	--	1									--	--					1	--	SPACE	60	
								Total Load:	34.22 kVA		34.22 kVA		34.22 kVA										
								Total Amps:	123.55		123.55		123.55										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	102.668 kVA	100%	102.668 kVA		
				TOTAL CONNECTED LOAD:	102.67 kVA
				TOTAL ESTIMATED DEMAND LOAD:	102.668 kVA
				TOTAL CONNECTED AMPS:	123.49 A
				TOTAL ESTIMATED DEMAND AMPS:	123.5

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL LE2

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 100/3P @ LE1
LOCATION: SERVER 275

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.50 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	LVL 2 EXEC OFFICE RECS	20	1	12	12	12	1.95	0.9	0.54					2.57	12	12	12	1	20	NSP 285 RECS	2	
	3	LIGHTS	20	1	12	12	12	2.77			0.51	0.9			2.34	12	12	12	1	20	NSP 293 RECS	4	
	5	NSP 293 RECS	20	1	10	10	10	2.3					0.9	0.54	2.24	12	12	12	1	20	NSP 285 RECS	6	
	7	NSP 285 RECS	20	1	12	12	12	1.92	0.54	0.54					1.56	12	12	12	1	20	NSP 285 RECS	8	
	9	NSP 285 RECS	20	1	12	12	12	1.2			0.54	0.9			1.96	10	10	10	1	20	OPEN OFFICE REC	10	
	11	SPARE	20	1									0	0					1	20	SPARE	12	
	13	OPEN OFFICE|POD|PASS LTG	20	1	8	8	8	2.75	1.21	0.73					2.63	10	10	10	1	20	OPEN OFFICE|LOUNGE|S. STR LTG	14	
	15	RESTROOM LTG	20	1	12	12	12	2.59			0.78	1.63			2.23	8	8	8	1	20	HUDDLE|NSP LTG	16	
	17	PRNT||SERVER|HALLWAY LTG	20	1	6	6	6	2.87					1.34	1.38	2.29	6	6	6	1	20	OPEN OFFICE LTG	18	
	19	OPEN OFFICE LTG	20	1	10	10	10	2.58	1.01	0									1	20	SPARE	20	
	21	SPARE	20	1							0	--							1	--	SPACE	22	
	23	SPARE	20	1									0	--					1	--	SPACE	24	
	25	SPARE	20	1					0	--									1	--	SPACE	26	
	27	SPARE	20	1							0	--							1	--	SPACE	28	
	29	SPARE	20	1									0	--					1	--	SPACE	30	
	31	SPACE	--	1					--	--									1	--	SPACE	32	
	33	SPACE	--	1							--	--							1	--	SPACE	34	
	35	SPACE	--	1									--	--					1	--	SPACE	36	
	37	SPACE	--	1					--	--									1	--	SPACE	38	
	39	SPACE	--	1							--	--							1	--	SPACE	40	
	41	SPACE	--	1									--	--					1	--	SPACE	42	
								Total Load:	5.47 kVA		5.26 kVA		4.17 kVA										
								Total Amps:	46.97		45.26		34.72										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	8.597 kVA	100%	8.597 kVA		
Receptacles	6.300 kVA	100%	6.300 kVA	TOTAL CONNECTED LOAD:	14.90 kVA
				TOTAL ESTIMATED DEMAND LOAD:	14.897 kVA
				TOTAL CONNECTED AMPS:	41.35 A
				TOTAL ESTIMATED DEMAND AMPS:	41.3

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL L2A

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ LDP
LOCATION: SERVER 275

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.50 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	POD RECS	20	1	12	12	12	2.61	0.9	0.72					2.54	12	12	12	1	20	LIBRARY RECS	2	
	3	LANDING|BRIDGE|LOBBY RECS	20	1	12	12	12	1.73			0.9	0.72			2.23	12	12	12	1	20	MID 2 CONF RM RECS	4	
	5	EXEC ADMIN 242 RECS	20	1	12	12	12	0.9					0.36	0.18	0.35	12	12	12	1	20	EXEC OFFICE RECS	6	
	7	EXEC ADMIN 242 RECS	20	1	12	12	12	1.27	0.72	0.9					0.87	12	12	12	1	20	HUDDLE 276 RECS	8	
	9	HUDDLE 277/292 RECS	20	1	12	12	12	1.16			0.9	0.9			1.46	12	12	12	1	20	HUDDLE 277/292 RECS	10	
	11	NSP 285 RECS	20	1	10	10	10	2.99					1.08	1.08	2.97	10	10	10	1	20	NSP 285 RECS	12	
	13	NSP 285 RECS	20	1	10	10	10	2.86	1.08	1.08					2.91	10	10	10	1	20	NSP 285 RECS	14	
	15	HUDDLE 280/289 RECS	20	1	12	12	12	2			0.9	0.54			0.87	12	12	12	1	20	PRINT RM 294 RECS	16	
	17	NSP 285 RECS	20	1	10	10	10	2.96					1.08	1.08	2.74	10	10	10	1	20	NSP 285 RECS	18	
	19	NSP 285 RECS	20	1	10	10	10	2.52	1.08	1.08					2.74	10	10	10	1	20	NSP 285 RECS	20	
	21	LOUNGE RECS	20	1	10	10	10	2.22			0.9	1.08			2.46	10	10	10	1	20	NSP 285 RECS	22	
	23	NSP 285 RECS	20	1	10	10	10	2.47					1.08	1.08	2.35	10	10	10	1	20	NSP 285 RECS	24	
	25	NSP 285 RECS	20	1	10	10	10	2.13	1.08	0.9					1.98	12	12	12	1	20	HUDDLE 280/289 RECS	26	
	27	HUDDLE 281/287 RECS	20	1	12	12	12	2.54			0.9	0.9			2.56	12	12	12	1	20	HUDDLE 281/287 RECS	28	
	29	NSP 285 RECS	20	1	10	10	10	2.41					1.08	1.08	2.31	10	10	10	1	20	NSP 285 RECS	30	
	31	HUDDLE 283 RECS	20	1	12	12	12	2.21	0.72	1.26					2.76	10	10	10	1	20	CONVENIENCE RECS	32	
	33	EWH QUAD	20	1	12	12	12	0.3			0.36	0.18			0.11	12	12	12	1	20	SERVER 275 REC	34	
	35	CONVENIENCE RECS	20	1	12	12	12	1.78					0.72	0.36	0.59	12	12	12	1	20	RESTROOM RECS	36	
	37	ROOF MAINT. RECS	20	1	12	12	12	2.4	0.54	0									1	20	SPARE	38	
	39	MENS REST. RECS	20	1	12	12	12	0.44			0.54	0.54			0.53	12	12	12	1	20	WOMENS REST. RECS	40	
	41	MID 2 CONF RM RECS	20	1	10	10	10	1.91					0.9	0.9	2.11	10	10	10	1	20	MID 2 CONF RM RECS	42	
	43	POD RECS	20	1	12	12	12	0.89	0.36	0.36					0.8	12	12	12	1	20	POD RECS	44	
	45	HUDDLE 276 RECS	20	1	12	12	12	0.94			0.72	0.72			2.33	12	12	12	1	20	HUDDLE 283 RECS	46	
	47	SHREDDER	20	1	12	12	12	0.84					0.55	1.8	1.83	10	10	10	1	20	PRINTER	48	
	49	PLOTTER	20	1	12	12	12	0.31	0.18	0.36					0.7	12	12	12	1	20	EXEC OFFICE RECS	50	
	51	NSP 285 RECS	20	1	10	10	10	2.06			1.08	1.08			2.02	10	10	10	1	20	NSP 285 RECS	52	
	53	SPARE	20	1									0	0.53	0.63	12	12	12	1	15	EF-3	54	
	55	SPARE	20	1					0	0.25					0.25	12	--	12	2	15	EF-4	56	
	57	SPARE	20	1							0	0.25										58	
	59	SPARE	20	1									0	--					1	--	SPACE	60	
	61	SPARE	20	1					0	--									1	--	SPACE	62	
	63	SPARE	20	1							0	--							1	--	SPACE	64	
	65	SPARE	20	1									0	--					1	--	SPACE	66	
	67	SPARE	20	1					0	--									1	--	SPACE	68	
	69	SPARE	20	1							0	--							1	--	SPACE	70	
	71	SPARE	20	1									0	--					1	--	SPACE	72	
	73	SPARE	20	1					0	--									1	--	SPACE	74	
	75	SPARE	20	1							0	--							1	--	SPACE	76	
	77	SPARE	20	1									0	--					1	--	SPACE	78	
	79	SPARE	20	1					0	--									1	--	SPACE	80	
	81	SPARE	20	1							0	--							1	--	SPACE	82	
	83	SPARE	20	1									0	--					1	--	SPACE	84	
								Total Load:	13.57 kVA		14.11 kVA		14.94 kVA										
								Total Amps:	113.08		118.27		125.18										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	3.377 kVA	100%	3.377 kVA		
Receptacles	39.240 kVA	62.74%	24.620 kVA	TOTAL CONNECTED LOAD:	42.62 kVA
				TOTAL ESTIMATED DEMAND LOAD:	27.997 kVA
				TOTAL CONNECTED AMPS:	118.29 A
				TOTAL ESTIMATED DEMAND AMPS:	77.7

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL LUP2

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 100/3P @ EUP-E
LOCATION: SERVER 275

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.50 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	NETWORK RACKS	20	2	12	--	12	0.8	1.55	1.55					0.76	12	--	12	2	20	NETWORK RACKS	2	
	3										1.55	1.55										4	
	5	NETWORK RACKS	20	2	12	--	12	0.72					1.55	1.55	0.66	12	--	12	2	20	NETWORK RACKS	6	
	7								1.55	1.55												8	
	9	FUTURE RACKS	20	2	12	--	12				0	0				12	--	12	2	20	FUTURE RACKS	10	
	11												0	0								12	
	13	AV RACKS	20	1	12	12	12	0.37	0.6	0.6					0.35	12	12	12	1	20	AV RACKS	14	
	15	AV RACKS	20	1	12	12	12	0.34			0.6	1			0.71	12	12	12	1	20	NETWORK RACKS	16	
	17	NETWORK RACKS	20	1	12	12	12	0.67					1	1	0.5	12	12	12	1	20	FUTURE RACKS	18	
	19	FUTURE ACCESS CONTROL RECS	20	1	12	12	12	0.7	0.75	0.75					0.7	12	12	12	1	20	FUTURE ACCESS CONTROL RECS	20	
	21	SPARE	20	1							0	--							1	--	SPACE	22	
	23	SPARE	20	1									0	--					1	--	SPACE	24	
	25	SPARE	20	1					0	--									1	--	SPACE	26	
	27	SPARE	20	1							0	--							1	--	SPACE	28	
	29	SPARE	20	1									0	--					1	--	SPACE	30	
	31	SPACE	--	1					--	--									1	--	SPACE	32	
	33	SPACE	--	1							--	--							1	--	SPACE	34	
	35	SPACE	--	1									--	--					1	--	SPACE	36	
	37	SPACE	--	1					--	--									1	--	SPACE	38	
	39	SPACE	--	1							--	--							1	--	SPACE	40	
	41	SPACE	--	1									--	--					1	--	SPACE	42	
								Total Load:	8.90 kVA		4.70 kVA		5.10 kVA										
								Total Amps:	74.68		39.17		43.01										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	4.500 kVA	100%	4.500 kVA		
Receptacles	14.200 kVA	85.21%	12.100 kVA	TOTAL CONNECTED LOAD:	18.70 kVA
				TOTAL ESTIMATED DEMAND LOAD:	16.600 kVA
				TOTAL CONNECTED AMPS:	51.91 A
				TOTAL ESTIMATED DEMAND AMPS:	46.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL L2B

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 225/3P @ LDP
LOCATION: SERVER 275

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 11.50 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	SERVER RM RECS	20	1	12	12	12	0.84	0.9	0.36					1.1	12	12	12	1	20	NSP 282/286 RECS	2	
	3	NSP 279/290/291 RECS	20	1	12	12	12	0.7			0.36	0.9			1.78	12	12	12	1	20	NSP 278/279/291 RECS	4	
	5	NSP 278/279 RECS	20	1	12	12	12	0.3					0.18	1.08	2.27	12	12	12	1	20	NSP 285 RECS	6	
	7	NSP 285 RECS	20	1	12	12	12	1.76	0.9	1.44					2.8	10	10	10	1	20	EXEC OFFICE RECS	8	
	9	NSP 293 RECS	20	1	12	12	12	1.8			0.72	1.08			2.38	10	10	10	1	20	NSP 293 RECS	10	
	11	NSP 293 RECS	20	1	8	8	8	2.5					1.26	1.08	2.88	10	10	10	1	20	NSP 293 RECS	12	
	13	NSP 293 RECS	20	1	10	10	10	2.33	1.08	1.08					2.51	12	12	12	1	20	NSP 293 RECS	14	
	15	NSP 293 RECS	20	1	12	12	12	1.53			0.72	0.36			0.5	12	12	12	1	20	EWC	16	
	17	EXEC OFFICE RECS	20	1	10	10	10	2.38					1.44	0.72	2.18	12	12	12	1	20	NSP 282/286 RECS	18	
	19	NSP 282/286 RECS	20	1	12	12	12	2.24	0.72	1.08					2.38	12	12	12	1	20	NSP 279/290/291 RECS	20	
	21	RECS	20	1	12	12	12	1.4			0.54	0.36			0.65	12	12	12	1	20	NSP 278/290 RECS	22	
	23	COFFEE MAKER	20	1	12	12	12	0.72					0.18	2.39	0.62	10	--	10	2	40	CU-S2	24	
	25	SPARE	20	1					0	2.39												26	
	27	SPARE	20	1							0	--							1	--	SPACE	28	
	29	SPARE	20	1									0	--					1	--	SPACE	30	
	31	SPACE	--	1					--	--									1	--	SPACE	32	
	33	SPACE	--	1							--	--							1	--	SPACE	34	
	35	SPACE	--	1									--	--					1	--	SPACE	36	
	37	SPACE	--	1					--	--									1	--	SPACE	38	
	39	SPACE	--	1							--	--							1	--	SPACE	40	
	41	SPACE	--	1									--	--					1	--	SPACE	42	
	43	NSP 278/290/291 RECS	20	1	12	12	12	1.2	0.72	1.08					1.85	10	10	10	1	20	NSP 285 RECS	44	
	45	NSP 285 RECS	20	1	10	10	10	2.07			1.08	1.08			2.93	12	12	12	1	20	NSP 285 RECS	46	
	47	NSP 285 RECS	20	1	10	10	10	1.92					1.08	1.08	2.62	12	12	12	1	20	NSP 285 RECS	48	
	49	NSP 285 RECS	20	1	12	12	12	2.23	1.08	1.08					2.09	12	12	12	1	20	NSP 285 RECS	50	
	51	NSP 285 RECS	20	1	12	12	12	1.22			0.72	1.08			2.3	12	12	12	1	20	NSP 285 RECS	52	
	53	NSP 285 RECS	20	1	12	12	12	2.88					1.08	1.08	2.01	8	8	8	1	20	NSP 293 RECS	54	
	55	NSP 293 RECS	20	1	8	8	8	2.2	1.26	1.08					2.14	10	10	10	1	20	NSP 293 RECS	56	
	57	NSP 293 RECS	20	1	10	10	10	2.37			1.08	0.72			1.58	12	12	12	1	20	NSP 293 RECS	58	
	59	NSP 293 RECS	20	1	10	10	10	2					1.08	--					1	--	SPACE	60	
	61	SPARE	20	1					0	--									1	--	SPACE	62	
	63	SPARE	20	1							0	--							1	--	SPACE	64	
	65	SPARE	20	1									0	--					1	--	SPACE	66	
	67	SPARE	20	1					0	--									1	--	SPACE	68	
	69	SPARE	20	1							0	--							1	--	SPACE	70	
	71	SPARE	20	1									0	--					1	--	SPACE	72	
	73	SPACE	--	1					--	--									1	--	SPACE	74	
	75	SPACE	--	1							--	--							1	--	SPACE	76	
	77	SPACE	--	1									--	--					1	--	SPACE	78	
	79	SPACE	--	1					--	--									1	--	SPACE	80	
	81	SPACE	--	1							--	--							1	--	SPACE	82	
	83	SPACE	--	1									--	--					1	--	SPACE	84	
								Total Load:	16.25 kVA		10.80 kVA		13.73 kVA										
								Total Amps:	139.19		90.00		118.19										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	4.784 kVA	100%	4.784 kVA		
Receptacles	36.000 kVA	63.89%	23.000 kVA	TOTAL CONNECTED LOAD:	40.78 kVA
				TOTAL ESTIMATED DEMAND LOAD:	27.784 kVA
				TOTAL CONNECTED AMPS:	113.21 A
				TOTAL ESTIMATED DEMAND AMPS:	77.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

A B C D E

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:
revisions:
mark date description

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PROJECT #260034

contents.
ELECTRICAL PANEL SCHEDULES - PHASE 2

design. CD
date. 2026.09.11
project. 25.18

EE7.00

WACHTER TECHNOLOGY SOLUTIONS
9000 COMMERCE PARKWAY, MT LAUREL, NJ 08054

PROJECT

WACHTER OFFICE REMODEL
1419 WEST MONROE AVENUE
LOWELL, AR 72745

JOB

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contents
AV COVER SHEET

design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TA.000

WACHTER LOWELL REMODEL
1419 WEST MONROE AVENUE
LOWELL, AR 72745

DRAWING NO	DESCRIPTION	1	2	3	4	5	6	7	8	A	B	C	D
TA.000	AV COVER PAGE		X	X	X	X	X	X	X				
TA.001	AV SHEET LIST & RESPONSIBILITY MATRIX		X	X	X	X	X	X	X				
TA.002	AV NOTES		X	X	X	X	X	X	X				
TA.003	AV FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.004	AV RCP AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.005	AV FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TA.006	AV RCP AREA OF WORK - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TA.010	AV DETAILS			X	X	X	X	X	X				
TA.100	AV BREAK ROOM 1 FACILITY PLAN - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.101	AV BREAK ROOM 1 ELEVATIONS - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.110	RECEPTION SCHEMATICS												
TA.200	AV BACK 1 CONFERENCE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.201	AV BACK 1 CONFERENCE ROOM ELEVATION - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.210	AV - BACK 1 CONFERENCE ROOM SCHEMATICS												
TA.211	AV - BACK 1 CONFERENCE ROOM SCHEMATICS												
TA.300	AV HUDDLE ROOM FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.302	AV HUDDLE ROOM ELEVATIONS - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2		X	X	X	X	X	X	X				
TA.310	AV - LEVEL 1 HUDDLE ROOMS SCHEMATICS												
TA.311	AV - LEVEL 1 HUDDLE ROOMS SCHEMATICS												
TA.312	AV - LEVEL 1 HUDDLE ROOMS SCHEMATICS												
TA.313	AV - LEVEL 2 HUDDLE ROOMS SCHEMATICS												
TA.314	AV - LEVEL 2 HUDDLE ROOMS SCHEMATICS												
TA.315	AV - LEVEL 2 HUDDLE ROOMS SCHEMATICS												
TA.400	AV LARGE HUDDLE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.402	AV LARGE HUDDLE ROOMS ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2		X	X	X	X	X	X	X				
TA.410	AV - LEVEL 1 & 2 LARGE HUDDLE ROOMS SCHEMATICS												
TA.500	AV DIGITAL SIGNAGE FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.501	AV - PHASE 1 - LEVEL 02 DIGITAL SIGNAGE FACILITY PLAN		X	X	X	X	X	X	X				
TA.502	AV DIGITAL SIGNAGE ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2		X	X	X	X	X	X	X				
TA.510	AV - LEVEL 1 & 2 DIGITAL SIGNAGE SCHEMATICS												
TA.600	AV NSP, TO, AND IT OFFICE FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.601	AV NSP, RTO AND EXECUTIVE OFFICES ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2		X	X	X	X	X	X	X				
TA.610	AV - LEVEL 1 & 2 NSP, RTO AND EXECUTIVE OFFICES SCHEMATICS												
TA.800	AV SOUNDMASKING FACILITY PLAN - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TA.810	AV - LEVEL 1 & 2 SOUNDMASKING SCHEMATICS												
TA.900	AV DISPLAY SCHEDULE - ZONE B - LEVEL 01 & 02 - PHASE 1		X	X	X	X	X	X	X				
TA.1000	AV AV IDF/MDF PART PLANS - ZONE B - LEVEL 01 - PHASE 1						X	X	X				
TTA.005	AV FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.006	AV RCP AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.301	AV HUDDLE ROOM FACILITY PLANS - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.401	AV LARGE HUDDLE ROOMS FACILITY PLAN & RCP - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.501	AV DIGITAL SIGNAGE FACILITY PLAN - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.601	AV NSP OFFICE FACILITY PLANS - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.602	AV EXECUTIVE OFFICE FACILITY PLANS - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.700	AV MIDDLE 2 CONFERENCE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.701	AV MIDDLE 2 CONFERENCE ROOM ELEVATION - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.801	AV SOUNDMASKING FACILITY PLAN - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.900	AV DISPLAY SCHEDULE - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTA.1000	AV IDF/MDF PART PLANS - ZONE B - LEVEL 02 - PHASE 2							X	X				

AUDIOVISUAL DEVICE SYMBOL LEGEND

DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED	ARCHITECT SYMBOL	PROVIDED BY	INSTALLED BY	TERMINATED BY	BACK-BOX DESCRIPTION	MOUNTING	HEIGHT	PROVIDED BY	INSTALLED BY
ASSISTED LISTENING CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX AL # "X"	XXX.XX AL # "X"	XXX.XX AL # "X"		N/A	N/A	N/A					
JUNCTION BOX "x" INDICATES DEVICE IDENTIFICATION	XXX.XX JB # "X"	XXX.XX JB # "X"	XXX.XX JB # "X"	J	N/A	N/A	N/A					
LOUDSPEAKER CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX SPK # "X"	XXX.XX SPK # "X"	XXX.XX SPK # "X"		AVC	AVC	AVC					
FLAT PANEL DISPLAY "x" INDICATES DEVICE IDENTIFICATION	XXX.XX FPD # "X"	XXX.XX FPD # "X"	XXX.XX FPD # "X"		AVC	AVC	AVC					
AUDIOVISUAL SUB RACK "x" INDICATES DEVICE IDENTIFICATION	XXX.XX AV # "X"	XXX.XX AV # "X"	XXX.XX AV # "X"		N/A	N/A	N/A					
AUDIOVISUAL HEAD END "x" INDICATES DEVICE IDENTIFICATION	XXX.XX HE # "X"	XXX.XX HE # "X"	XXX.XX HE # "X"		N/A	N/A	N/A					
ROOM SCHEDULER "x" INDICATES DEVICE IDENTIFICATION	XXX.XX RS # "X"	XXX.XX RS # "X"			AVC	AVC	AVC					
AUXILIARY CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX AUX # "X"	XXX.XX AUX # "X"	XXX.XX AUX # "X"		N/A	N/A	N/A					
CAMERA CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX CAM # "X"	XXX.XX CAM # "X"			AVC	AVC	AVC					
360 CAMERA CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX 360 # "X"	XXX.XX 360 # "X"		360	N/A	N/A	N/A					
CONTROL PANEL CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX CP # "X"	XXX.XX CP # "X"	XXX.XX CP # "X"		N/A	N/A	N/A					
CONDUIT TERMINATION POINT "x" INDICATES DEVICE IDENTIFICATION	XXX.XX CT # "X"	XXX.XX CT # "X"	XXX.XX CT # "X"		N/A	N/A	N/A					
LAPTOP CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX WP # "X"	XXX.XX WP # "X"	XXX.XX WP # "X"		N/A	N/A	N/A					
SDI CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XXX.XX SDI # "X"	XXX.XX SDI # "X"	XXX.XX SDI # "X"		N/A	N/A	N/A					
VOLUME CONTROL "x" INDICATES DEVICE IDENTIFICATION	XXX.XX VC # "X"	XXX.XX VC # "X"		VC	N/A	N/A	N/A					
VIDEO PROJECTOR "x" INDICATES DEVICE IDENTIFICATION	XXX.XX VP # "X"	XXX.XX VP # "X"			N/A	N/A	N/A					
PROJECTION SCREEN "x" INDICATES DEVICE IDENTIFICATION	XXX.XX PSC # "X"	XXX.XX PSC # "X"			N/A	N/A	N/A					
AUDIOVISUAL INPUT/OUTPUT "x" INDICATES DEVICE IDENTIFICATION	XXX.XX I/O # "X"	XXX.XX I/O # "X"	XXX.XX I/O # "X"		N/A	N/A	N/A					
KEYPAD "x" INDICATES DEVICE IDENTIFICATION	XXX.XX KP # "X"	XXX.XX KP # "X"			N/A	N/A	N/A					
TOUCH PANEL "x" INDICATES DEVICE IDENTIFICATION	XXX.XX TP # "X"	XXX.XX TP # "X"			AVC	AVC	AVC					

ELECTRICAL DEVICE SYMBOL LEGEND

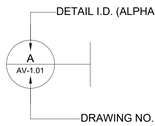
DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED		PROVIDED BY	INSTALLED BY	TERMINATED BY
DUPLEX OUTLET 120V 20A					E.C.	E.C.	E.C.
DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT					E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A					E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A, DEDICATED CIRCUIT					E.C.	E.C.	E.C.
RF GATEWAY	RF	RF	RF		E.C.	E.C.	E.C.
TWIST LOCK CONNECTION "x" INDICATES DEVICE IDENTIFICATION	XX "X"	XX "X"	XX "X"		E.C.	E.C.	E.C.

AUDIOVISUAL DIVISION OF RESPONSIBILITIES

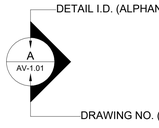
RESPONSIBILITY	PROVIDED BY	INSTALLED BY	TERMINATED BY
CEILING MOUNTED DEVICES			
MOTORIZED PROJECTION SCREEN	N/A	N/A	N/A
MOTORIZED PROJECTION SCREEN- LOW VOLTAGE CONNECTION	N/A	N/A	N/A
MOTORIZED PROJECTION SCREEN- CEILING SUPPORT/UNISTRUT	N/A	N/A	N/A
MOTORIZED PROJECTION SCREEN- FRAMING OF CEILING TILE OR GYPSUM	N/A	N/A	N/A
PROJECTOR LIFT	N/A	N/A	N/A
PROJECTOR & MOUNT	N/A	N/A	N/A
PROJECTOR- CEILING SUPPORTS/UNISTRUT	N/A	N/A	N/A
FLAT PANEL DISPLAY	N/A	N/A	N/A
FLAT PANEL MOUNT	N/A	N/A	N/A
FLAT PANEL- CEILING SUPPORT/UNISTRUT	N/A	N/A	N/A
MICROPHONE & TERMINATION	AVC	AVC	AVC
MICROPHONE- CEILING SUPPORT	AVC	AVC	AVC
SPEAKER & TERMINATION	AVC	AVC	AVC
SPEAKER- CEILING SUPPORT/UNISTRUT	AVC	AVC	AVC
CAMERA/MOUNT & TERMINATION	N/A	N/A	N/A
CAMERA/MOUNT- CEILING SUPPORT/UNISTRUT	N/A	N/A	N/A
WALL MOUNTED DEVICES			
FLAT PANEL MOUNT	AVC	AVC	AVC
FLAT PANEL DISPLAY & TERMINATION	AVC	AVC	AVC
FLAT PANEL BLOCKING/WALL SUPPORTS	GC	GC	GC
FLAT PANEL IN-WALL BOX (PAC bOX)	AVC	EC	AVC
AV DATA CABLING (DISPLAYS, ROOM SCHEDULER, TOUCH PANELS)	LVC	LVC	LVC
AV CABLING (SPEAKERS, CAMERAS, VIDEO CONFERENCE)	AVC	AVC	AVC
CAMERA & TERMINATION	AVC	AVC	AVC
CAMERA BLOCKING	GC	GC	GC
SPEAKER & TERMINATION	AVC	AVC	AVC
SPEAKER BLOCKING/WALL SUPPORTS	GC	GC	GC
TOUCH PANEL & TERMINATION	AVC	AVC	AVC
TOUCH PANEL BACK BOX	AVC	AVC	AVC
ROOM SCHEDULER & TERMINATION	AVC	AVC	AVC
ROOM SCHEDULER MOUNT	AVC	AVC	AVC
FLOOR BOX WITH POWER, DATA & AV CONNECTION	EC	EC	LVC/AVC

SYMBOLS & KEYS

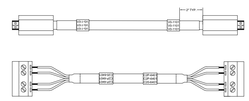
CALLOUT INDICATOR



SECTION INDICATOR



CABLE LABEL PLACEMENT



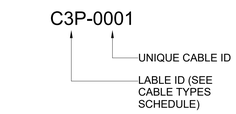
NOTES:

- EACH CABLE MUST BE LABELED AT EACH END WITH IT'S INDICATED UNIQUE CABLE ID.
- CABLE LABEL MUST BE PLACED TO ALLOW FOR EASY OF READABILITY WITHIN PARAMETERS INDICATED.

CONDUIT LEGEND

	EMT CONDUIT
	FREE AIR CABLE

CABLE NUMBERING SCHEMA



THIS MATRIX IS NOT INTENDED TO BE EXHAUSTIVE, WHERE SCOPE DISCREPANCIES OR DEFICIENCIES EXIST, PROVIDE WRITTEN NOTIFICATION TO THE DESIGN TEAM FOR CLARIFICATION.

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contents: AV SHEET LIST AND RESPONSIBILITY MATRIX
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TA.001

GENERAL WIRING NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, LOCAL AND OTHER APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, NEC, BICSI, ANSI, TIA/EIA STANDARDS, CONSTRUCTION STANDARDS AND INDUSTRY BEST PRACTICES.
2. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND CONSTRUCTION DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT OR OWNER FOR RESOLUTION.
3. ALL WIRES AT HEADEND LOCATIONS SHALL NOT BE LESS THAN 16' IN LENGTH ONCE THEY TOUCH THE FLOOR.
4. ALL WIRES AT DEVICE LOCATIONS SHALL BE NO LESS THAN 24" IN LENGTH COILED IN BACK BOX.
5. ALL WIRES AT DISTRIBUTION LOCATIONS SHALL RUN NO LESS THAN FLOOR TO CEILING.
6. ALL WIRES AT DISPLAY LOCATIONS SHALL BE NO LESS THAN 4' IN LENGTH COILED IN BOX.
7. WIRES SHALL CROSS ELECTRICAL LINES AT 90°.
8. WIRES THAT NEED TO RUN PARALLEL WITH ELECTRICAL SHALL BE NO LESS THAN 3' AWAY FOR CIRCUIT RUNS UP TO 80' IN LENGTH AND 6' AWAY FOR RUNS OVER 80' IN LENGTH.
9. NO PARALLEL RUNS NEXT TO ELECTRICAL CIRCUITS IN EXCESS OF 600V.
10. ALL CATEGORY CABLE SHALL FOLLOW THE MINIMUM BEND RADIUS AS SPECIFIED BY THE MANUFACTURER, IN LIEU OF THAT FOLLOW A BICSI MINIMUM STANDARD OF 4X THE OUTSIDE DIAMETER OF THE CABLE.
11. THE MAXIMUM LENGTH FOR A PERMANENT LINK CATEGORY CABLE IS 90 METERS (295 FEET).\, ANY RUN THAT EXCEEDS THAT LENGTH SHALL BE BROUGHT TO THE ATTENTION OF THE LOW VOLTAGE CONTRACTOR.
12. ALL WIRE LABELS SHALL BE PERMANENT AND APPLIED NO LESS THAN 16" FROM WALL PENETRATION.
13. WIRE GROMMETS MUST BE USED WHEN PASSING WIRES THROUGH METAL STUDS AND ANY ENCLOSURES.
14. ALL MODIFICATIONS TO OWNER FURNISHED MILLWORK BY OTHERS.
15. ALL CABINETS AND ENCLOSURES THAT SHALL HOUSE ELECTRONIC HARDWARE AND EQUIPMENT RACKS SHALL BE PROPERLY VENTILATED, EITHER PASSIVELY OR ACTIVELY, SUCH THAT THE INTERIOR TEMPERATURE WILL NOT EXCEED 80° F.
16. ALL CEILING GRID MOUNTED DEVICES SHALL BE SAFETY WIRED TO DECK ABOVE. REFER TO LOCAL CODES.
17. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST MAINTAIN FIRE RATING.
18. ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL MAINTAIN WEATHERPROOF RATING.
19. ALL FREE PULLED WIRE SHALL USE APPROPRIATE J-HOOKS AND SAFETY CABLING TO MAINTAIN PROPER LOADING AND BEND REQUIREMENTS.

CONDUIT AND LADDER TRAY NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT, PULL-BOXES, RACEWAYS, LADDER TRAY AND OTHER INFRASTRUCTURE SUPPORT TO PROVIDE CABLE PATHWAYS FOR LOW VOLTAGE CABLING SHALL BE PROVIDED BY OTHERS. THIS SHALL COMPLY WITH NEC, TIA STANDARDS AND BICSI GUIDELINES.
2. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL STRING.
3. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT ENDS TO AVOID CHAFFING OF CABLING.
4. ALL CONDUIT TO BE RIGID EMT UNLESS OTHERWISE NOTED. IF FLEX CONDUIT OR GREEN FIELD IS SUBSTITUTED, ADD .5" TO THE SPECIFIED DIAMETER.
5. ALL CONDUIT FILL CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR 25% GROWTH.
6. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED.
7. THE BEND RADIUS OF CONDUIT SHALL BE NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER OF THAT CONDUIT.
8. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100' OF STRAIGHT CONDUIT AND EXTRA PULL BOXES FOR EVERY TWO 90° BENDS IN A CONDUIT RUN.
9. WHEN PENETRATING THE SLAB, SLEEVES SHALL BE CUT AT A MAXIMUM OF 3" ABOVE THE FINISHED SLAB.
10. PULL BOXES SHOULD BE INSTALLED ABOVE ACCESSIBLE CEILINGS WITH ACCESS PANELS. ACCESS PANELS SHALL BE A MINIMUM 24" X 24" WITH SPACING NO MORE THAN 10' APART. WHERE THIS IS NOT FEASIBLE, ACCESS PANELS WILL NEED TO BE PROVIDED THAT MEET THE ARCHITECTURAL FINISH REQUIREMENTS OF THE SPACES THEY WILL BE LOCATED IN.
11. LADDER TRAY SHALL HAVE A MINIMUM CLEARANCE OF 6" ABOVE AND BELOW AND 1' TO ONE SIDE FOR ACCESSIBILITY.
12. PROVIDE VERTICAL LADDER RACK WHEN SLEEVES/CONDUITS ENTERING THE HEADEND SPACES ARE INSTALLED MORE THAN 10'-0" AFF.
13. INSTALL THE LADDER RACK FROM SLEEVE BOTTOM TO THE TOP OF THE HORIZONTAL LADDER RACK FOR CABLE LACING IN THE VERTICAL RUN.
14. THERE SHALL BE NO OTHER EQUIPMENT, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE LADDER RACK/TRAY EXCEPT THOSE NEEDED TO SUPPORT THE SYSTEM.

ELECTRICAL NOTES

1. ALL 120-VOLT WIRE, CONDUIT, BACK-BOXES, FLOOR BOXES, OTHER RELATED DEVICES AND CONNECTIONS BY EC.
2. ONE DUPLEX OUTLET AT EACH DISTRIBUTION LOCATION FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
3. GROUND ALL EQUIPMENT RACKS & LADDER TRAYS W/ #6 AWG (MIN.) TO GROUNDING BLOCK PROVIDED BY ELECTRICIAN.
4. PROVIDE DUAL RECESSED OUTLET AT ALL TV LOCATIONS UNLESS OTHERWISE NOTED.
5. PROVIDE TWO (2) 20A OUTLET(S) AT EACH EQUIPMENT RACK LOCATION AS A MINIMUM, REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
6. AV SYSTEM POWER CIRCUITS SHALL BE ISOLATED FROM LIGHTING DIMMERS, MOTORIZED EQUIPMENT OR OTHER INDUCTIVE ELECTRICAL LOADS.

AUDIOVISUAL NOTES FOR CONFERENCE ROOMS

1. AIR DIFFUSERS SHALL BE ORIENTED IN SUCH A WAY THAT ANY AIRFLOW WILL BE DIRECTED AWAY FROM ANY MICROPHONE.
2. ANY SPILL LIGHTING ON A DISPLAY SHOULD BE LESS THAN 20 FOOT CANDLES.
3. TO PREVENT ANY SOUND LEAKAGE BETWEEN ROOMS, ALL WALLS SHOULD EXTEND UP TO THE DECKING ABOVE.
4. WALLS SHOULD HAVE AN STC RATING OF 45 OR GREATER.
5. MAXIMUM REVERBERATION TIME WITHIN THE ROOM SHOULD NOT EXCEED 0.5 SECONDS.

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING	KP	KEYPAD	SUB	SUBWOOFER
AFF	ABOVE FINISHED FLOOR	LVC	LOW VOLTAGE CONTRACTOR	TB	TABLEBOX
ALS	ASSISTIVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FACILITY	TBD	TO BE DETERMINED
AVC	AUDIOVISUAL CONTRACTOR	NA	NOT APPLICABLE	TP	TOUCH PANEL
AVR	AUDIOVISUAL EQUIPMENT RACK	NIC	NOT IN CONTRACT	TV	TELEVISION
BFC	BELOW FINISHED CEILING	NTS	NOT TO SCALE	TYP	TYPICAL
BOM	BILL OF MATERIALS	OCC	OCCUPANCY SENSOR	TX	TRANSMIT
CAM	CAMERA	OFE	OWNER FURNISHED EQUIPMENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
CI	CONTROL INTERFACE	OFOI	OWNER FURNISHED/ OWNER INSTALLED	UON	UNLESS OTHERWISE NOTED
CU	CONTROL UNIT	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	UTP	UNSHIELDED TWISTED PAIR
DS	DOCKING STATION	CFOI	CONTRACTOR FURNISHED/ OWNER INSTALLED	VIF	VERIFY IN FIELD
EC	ELECTRICAL CONTRACTOR	CFCI	CONTRACTOR FURNISHED/ CLIENT INSTALLED	VOL	VOLUME CONTROL
EMT	ELECTRICAL METALLIC TUBING	CFEI	CONTRACTOR FURNISHED/ ELECTRICIAN INSTALLED	WAP	WIRELESS ACCESS POINT
FB	FLOORBOX	EFEI	ELECTRICIAN FURNISHED/ ELECTRICIAN INSTALLED	WP	WALL PLATE
GC	GENERAL CONTRACTOR	INT	INTERCOM	WRX	WIRELESS TRANSMITTER
GND	GROUND	PB	PULL BOX		
IDF	INTERMEDIATE DISTRIBUTION FACILITY	RX	RECEIVER		
IP	INTERNET PROTOCOL	SPK	SPEAKER		
JB	JUNCTION BOX	STP	SHIELDED TWIST PAIR		

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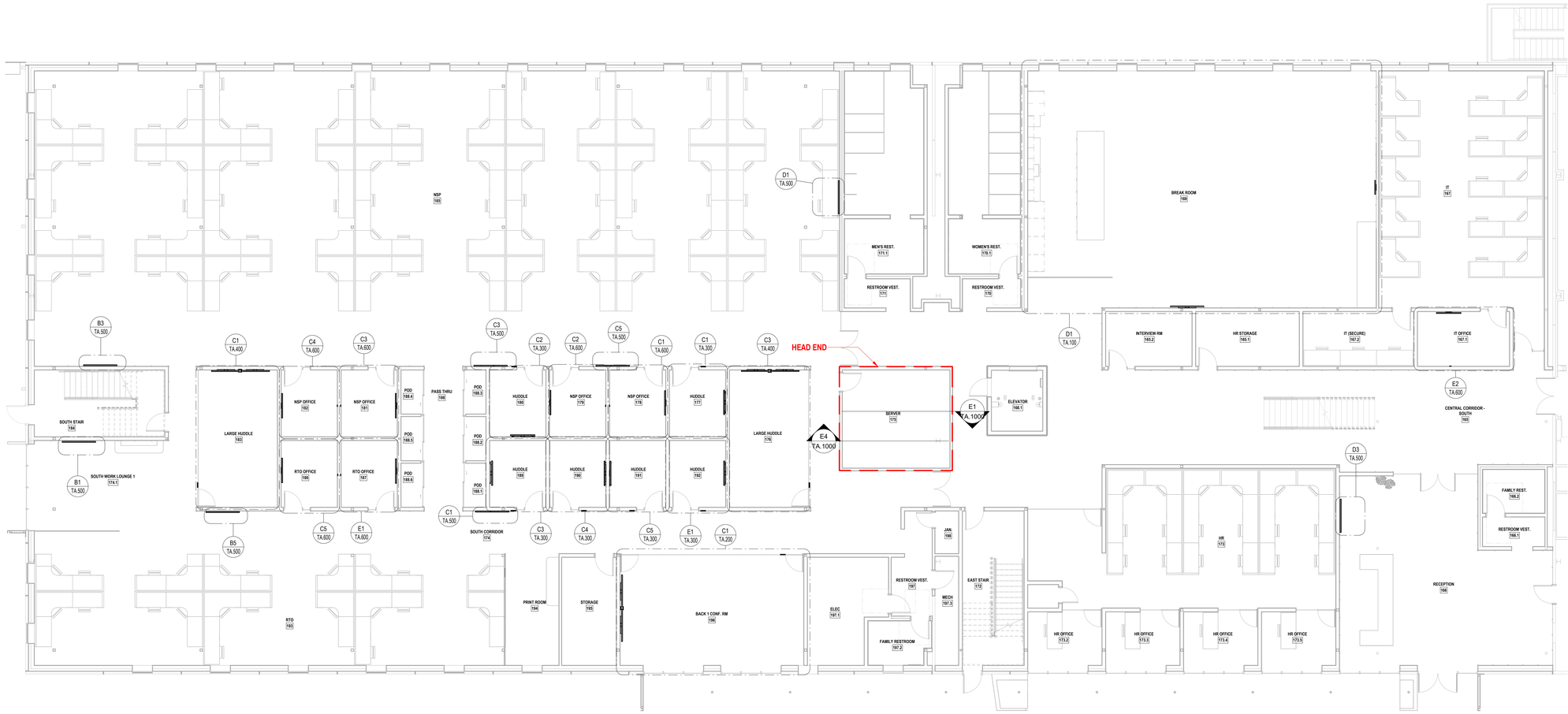
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contents.
AV NOTES

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TA.002



E1 | AV - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN
1/8" = 1'-0"

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TA.003



E1 | AV - ZONE B - LEVEL 01 - PHASE 1 - RCP
1/8" = 1'-0"

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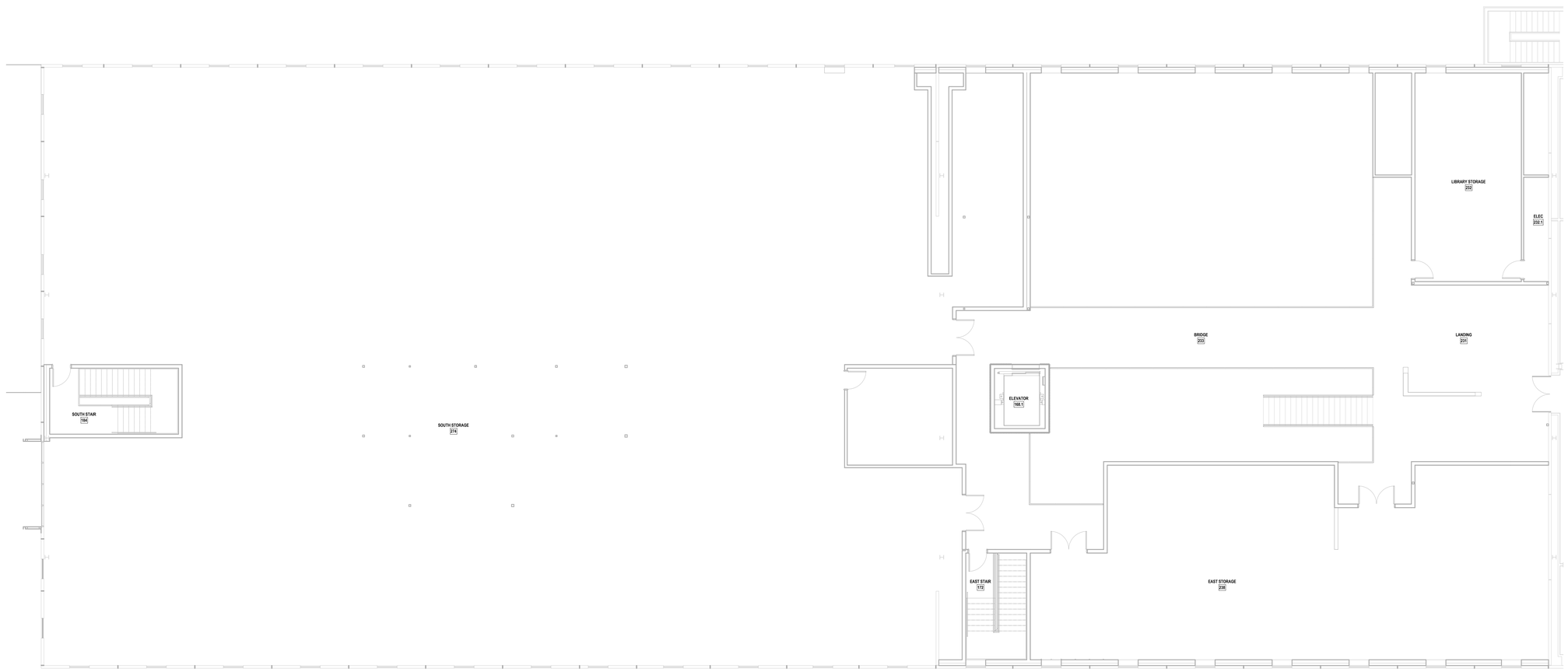
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AV RCP AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1

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TA.004



E1 AV - ZONE B - LEVEL 02 - PHASE 1 - FLOOR PLAN
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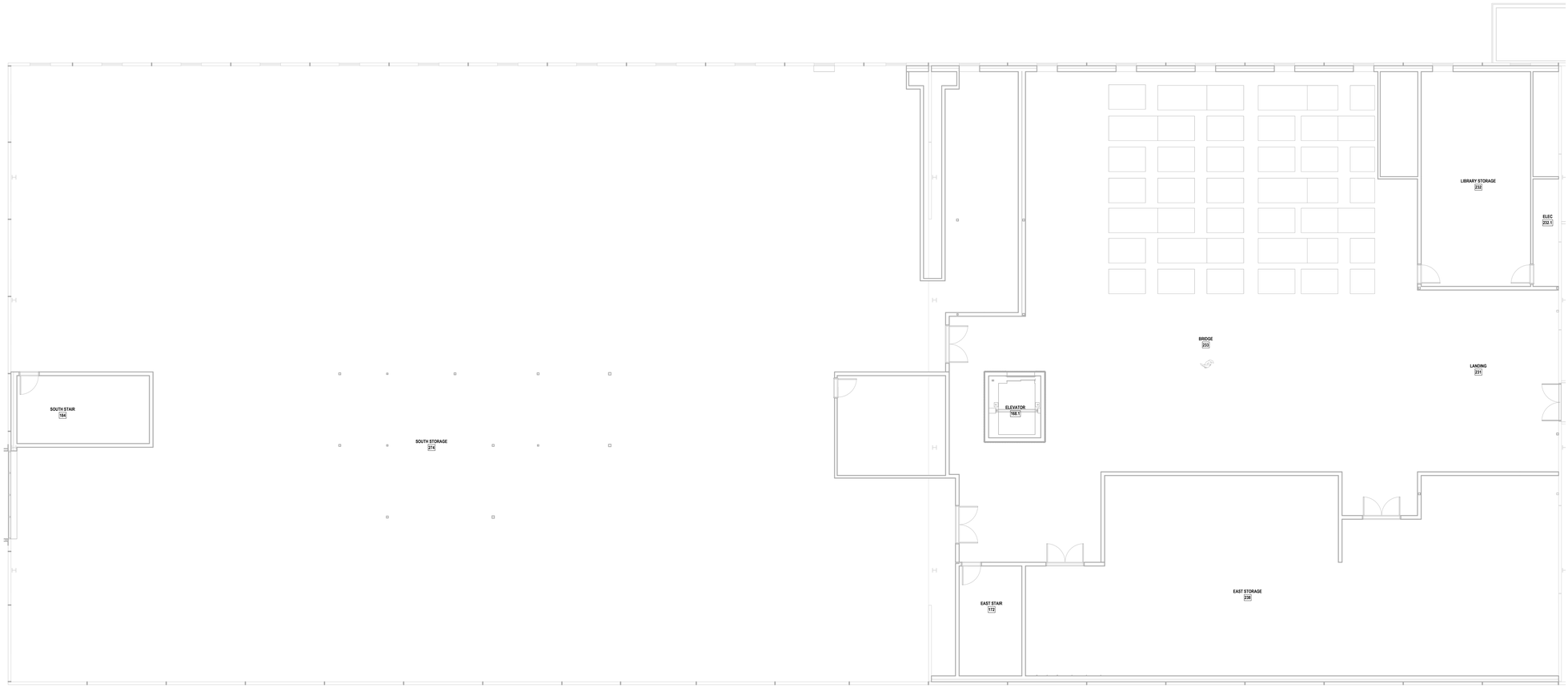
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TA.005



E1 AV - ZONE B - LEVEL 02 - PHASE 1 -RCP
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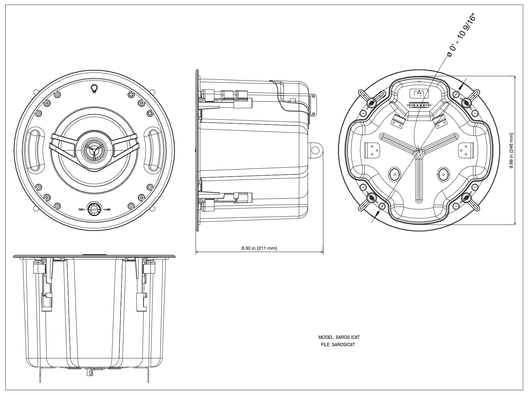
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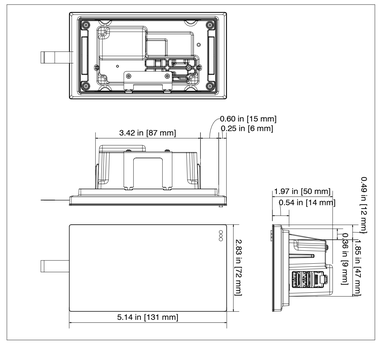
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AV RCP AREA OF WORK - ZONE B - LEVEL 02 - PHASE 1

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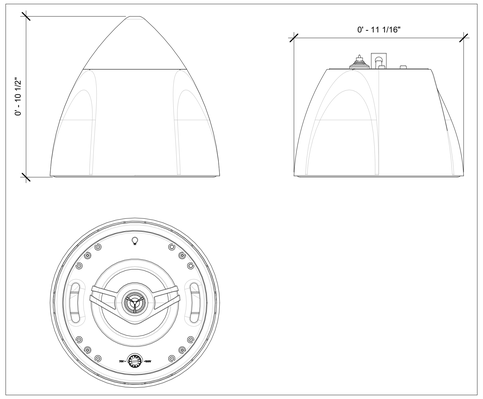
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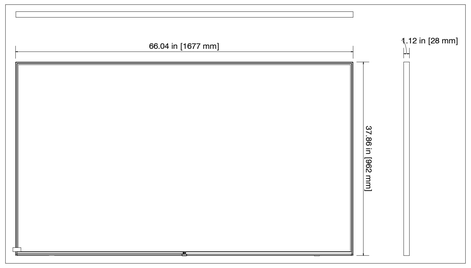
C1 | CRESTRON IC6T-W-T IN-CEILING SPEAKER
3" = 1'-0"



C3 | CRESTRON TSW-570-W-S TOUCH PANEL
6" = 1'-0"



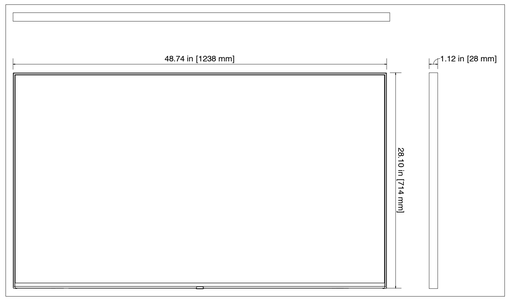
C5 | CRESTRON SAROS PD6T-W-T PENDANT SPEAKER
3" = 1'-0"



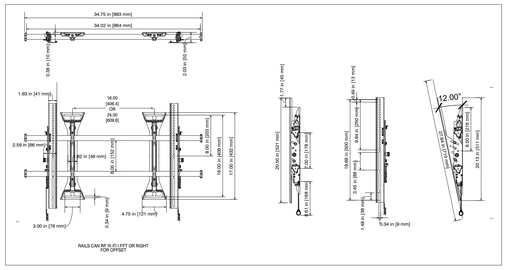
D1 | SAMSUNG QMR75 DISPLAY
1" = 1'-0"



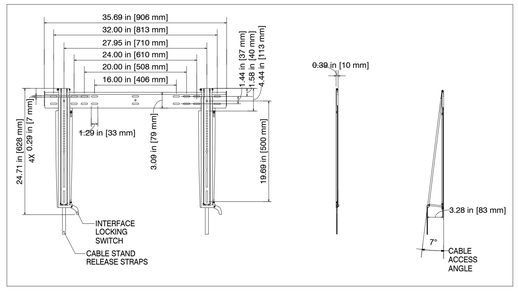
D3 | SAMSUNG QMR65 DISPLAY
1 1/2" = 1'-0"



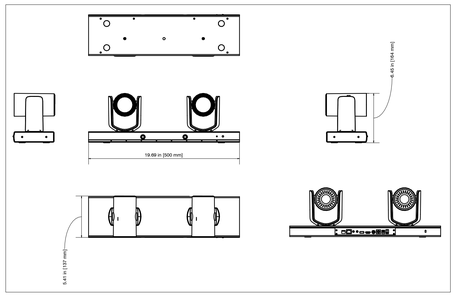
D5 | SAMSUNG QMR55 DISPLAY
1 1/2" = 1'-0"



E1 | CHIEF LTM1U-W MOUNT
1" = 1'-0"



E3 | CHIEF LSTU THINSTALL MOUNT
1" = 1'-0"



E5 | CRESTRON IV-CAMHK-12-SLVR-1B VIDEO CONFERENCE CAMERAS
1 1/2" = 1'-0"

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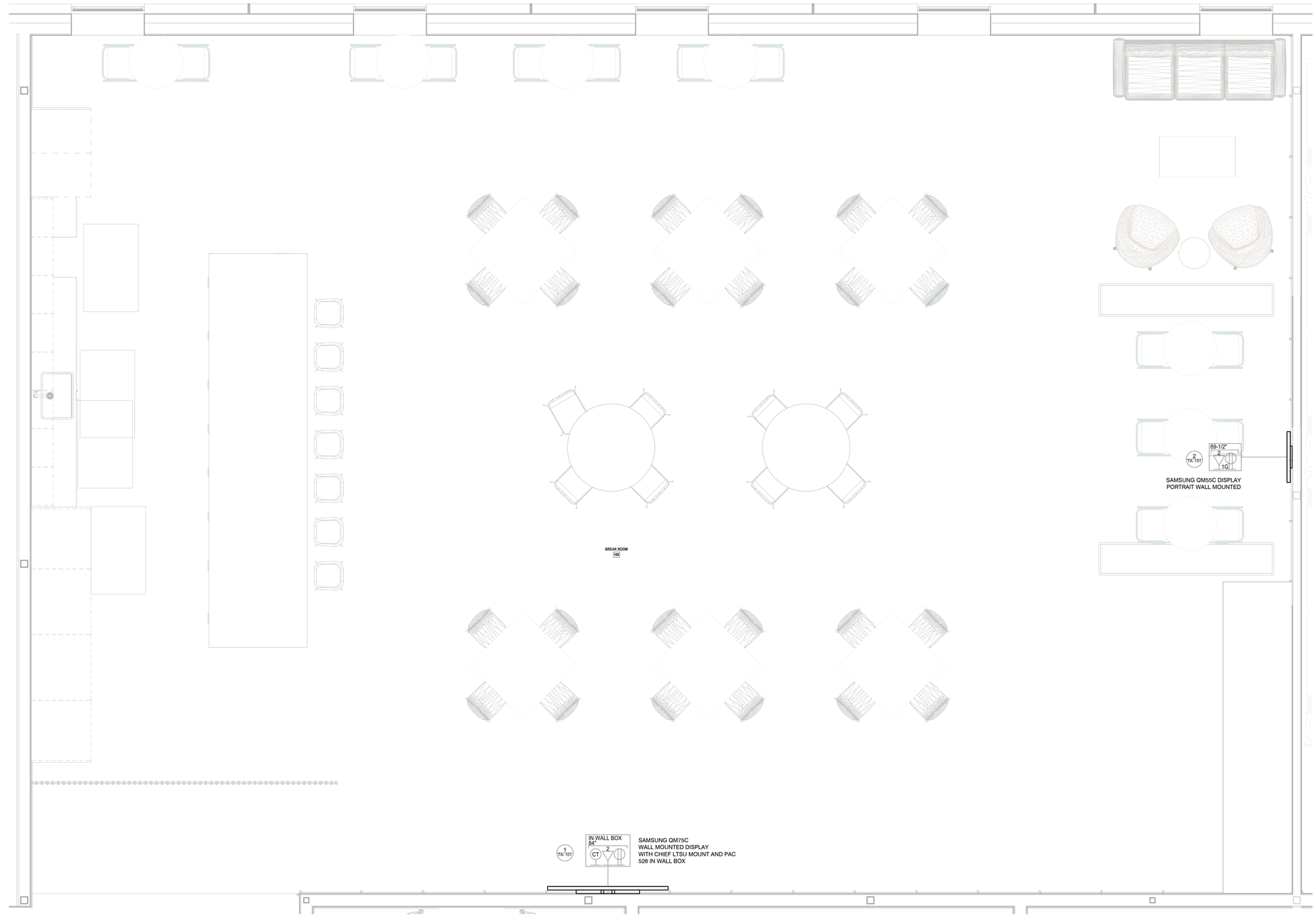
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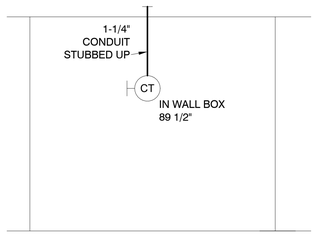
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AV DETAILS

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TA.010

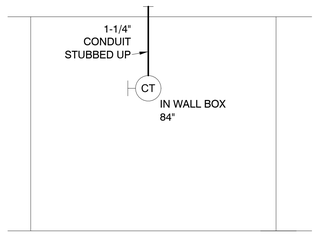


D1 AV FACILITY - LEVEL 01 - PHASE 1 - BREAK ROOM 169
1/2" = 1'-0"



TYPICAL PER DISPLAY

E1 AV - CONDUIT RISER - BREAKROOM 55" DISPLAY
1/2" = 1'-0"



TYPICAL PER DISPLAY

E2 AV - CONDUIT RISER - BREAKROOM 75" DISPLAY
1/2" = 1'-0"

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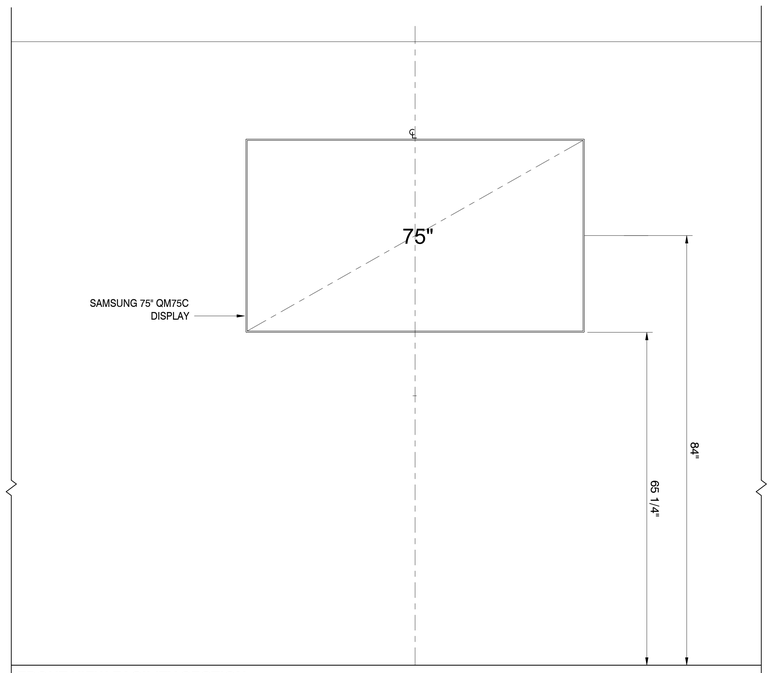
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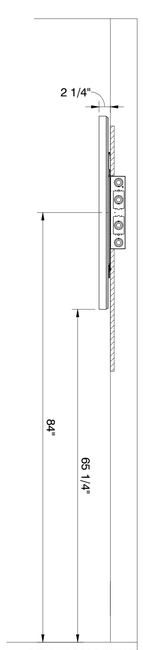
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AV BREAK ROOM 1 FACILITY PLAN - ZONE B - LEVEL 01 - PHASE 1

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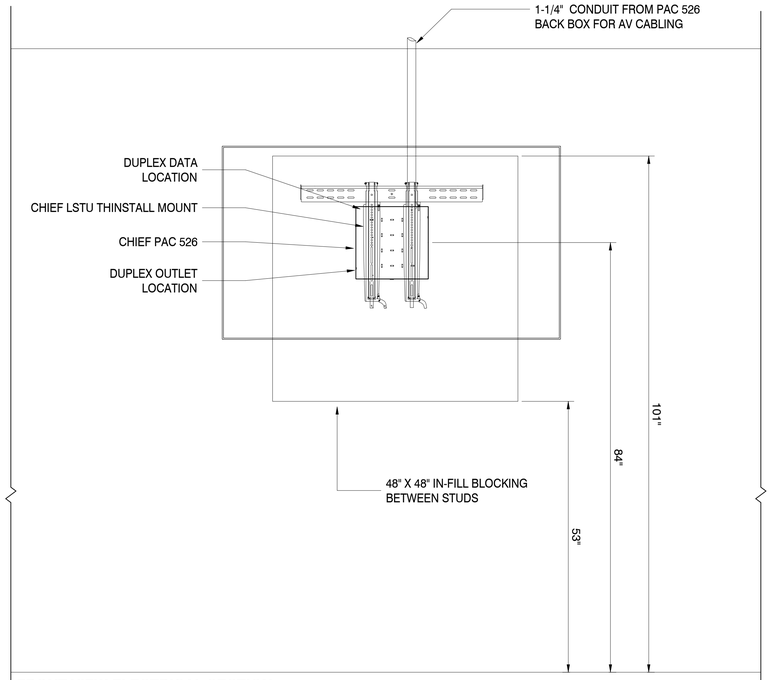
TA.100



FRONT VIEW FACILITY SECTION



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 75" QM75C
WEIGHT	88.4 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	231 W
HEAT LOAD	788 BTUs/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 AV - LEVEL 01 - PHASE 1 - 75" SAMSUNG QM75C DISPLAY ELEVATION - SINGLE DISPLAY THINSTALL PAC 526 - BREAK ROOM
1" = 1'-0"

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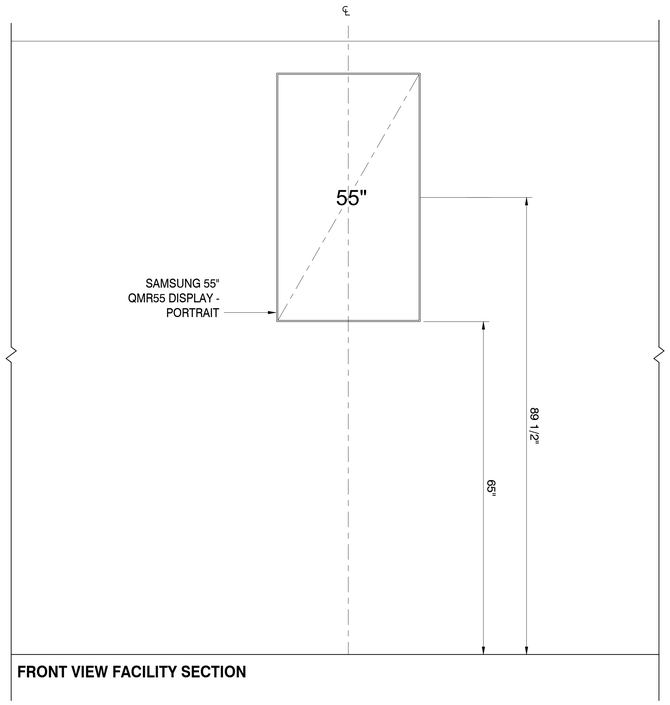
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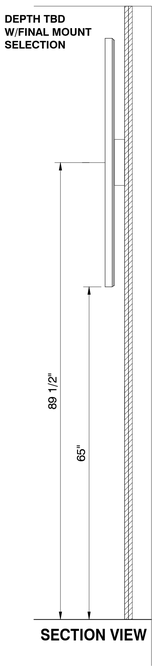
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AV BREAK ROOM 1 ELEVATIONS - ZONE B - LEVEL 01 - PHASE 1

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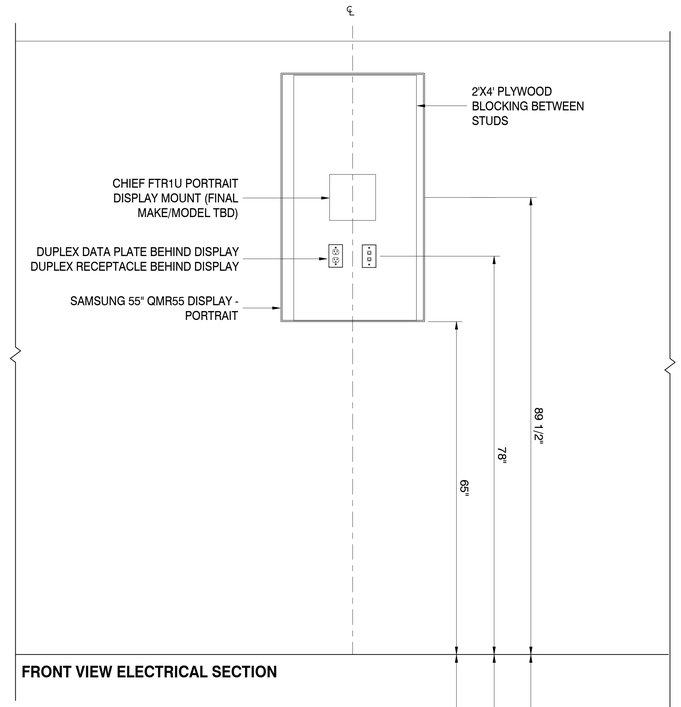
TA.101



FRONT VIEW FACILITY SECTION



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION

CENTER OF DISPLAY, MOUNT AND PLYWOOD BLOCKING

CENTER OF DUPLEX RECEPTACLE AND DATA PLATE

BOTTOM OF DISPLAY AND PLYWOOD BLOCKING

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 55" QM55C
WEIGHT	38.9 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	143 W
HEAT LOAD	488 BTU'S/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 AV - LEVEL 01 - PHASE 1 - 55" SAMSUNG QM55C DISPLAY ELEVATION - PORTRAIT BREAKROOM
1" = 1'-0"

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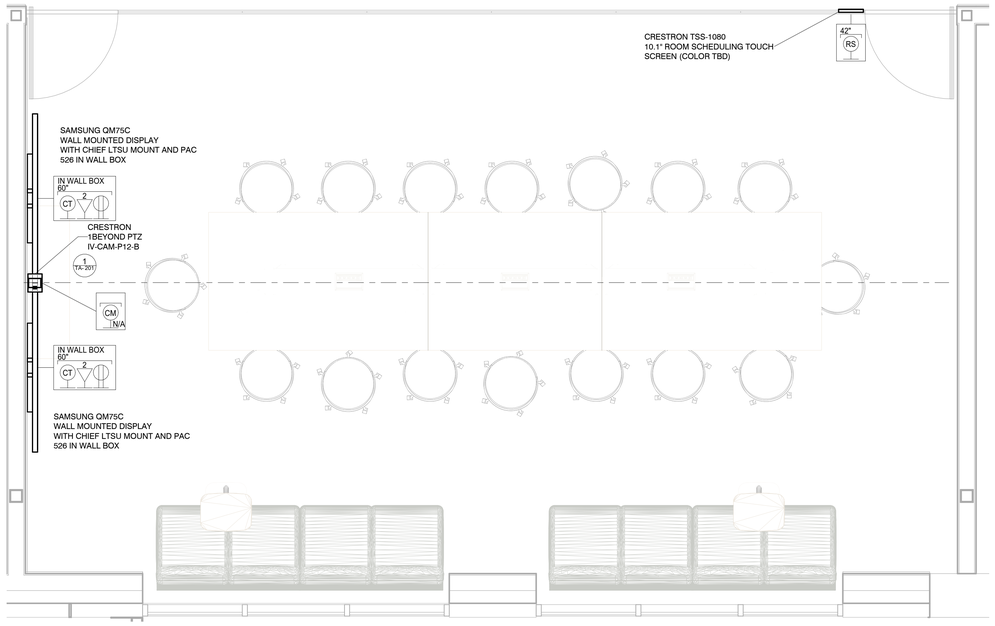
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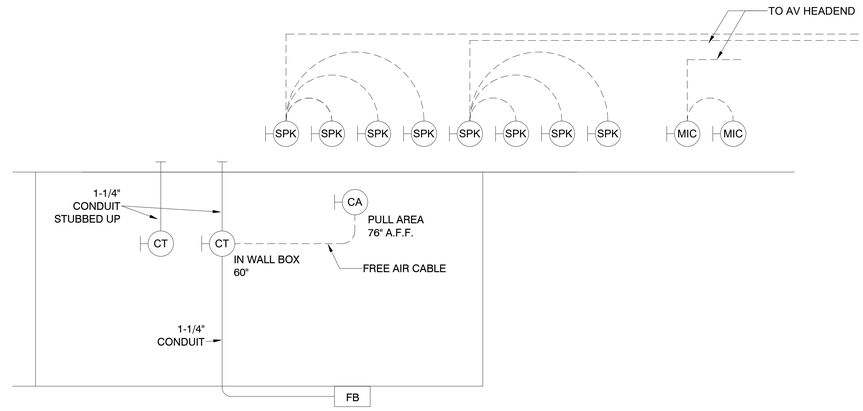
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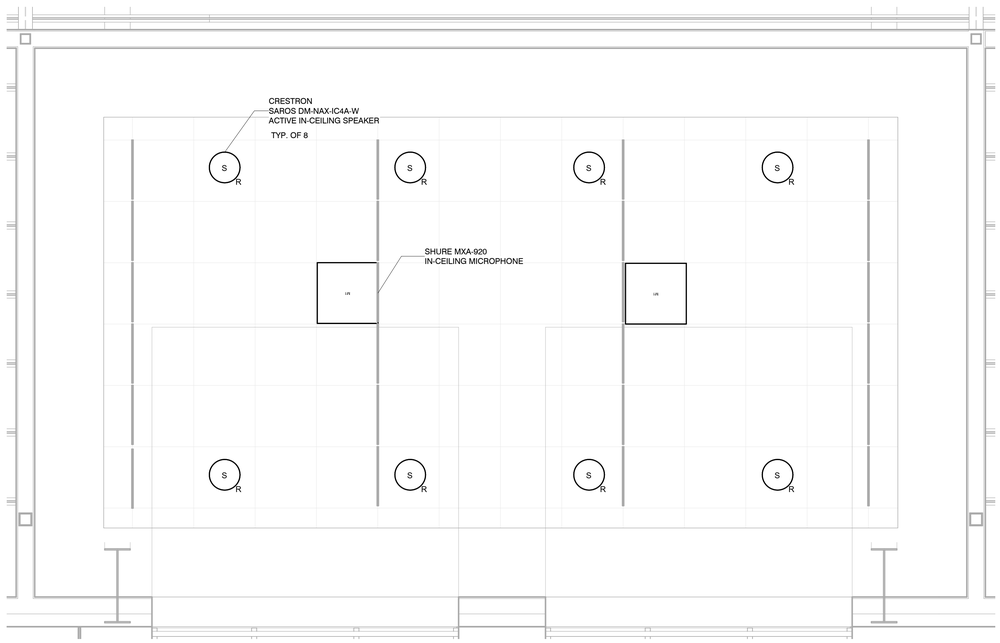
TA.102



C1 | AV FACILITY - LEVEL 01 - PHASE 1 - BACK 1 CONFERENCE ROOM 196
1/2" = 1'-0"



C4 | AV - CONDUIT RISER - BACK 1 CONFERENCE ROOM
1/2" = 1'-0"



E1 | AV RCP - LEVEL 01 - PHASE 1 - BACK 1 CONFERENCE 196
1/2" = 1'-0"

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1419 WEST MONROE AVENUE
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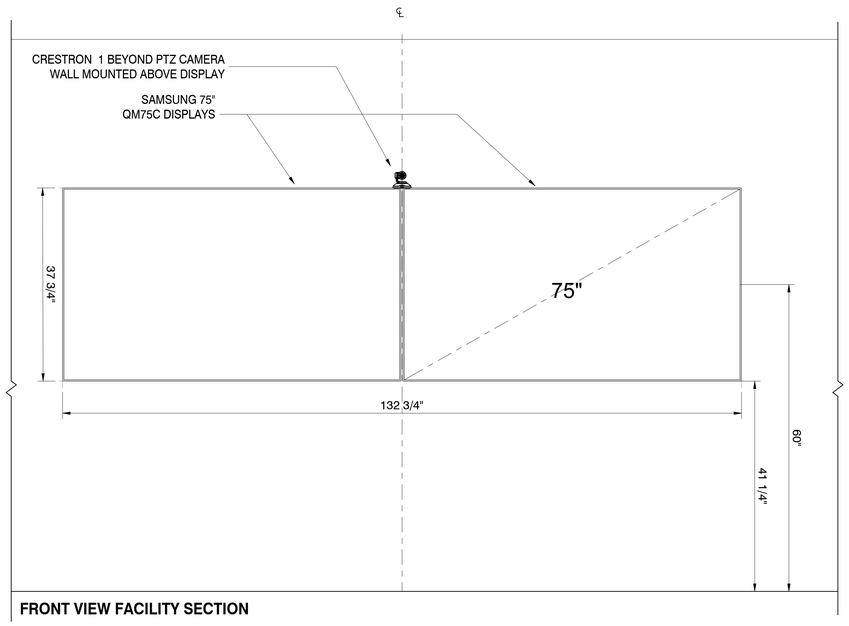
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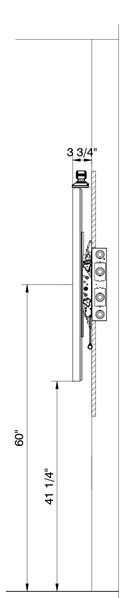
contents:
AV BACK 1 CONFERENCE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 01 - PHASE 1

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date. 2026.09.11
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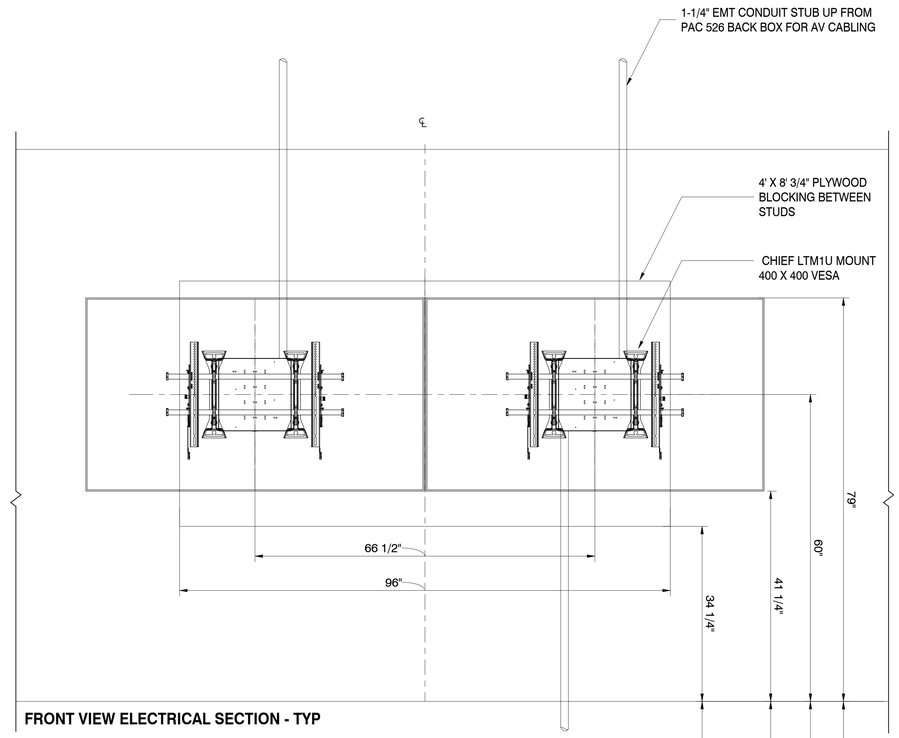
TA.200



FRONT VIEW FACILITY SECTION



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION - TYP

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 75" QM75C
WEIGHT	88.4 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	231 W
HEAT LOAD	788 BTU's/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

1-1/4" EMT CONDUIT FROM PAC BOX TO FLOOR BOX FOR TABLE CONNECTIVITY

BOTTOM OF PLYWOOD BLOCKING

BOTTOM OF DISPLAY

CENTER OF DISPLAY, MOUNT AND PAC 526 ENCLOSURE
INSTALL DUPLEX DATA AND DUPLEX RECEPTACLE IN
PROVIDED KNOCK OUTS IN EACH BOX

TOP OF DISPLAY HEIGHT

E1 | AV - LEVEL 01 - PHASE 1 - 75" SAMSUNG QM75C DISPLAY ELEVATION - DUAL DISPLAY CAMERA PAC526 LTM1U MOUNT BACK CONFERENCE 1
1" = 1'-0"

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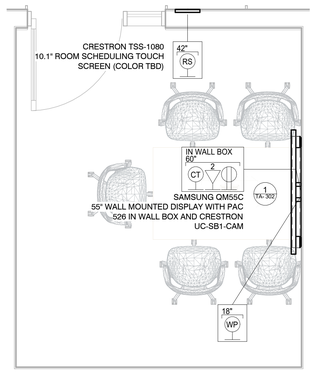
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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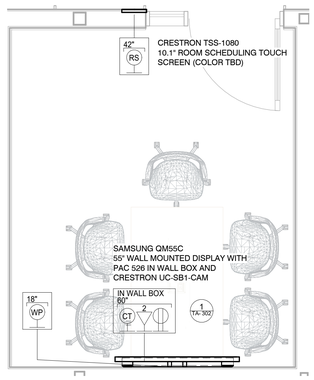
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contents.
AV BACK 1 CONFERENCE ROOM ELEVATION - ZONE B - LEVEL 01 - PHASE 1
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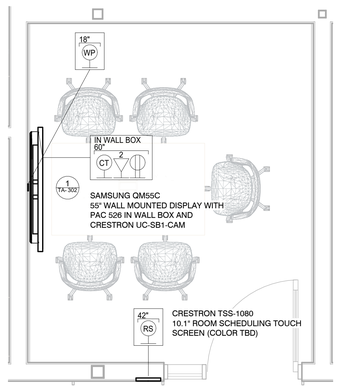
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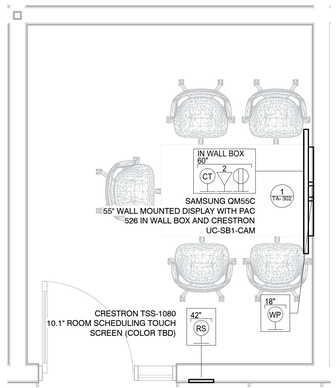
C1 | AV FACILITY - LEVEL 01 - PHASE 1 - HUDDLE 177
1/2" = 1'-0"



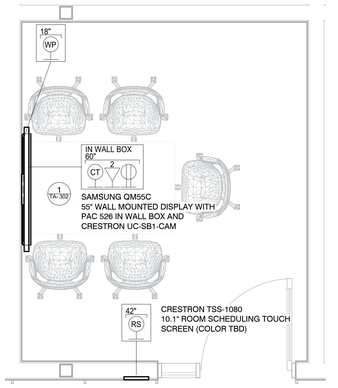
C2 | AV FACILITY - LEVEL 01 - PHASE 1 - HUDDLE 180
1/2" = 1'-0"



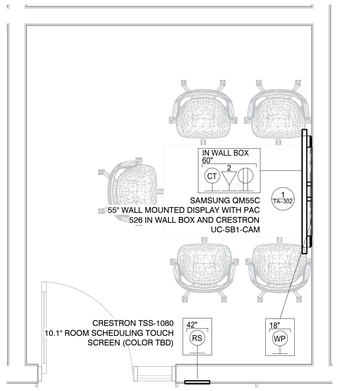
C3 | AV FACILITY - LEVEL 01 - PHASE 1 - HUDDLE 189
1/2" = 1'-0"



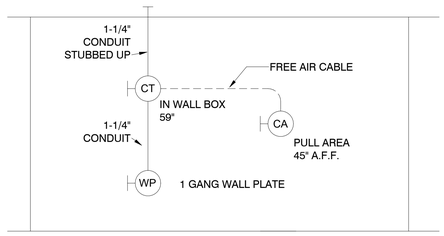
C4 | AV FACILITY - HUDDLE 190
1/2" = 1'-0"



C5 | AV FACILITY - LEVEL 01 - PHASE 1 - HUDDLE 191
1/2" = 1'-0"



E1 | AV FACILITY - LEVEL 01 - PHASE 1 - HUDDLE 192
1/2" = 1'-0"



E2 | AV - CONDUIT RISER - SMALL HUDDLE LEVEL 1
1/2" = 1'-0"

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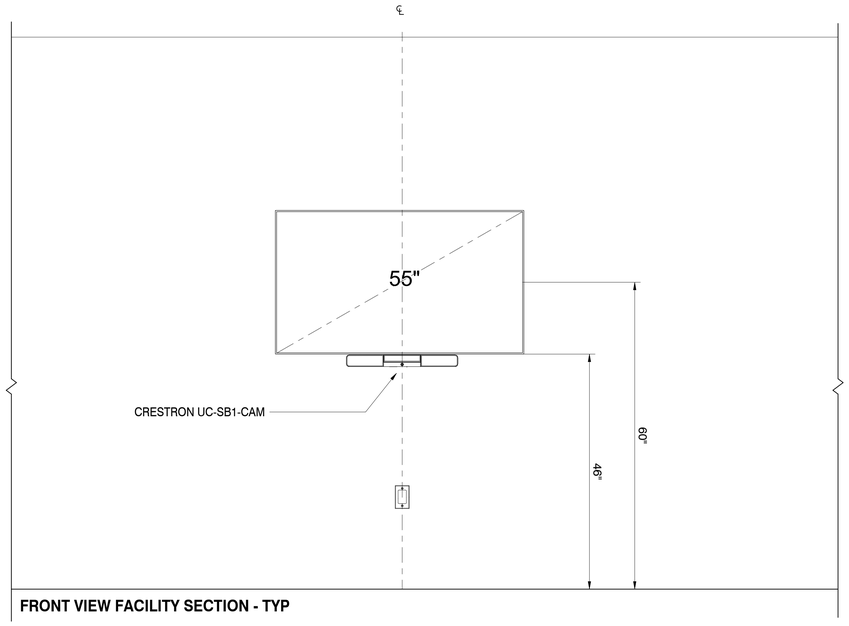
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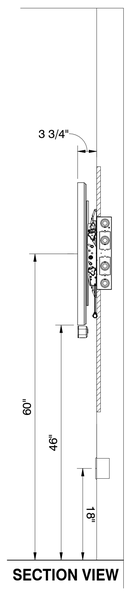
contents:
AV HUDDLE ROOM FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1

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date. 2026.09.11
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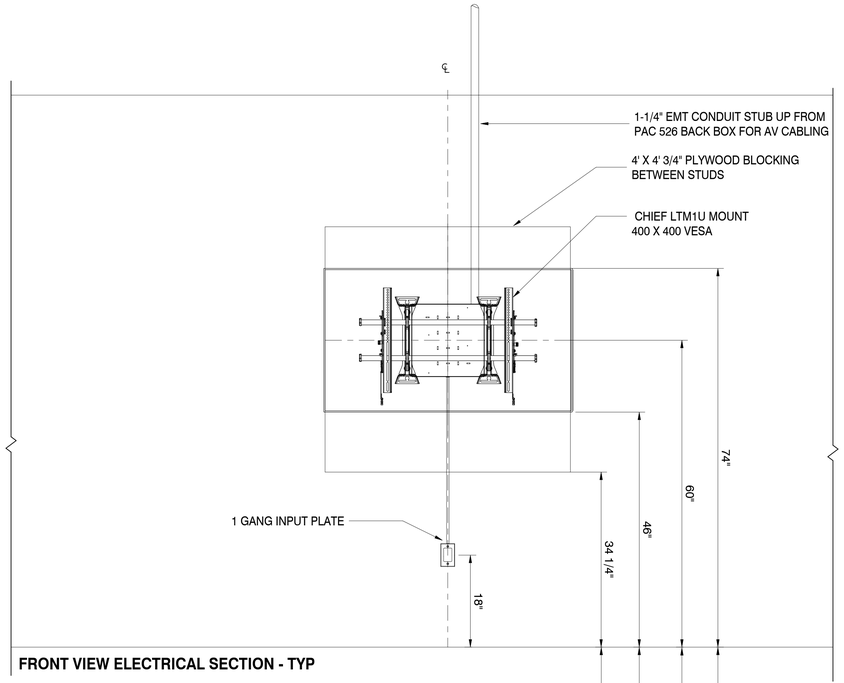
TA.300



FRONT VIEW FACILITY SECTION - TYP



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION - TYP

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 55" QM55C
WEIGHT	39.9 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	143 W
HEAT LOAD	488 BTU's/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 AV - LEVEL 01 - PHASE 1 - 55" SAMSUNG QM55C DISPLAY ELEVATION - SINGLE DISPLAY CRESTRON UC-SB1-CAM PAC526 LTM1U MOUNT
1" = 1'-0"

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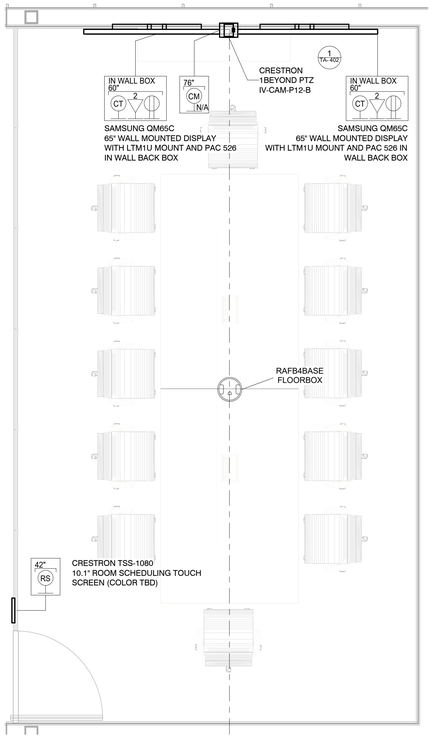
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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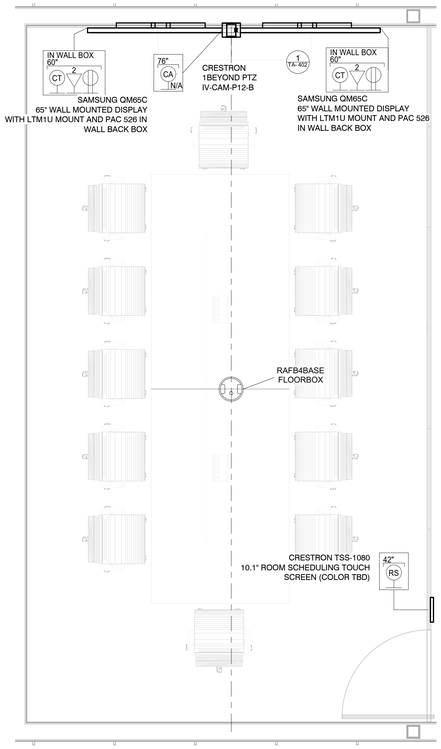
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AV HUDDLE ROOM ELEVATIONS - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2
design. ISSUE FOR PRICING
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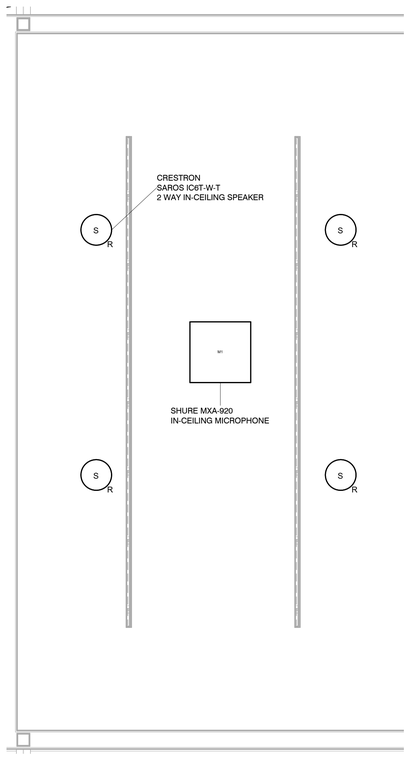
TA.302



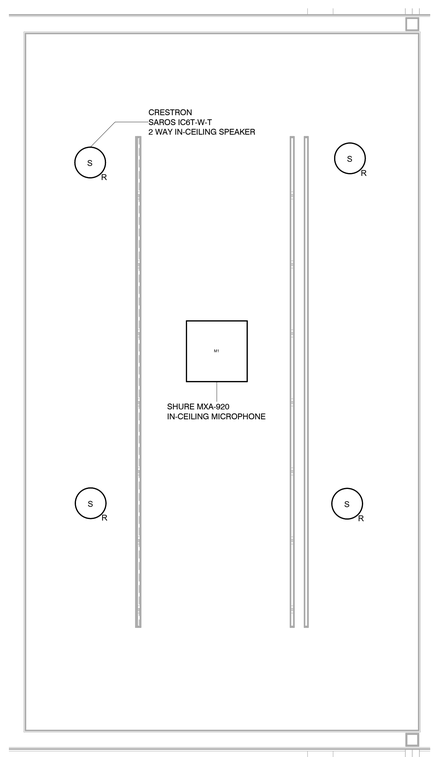
C1 AV FACILITY - LEVEL 01 - PHASE 1 - LARGE HUDDLE 183
1/2" = 1'-0"



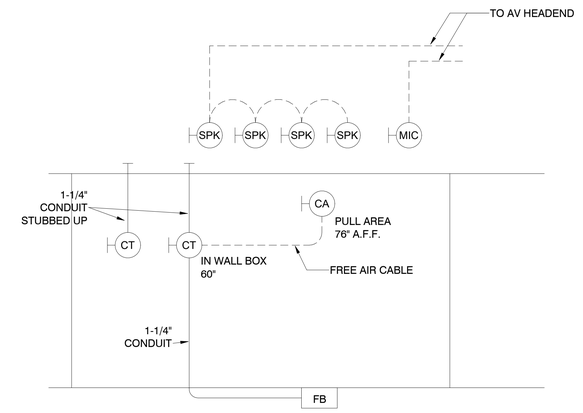
C3 AV FACILITY - LEVEL 01 - PHASE 1 - LARGE HUDDLE 176
1/2" = 1'-0"



E1 AV RCP - LEVEL 01 - PHASE 1 - LARGE HUDDLE 183
1/2" = 1'-0"



E3 AV RCP - LEVEL 01 - PHASE 1 - LARGE HUDDLE 176
1/2" = 1'-0"



E5 AV - CONDUIT RISER - LARGE HUDDLE ROOM LEVEL 1
1/2" = 1'-0"

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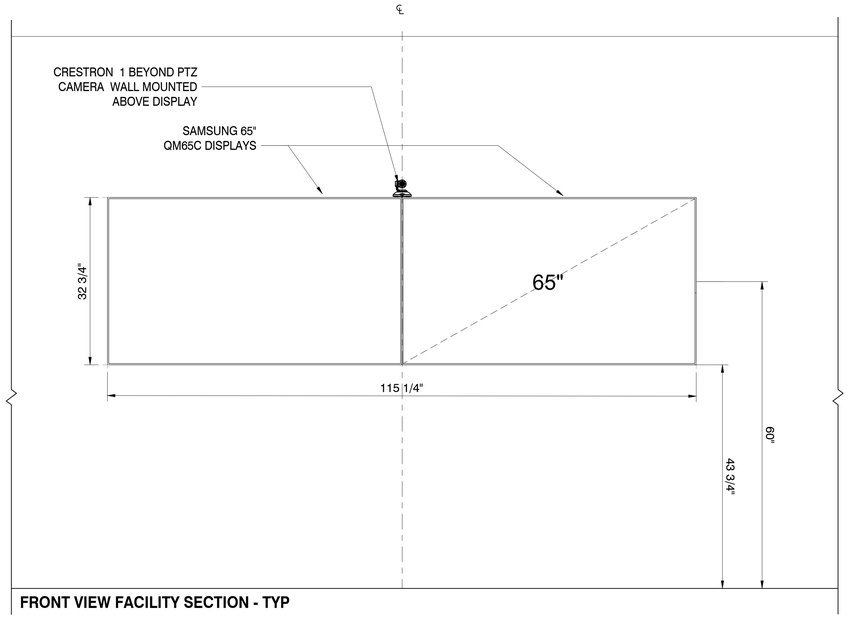
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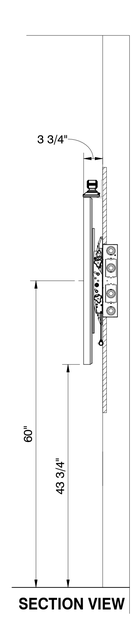
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contents:
AV LARGE HUDDLE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 01 - PHASE 1
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

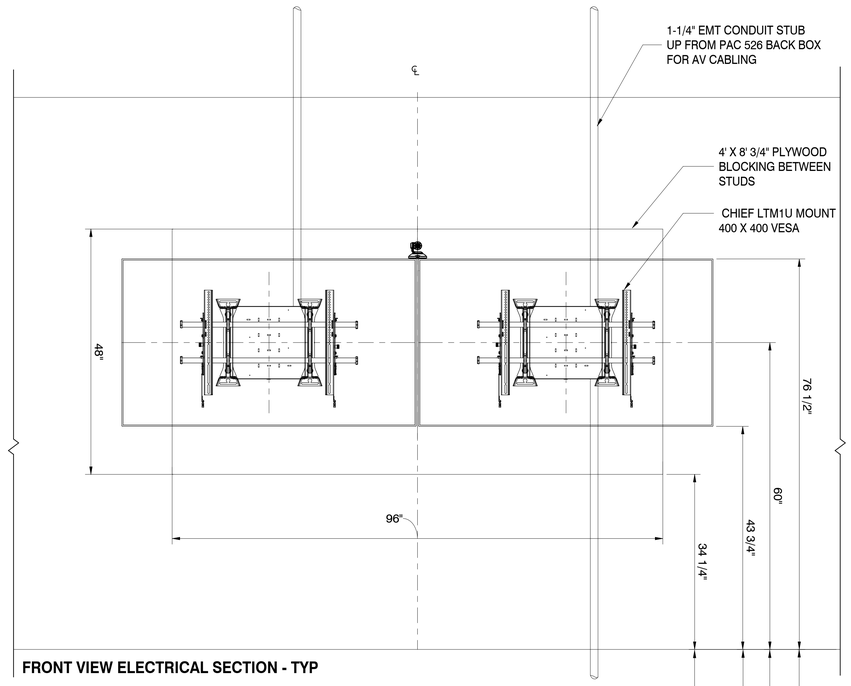
TA.400



FRONT VIEW FACILITY SECTION - TYP



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION - TYP

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 65" QM65C
WEIGHT	54.78 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	182 W
HEAT LOAD	620 BTU's/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 | AV - LEVEL 01 - PHASE 1 - 65" SAMSUNG QM65C DISPLAY ELEVATION - DUAL DISPLAY CAMERA PAC526 LTM1U MOUNT
1" = 1'-0"

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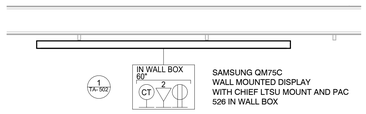
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LOWELL, AR 72745

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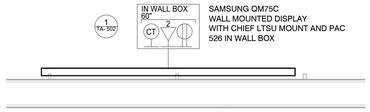
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contents:
AV LARGE HUDDLE ROOMS ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2
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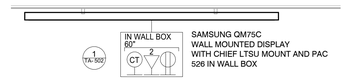
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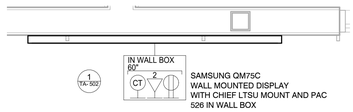
B1 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 1
3/4" = 1'-0"



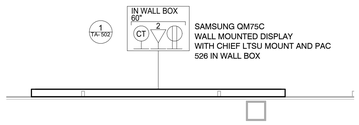
B3 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 2
3/4" = 1'-0"



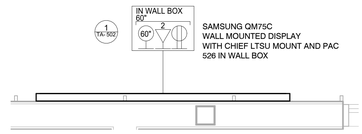
B5 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 3
3/4" = 1'-0"



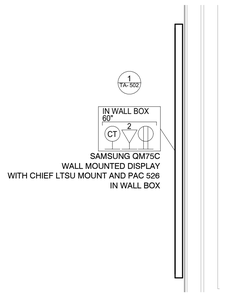
C1 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 4
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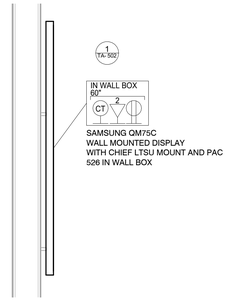
C3 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 5
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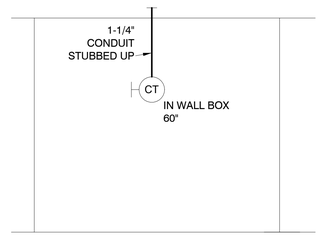
C5 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 6
3/4" = 1'-0"



D1 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 7
3/4" = 1'-0"



D3 AV FACILITY - LEVEL 01 - PHASE 1 - DIGITAL SIGNAGE - 8
3/4" = 1'-0"



D5 AV - CONDUIT RISER - DIGITAL SIGNAGE LEVEL 1 & 2
1/2" = 1'-0"

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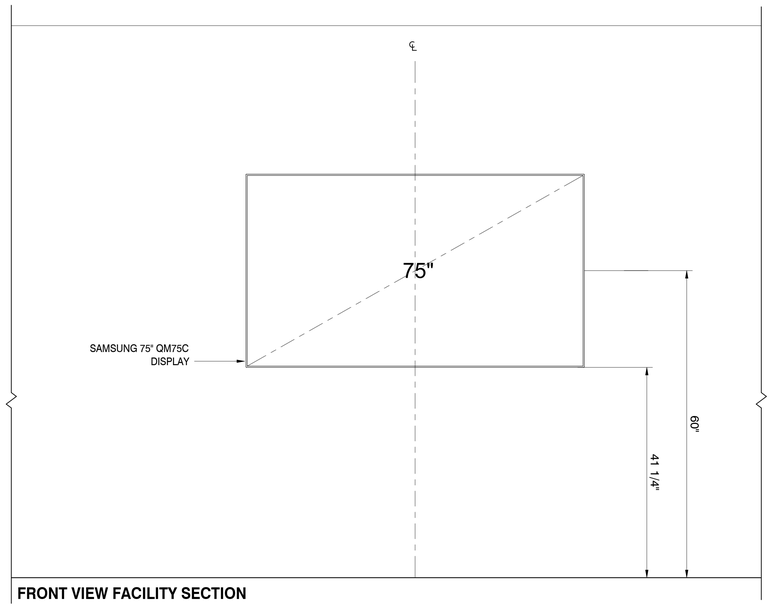
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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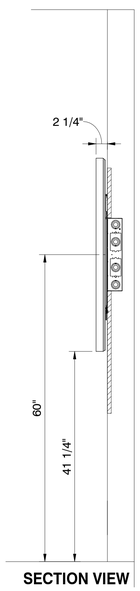
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contents:
AV DIGITAL SIGNAGE FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

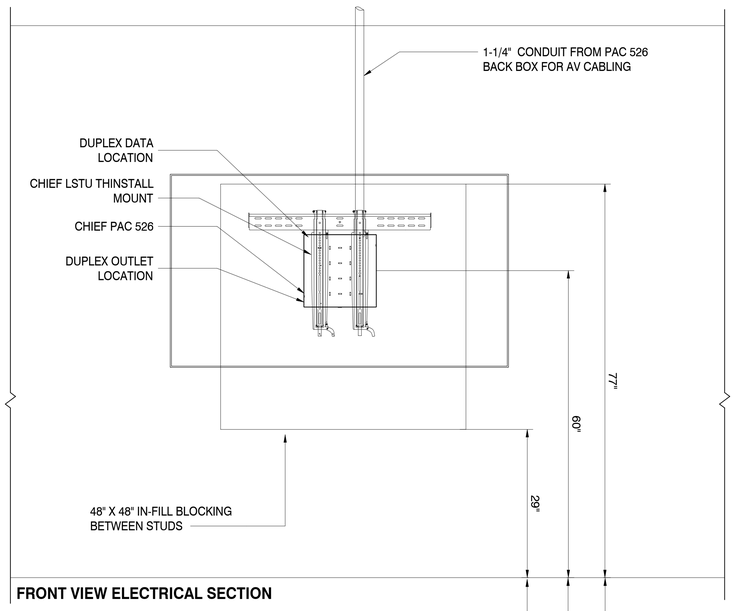
TA.500



FRONT VIEW FACILITY SECTION



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 75" QM75C
WEIGHT	88.4 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	231 W
HEAT LOAD	788 BTU's/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 AV - LEVEL 01 - PHASE 1 - 75" SAMSUNG QM75C DISPLAY ELEVATION - SINGLE DISPLAY THINSTALL PAC 526 - DIGITAL SIGNAGE
1" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

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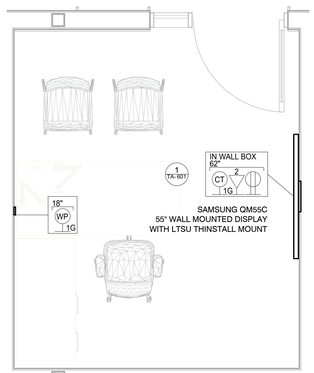
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LOWELL, AR 72745

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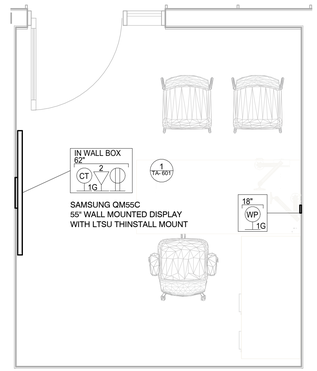
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contents.
AV DIGITAL SIGNAGE ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TA.502

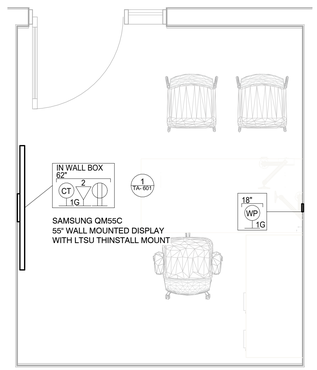


C1 AV FACILITY - LEVEL 01 - PHASE 1 - NSP OFFICE 178
1/2" = 1'-0"

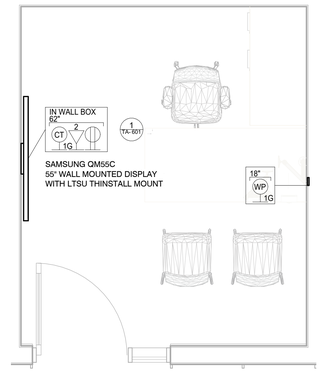


C2 AV FACILITY - LEVEL 01 - PHASE 1 - NSP OFFICE 179
1/2" = 1'-0"

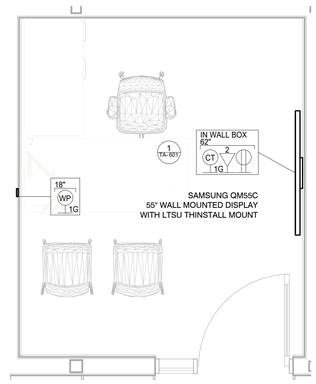
C3 AV FACILITY - LEVEL 01 - PHASE 1 - NSP OFFICE 181
1/8" = 1'-0"



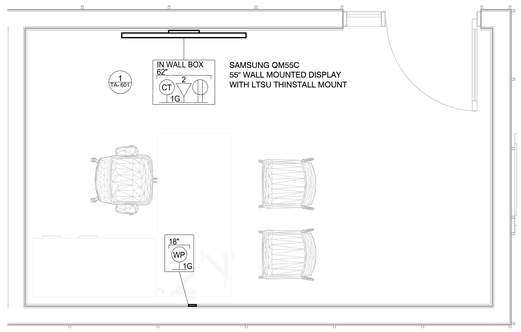
C4 AV FACILITY - LEVEL 01 - PHASE 1 - NSP OFFICE 182
1/2" = 1'-0"



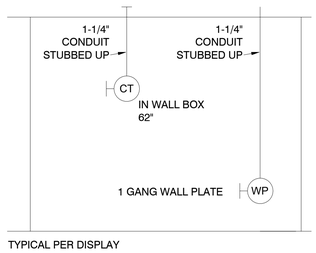
C5 AV FACILITY - LEVEL 01 - PHASE 1 - RTO OFFICE 186
1/2" = 1'-0"



E1 AV FACILITY - LEVEL 01 - PHASE 1 - RTO OFFICE 187
1/2" = 1'-0"



E2 AV FACILITY - LEVEL 01 - PHASE 1 - IT OFFICE 167.1
1/2" = 1'-0"



TYPICAL PER DISPLAY

E4 AV - CONDUIT RISER - EXECUTIVE OFFICES LEVEL 1
1/2" = 1'-0"

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issue for pricing: 2026.09.11
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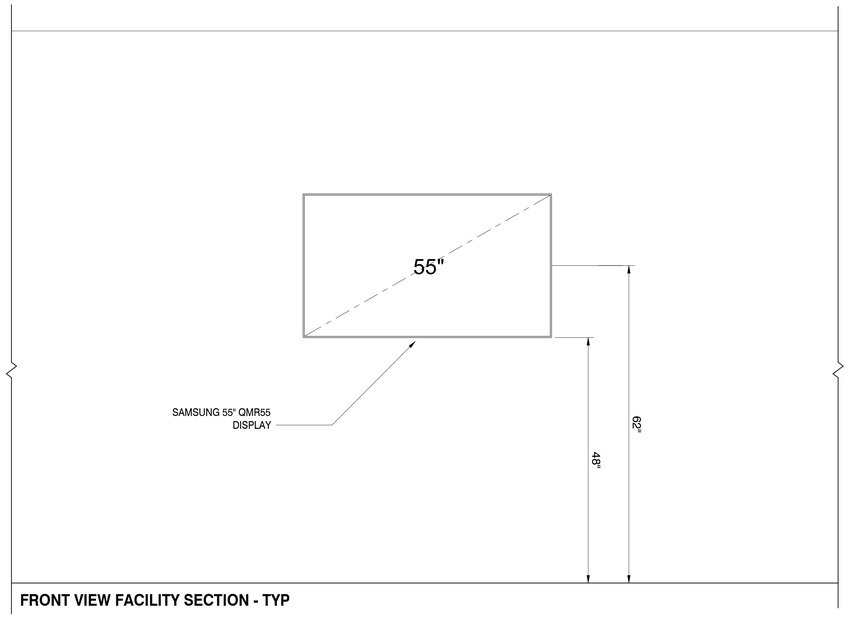
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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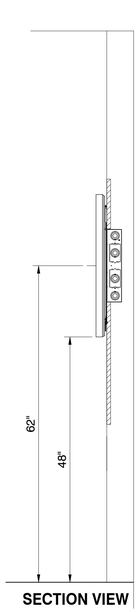
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contents:
AV NSP, RTO, AND IT OFFICE FACILITY PLANS - ZONE B - LEVEL 01 - PHASE 1
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

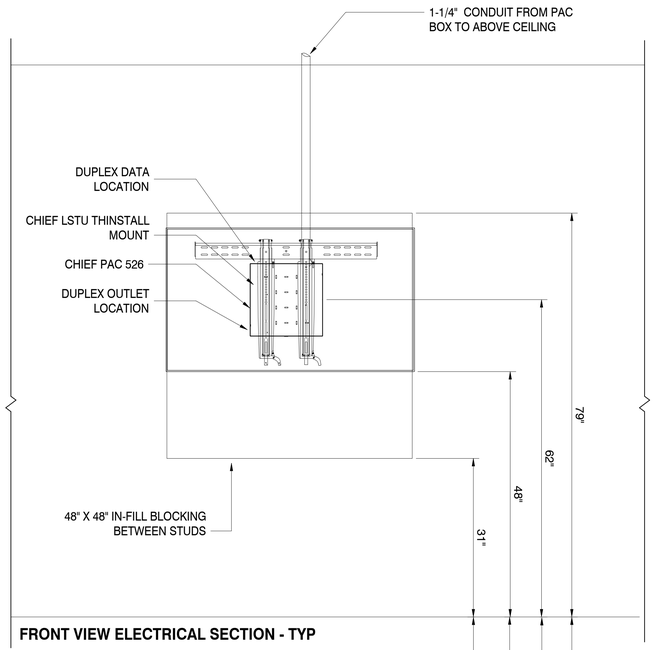
TA.600



FRONT VIEW FACILITY SECTION - TYP



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION - TYP

TOP OF PLYWOOD BLOCKING

CENTER OF DISPLAY, MOUNT AND
PAC 526 ENCLOSURE
INSTALL DUPLEX DATA AND DUPLEX
RECEPTACLE IN PROVIDED KNOCK
OUTS IN EACH BOX

BOTTOM OF DISPLAY

BOTTOM OF PLYWOOD BLOCKING

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 55" QM55C
WEIGHT	39.9 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	143 W
HEAT LOAD	488 BTU's/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 AV - LEVEL 01 - PHASE 1 - 55" SAMSUNG QM55C DISPLAY ELEVATION - SINGLE DISPLAY THINSTAL PAC 526
1" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
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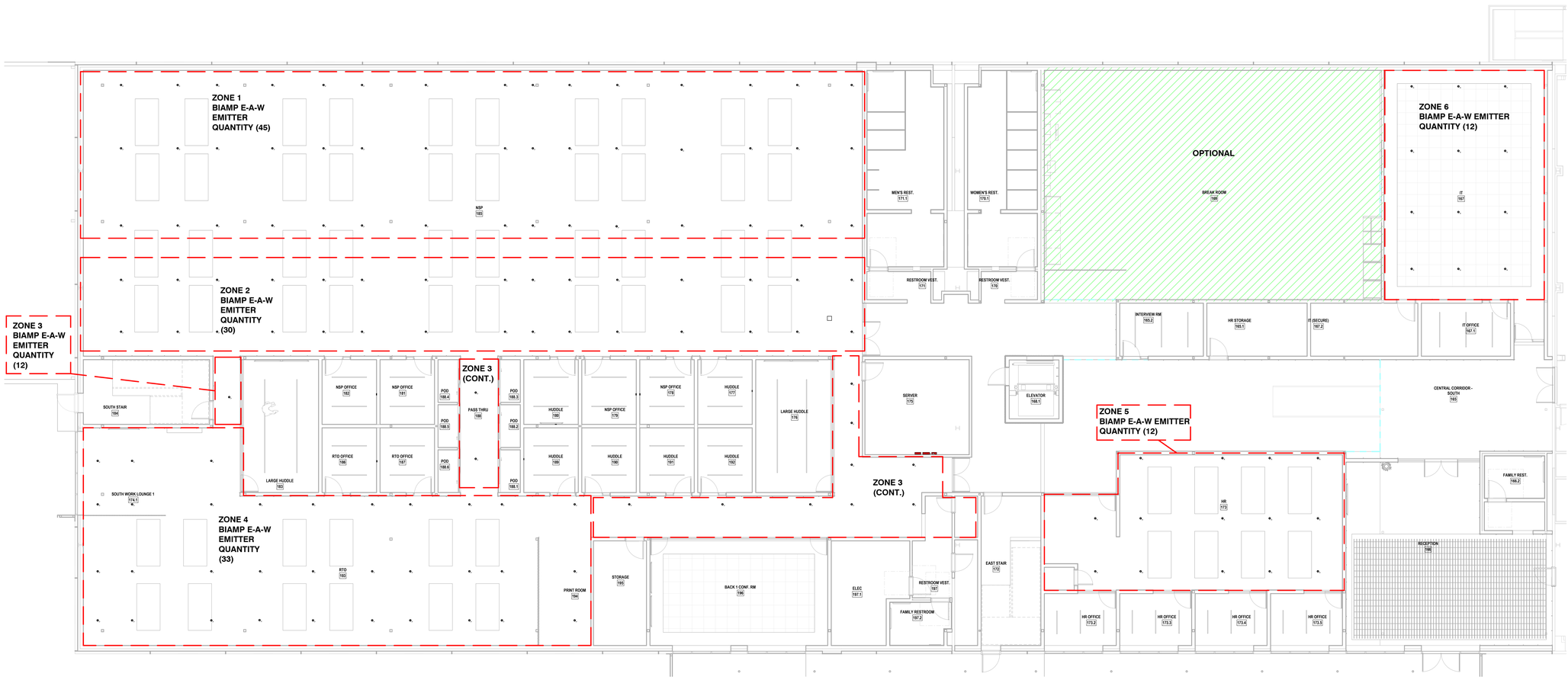
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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contents:
AV NSP, RTO AND EXECUTIVE OFFICES ELEVATION - ZONE B - LEVEL 01 & 02 - PHASE 1 & 2
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TA.601



E1 | AV - ZONE B - LEVEL 01 - PHASE 1 - SOUNDMASKING
1/8" = 1'-0"

issue for review:	2026.08.05
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contents.
AV SOUNDMASKING FACILITY PLAN - ZONE B - LEVEL 01 - PHASE 1

design. ISSUE FOR PRICING

date. 2026.09.11

project. 136343

TA.800

DISPLAY SCHEDULE - PH 1		
DISPLAY ID	MODEL	LOCATION
FPD 1.01	SAMSUNG QM75C	RECEPTION DISPLAY
FPD 1.02	SAMSUNG QM75C	BREAK ROOM DISPLAY
FPD 1.03	SAMSUNG QM55C	BREAK ROOM DISPLAY PORTRAIT
FPD 1.04A	SAMSUNG QM75C	BACK 1 CONFERENCE ROOM DISPLAY
FPD 1.04B	SAMSUNG QM75C	BACK 1 CONFERENCE ROOM DISPLAY
FPD 1.05A	SAMSUNG QM65C	LARGE HUDDLE 183 DISPLAY
FPD 1.05B	SAMSUNG QM65C	LARGE HUDDLE 183 DISPLAY
FPD 1.06	SAMSUNG QM55C	HUDDLE 177 DISPLAY
FPD 1.07	SAMSUNG QM55C	HUDDLE 192 DISPLAY
FPD 1.08	SAMSUNG QM55C	NSP OFFICE 178 DISPLAY
FPD 1.09	SAMSUNG QM55C	HUDDLE 191 DISPLAY
FPD 1.10	SAMSUNG QM55C	NSP OFFICE 179 DISPLAY
FPD 1.11	SAMSUNG QM55C	HUDDLE 190 DISPLAY
FPD 1.12	SAMSUNG QM55C	HUDDLE 180 DISPLAY
FPD 1.13	SAMSUNG QM55C	HUDDLE 189 DISPLAY
FPD 1.14	SAMSUNG QM55C	NSP OFFICE 181 DISPLAY
FPD 1.15	SAMSUNG QM55C	RTO OFFICE 187 DISPLAY
FPD 1.16	SAMSUNG QM55C	NSP OFFICE 182 DISPLAY
FPD 1.17	SAMSUNG QM55C	RTO OFFICE 186 DISPLAY
FPD 1.18A	SAMSUNG QM65C	LARGE HUDDLE 183 DISPLAY
FPD 1.18B	SAMSUNG QM65C	LARGE HUDDLE 183 DISPLAY
FPD 1.19	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.20	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.21	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.22	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.23	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.24	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 1.25	SAMSUNG QM75C	LEVEL 1 DIGITAL SIGNAGE
FPD 2.29	SAMSUNG QM55C	IT OFFICE 167.1 DISPLAY

Grand total: 29

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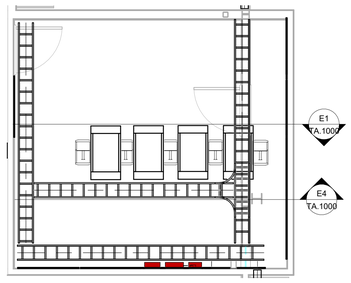
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contents:
AV DISPLAY SCHEDULE - ZONE B - LEVEL 01 & 02 - PHASE 1

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date. 2026.09.11
project. 136343

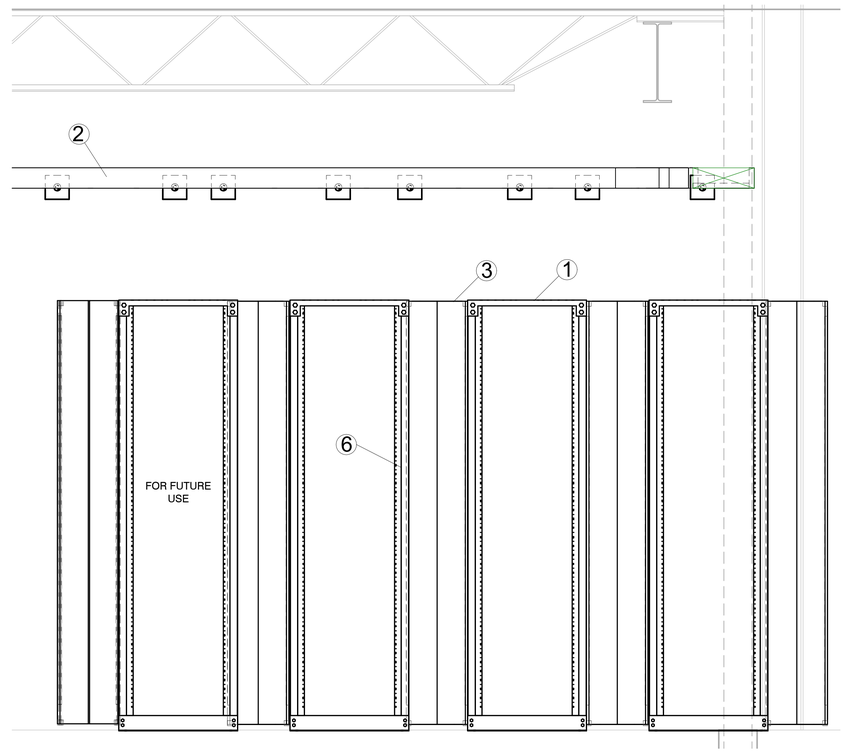
TA.900

AUDIOVISUAL SET KEYNOTE LEGEND	
1	4 POST RACK 45RU 30" DEEP
2	QUAD OUTLET
3	12" VERTICAL CABLE MANAGER
4	HORIZONTAL 1RU CABLE MANAGER
5	12" X 4" CABLE TRAY
6	APC RACK MOUNTED PDU 2G SWITCHED



B1 AV - LEVEL 01 - PHASE 1 - ROOM PART PLAN
1/4" = 1'-0"

E1 IDF1- FRONT ELEVATION - AV
1" = 1'-0"



E4 IDF1- BACK ELEVATION - AV
1" = 1'-0"

issue for review: 2026.08.05
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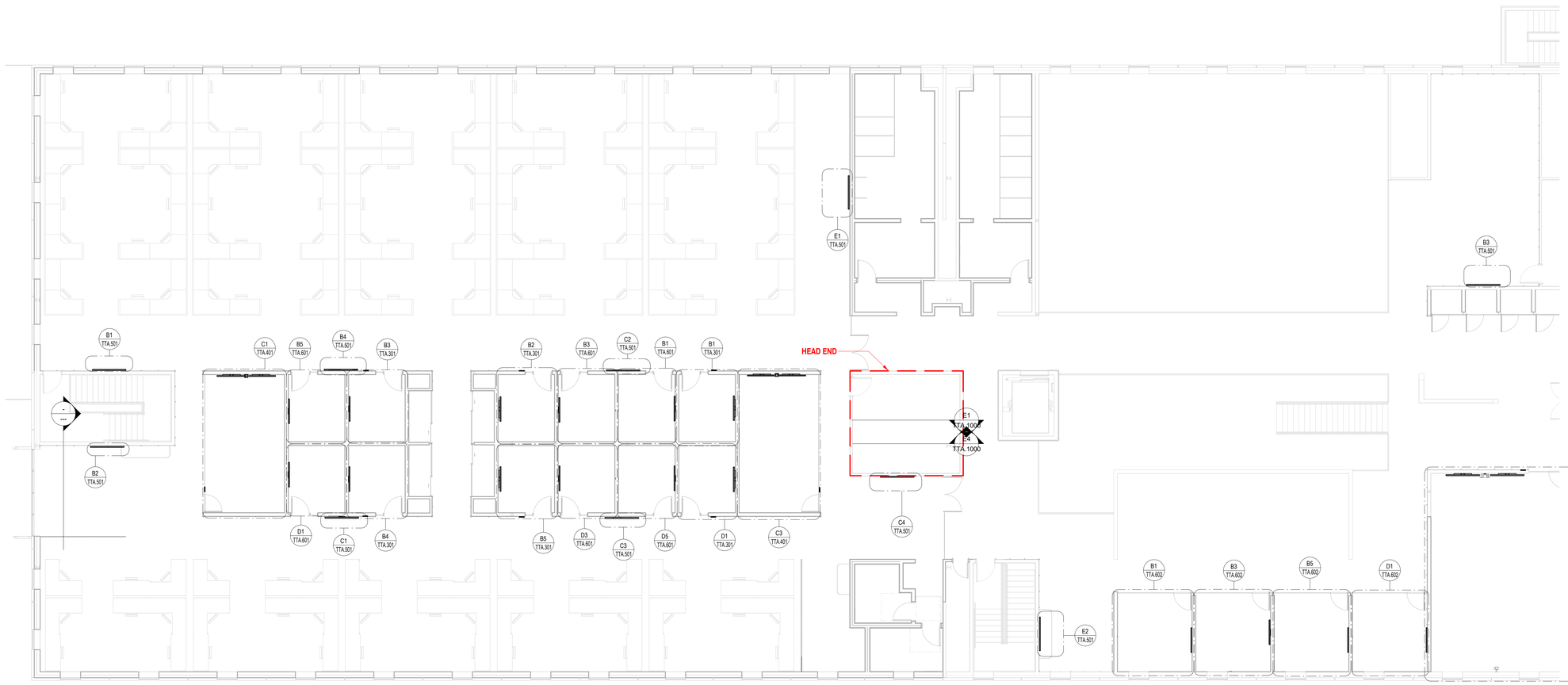
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contents:
AV AV IDF/MDF PART PLANS - ZONE B - LEVEL 01 - PHASE 1

design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TA.1000



E1 | AV - ZONE B - LEVEL 02 - PHASE 2 - FLOOR PLAN
1/8" = 1'-0"

issue for review: 2026.08.05
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contents.
AV FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2

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project. 136343

TTA.005



E1 AV - ZONE B - LEVEL 02 - PHASE 2 - RCP
1/8" = 1'-0"

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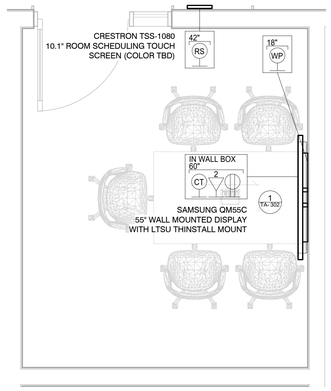
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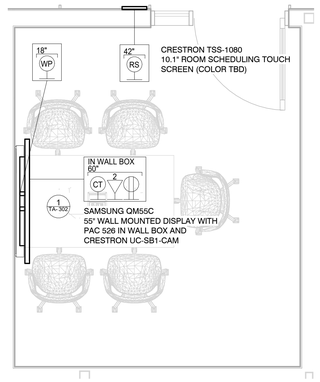
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AV RCP AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2

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project. 136343

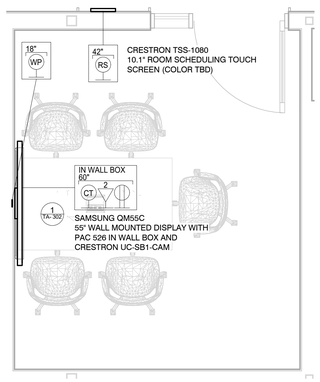
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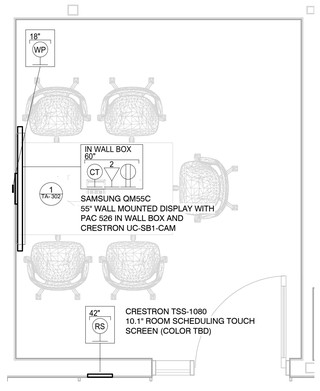
B1 AV FACILITY - LEVEL 02 - PHASE 2 - HUDDLE 277
1/2" = 1'-0"



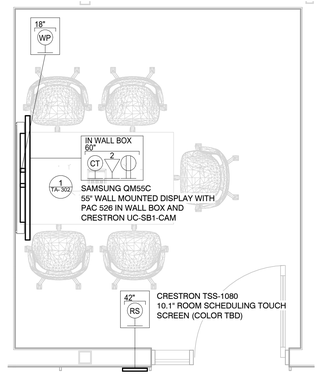
B2 AV FACILITY - LEVEL 02 - PHASE 2 - HUDDLE 280
1/2" = 1'-0"



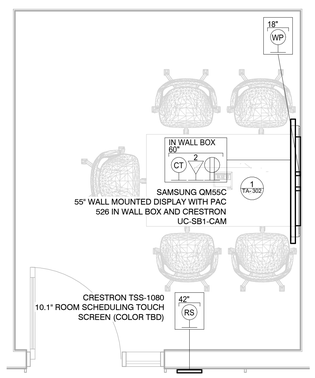
B3 AV FACILITY- LEVEL 02 - PHASE 2 - HUDDLE 281
1/2" = 1'-0"



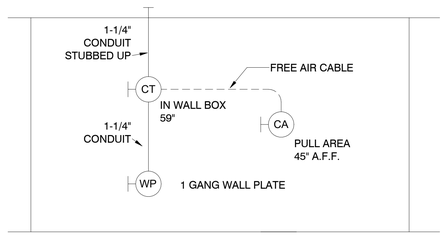
B4 AV FACILITY- LEVEL 02 - PHASE 2 - HUDDLE 287
1/2" = 1'-0"



B5 AV FACILITY- LEVEL 02 - PHASE 2 - HUDDLE 289
1/2" = 1'-0"



D1 AV FACILITY- LEVEL 02 - PHASE 2 - HUDDLE 292
1/2" = 1'-0"



D2 AV - CONDUIT RISER - SMALL HUDDLE LEVEL 2
1/2" = 1'-0"

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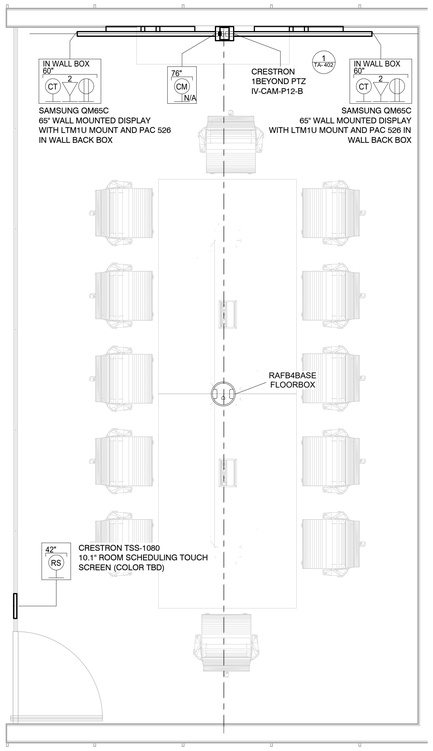
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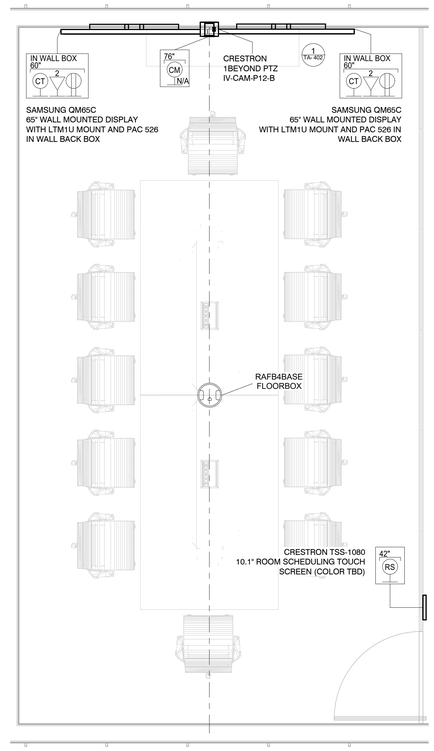
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AV HUDDLE ROOM FACILITY PLANS - ZONE B - LEVEL 02 - PHASE 2

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date: 2026.09.11
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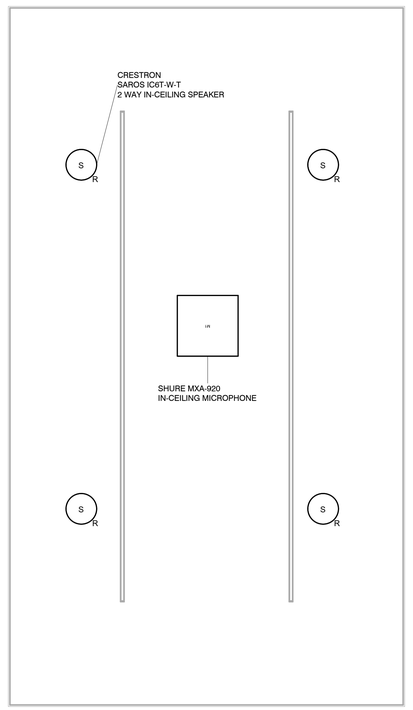
TTA.301



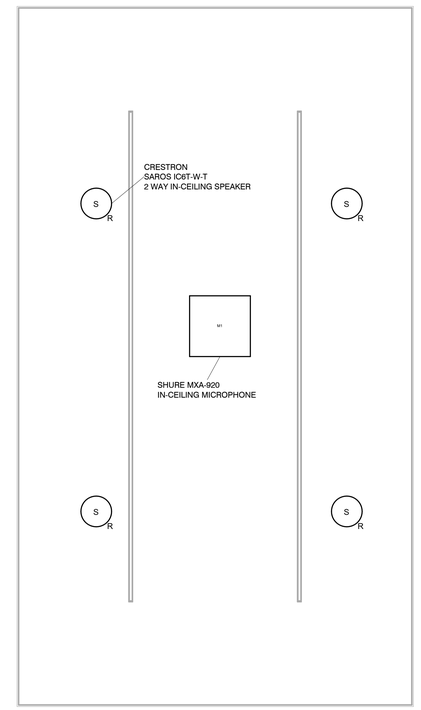
C1 AV FACILITY- LEVEL 02 - PHASE 2 - LARGE HUDDLE 283
1/2" = 1'-0"



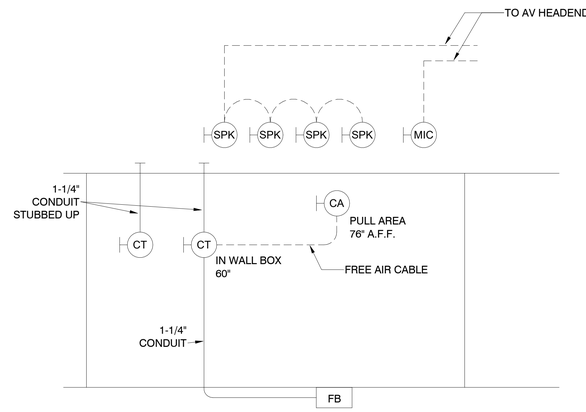
C3 AV FACILITY - LARGE HUDDLE 276
1/2" = 1'-0"



E1 AV RCP- LEVEL 02 - PHASE 2 - LARGE HUDDLE 283
1/2" = 1'-0"



E3 AV RCP - LEVEL 02 - PHASE 2 - LARGE HUDDLE 276
1/2" = 1'-0"



E5 AV - CONDUIT RISER - LARGE HUDDLE ROOM LEVEL 2
1/2" = 1'-0"

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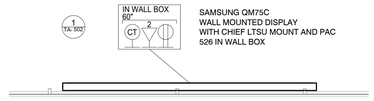
1419 WEST MONROE AVENUE
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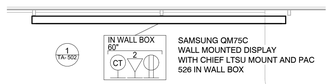
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contents:
AV LARGE HUDDLE ROOMS
FACILITY PLAN & RCP - ZONE B - LEVEL 02 - PHASE 2
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

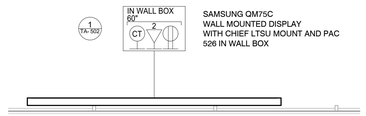
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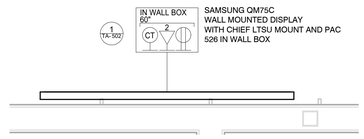
B1 AV FACILITY - LEVEL 2 DIGITAL SIGNAGE - 1
3/4" = 1'-0"



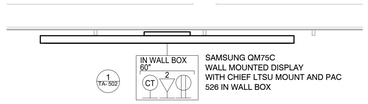
B2 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 2
3/4" = 1'-0"



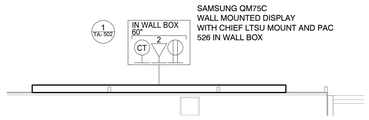
B3 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 9
3/4" = 1'-0"



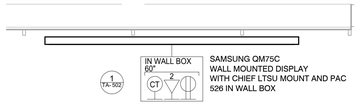
B4 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 3
3/4" = 1'-0"



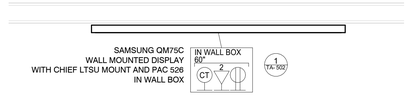
C1 AV FACILITY- LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 4
3/4" = 1'-0"



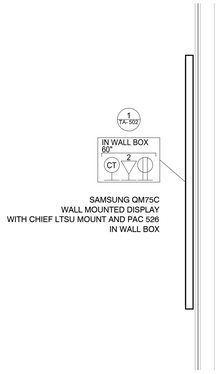
C2 AV FACILITY- LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 5
3/4" = 1'-0"



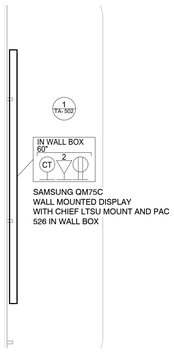
C3 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 6
3/4" = 1'-0"



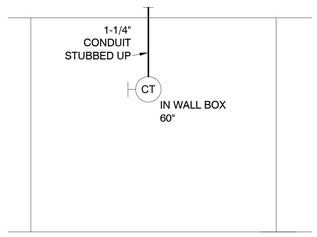
C4 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 7
3/4" = 1'-0"



E1 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 8
3/4" = 1'-0"



E2 AV FACILITY - LEVEL 02 - PHASE 2 - DIGITAL SIGNAGE - 10
3/4" = 1'-0"



E3 AV - CONDUIT RISER - DIGITAL SIGNAGE LEVEL 2
1/2" = 1'-0"

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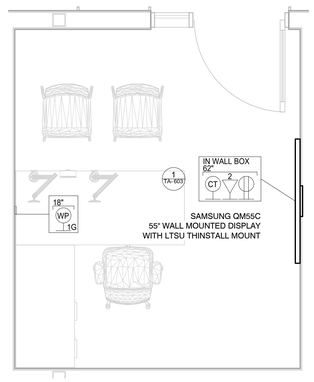
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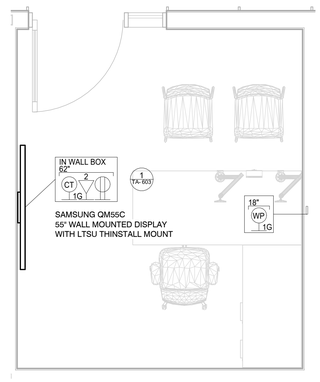
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AV DIGITAL SIGNAGE FACILITY PLAN - ZONE B - LEVEL 02 - PHASE 2

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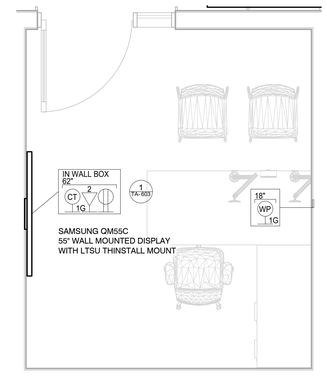
TTA.501



B1 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 278
1/2" = 1'-0"



B3 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 279
1/2" = 1'-0"

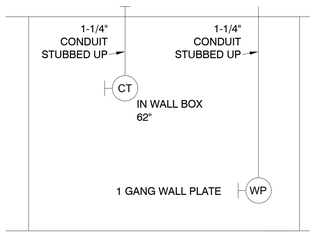


B5 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 282
1/2" = 1'-0"

D1 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 286
1/2" = 1'-0"

D3 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 290
1/2" = 1'-0"

D5 AV FACILITY - LEVEL 02 - PHASE 2 - NSP OFFICE 291
1/2" = 1'-0"



TYPICAL PER DISPLAY

E1 AV CONDUIT RISER - NSP, RTO OFFICES LEVEL 2
1/2" = 1'-0"

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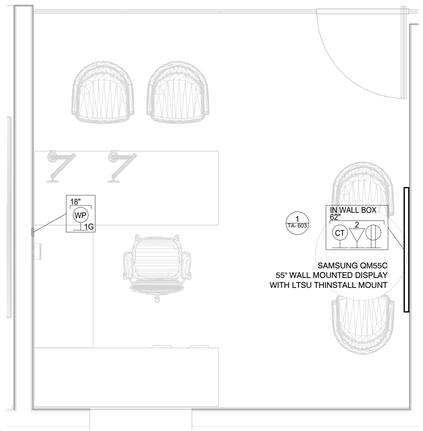
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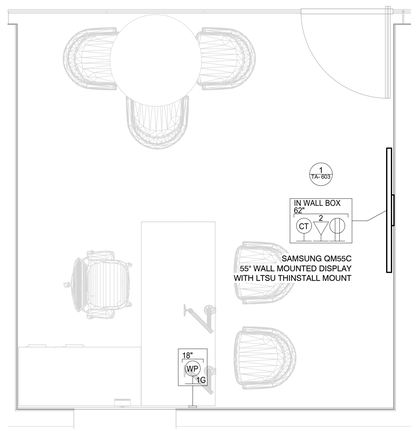
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AV NSP OFFICE FACILITY PLANS - ZONE B - LEVEL 02 - PHASE 2

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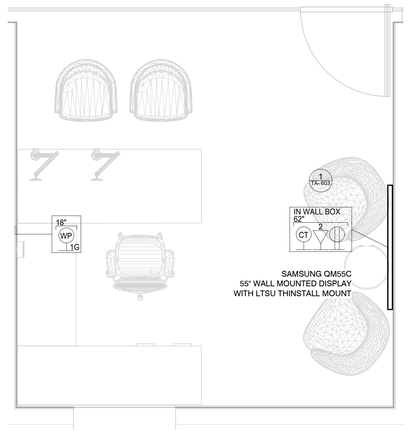
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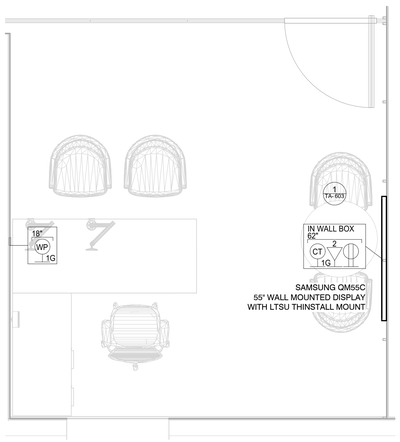
B1 | AV FACILITY - LEVEL 02 - PHASE 2 - EXECUTIVE OFFICE 241
1/2" = 1'-0"



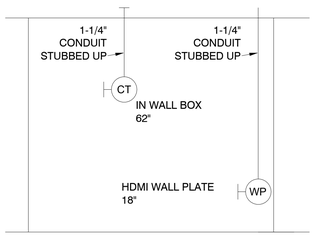
B3 | AV FACILITY - LEVEL 02 - PHASE 2 - EXECUTIVE OFFICE 242
1/2" = 1'-0"



B5 | AV FACILITY - LEVEL 02 - PHASE 2 - EXECUTIVE OFFICE 243
1/2" = 1'-0"



D1 | AV FACILITY - LEVEL 02 - PHASE 2 - EXECUTIVE OFFICE 244
1/2" = 1'-0"



TYPICAL PER DISPLAY

D3 | AV - CONDUIT RISER - EXECUTIVE OFFICES LEVEL 2
1/2" = 1'-0"

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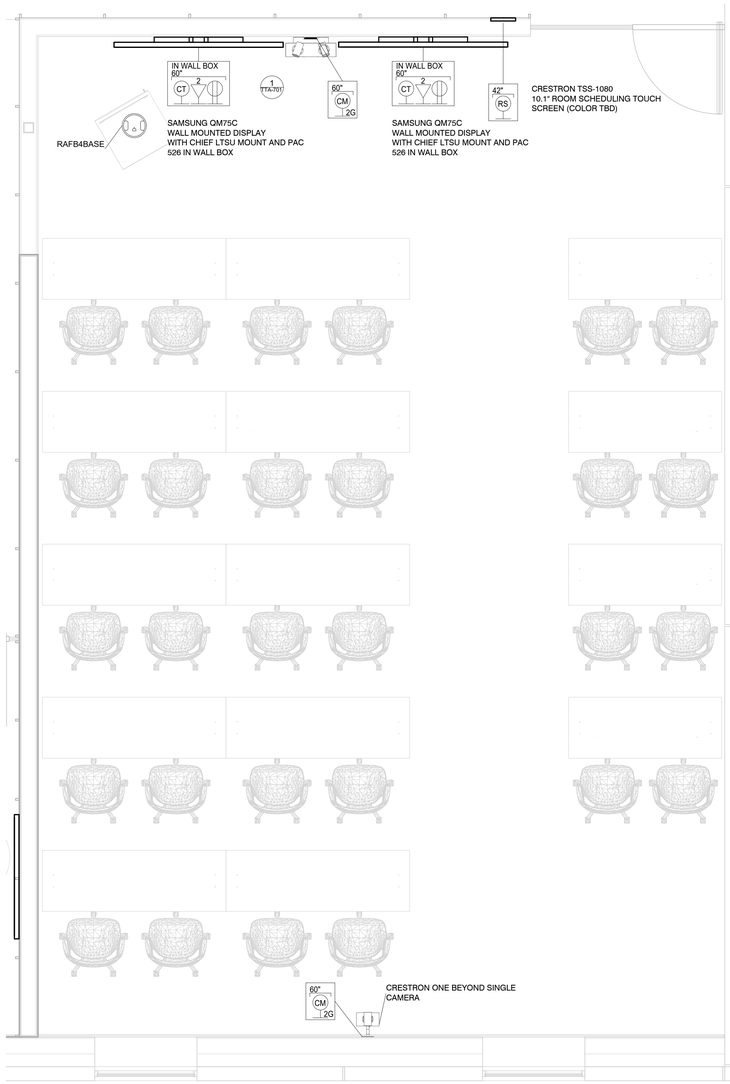
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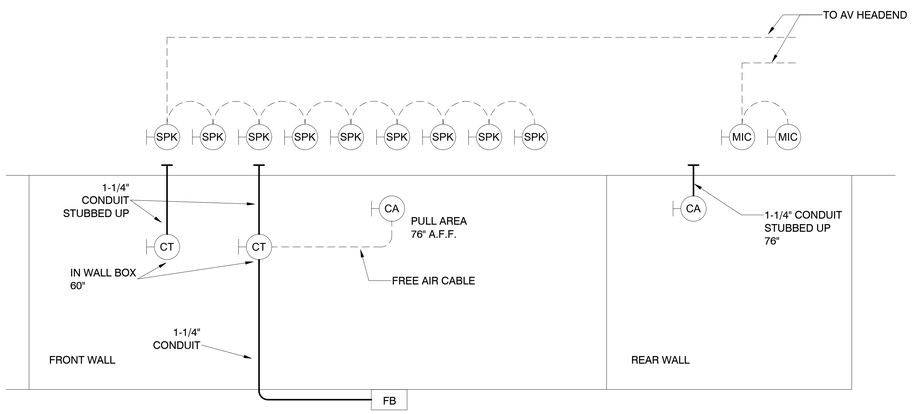
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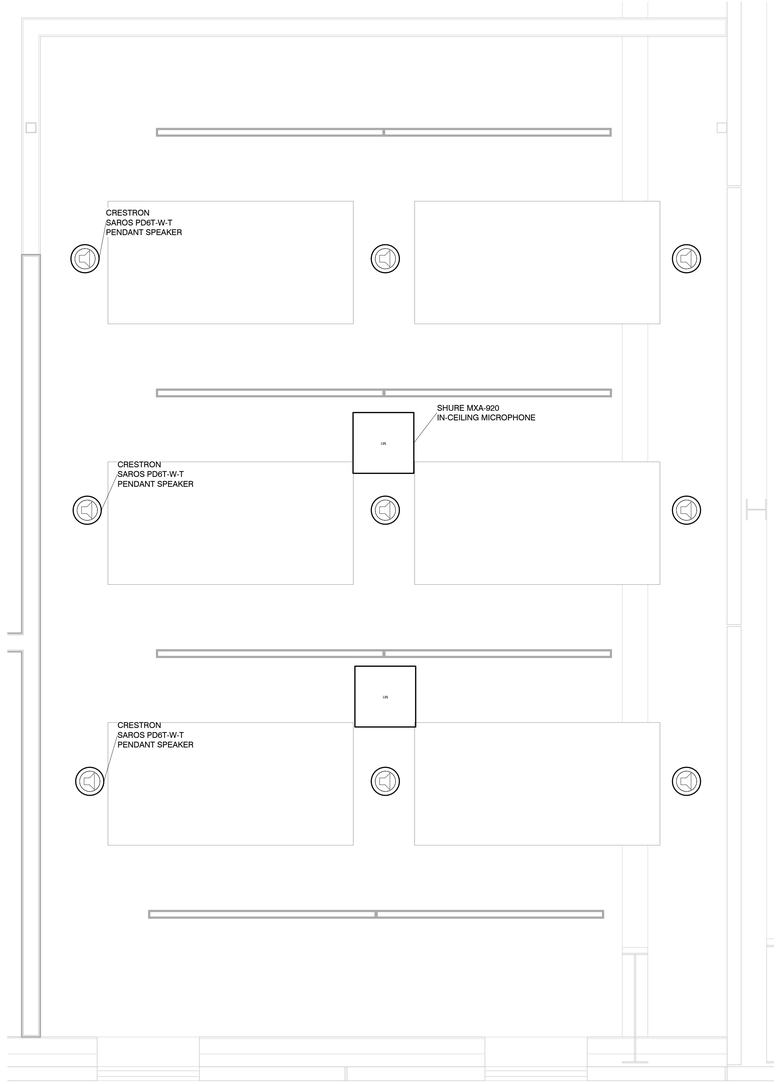
TTA.602



D1 AV FACILITY - LEVEL 02 - PHASE 2 - MIDDLE 2 CONFERENCE ROOM
1/2" = 1'-0"



E1 AV - CONDUIT RISER - MIDDLE 2 CONFERENCE ROOM
1/2" = 1'-0"



D4 AV RCP - LEVEL 02 - PHASE 2 - MIDDLE 2 CONFERENCE ROOM
1/2" = 1'-0"

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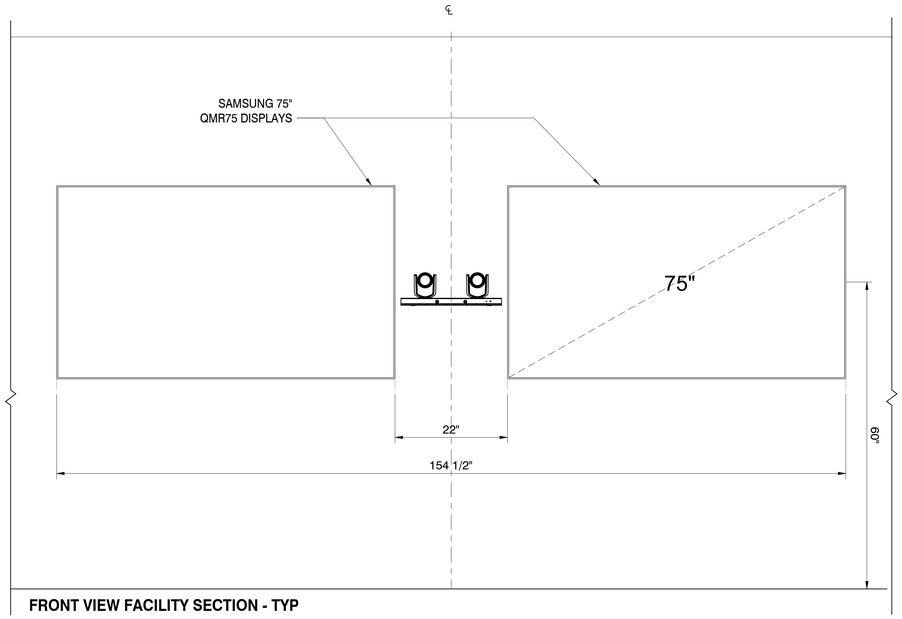
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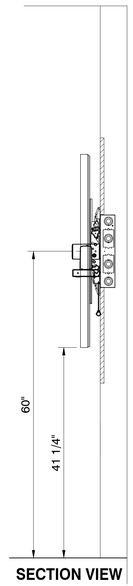
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contents: AV MIDDLE 2 CONFERENCE ROOM FACILITY PLAN & RCP - ZONE B - LEVEL 02 - PHASE 2
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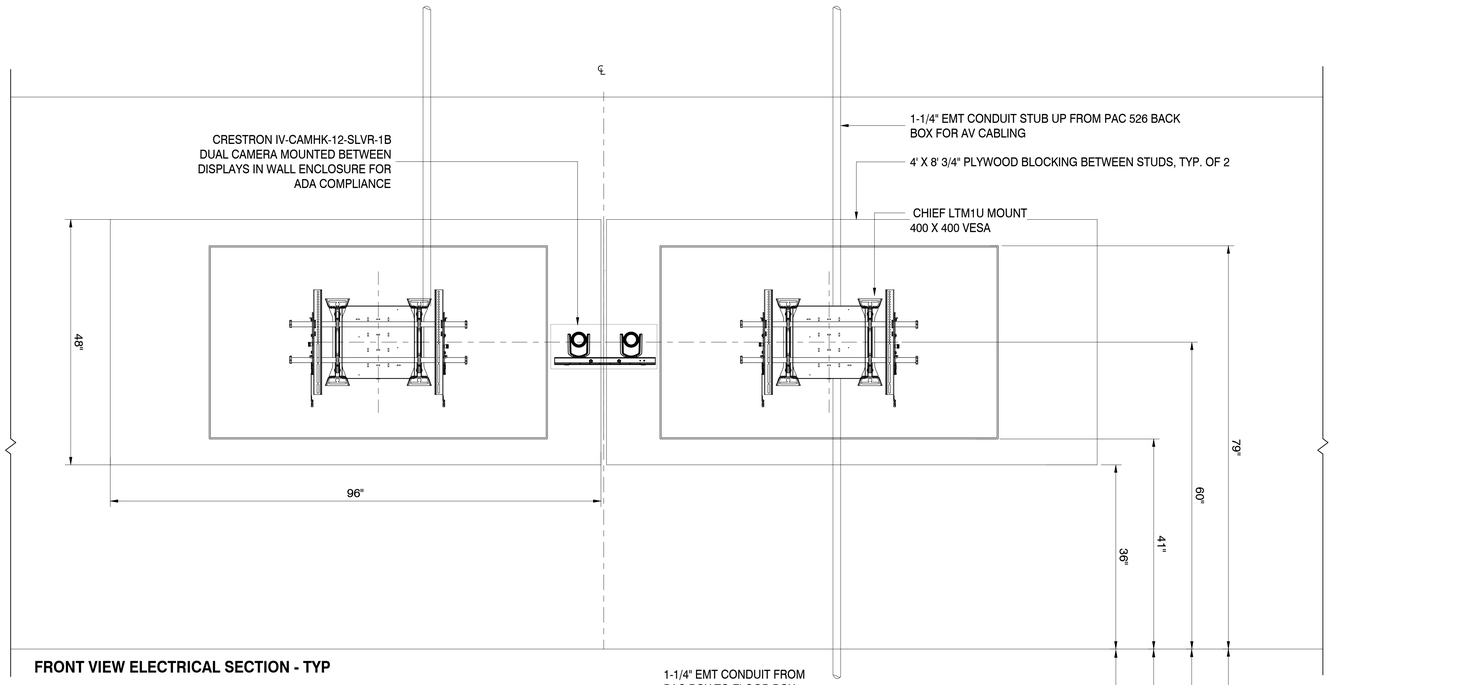
TTA.700



FRONT VIEW FACILITY SECTION - TYP



SECTION VIEW



FRONT VIEW ELECTRICAL SECTION - TYP

DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG 75" QM75C
WEIGHT	88.4 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	231 W
HEAT LOAD	788 BTUs/HR
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	

E1 | AV - LEVEL 02 - PHASE 2 - 75" SAMSUNG QM75C DISPLAY ELEVATION - DUAL DISPLAY CAMERA PAC526 LTM1U MOUNT - MIDDLE 2 CONFERENCE
1" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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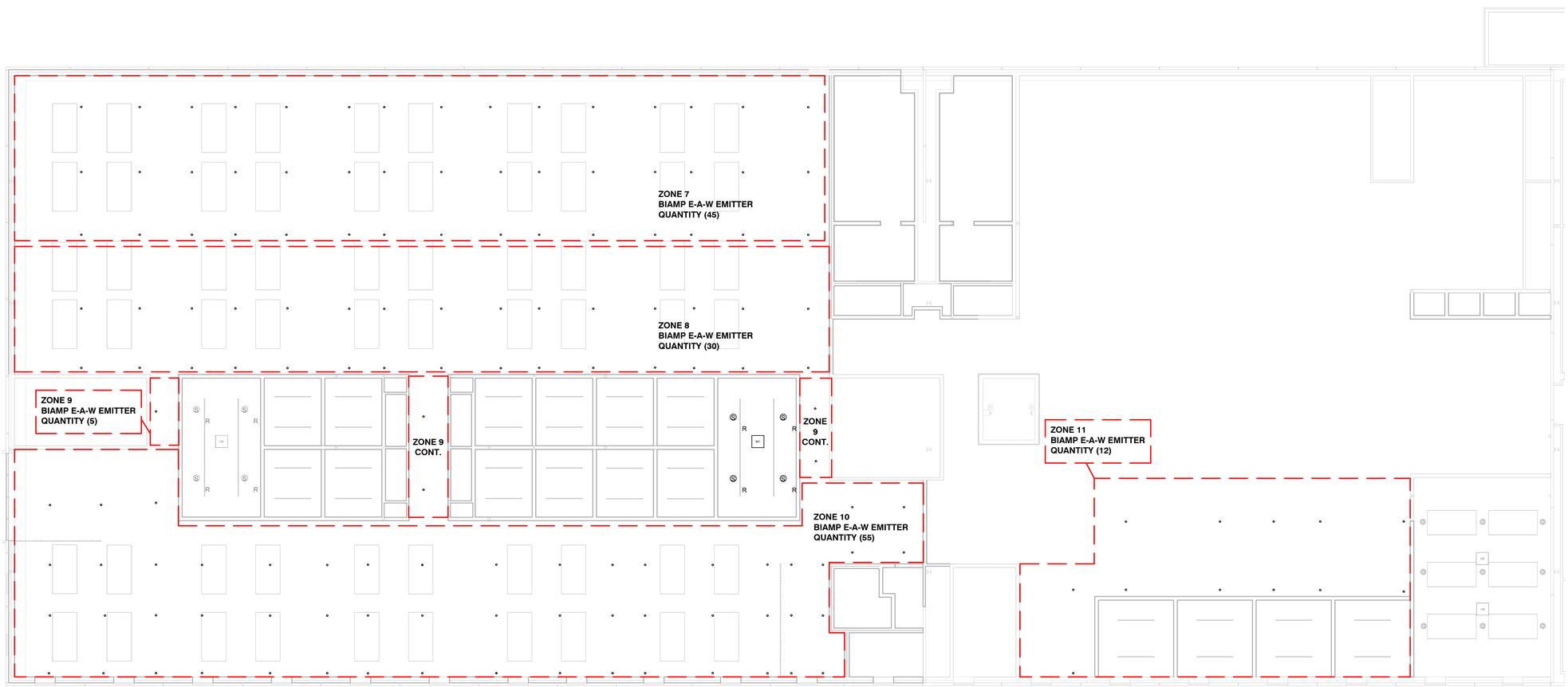
1419 WEST MONROE AVENUE
LOWELL, AR 72745

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contents:
AV MIDDLE 2 CONFERENCE ROOM ELEVATION - ZONE B - LEVEL 02 - PHASE 2
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTA.701



E1 | AV - ZONE B - LEVEL 02 - PHASE 2 - SOUNDMASKING
1/8" = 1'-0"

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issue for construction:

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contents.
AV SOUNDMASKING FACILITY PLAN - ZONE B - LEVEL 02 - PHASE 2
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTA.801

DISPLAY SCHEDULE - PH 2		
DISPLAY ID	MODEL	LOCATION
FPD 2.01	SAMSUNG QM75C	LIBRARY DISPLAY
FPD 2.02A	SAMSUNG QM75C	MIDDLE 2 CONFERENCE 245 DISPLAY
FPD 2.02B	SAMSUNG QM75C	MIDDLE 2 CONFERENCE 245 DISPLAY
FPD 2.03	SAMSUNG QM55C	EXECUTIVE OFFICE 241 DISPLAY
FPD 2.04	SAMSUNG QM55C	EXECUTIVE OFFICE 240 DISPLAY
FPD 2.05	SAMSUNG QM55C	EXECUTIVE OFFICE 239 DISPLAY
FPD 2.06	SAMSUNG QM55C	EXECUTIVE OFFICE 238 DISPLAY
FPD 2.07	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.08	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.09A	SAMSUNG QM65C	LARGE HUDDLE 276 DISPLAY
FPD 2.09B	SAMSUNG QM65C	LARGE HUDDLE 276 DISPLAY
FPD 2.10	SAMSUNG QM55C	HUDDLE 277 DISPLAY
FPD 2.11	SAMSUNG QM55C	HUDDLE 292 DISPLAY
FPD 2.12	SAMSUNG QM55C	NSP OFFICE 278 DISPLAY
FPD 2.13	SAMSUNG QM55C	NSP OFFICE 291 DISPLAY
FPD 2.14	SAMSUNG QM55C	NSP OFFICE 279 DISPLAY
FPD 2.15	SAMSUNG QM55C	NSP OFFICE 290 DISPLAY
FPD 2.16	SAMSUNG QM55C	HUDDLE 280 DISPLAY
FPD 2.17	SAMSUNG QM55C	HUDDLE 289 DISPLAY
FPD 2.18	SAMSUNG QM55C	HUDDLE 281 DISPLAY
FPD 2.19	SAMSUNG QM55C	HUDDLE 287 DISPLAY
FPD 2.20	SAMSUNG QM55C	NSP OFFICE 282 DISPLAY
FPD 2.21	SAMSUNG QM55C	NSP OFFICE 286 DISPLAY
FPD 2.22	SAMSUNG QM75C	EXECUTIVE OFFICE LOBBY
FPD 2.22A	SAMSUNG QM65C	LARGE HUDDLE 283 DISPLAY
FPD 2.22B	SAMSUNG QM65C	LARGE HUDDLE 283 DISPLAY
FPD 2.23	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.24	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.25	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.26	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.27	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE
FPD 2.28	SAMSUNG QM75C	LEVEL 2 DIGITAL SIGNAGE

Grand total: 32

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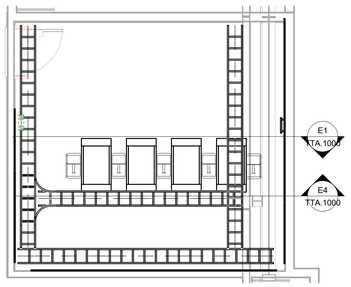
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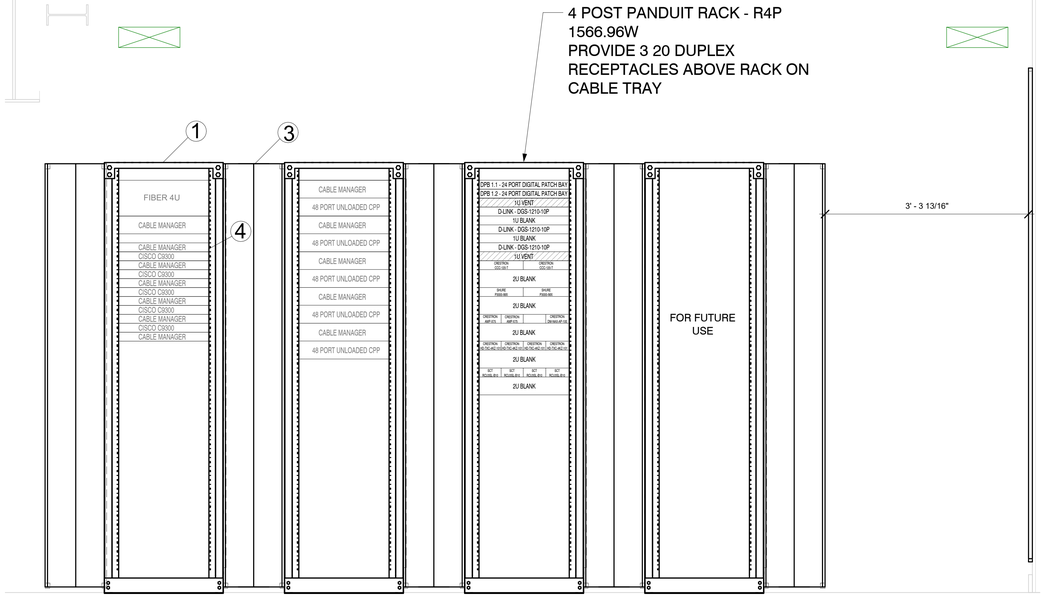
contents: AV DISPLAY SCHEDULE - ZONE B - LEVEL 02 - PHASE 2
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TTA.900

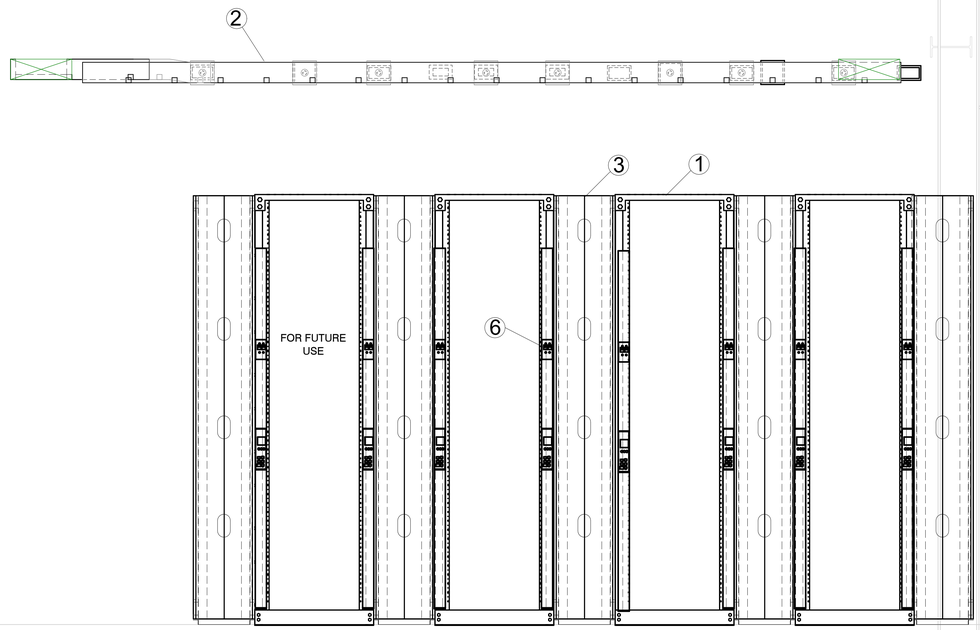
AUDIOVISUAL SET KEYNOTE LEGEND	
1	4 POST RACK 45RU 30" DEEP
2	QUAD OUTLET
3	12" VERTICAL CABLE MANAGER
4	HORIZONTAL 1RU CABLE MANAGER
5	12" X 4" CABLE TRAY
6	APC RACK MOUNTED PDU 2G SWITCHED



B1 AV PH 2 LEVEL 2 ROOM PART PLAN - ZONE B
1/4" = 1'-0"



E1 IDF2- FRONT ELEVATION - AV
1" = 1'-0"



E4 IDF2- BACK ELEVATION - AV
1" = 1'-0"

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issue for pricing: 2026.09.11
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contents
AV IDF/MDF PART PLANS - ZONE B - LEVEL 02 - PHASE 2

design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTA.1000

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PROJECT

WACHTER OFFICE REMODEL
1419 WEST MONROE AVENUE
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JOB

FIRE ALARM

issue for review: 2026.08.05
issue for pricing: 2026.09.11
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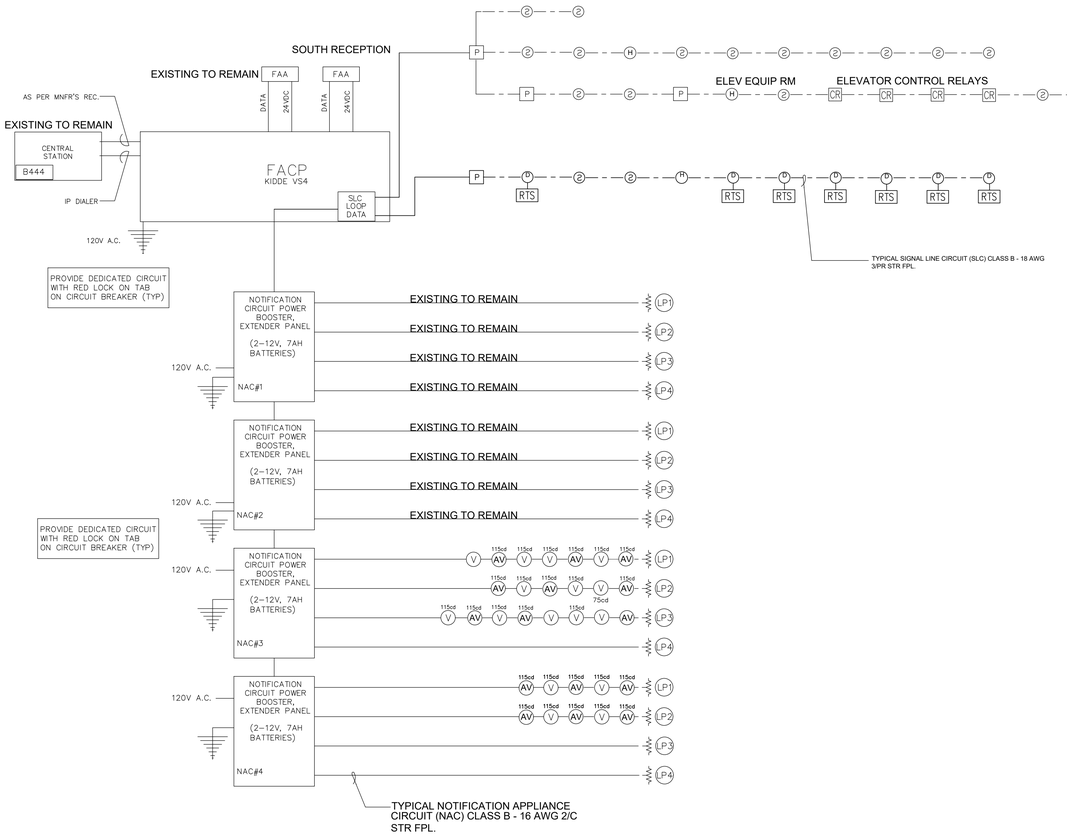
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contents:
FIRE ALARM COVER SHEET

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date. 09.11.2026
project. 136343

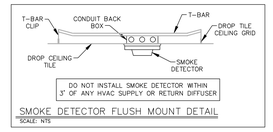
FA.000



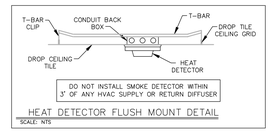
FIRE PROTECTION INITIATING RISER

THE ALARM INSTALLER IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT AND BOXES REQUIRED FOR THE REMOTE TEST SWITCHES.

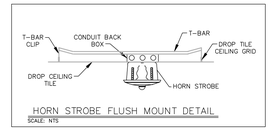
THE ALARM INSTALLER IS RESPONSIBLE FOR ANY ASSOCIATED CONDUIT TO COMPLETE THE INSTALLATION. THIS WILL INCLUDE BUT NOT LIMITED TO WALL PENETRATION SLEEVES, BACK BOXES FOR AUDIO VISUALS, KEYPAD BOXES AND STUBS, WATER FLOW AND TAMPER DETECTOR BOXES AND STUBS, RTU TEST SWITCHES BOXES AND STUBS.



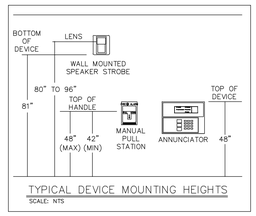
SMOKE DETECTOR FLUSH MOUNT DETAIL
SCALE: NTS



HEAT DETECTOR FLUSH MOUNT DETAIL
SCALE: NTS



HORN STROBE FLUSH MOUNT DETAIL
SCALE: NTS



TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NTS

FIRE ALARM SCOPE OF WORK

THE BUILDING IS PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM.
THE FIRE ALARM SYSTEM CONSISTS OF THE FOLLOWING:

1) SUPERVISE ALL VALVES CONTROLLING THE SPRINKLER SYSTEM.
2) INSTALL ONE MANUAL STATION AT A CONSTANTLY AT PUBLIC EXITS.
3) INSTALL NOTIFICATION THROUGHOUT THE BUILDING.
4) INSTALL ONE SMOKE DETECTOR TO PROTECT THE FACP & POWER SUPPLIES AS SHOWN
5) CONNECT ALL AUTOMATIC EXTINGUISHING SYSTEMS (ANSUL, ETC.) TO INITIATE AN "ALARM" CONDITION.
6) MONITOR EXISTING DUCT SMOKE DETECTORS FOR ALL AC UNITS GREATER THAN 2000 CFM.
7) AFTER INSTALLATION A DECIBEL TEST AND CERTIFICATION MAY BE REQUIRED BY AHJ.

COMPLIANCE NOTES

1. THIS SYSTEM DESIGN IS BASED UPON COMPLIANCE WITH THE NATIONAL, STATE AND LOCAL CODES. THE OCCUPANCY CLASS IS COMERCIAL. THE FACILITY WILL BE PROTECTED THROUGHOUT BY A FULLY SUPERVISED FIRE SPRINKLER SYSTEM PER NFPA 13 AND NFPA 72.
2. ELECTRONIC SPRINKLER SUPERVISORY SERVICE IS PROVIDED AND IS PROPRIETARY SYSTEM UNDER NFPA 72.
3. FLOW SWITCHES WILL BE PROVIDED ON ALL SPRINKLER RISERS WITH ALARM ZONING COINCIDING WITH SPRINKLER ZONING.
4. TAMPER SWITCHES WITH BE PROVIDED ON ALL VALVES, AND WHERE APPLICABLE, ALL OTHER ELEMENTS ESSENTIAL TO THE PROPER OPERATION OF THE SPRINKLER WILL ALSO BE SUPERVISED.
5. REMOTE ANNUNCIATOR(S) WILL PROVIDE POINT IDENTIFICATION ALL DEVICES/ZONES IN ALPHANUMERIC DISPLAY, AND AT LEAST ONE WILL BE LOCATED AT THE MAIN ENTRANCE, PER THE DRAWINGS.
6. MANUAL STATIONS WILL BE INSTALLED AND LOCATED WHERE REQUIRED BY THE AHJ, PER NFPA 72. UNLESS OTHERWISE SPECIFIED BY THE AHJ.
7. ONE SMOKE DETECTOR WILL BE INSTALLED ABOVE THE FACP IN ACCORDANCE WITH NFPA 72 AND ANY REMOTE LOCATIONS WHERE FIRE CONTROL EQUIPMENT IS INSTALLED.
8. AIR HANDLING UNITS IN EXCESS OF 2000 CFM WHICH INCLUDE DUCT SMOKE DETECTORS SHALL SHUT DOWN THEIR RESPECTIVE FANS AND CAUSE A "SUPERVISORY" SIGNAL ON THE FACP PER NFPA 90A. SEE SCOPE OF MECHANICAL CONTRACTOR SHOP DRAWINGS FOR DETAILS.
9. COOKING HOOD SUPPRESSION SYSTEM(S) (IF ANY) SHALL BE CONNECTED TO THE SYSTEM TO CAUSE AN "ALARM" SIGNAL UPON AGENT DISCHARGE, PER NFPA 17 AND NFPA 72. SEE SUPPRESSION CONTRACTOR'S SHOP DRAWINGS FOR DETAILS.
10. ALL NON-REQUIRED DEVICES INDICATED IN THE SUBMITTAL (IF ANY), ARE VOLUNTARILY PROVIDED AND ARE DESIGNATED AS "SUPPLEMENTARY" IN NATURE, AS DEFINED IN NFPA 72.
11. AUDIBLE AND VISUAL NOTIFICATION APPLIANCES ARE PROVIDED AS INDICATED ON THE PLAN.
12. WACHTER OR THE APPROVED CONTRACTOR WILL INSTALL THE FIRE ALARM WHERE LEGALLY ENTITLED BY LICENSING, PERMITTING, CERTIFICATION OR EXEMPTION. LOCAL CONTRACTOR TO BE USED ELSEWHERE.
13. OFF PREMISES, AUTOMATIC ALARM NOTIFICATION WILL BE SOLE PATH CELLULAR COMMUNICATION TO SOUTHWEST DISPATCH UL LISTED CENTER.
14. WIRING WILL BE INSTALLED PER (THE NEC) NFPA 70 AND ALL OTHER APPLICABLE SECTIONS. ALL EQUIPMENT SHALL BE PROPERLY LISTED PER NFPA 72.
15. THESE NOTES DO NOT SUPERCEDE REQUIREMENTS OF OTHER TRADES, SPECIFICALLY INCLUDING MECHANICAL.
16. APPLICABLE STATE AND LOCAL MODIFICATION ADOPTED THROUGH DUE PROCESS OF LAW AND WHICH CONFLICT WITH THESE NOTES SHALL SUPERCEDE AND COPIES SHOULD BE CONVEYED TO THE CONTACT PERSON INDICATED BELOW.

WACHTER LOWELL REMODEL
1419 WEST MONROE AVENUE
LOWELL, AR 72745

DRAWING NO	DESCRIPTION	1	2	3	4	5	6	7	8	A	B	C	D
FA.000	FA COVER SHEET		X	X	X	X	X	X	X				
FA.001	FA - ZONE B - PHASE 01 - RISER DIAGRAM - GENERAL NOTES		X	X	X	X	X	X	X				
FA.002	FA - ZONE B - PHASE 01 - CALCULATIONS		X	X	X	X	X	X	X				
FA.003	FA - ZONE B - LEVEL 01 - PHASE 01 - FLOOR PLAN AREA OF WORK		X	X	X	X	X	X	X				
FA.004	FA - ZONE B - LEVEL 02 - PHASE 01 - FLOOR PLAN AREA OF WORK		X	X	X	X	X	X	X				

SEQUENCE OF OPERATIONS

ACTIVATION OF COOKING HOOD SUPRESSION SYSTEM	ACTIVATION OF DUCT SMOKE DETECTOR	ACTIVATION OF WATER FLOW SWITCH	ACTIVATION OF SPRINKLER TAMPER SWITCH/ SUPERVISORY DEVICE	ACTIVATION OF AREA SMOKE/HEAT DETECTORS	ACTIVATION OF MANUAL PULL STATION	FIRE ALARM AC POWER FAILURE	FIRE ALARM LOW BATTERY	OPEN CIRCUIT	GROUND FAULT	NOTES:
	X		X		X	X				ACTIVATES NOTIFICATION APPLIANCES
	X		X		X	X				TRANSMIT ALARM SIGNAL TO APPROVED CENTRAL STATION ALARM MONITORING SERVICE
		X		X						TRANSMIT SUPERVISORY SIGNAL TO APPROVED CENTRAL STATION ALARM MONITORING SERVICE
						X	X	X	X	TRANSMIT TROUBLE SIGNAL TO APPROVED CENTRAL STATION ALARM MONITORING SERVICE
		X								ACTIVATES AHU/RTU UNIT TO SHUTDOWN
			X							ACTIVATES WP NOTIFICATION ABOVE FDC
	X		X		X	X				ACTIVATES CX (PUBLIC ADDRESS) SYSTEM INTERFACE

CENTRAL STATION TO RECEIVE SEPARATE & DISTINCT SIGNALS.

POINT TO BE ANNUNCIATED AS :	POINT TYPE	
	FIRE ALARM	SUPERVISORY ALARM
RISER #1 WATERFLOW	X	
RISER #2 WATERFLOW	X	
RISER #3 WATERFLOW	X	
RISER #4 WATERFLOW	X	
RISER #5 WATERFLOW	X	
RISER #6 WATERFLOW	X	
RISER #1 TAMPER		X
RISER #2 TAMPER		X
RISER #3 TAMPER		X
RISER #4 TAMPER		X
RISER #5 TAMPER		X
RISER #6 TAMPER		X
MANUAL PULL STATION	X	
SMOKE / HEAT DETECTORS	X	
DUCT SMOKE DETECTORS		X
COOKING HOOD SUPPRESSION SYSTEM	X	

ALL FIRE ALARM SYSTEM CIRCUIT WIRING MUST ANNUNCIATE A TROUBLE SIGNAL DURING OPEN AND GROUND FAULT CONDITIONS. ADDITIONALLY ALL OUTPUT CIRCUITS (HORNS/STROBES) ARE REQUIRED TO ANNUNCIATE A TROUBLE SIGNAL DURING A WIRE TO WIRE SHORT CONDITION. THE FIRE ALARM SYSTEM WILL BE TESTED BY THE OWNER'S REPRESENTATIVES TO THE CRITERIA OF NFPA 72.

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contents:
FA - ZONE B - PHASE 01 - RISER DIAGRAM - GENERAL NOTES

design: ISSUE FOR PRICING
date: 09.11.2026
project: 136343

FA.001

Fire Panel	ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT PER ITEM
	KIDDE VS4	FIRE ALARM CONTROL UNIT	0.0172	X	1	=	0.0400	0.0267	X	1	=	0.0267
	K-RLCD-C	ANNUNCIATOR	0.0098	X	2	=	0.0196	0.0113	X	2	=	0.0226
	GSA-CC1S	SYNC OUTPUT MODULE	0.0090	X	4	=	0.0360	0.0090	X	4	=	0.0360
	GSA-CT1	ADDRESSABLE INPUT MODULE	0.0003	X	4	=	0.0012	0.0150	X	4	=	0.0600
	GSA-CR	ADDRESSABLE OUTPUT MODULE	0.0085	X	7	=	0.0595	0.0085	X	7	=	0.0595
	GSA-M270	ADDRESSABLE PULLS TATION	0.0003	X	19	=	0.0007	0.0005	X	19	=	0.0095
	GSA-SD	DUCT SMOKE DETECTOR	0.0005	X	7	=	0.0006	0.0005	X	7	=	0.0035
	KI-OSD	ADDRESSABLE PHOTO SMOKE	0.0004	X	68	=	0.0272	0.0006	X	68	=	0.0408
	KI-HRD	ADDRESSABLE HEAT DETEC TOR	0.0005	X	5	=	0.0025	0.0007	X	5	=	0.0035
	SD-TRK	REMOTE TEST SWITCH	0.0000	X	7	=	0.0000	0.0003	X	7	=	0.0021
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
		"TOTAL SYSTEM STANDBY CURRENT (AMPS)"					0.1873	"TOTAL SYSTEM ALARM CURRENT (AMPS)"				0.2642

Prepared for:	REQUIRED STANDBY TIME (HRS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
	24.0000	X	0.1873	=	4.4952	0.0830	X	0.2642	=	0.0219

Prepared by:	REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		TOTAL CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)		SAFETY FACTOR		ADJUSTED BATTERY CAPACITY (AMP-HOURS)
	4.50	+	0.0219	=	4.5171	4.5171	X	120%	=	5.4206

PS 1	ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT PER ITEM
	MIRBPS10A	NAC Booster Panel	0.0700	X	1	=	0.0700	0.1000	X	1	=	0.1000
	EGCAVRF	Ceiling Horn-Strobe 95CD	0.0000	X	0	=	0.0000	0.0092	X	0	=	0.0000
	EGCAVRF	Horn-Strobe 15CD	0.0000	X	0	=	0.0000	0.0035	X	0	=	0.0000
	EGCAVRF	Horn-Strobe 30CD	0.0000	X	9	=	0.0000	0.0035	X	9	=	0.0315
	EGCAVRF	Horn-Strobe 75CD	0.0000	X	0	=	0.0000	0.0035	X	0	=	0.0000
	EGCVRF	Strobe 15CD	0.0000	X	5	=	0.0000	0.0024	X	5	=	0.0120
	EGCVRF	Strobe 30CD	0.0000	X	7	=	0.0000	0.0024	X	7	=	0.0168
	EGCVRF	Strobe 75CD	0.0000	X	0	=	0.0000	0.0024	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.1750	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.1750	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.1100	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
		"TOTAL SYSTEM STANDBY CURRENT (AMPS)"					0.0700	"TOTAL SYSTEM ALARM CURRENT (AMPS)"				0.1603

Prepared for:	REQUIRED STANDBY TIME (HRS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
	24.0000	X	0.0700	=	1.6800	0.0830	X	0.1603	=	0.0133

Prepared by:	REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		TOTAL CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)		SAFETY FACTOR		ADJUSTED BATTERY CAPACITY (AMP-HOURS)
	1.68	+	0.0133	=	1.6933	1.6933	X	120%	=	2.032

PS 2	ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT PER ITEM
	MIRBPS10A	NAC Booster Panel	0.0700	X	1	=	0.0700	0.1000	X	1	=	0.1000
	EGCAVRF	Ceiling Horn-Strobe 115CD	0.0000	X	6	=	0.0000	0.0075	X	6	=	0.0450
	EGCAVRF	Horn-Strobe 15CD	0.0000	X	0	=	0.0000	0.0035	X	0	=	0.0000
	EGCAVRF	Horn-Strobe 30CD	0.0000	X	0	=	0.0000	0.0035	X	0	=	0.0000
	EGCAVRF	Horn-Strobe 75CD	0.0000	X	0	=	0.0000	0.0035	X	0	=	0.0000
	EGCVRF	Strobe 15CD	0.0000	X	0	=	0.0000	0.0024	X	0	=	0.0000
	EGCVRF	Strobe 30CD	0.0000	X	0	=	0.0000	0.0024	X	0	=	0.0000
	EGCVRF	Strobe 115CD	0.0000	X	4	=	0.0000	0.0075	X	4	=	0.0300
			0.0000	X	0	=	0.0000	0.1750	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.1750	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.1100	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
			0.0000	X	0	=	0.0000	0.0000	X	0	=	0.0000
		"TOTAL SYSTEM STANDBY CURRENT (AMPS)"					0.0700	"TOTAL SYSTEM ALARM CURRENT (AMPS)"				0.1750

Prepared for:	REQUIRED STANDBY TIME (HRS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
	24.0000	X	0.0700	=	1.6800	0.0830	X	0.1750	=	0.0145

Prepared by:	REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		TOTAL CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)		SAFETY FACTOR		ADJUSTED BATTERY CAPACITY (AMP-HOURS)
	1.68	+	0.0145	=	1.6945	1.6945	X	120%	=	2.0334

FIRE ALARM LEGEND:

Qty		Model	Description
1	FACP	KIDDE VS4	FIRE ALARM CONTROL PANEL (EXISTING)
1	FAAN	KIDDE K-RLCD-2	FIRE ALARM ANNUNCIATOR
2	APS	KIDDE EBPS10A	AUXILIARY POWER SUPPLY
22	S	KIDDE KI-OSD	PHOTO ELECTRIC SMOKE
7	D	KIDDE GSA-SD	PHOTO ELECTRIC DUCT SMOKE
8	P	KIDDE GSA-M270P	PULLSTATION
4	IM	KIDDE GSA-CT1	INITIATION INPUT MODULE
4	CR	KIDDE GSA-CR	CONTROL RELAY MODULE
2	OM	KIDDE GSA-CC1S	CONTROL OUTPUT MODULE
3	H	KIDDE KI-HRD	HEAT DETECTOR
2	FS		FLOW SWITCH (BY OTHERS)
2	TS		TAMPER SWITCH (BY OTHERS)
7	RTS	KIDDE SD-TRK	Remote Test Switch for Duct Detectors
16	AV	KIDDE EGCAVRF	CEILING MOUNT AUDIO VISUAL APPLIANCE
16	V	KIDDE EGCVRF	CEILING MOUNT VISUAL APPLIANCE

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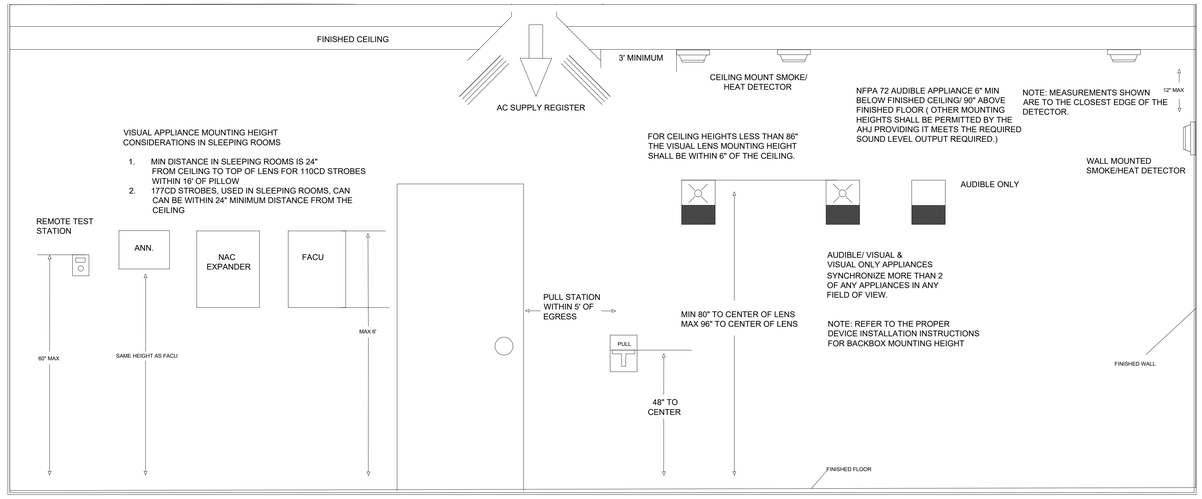
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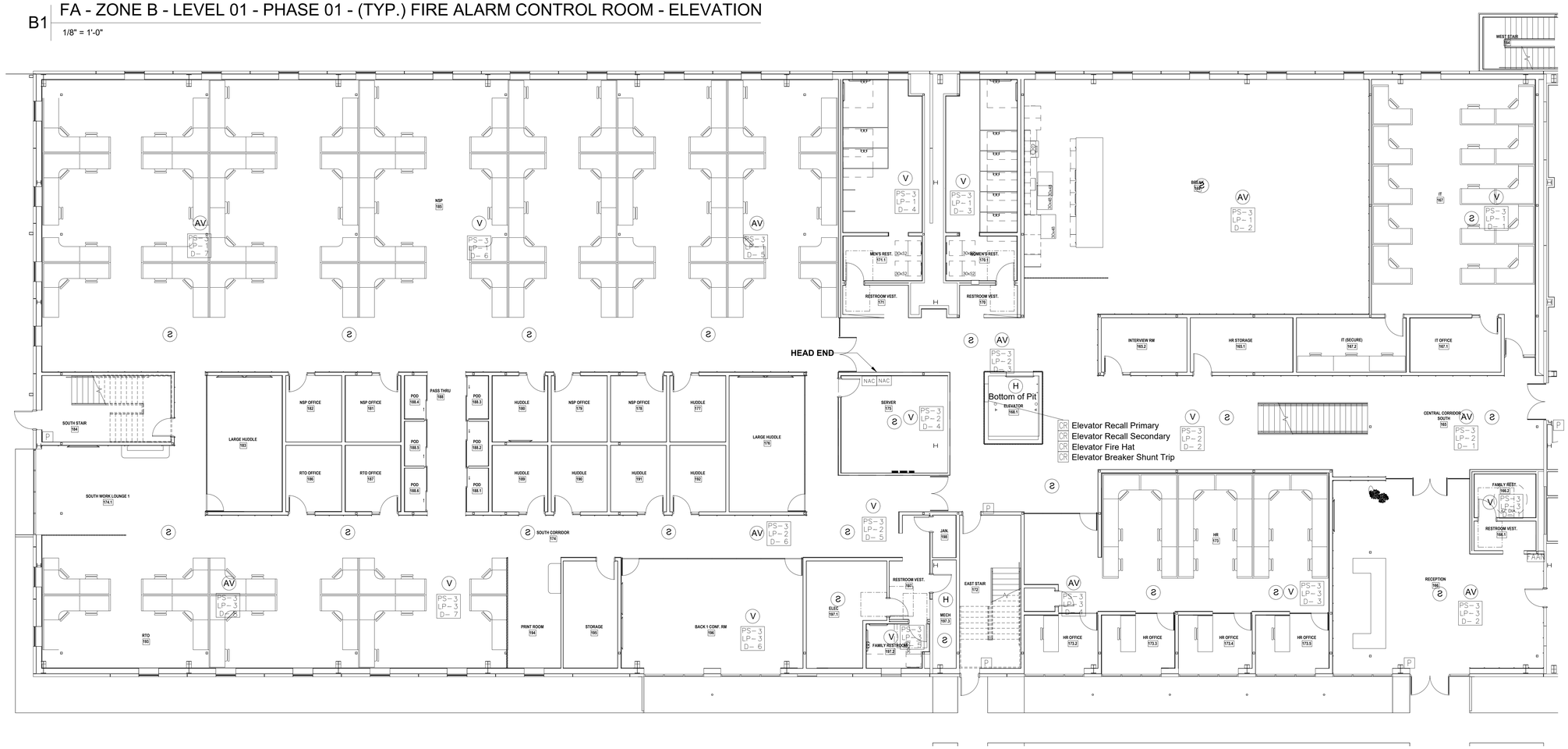
contents: FA - ZONE B - PHASE 01 - CALCULATIONS
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FA.002



B1 FA - ZONE B - LEVEL 01 - PHASE 01 - (TYP.) FIRE ALARM CONTROL ROOM - ELEVATION

1/8" = 1'-0"



E1 FA - ZONE B - LEVEL 01 - PHASE 01 - FLOOR PLAN AREA OF WORK

1/8" = 1'-0"

FIRE ALARM LEGEND:

Qty		Model	Description
1	FACP	KIDDE VS4	FIRE ALARM CONTROL PANEL (EXISTING)
1	FAAN	KIDDE K-RLCD-2	FIRE ALARM ANNUNCIATOR
2	APS	KIDDE EBPS10A	AUXILIARY POWER SUPPLY
22	S	KIDDE KI-OSD	PHOTO ELECTRIC SMOKE
7	D	KIDDE GSA-SD	PHOTO ELECTRIC DUCT SMOKE
8	P	KIDDE GSA-M270P	PULLSTATION
4	IM	KIDDE GSA-CT1	INITIATION INPUT MODULE
4	CR	KIDDE GSA-CR	CONTROL RELAY MODULE
2	OM	KIDDE GSA-CC1S	CONTROL OUTPUT MODULE
3	H	KIDDE KI-HRD	HEAT DETECTOR
2	FS		FLOW SWITCH (BY OTHERS)
2	TS		TAMPER SWITCH (BY OTHERS)
7	RTS	KIDDE SD-TRK	Remote Test Switch for Duct Detectors
16	AV	KIDDE EGCAVRF	CEILING MOUNT AUDIO VISUAL APPLIANCE
16	V	KIDDE EGCVRF	CEILING MOUNT VISUAL APPLIANCE

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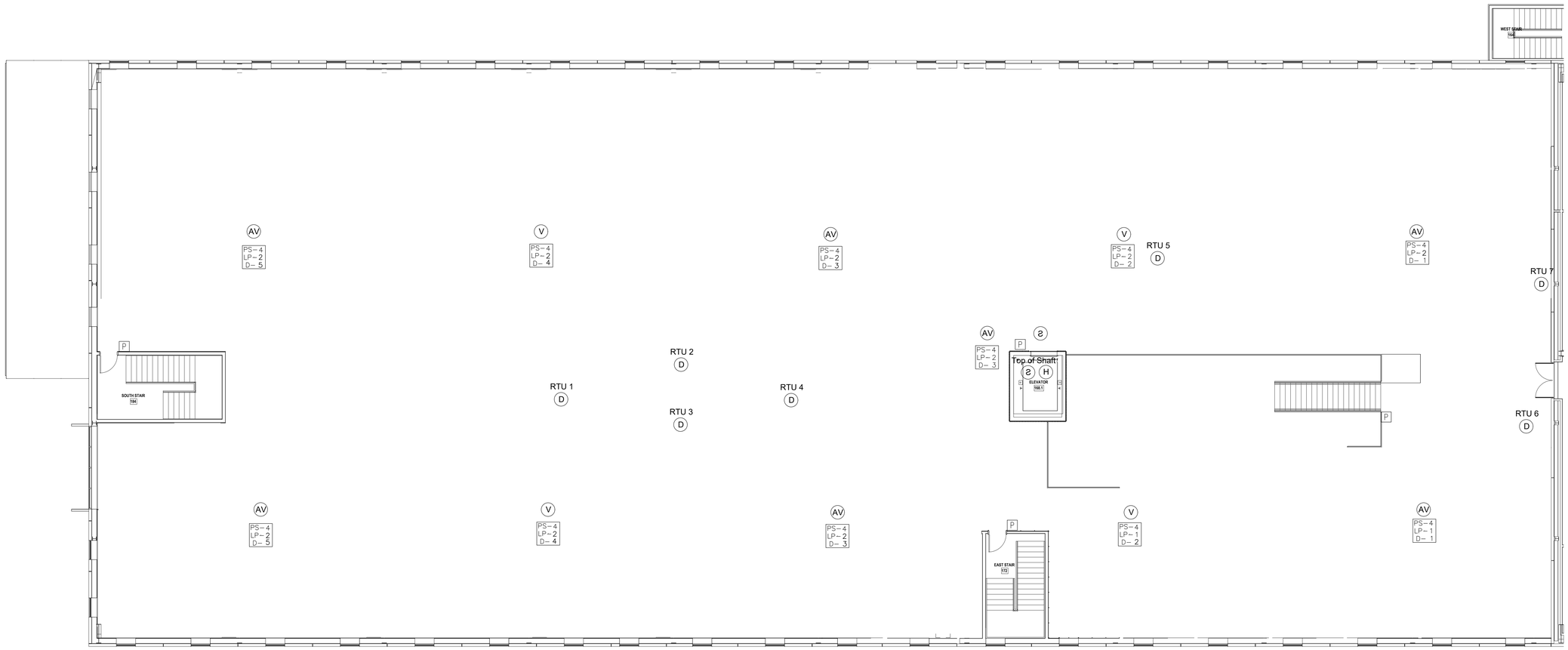
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FA FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1

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FA.003

FIRE ALARM LEGEND:

Qty		Model	Description
1	FACP	KIDDE VS4	FIRE ALARM CONTROL PANEL (EXISTING)
1	FAAN	KIDDE K-RLCD-2	FIRE ALARM ANNUNCIATOR
2	APS	KIDDE EBPS10A	AUXILIARY POWER SUPPLY
22	S	KIDDE KI-OSD	PHOTO ELECTRIC SMOKE
7	D	KIDDE GSA-SD	PHOTO ELECTRIC DUCT SMOKE
8	P	KIDDE GSA-M270P	PULLSTATION
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16	AV	KIDDE EGCAVRF	CEILING MOUNT AUDIO VISUAL APPLIANCE
16	V	KIDDE EGCVRF	CEILING MOUNT VISUAL APPLIANCE



E1 FA - ZONE B - LEVEL 01 - PHASE 01 - FLOOR PLAN AREA OF WORK

1/8" = 1'-0"

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FA.004

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SECURITY

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contents.
SECURITY COVER SHEET

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TS.000

WACHTER LOWELL REMODEL
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LOWELL, AR 72745

DRAWING NO	DESCRIPTION	1	2	3	4	5	6	7	8	A	B	C	D
TS.000	SECURITY COVER PAGE		X	X	X	X	X	X	X				
TS.001	SECURITY SHEET LIST & RESPONSIBILITY MATRIX		X	X	X	X	X	X	X				
TS.002	SECURITY NOTES		X	X	X	X	X	X	X				
TS.003	SECURITY FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TS.004	SECURITY CEILING PLAN AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TS.005	SECURITY FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TS.006	SECURITY CEILING PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TS.010	SECURITY SURVEILLANCE DETAILS			X	X	X	X	X	X				
TS.011	SECURITY SURVEILLANCE DETAILS			X	X	X	X	X	X				
TS.012	SECURITY ACCESS CONTROL DETAILS			X	X	X	X	X	X				
TS.100	SECURITY FLOOR PLAN SURVEILLANCE - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TS.101	SECURITY CEILING PLAN SURVEILLANCE - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TS.102	SECURITY FLOOR PLAN SURVEILLANCE - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TS.103	SECURITY CEILING PLAN SURVEILLANCE - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TS.104	SECURITY FLOOR PLAN ACCESS CONTROL - ZONE B - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TS.105	SECURITY FLOOR PLAN ACCESS CONTROL - ZONE B - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TS.200	SECURITY ACCESS CONTROL HEAD END		X	X	X	X	X	X	X				
TS.300	SECURITY ACCESS CONTROL & SURVEILLANCE RISER DIAGRAM - PHASE 1		X	X	X	X	X	X	X				
TS.400	SECURITY SURVEILLANCE SCHEDULES - PHASE 1		X	X	X	X	X	X	X				
TS.402	SECURITY ACCESS CONTROL SCHEDULES - PHASE 1		X	X	X	X	X	X	X				
TS.500	SECURITY ACCESS CONTROL DOOR CONFIGURATIONS		X	X	X	X	X	X	X				
TTS.005	SECURITY FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTS.006	SECURITY CEILING PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTS.102	SECURITY FLOOR PLAN SURVEILLANCE - ZONE B - LEVEL 02 - PHASE 2							X					
TTS.103	SECURITY CEILING PLAN SURVEILLANCE - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTS.105	SECURITY FLOOR PLAN ACCESS CONTROL - ZONE B - LEVEL 02 - PHASE 2							X	X				
TTS.300	SECURITY ACCESS CONTROL & SURVEILLANCE RISER DIAGRAM - PHASE 2							X	X				
TTS.400	SECURITY SURVEILLANCE SCHEDULES - PHASE 2							X	X				
TTS.402	SECURITY ACCESS CONTROL SCHEDULES - PHASE 2							X	X				

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING	JB	JUNCTION BOX	STP	SHIELDED TWIST PAIR
AFF	ABOVE FINISHED FLOOR	KP	KEYPAD	SUB	SUBWOOFER
ALS	ASSISTIVE FINISHED FLOOR	LVC	LOW VOLTAGE CONTRACTOR	TB	TABLEBOX
AVC	AUDIOVISUAL CONTRACTOR	MDF	MAIN DISTRIBUTION FACILITY	TBD	TO BE DETERMINED
AVR	AUDIOVISUAL EQUIPMENT RACK	NA	NOT APPLICABLE	TP	TOUCH PANEL
BFC	BELOW FINISHED CEILING	NIC	NOT IN CONTRACT	TV	TELEVISION
BOM	BILL OF MATERIALS	NTS	NOT TO SCALE	TYP	TYPICAL
CAM	CAMERA	OCC	OCCUPANCY SENSOR	TX	TRANSMIT
CI	CONTROL INTERFACE	OFE	OWNER FURNISHED EQUIPMENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
CU	CONTROL UNIT	OFOI	OWNER FURNISHED/ OWNER INSTALLED	UON	UNLESS OTHERWISE NOTED
DCS	DOOR CONTRACTOR / SUPPLIER	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	UTP	UNSHIELDED TWISTED PAIR
DS	DOCKING STATION	CFOI	CONTRACTOR FURNISHED/ OWNER INSTALLED	VIF	VERIFY IN FIELD
EC	ELECTRICAL CONTRACTOR	CFCI	CONTRACTOR FURNISHED/ CLIENT INSTALLED	VOL	VOLUME CONTROL
EMT	ELECTRICAL METALLIC TUBING	CFEI	CONTRACTOR FURNISHED/ ELECTRICIAN INSTALLED	WAP	WIRELESS ACCESS POINT
FB	FLOORBOX	EFEI	ELECTRICIAN FURNISHED/ ELECTRICIAN INSTALLED	WP	WALL PLATE
GC	GENERAL CONTRACTOR	INT	INTERCOM	WRX	WIRELESS TRANSMITTER
GND	GROUND	PB	PULL BOX		
IDF	INTERMEDIATE DISTRIBUTION FACILITY	RX	RECEIVER		
IP	INTERNET PROTOCOL	SPK	SPEAKER		

SECURITY DEVICE SYMBOL LEGEND

DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED	DOOR MOUNTED	PROVIDED BY	INSTALLED BY	TERMINATED BY	BACK-BOX DESCRIPTION	MOUNTING	HEIGHT	PROVIDED BY	INSTALLED BY
CARD READER		CR X|X			WTS	NSP	NSP					
MAGNETIC LOCK		ML X|X										
EXIT DEVICE PANIC BAR		CB X|X			DCS	DCS	NSP					
POWER TRANSFORMER		PS X|X			WTS	GC	EC					
PUSH TO EXIT		PX X|X			WTS	NSP	NSP					
DOOR CONTACT		DC X|X			WTS	NSP	NSP					
ELECTRIC STRIKE		ES X|X			DCS	DCS	NSP					
LATCHBOLT		LB X|X										
REQUEST TO EXIT - MOTION SENSOR	MX X|X	MX X|X			WTS	NSP	NSP					
REQUEST TO EXIT - PUSH BUTTON		PB X|X										
EXIT DEVICE VERTICAL ROD		EVR X|X			DCS	DCS	NSP					
INTERCOM		IC X|X			WTS	NSP	NSP					
SURVEILLANCE CAMERA	▭	▭			WTS	NSP	NSP					
NAMN SPEAKER												
CRASHBAR		CB X|X			DCS	DCS	NSP					
POWER TRANSFER HINGE		TH X|X			DCS	DCS	NSP					
ACCESS CONTROL PANEL		ACP X|X			WTS	NSP	NSP					
HANDICAP BUTTON		HB X|X			WTS	NSP	NSP					
MOTORIZED DOOR OPENER		MO X|X			DCS	DCS	NSP					
PROGRAMMABLE LOGIC MODULE		PLM			WTS	NSP	NSP					
POWER SUPPLY		PS			WTS	NSP	NSP					
360 SURVEILLANCE CAMERA	360	360			WTS	NSP	NSP					
FIXED SURVEILLANCE CAMERA	▭	▭			WTS	NSP	NSP					
PTZ CAMERA	PTZ	PTZ			WTS	NSP	NSP					

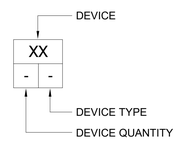
ELECTRICAL DEVICE SYMBOL LEGEND

DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED	PROVIDED BY	INSTALLED BY	TERMINATED BY
DUPLEX OUTLET 120V 20A	⊖	⊖	⊖	E.C.	E.C.	E.C.
DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT	◒	◒	◒	E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A	⊕	⊕	⊕	E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A, DEDICATED CIRCUIT	✠	✠	✠	E.C.	E.C.	E.C.
RF GATEWAY	RF XX "X"	XX "X" RF	RF XX "X"	E.C.	E.C.	E.C.
TWIST LOCK CONNECTION XX INDICATES DEVICE TYPE/ 'X' INDICATES VOLTAGE/AMPERAGE	◁	◁	◁	E.C.	E.C.	E.C.

SECURITY DIVISION OF RESPONSIBILITIES

RESPONSIBILITY	PROVIDED BY	INSTALLED BY	TERMINATED BY
NETBOX NETWORK NODE WALL BOX ENCLOSURE	WTS	NSP	NSP
MICRONODE PLUS FIELD PANEL			
BATTERY & POWER SUPPLY WALL MOUNT ENCLOSURE	WTS	NSP	NSP
HEAVY DUTY STEEL PEDESTAL			
PEDESTAL STEEL HOUSING ENCLOSURE			
CONDUIT FOR LOW VOLTAGE DEVICES	EC	EC	
CONTROL PANEL MOUNTING AREA PREP- $\frac{3}{4}$" PLYWOOD	GC	GC	
VIDEO RECORDING SERVER	WTS	NSP	NSP
IR ILLUMINATOR			
VIDEO INTERCOM	WTS	NSP	NSP
CABLING THROUGH CONDUIT	WTS	NSP	NSP
DATA CABLING, TERMINATION AND CERTIFICATION			
FIBER CABLING, TERMINATION AND CERTIFICATION			
DATA CABLING CERTIFICATION			

SECURITY DEVICE SYMBOL

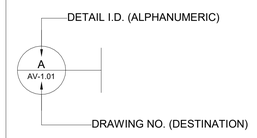


ABBREVIATIONS

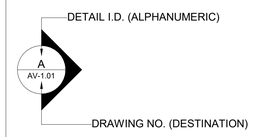
W	WALL MOUNT	8	EIGHT WIRE
M	MULLION MOUNT	L	FAIL SECURE (LOCKED WHEN UNPOWERED)
S	SURFACE MOUNT	U	FAIL SAFE (UNLOCKED WHEN UNPOWERED)
F	FLUSH MOUNT	S	SINGLE DOOR (MAGNETIC LOCK ONLY)
C	CEILING MOUNT	D	DOUBLE DOOR (MAGNETIC LOCK ONLY)
R	RACK MOUNT	N	NON-DELAYED EGRESS
4	FOUR WIRE	D	DELAYED EGRESS (CRASH BAR ONLY)

SYMBOLS & KEYS

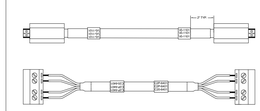
CALLOUT INDICATOR



SECTION INDICATOR



CABLE LABEL PLACEMENT



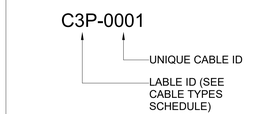
NOTES:

- EACH CABLE MUST BE LABELED AT EACH END WITH IT'S INDICATED UNIQUE CABLE ID.
- CABLE LABEL MUST BE PLACED TO ALLOW FOR EASY OF READABILITY WITHIN PARAMETERS INDICATED.

CONDUIT LEGEND

	EMT CONDUIT
	FREE AIR CABLE

CABLE NUMBERING SCHEMA



THIS MATRIX IS NOT INTENDED TO BE EXHAUSTIVE, WHERE SCOPE DISCREPANCIES OR DEFICIENCIES EXIST, PROVIDE WRITTEN NOTIFICATION TO THE DESIGN TEAM FOR CLARIFICATION.

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SECURITY SHEET LIST & RESPONSIBILITY MATRIX

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TS.001

GENERAL WIRING NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, LOCAL AND OTHER APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, NEC, BICSI, ANSI, TIA/EIA STANDARDS, CONSTRUCTION STANDARDS AND INDUSTRY BEST PRACTICES.
2. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND CONSTRUCTION DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT OR OWNER FOR RESOLUTION.
3. ALL WIRES AT HEADEND LOCATIONS SHALL NOT BE LESS THAN 16' IN LENGTH ONCE THEY TOUCH THE FLOOR.
4. ALL WIRES AT DEVICE LOCATIONS SHALL BE NO LESS THAN 24" IN LENGTH COILED IN BACK BOX.
5. ALL WIRES AT DISTRIBUTION LOCATIONS SHALL RUN NO LESS THAN FLOOR TO CEILING.
6. ALL WIRES AT DISPLAY LOCATIONS SHALL BE NO LESS THAN 4' IN LENGTH COILED IN BOX.
7. WIRES SHALL CROSS ELECTRICAL LINES AT 90°.
8. WIRES THAT NEED TO RUN PARALLEL WITH ELECTRICAL SHALL BE NO LESS THAN 3' AWAY FOR CIRCUIT RUNS UP TO 80' IN LENGTH AND 6' AWAY FOR RUNS OVER 80' IN LENGTH.
9. NO PARALLEL RUNS NEXT TO ELECTRICAL CIRCUITS IN EXCESS OF 600V.
10. ALL CATEGORY CABLE SHALL FOLLOW THE MINIMUM BEND RADIUS AS SPECIFIED BY THE MANUFACTURER, IN LIEU OF THAT FOLLOW A BICSI MINIMUM STANDARD OF 4X THE OUTSIDE DIAMETER OF THE CABLE.
11. THE MAXIMUM LENGTH FOR A PERMANENT LINK CATEGORY CABLE IS 90 METERS (295 FEET.)\, ANY RUN THAT EXCEEDS THAT LENGTH SHALL BE BROUGHT TO THE ATTENTION OF THE LOW VOLTAGE CONTRACTOR.
12. ALL WIRE LABELS SHALL BE PERMANENT AND APPLIED NO LESS THAN 16" FROM WALL PENETRATION.
13. WIRE GROMMETS MUST BE USED WHEN PASSING WIRES THROUGH METAL STUDS AND ANY ENCLOSURES.
14. ALL MODIFICATIONS TO OWNER FURNISHED MILLWORK BY OTHERS.
15. ALL CABINETS AND ENCLOSURES THAT SHALL HOUSE ELECTRONIC HARDWARE AND EQUIPMENT RACKS SHALL BE PROPERLY VENTILATED, EITHER PASSIVELY OR ACTIVELY, SUCH THAT THE INTERIOR TEMPERATURE WILL NOT EXCEED 80° F.
16. ALL CEILING GRID MOUNTED DEVICES SHALL BE SAFETY WIRED TO DECK ABOVE. REFER TO LOCAL CODES.
17. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST MAINTAIN FIRE RATING.
18. ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL MAINTAIN WEATHERPROOF RATING.
19. ALL FREE PULLED WIRE SHALL USE APPROPRIATE J-HOOKS AND SAFETY CABLING TO MAINTAIN PROPER LOADING AND BEND REQUIREMENTS.

CONDUIT AND LADDER TRAY NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT, PULL-BOXES, RACEWAYS, LADDER TRAY AND OTHER INFRASTRUCTURE SUPPORT TO PROVIDE CABLE PATHWAYS FOR LOW VOLTAGE CABLING SHALL BE PROVIDED BY OTHERS. THIS SHALL COMPLY WITH NEC, TIA STANDARDS AND BICSI GUIDELINES.
2. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL STRING.
3. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT ENDS TO AVOID CHAFFING OF CABLING.
4. ALL CONDUIT TO BE RIGID EMT UNLESS OTHERWISE NOTED. IF FLEX CONDUIT OR GREEN FIELD IS SUBSTITUTED, ADD .5" TO THE SPECIFIED DIAMETER.
5. ALL CONDUIT FILL CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR 25% GROWTH.
6. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED.
7. THE BEND RADIUS OF CONDUIT SHALL BE NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER OF THAT CONDUIT.
8. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100' OF STRAIGHT CONDUIT AND EXTRA PULL BOXES FOR EVERY TWO 90° BENDS IN A CONDUIT RUN.
9. WHEN PENETRATING THE SLAB, SLEEVES SHALL BE CUT AT A MAXIMUM OF 3" ABOVE THE FINISHED SLAB.
10. PULL BOXES SHOULD BE INSTALLED ABOVE ACCESSIBLE CEILINGS WITH ACCESS PANELS. ACCESS PANELS SHALL BE A MINIMUM 24" X 24" WITH SPACING NO MORE THAN 10' APART. WHERE THIS IS NOT FEASIBLE, ACCESS PANELS WILL NEED TO BE PROVIDED THAT MEET THE ARCHITECTURAL FINISH REQUIREMENTS OF THE SPACES THEY WILL BE LOCATED IN.
11. LADDER TRAY SHALL HAVE A MINIMUM CLEARANCE OF 6" ABOVE AND BELOW AND 1' TO ONE SIDE FOR ACCESSIBILITY.
12. PROVIDE VERTICAL LADDER RACK WHEN SLEEVES/CONDUITS ENTERING THE HEADEND SPACES ARE INSTALLED MORE THAN 10'-0" AFF.
13. INSTALL THE LADDER RACK FROM SLEEVE BOTTOM TO THE TOP OF THE HORIZONTAL LADDER RACK FOR CABLE LACING IN THE VERTICAL RUN.
14. THERE SHALL BE NO OTHER EQUIPMENT, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE LADDER RACK/TRAY EXCEPT THOSE NEEDED TO SUPPORT THE SYSTEM.

ELECTRICAL NOTES

1. ALL 120-VOLT WIRE, CONDUIT, BACK-BOXES, FLOOR BOXES, OTHER RELATED DEVICES AND CONNECTIONS BY EC.
2. ONE DUPLEX OUTLET AT EACH DISTRIBUTION LOCATION FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
3. GROUND ALL EQUIPMENT RACKS & LADDER TRAYS W/ #6 AWG (MIN.) TO GROUNDING BLOCK PROVIDED BY ELECTRICIAN.
4. PROVIDE DUAL RECESSED OUTLET AT ALL TV LOCATIONS UNLESS OTHERWISE NOTED.
5. PROVIDE TWO (2) 20A OUTLET(S) AT EACH EQUIPMENT RACK LOCATION AS A MINIMUM, REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
6. AV SYSTEM POWER CIRCUITS SHALL BE ISOLATED FROM LIGHTING DIMMERS, MOTORIZED EQUIPMENT OR OTHER INDUCTIVE ELECTRICAL LOADS.

AUDIOVISUAL NOTES FOR CONFERENCE ROOMS

1. AIR DIFFUSERS SHALL BE ORIENTED IN SUCH A WAY THAT ANY AIRFLOW WILL BE DIRECTED AWAY FROM ANY MICROPHONE.
2. ANY SPILL LIGHTING ON A DISPLAY SHOULD BE LESS THAN 20 FOOT CANDLES.
3. TO PREVENT ANY SOUND LEAKAGE BETWEEN ROOMS, ALL WALLS SHOULD EXTEND UP TO THE DECKING ABOVE.
4. WALLS SHOULD HAVE AN STC RATING OF 45 OR GREATER.
5. MAXIMUM REVERBERATION TIME WITHIN THE ROOM SHOULD NOT EXCEED 0.5 SECONDS.

SURVIELLANCE NOTES

DORI PIXEL DENSITY DISTANCES ARE BASED ON IEC EN 62676-4 INTERNATIONAL STANDARD.

DORI IS AN ACRONYM FOR: DETECT, OBSERVE, RECOGNIZE, IDENTIFY.

PIXEL DENSITY:
THE NUMBER OF HORIZONTAL PIXELS PER FOOT REQUIRED TO MEET THE OPERATIONAL DEFINITIONS OF DORI.

DETECTION:
THE ABILITY TO DETERMINE WHETHER A PERSON IS PRESENT. REQUIRES A MINIMUM OF 8 PIXELS PER FOOT (25 PIXELS PER METER).

OBSERVATION:
THE ABILITY TO DETERMINE THE NUMBER OF PEOPLE PRESENT AND OBSERVE CHARACTERISTIC DETAILS OF INDIVIDUALS, SUCH AS DISTINCTIVE CLOTHING. REQUIRES A MINIMUM OF 20 PIXELS PER FOOT (63 PIXELS PER METER).

RECOGNITION:
THE ABILITY TO DETERMINE WHETHER AN INDIVIDUAL IS THE SAME PERSON PREVIOUSLY OBSERVED. REQUIRES A MINIMUM OF 40 PIXELS PER FOOT (125 PIXELS PER METER).

IDENTIFICATION:
THE ABILITY TO IDENTIFY AN INDIVIDUAL WITH A HIGH DEGREE OF CERTAINTY. REQUIRES A MINIMUM OF 80 PIXELS PER FOOT (250 PIXELS PER METER).

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SECURITY NOTES

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E1 | SECURITY - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN - AREA OF WORK
1/8" = 1'-0"

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SECURITY FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 01 - PHASE 1

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TS.003



E1 | SECURITY - ZONE B - LEVEL 01 - PHASE 1 - RCP - AREA OF WORK
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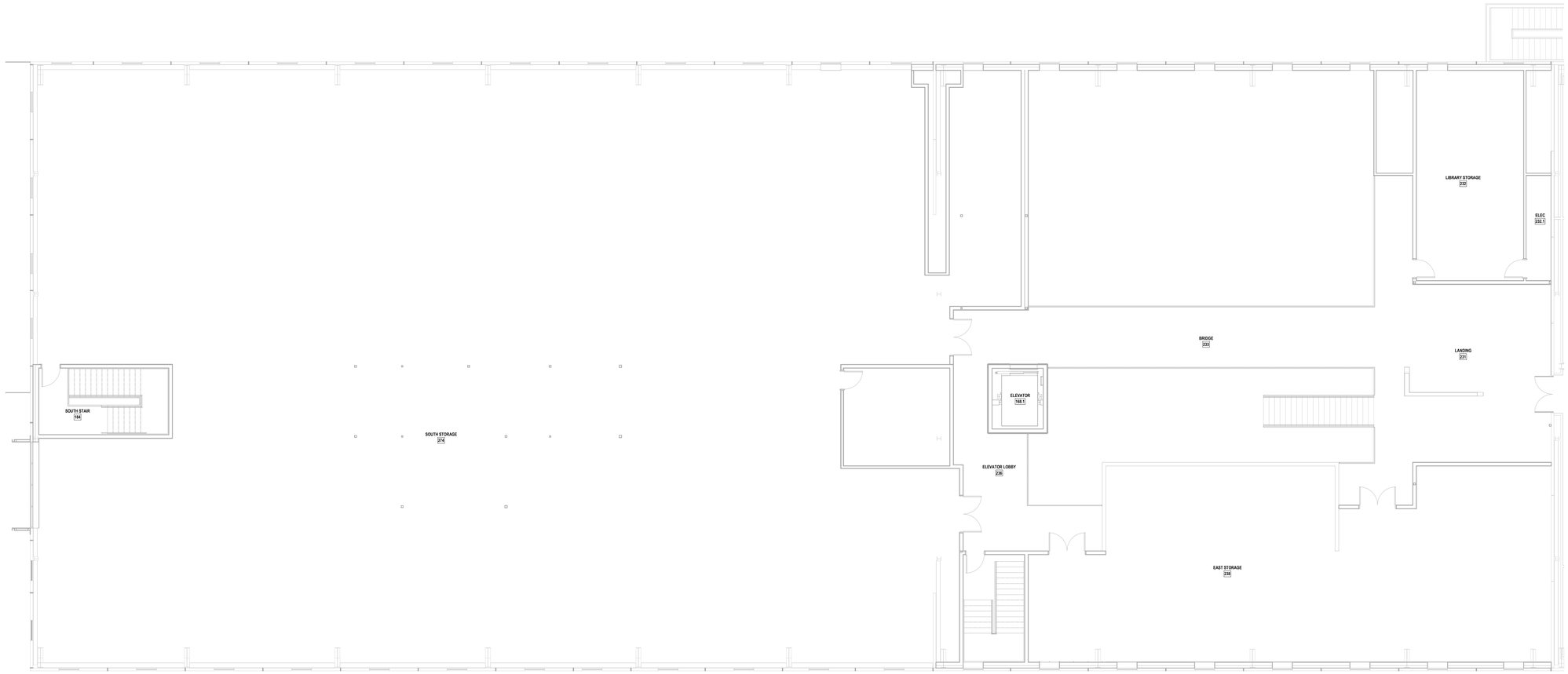
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TS.004



E1 SECURITY - ZONE B - LEVEL 02 - PHASE 1 - FLOOR PLAN - AREA OF WORK
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E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 1 - RCP - AREA OF WORK
1/8" = 1'-0"

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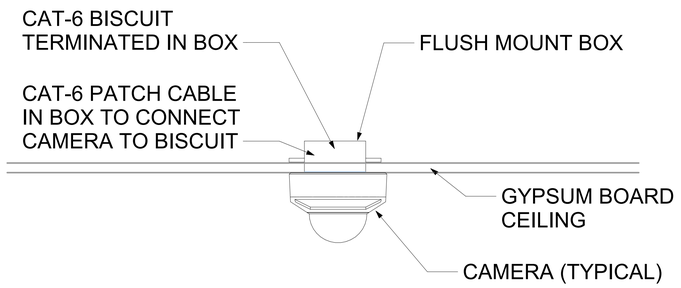
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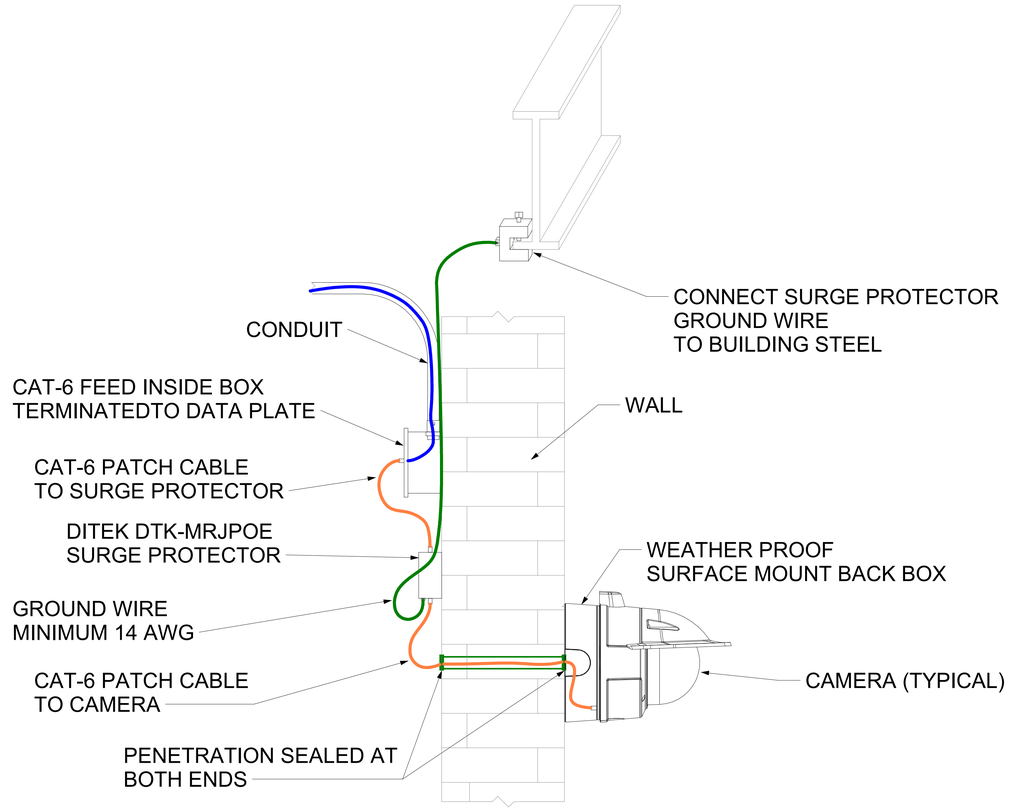
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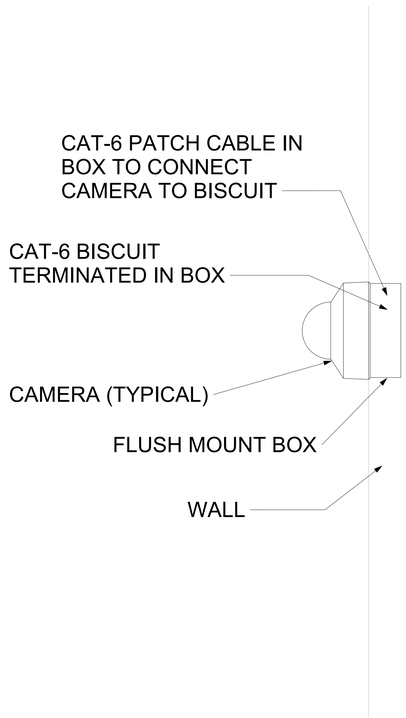
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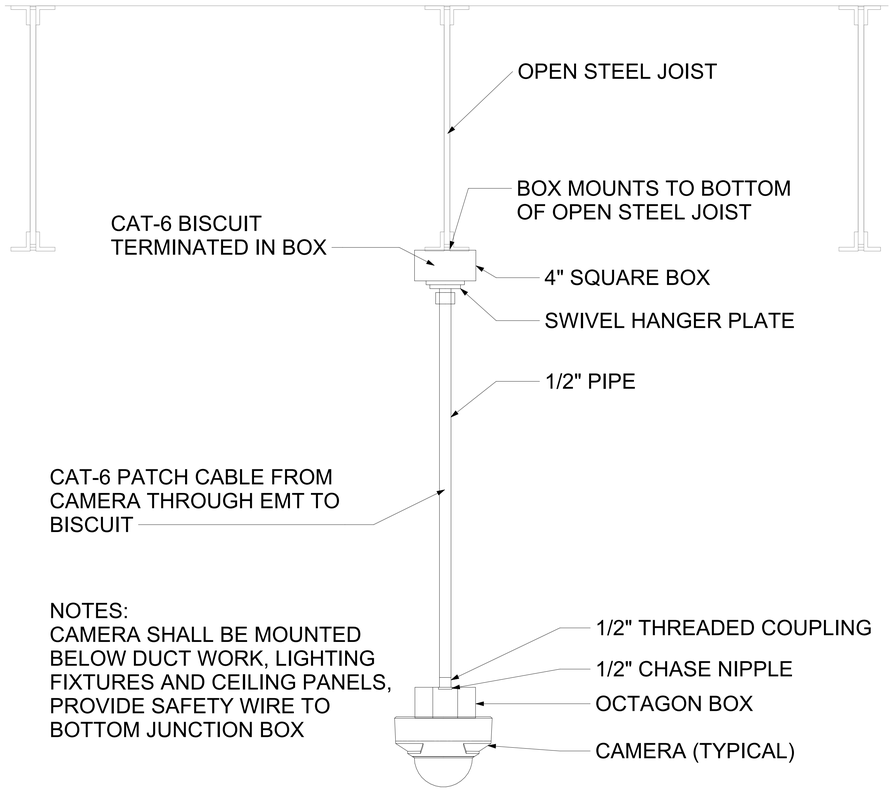
C1 TYPICAL CEILING MOUNT CAMERA
3" = 1'-0"



C4 TYPICAL EXTERIOR WALL MOUNT CAMERA
3" = 1'-0"



E1 TYPICAL INTERIOR WALL MOUNT CAMERA
3" = 1'-0"



E4 TYPICAL PENDANT MOUNT CAMERA
3" = 1'-0"

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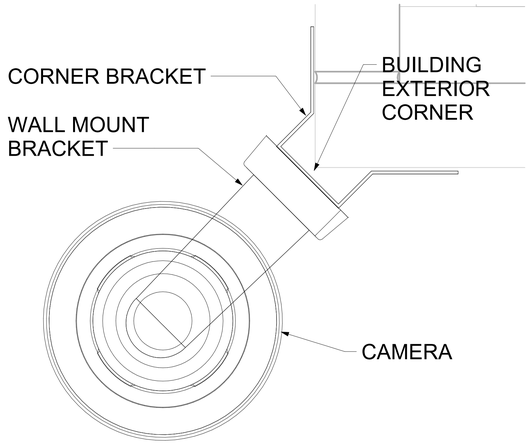
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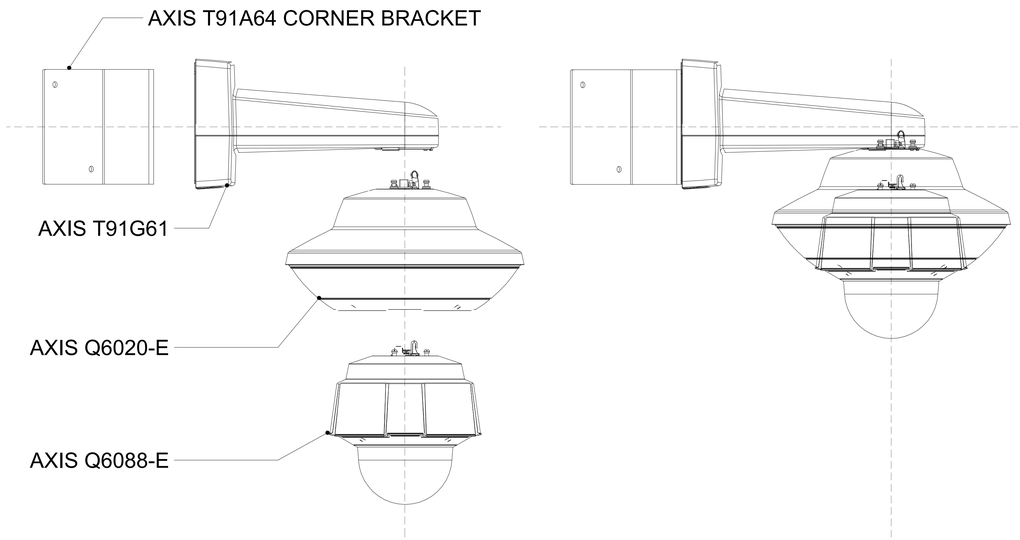
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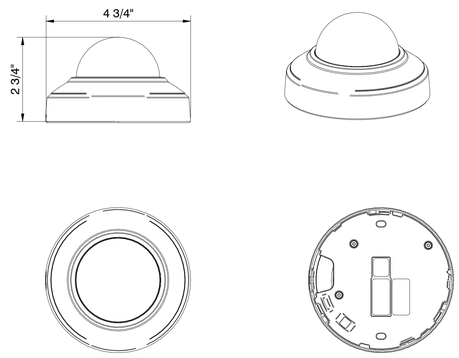
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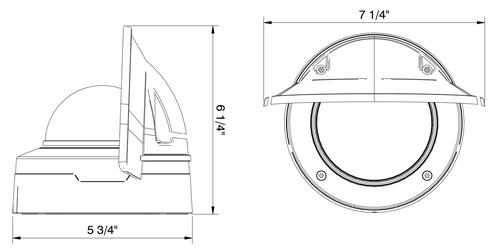




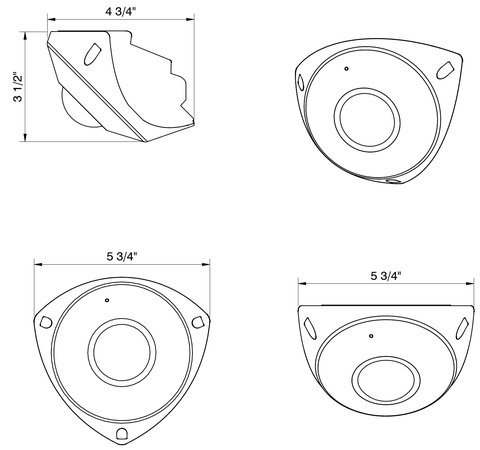
B1 | CAM EXT CORNER



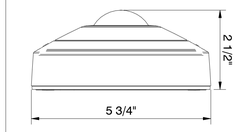
D1 | CAMERA - AXIS M4216-LV
6" = 1'-0"



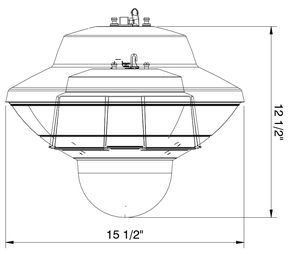
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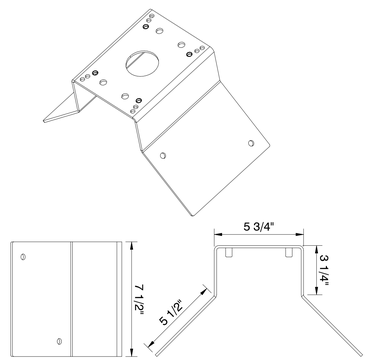
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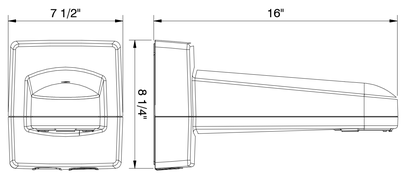
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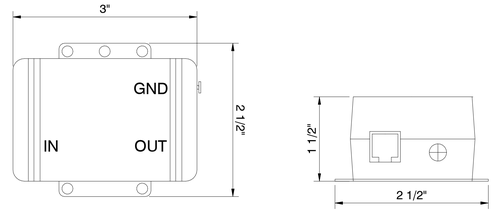
E1 | CAMERA - AXIS Q6020-E Q6088-E
3" = 1'-0"



E2 | CAMERA MOUNT - AXIS T91A64
3" = 1'-0"



E4 | CAMERA MOUNT - AXIS T91G61
3" = 1'-0"



E5 | SURGE PROTECTOR - DITEK DTK-MRJPOE
12" = 1'-0"

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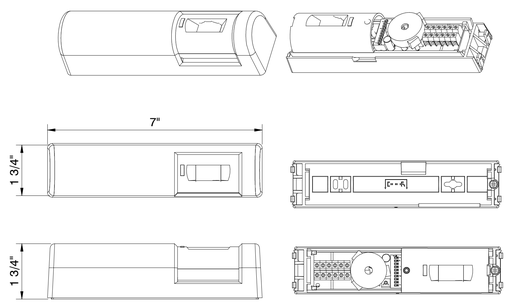
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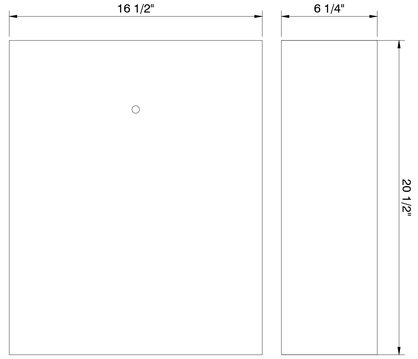
contents:
SECURITY SURVEILLANCE DETAILS

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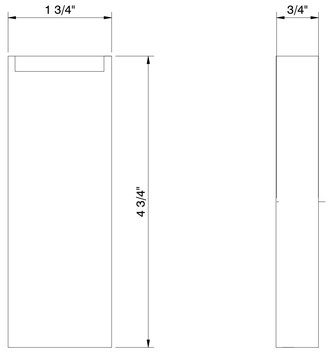
TS.011



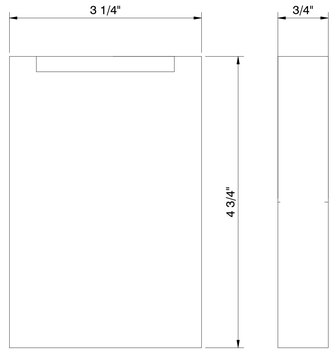
B1 | ACCESS CONTROL - BOSCH DS-161
6" = 1'-0"



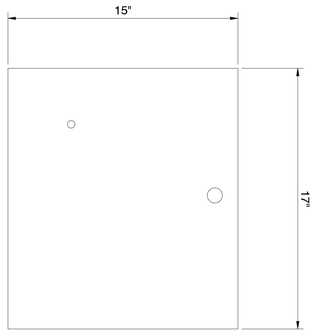
B2 | ACCESS CONTROL - ALTRONIX POWER SUPPLY
3" = 1'-0"



B4 | ACCESS CONTROL - HID SIGNO 20
12" = 1'-0"



B5 | ACCESS CONTROL - HID SIGNO 40
12" = 1'-0"

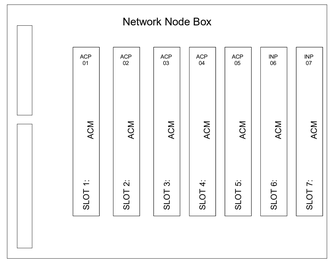


FRONT VIEW

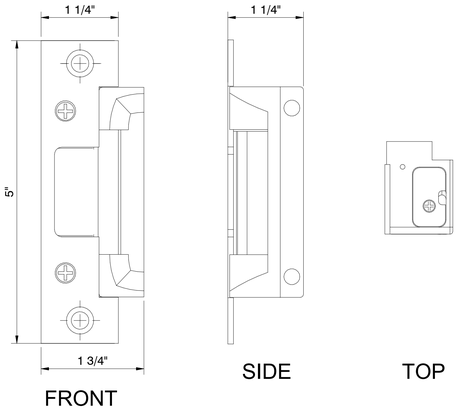


SIDE VIEW

D1 | ACCESS CONTROL - NETWORK NODE ENCLOSURE
3" = 1'-0"



D2 | ACCESS CONTROL - NETWORK NODE PANELS
3" = 1'-0"

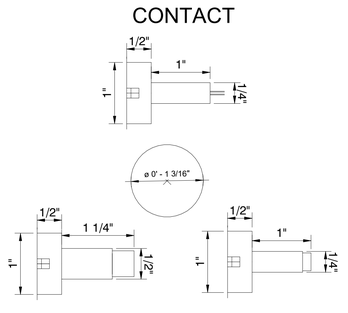


FRONT

SIDE

TOP

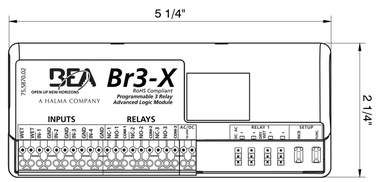
D4 | ACCESS CONTROL - HES 5200
12" = 1'-0"

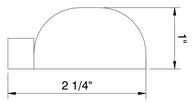


WIDE GAP MAGNET

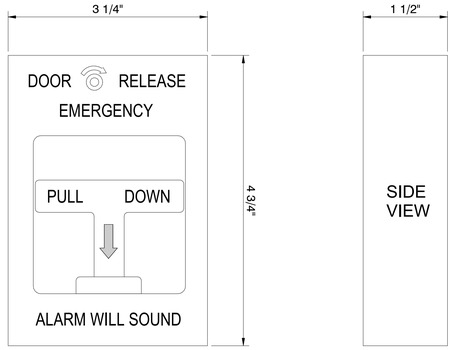
NORMAL MAGNET

D5 | ACCESS CONTROL - GRI 1 INCH CONTACT
12" = 1'-0"

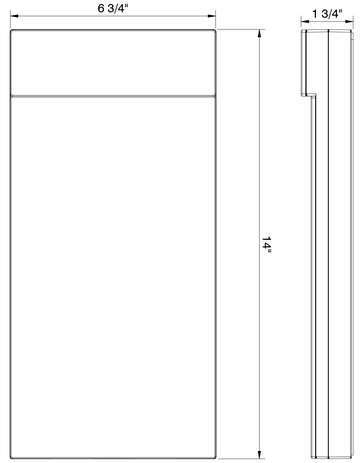




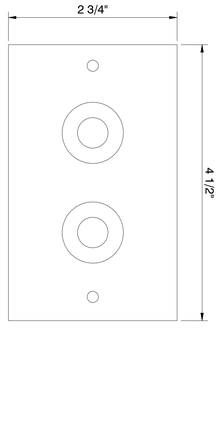
E1 | ACCESS CONTROL - BEA Br3-X
12" = 1'-0"



E2 | ACCESS CONTROL - SDC-492
12" = 1'-0"



E4 | INTERCOM - 2N IP STYLE
6" = 1'-0"



E5 | ACCESS CONTROL - ALARM CONTROLS RP-27
12" = 1'-0"

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TS.012



E1 | SECURITY - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN - SURVEILLANCE
1/8" = 1'-0"

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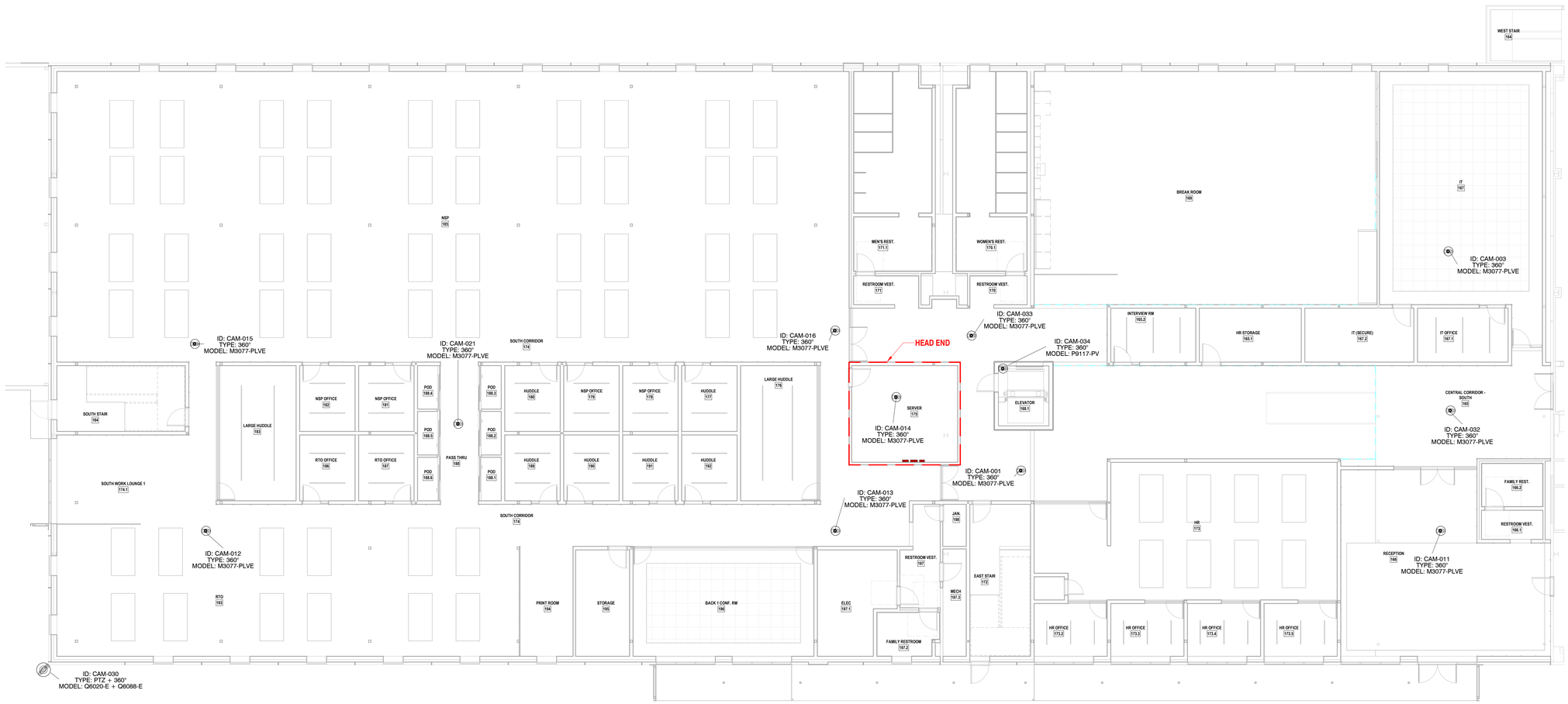
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SECURITY FLOOR PLAN SURVEILLANCE - ZONE B - LEVEL 01 - PHASE 1
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TS.100



E1 | SECURITY - ZONE B - LEVEL 01 - PHASE 1 - RCP - SURVEILLANCE
1/8" = 1'-0"

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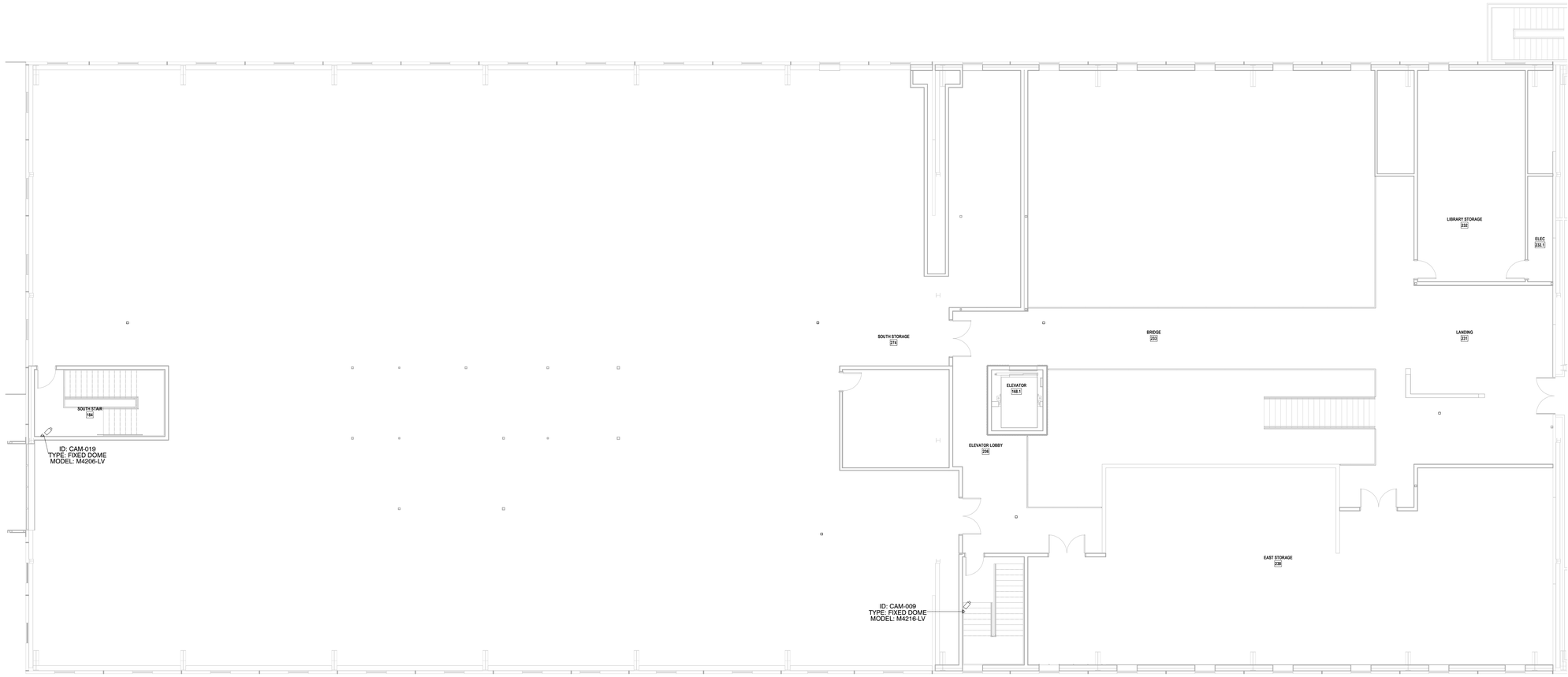
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date: 2026.09.11
project: 136343

TS.101



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 1 - FLOOR PLAN - SURVEILLANCE
1/8" = 1'-0"

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TS.102



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 1 - RCP - SURVEILLANCE
1/8" = 1'-0"

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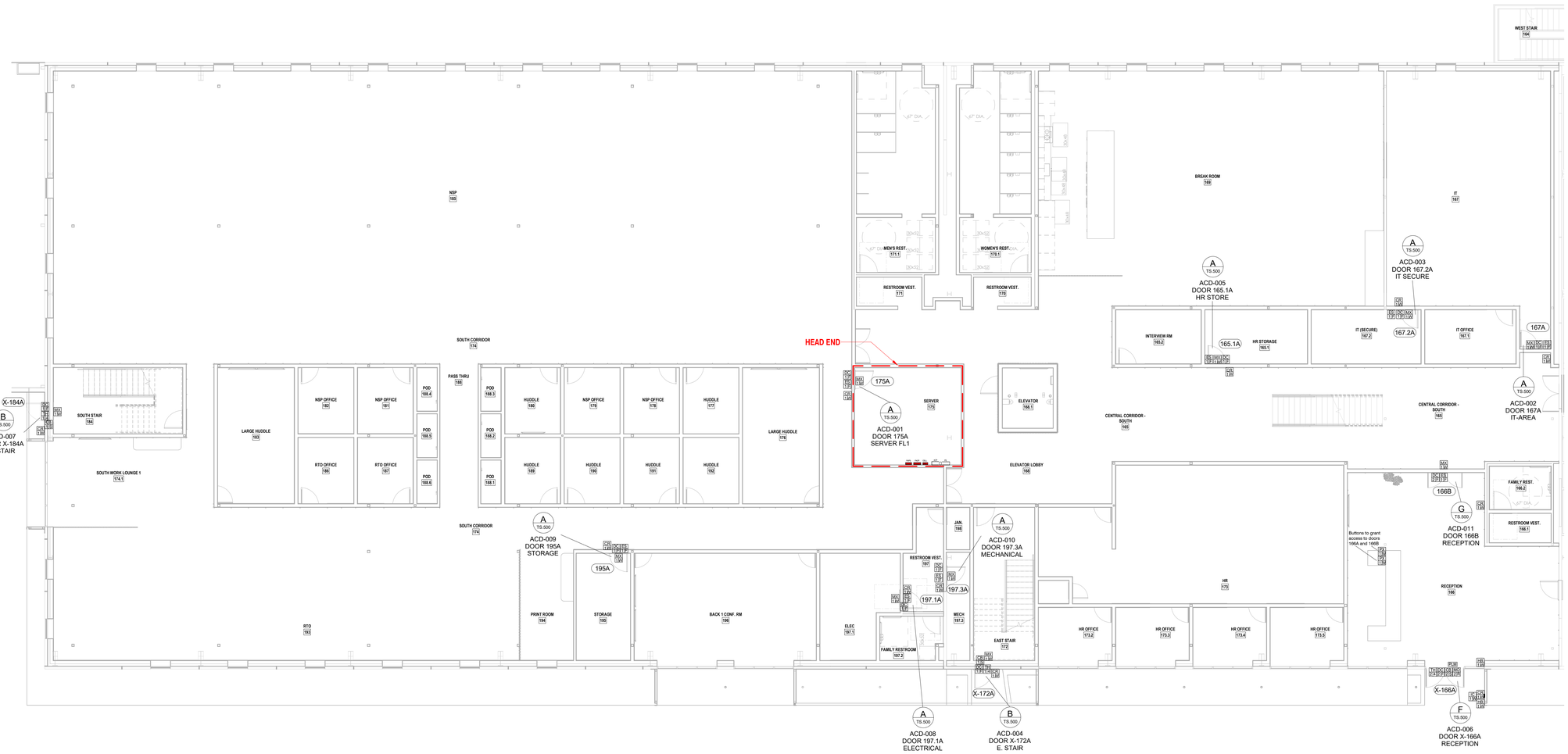
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TS.103



E1 | SECURITY - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN - ACCESS CONTROL
1/8" = 1'-0"

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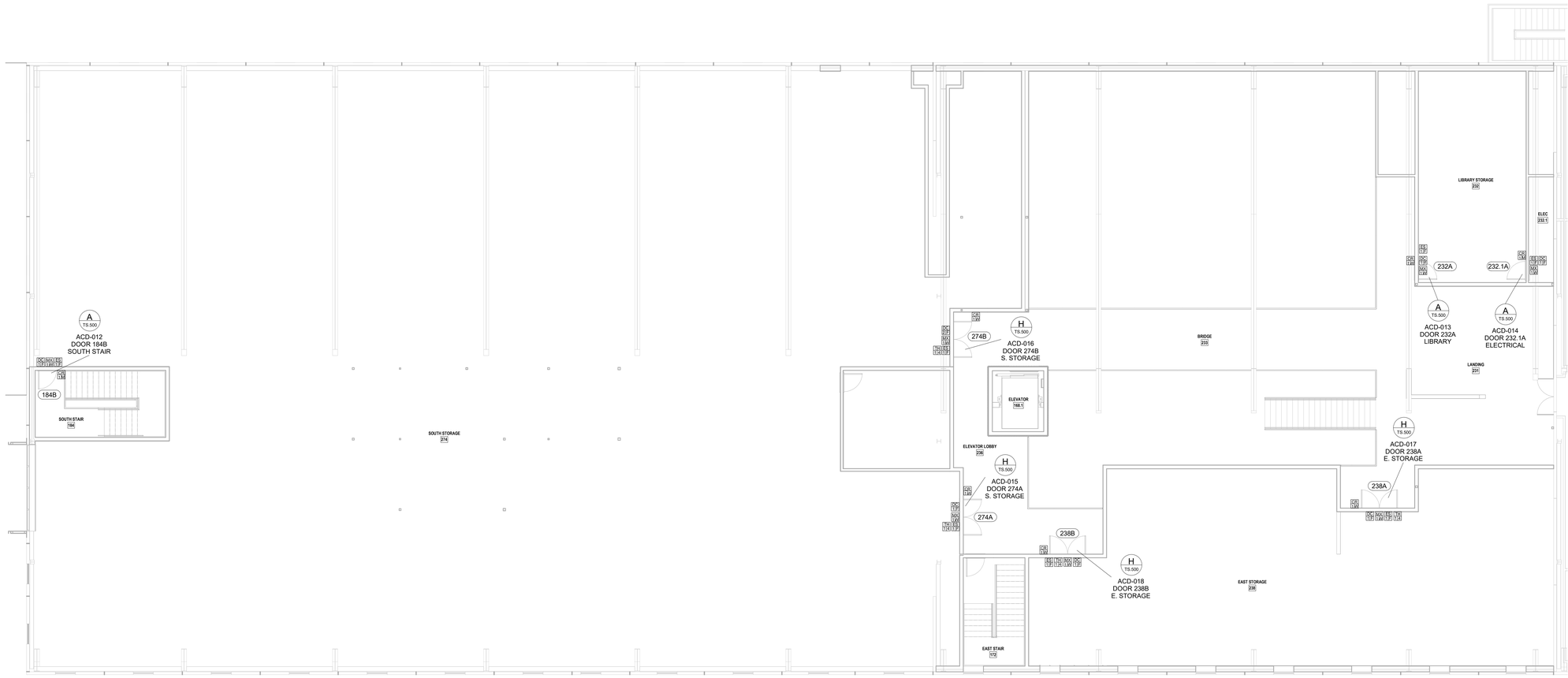
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TS.104



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 1 - FLOOR PLAN - ACCESS CONTROL
1/8" = 1'-0"

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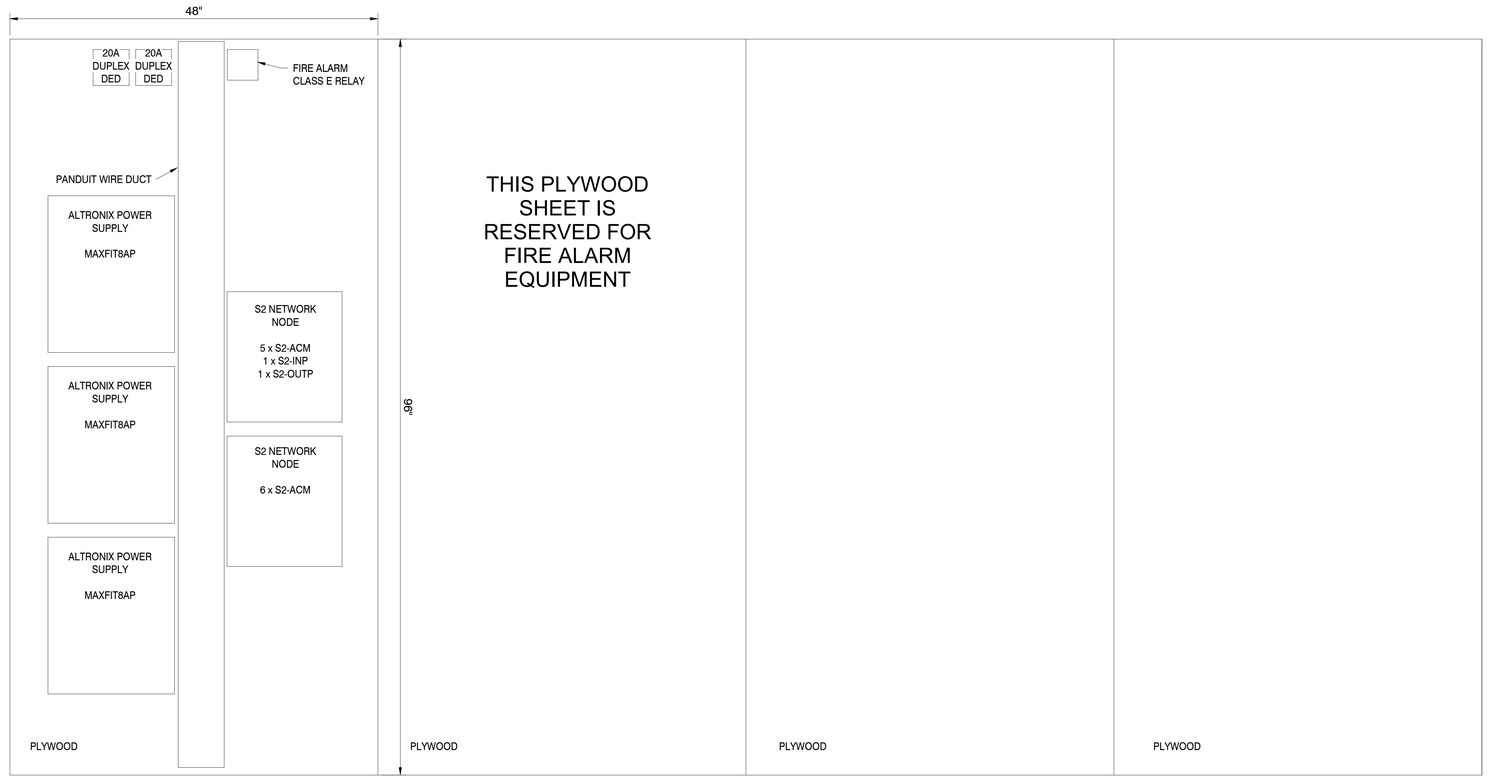
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TS.105



FLOOR

E1 | ACCESS CONTROL - HEAD END
1 1/2" = 1'-0"

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contents:
SECURITY ACCESS CONTROL HEAD END

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TS.200



DEVICE SYMBOL LEGEND

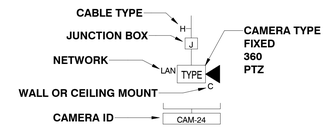
DEVICE SECURITY LEGEND

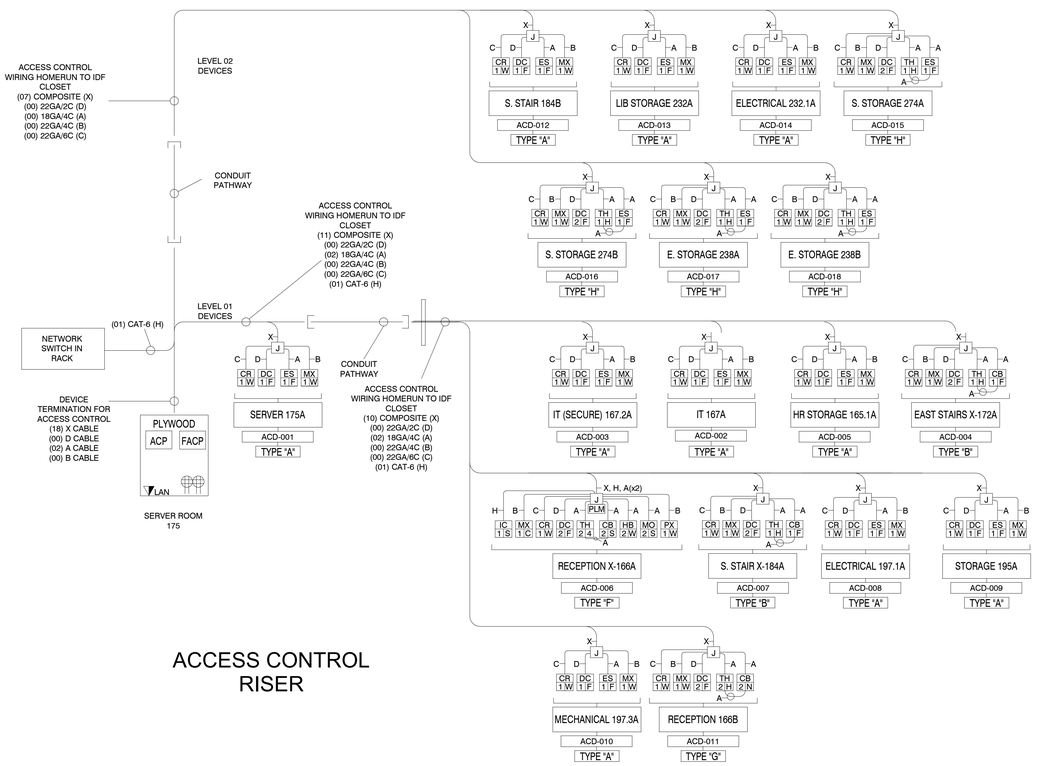
CR 1 W	CARD READER	W = WALL MOUNT
		M = MULLION MOUNT
DC 1 S	DOOR CONTACT	S = SURFACE MOUNT
		F = FLUSH MOUNT
MX 1 W	REQUEST TO EXIT (MOTION SENSOR)	W = WALL MOUNT
		C = CEILING
PX 1 W	REQUEST TO EXIT (PUSH BUTTON)	W = WALL MOUNT
		M = MULLION MOUNT
TH 1 4	TRANSFER HINGE	4 = FOUR WIRE
		8 = EIGHT WIRE
ES 1 L	ELECTRIC STRIKE	L = FAIL SECURE (LOCKED WHEN UNPOWERED)
		U = FAIL SAFE (UNLOCKED WHEN UNPOWERED)
ML 1 D	MAGNETIC LOCK	S = SINGLE DOOR
		D = DOUBLE DOOR
CB 1 N	CRASH BAR	D = DELAYED EGRESS
		N = NON-DELAYED EGRESS
LB 1 L	LATCH BOLT	L = FAIL SECURE (LOCKED WHEN UNPOWERED)
		U = FAIL SAFE (UNLOCKED WHEN UNPOWERED)
EVR 1 -	EXIT DEVICE VERTICAL ROD	
ACP 1 W	ACCESS CONTROL PANEL	W = WALL MOUNT
		R = RACK MOUNT
IC 1 S	INTERCOM	S = SURFACE MOUNT
		F = FLUSH MOUNT
HB 1 W	HANDICAP BUTTON	WALL MOUNT
		MULLION MOUNT
MO 1 S	MOTORIZED DOOR OPENER	S = SURFACE MOUNT
		F = FLUSH MOUNT
PLM	PROGRAMMABLE LOGIC MODULE	
ACP	ACCESS CONTROL PANEL	
PS	POWER SUPPLY	

CABLE LEGEND

ACCESS CONTROL SYSTEM

LETTER	DESCRIPTION	NOTES
A	18 GA / 4 CONDUCTOR UNSHIELDED	LOCK POWER
B	22 GA / 4 CONDUCTOR UNSHIELDED	REX
C	22 GA / 6 CONDUCTOR SHIELDED	CARD READER
D	22 GA / 2 CONDUCTOR UNSHIELDED	DOOR CONTACT
E	18 GA / 2 CONDUCTOR UNSHIELED	LOCAL JUMPER
G	18 GA / 4 CONDUCTOR UNSHIELDED	INTERCOM RELAY
H	CATEGORY 6	NETWORK
X	COMPOSITE CABLE	MULTICABLE





ACCESS CONTROL RISER

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TS.300

SURVEILLANCE CAMERA SCHEDULE - PH 1

CAMERA ID #	MODEL NUMBER	MOUNTING TYPE	FLOOR	Comments	CAMERA MOUNTING HEIGHT	CAMERA HORZ FOV	DORI IDENTIFY	DORI RECOGNIZE	DORI OBSERVE	DORI DETECT
CAM-001	M3077-PLVE	CEILING	LEVEL 01	168 - ELEVATOR LOBBY	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-002	M4216-LV	WALL	LEVEL 01	165 - CENTRAL CORRIDOR SOUTH	7' - 0"	100.00°	12' - 7"	25' - 4"	50' - 10"	120' - 9"
CAM-003	M3077-PLVE	CEILING	LEVEL 01	167 - IT	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-004	P3818-PVE	WALL	LEVEL 01	169 - BREAK	9' - 5"	179.00°	0' - 0"	0' - 0"	0' - 0"	0' - 0"
CAM-005	P3818-PVE	WALL	LEVEL 01	169 - BREAK	9' - 5"	179.00°	0' - 0"	0' - 0"	0' - 0"	0' - 0"
CAM-006	M3077-PLVE	CEILING	LEVEL 02	236 - ELEVATOR LOBBY	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-007	M4216-LV	WALL	LEVEL 01	172 - EAST STAIR	8' - 0"	100.00°	12' - 5"	25' - 3"	50' - 9"	120' - 9"
CAM-008	M4216-LV	WALL	LEVEL 01	170 - EAST STAIR	8' - 0"	100.00°	12' - 5"	25' - 3"	50' - 9"	120' - 9"
CAM-009	M4216-LV	WALL	LEVEL 02	172 - EAST STAIR	7' - 0"	100.00°	12' - 7"	25' - 4"	50' - 10"	120' - 9"
CAM-010	P3277-LVE	WALL	EXTERIOR	172 - EAST STAIR	7' - 0"	100.00°	14' - 2"	28' - 6"	57' - 2"	135' - 11"
CAM-011	M3077-PLVE	CEILING	LEVEL 01	166 - RECEPTION	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-012	M3077-PLVE	CEILING	LEVEL 01	193 - RTO	8' - 0"	360.00°	7' - 4"	15' - 8"	31' - 11"	64' - 1"
CAM-013	M3077-PLVE	CEILING	LEVEL 01	174 - SOUTH CORRIDOR	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-014	M3077-PLVE	CEILING	LEVEL 01	175 - SERVER	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-015	M3077-PLVE	CEILING	LEVEL 01	185 - NSP	8' - 0"	360.00°	7' - 4"	15' - 8"	31' - 11"	64' - 1"
CAM-016	M3077-PLVE	CEILING	LEVEL 01	185 - NSP	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-017	M4216-LV	WALL	LEVEL 01	184 - SOUTH STAIR	7' - 0"	100.00°	12' - 7"	25' - 4"	50' - 10"	120' - 9"
CAM-018	M4216-LV	WALL	LEVEL 01	184 - SOUTH STAIR	7' - 0"	100.00°	12' - 7"	25' - 4"	50' - 10"	120' - 9"
CAM-019	M4216-LV	WALL	LEVEL 01	184 - SOUTH STAIR	7' - 0"	100.00°	14' - 2"	28' - 6"	57' - 2"	135' - 11"
CAM-020	P3277-LVE	WALL	EXTERIOR	184 - SOUTH STAIR	8' - 0"	100.00°	14' - 1"	28' - 6"	57' - 2"	135' - 10"
CAM-021	M3077-PLVE	CEILING	LEVEL 01	188 - PASS THRU	7' - 0"	360.00°	7' - 8"	15' - 10"	32' - 0"	64' - 1"
CAM-022	M3077-PLVE	CEILING	LEVEL 02	231 - LANDING	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-023	M3077-PLVE	CEILING	LEVEL 02	236 - ELEVATOR LOBBY	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-024	M3077-PLVE	CEILING	LEVEL 02	274 - SOUTH CORRIDOR	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-025	M3077-PLVE	CEILING	LEVEL 02	274 - SOUTH CORRIDOR	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-027	M3077-PLVE	CEILING	LEVEL 02	285 - NSP	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-030	Q6020-E + Q6088-E	CORNER MOUNTED	EXTERIOR	EXTERIOR CORNER						
CAM-031	P3277-LVE	WALL	EXTERIOR	MAIN ENTRANCE	8' - 10"	100.00°	13' - 10"	28' - 5"	57' - 1"	135' - 10"
CAM-032	M3077-PLVE	CEILING	LEVEL 01	165 - SOUTH CORRIIDOR	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-033	M3077-PLVE	CEILING	LEVEL 01	168 - ELEVATOR LOBBY	8' - 11"	360.00°	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-034	P9117-PV	CORNER MOUNTED	ELEVATOR	168.1 - ELEVATOR CAR	8' - 0"	0.00°	7' - 8"	16' - 5"	33' - 4"	66' - 11"

Grand total: 31

CAMERA POLE SCHEDULE

DEVICE ATTACHED	ROD LENGTH	Family	Comments
CAM-006	2' - 8"	Pole with 4in Octagon Box	
CAM-011	1' - 10"	Pole with 4in Octagon Box	
CAM-012	2' - 2"	Pole with 4in Octagon Box	
CAM-013	2' - 6"	Pole with 4in Octagon Box	
CAM-014	2' - 0"	Pole with 4in Octagon Box	
CAM-015	2' - 0"	Pole with 4in Octagon Box	
CAM-016	2' - 2"	Pole with 4in Octagon Box	
CAM-021	3' - 6"	Pole with 4in Octagon Box	
CAM-022	3' - 0"	Pole with 4in Octagon Box	
CAM-023	2' - 2"	Pole with 4in Octagon Box	
CAM-024	2' - 6"	Pole with 4in Octagon Box	
CAM-025	2' - 8"	Pole with 4in Octagon Box	
CAM-027	2' - 6"	Pole with 4in Octagon Box	
CAM-032	0' - 4"	Pole with 4in Octagon Box	
CAM-033	0' - 2"	Pole with 4in Octagon Box	

Grand total: 15

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contents
SECURITY SURVEILLANCE SCHEDULES - PHASE 1

design ISSUE FOR PRICING
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TS.400

ACCESS CONTROL SCHEDULE - PH 1

FLOOR	DEVICE ID#	ROOM	LOCATION	DETAIL	DOOR LEAFS	DOOR HARDWARE NUMBER	DOOR MATERIAL	DOOR HARDWARE FINISH	CR (W)	DC	ES (F)	MX	ML (S)	TH	CB	HB	MO	IC
LEVEL 01	ACD-001	SERVER FL1	DOOR 175A	A	SINGLE	GROUP 02	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-002	IT-AREA	DOOR 167A	A	SINGLE	GROUP 11	GLASS		1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-003	IT SECURE	DOOR 167.2A	A	SINGLE	GROUP 11	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-004	E. STAIR	DOOR X-172A	B	SINGLE	GROUP 07	METAL	STAINLESS STEEL	1	1	0	1	0	1	1	0	0	0
LEVEL 01	ACD-005	HR STORE	DOOR 165.1A	A	SINGLE	GROUP 05	METAL	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-006	RECEPTION	DOOR X-166A	F	DOUBLE	GROUP 10	GLASS		1	2	0	0	0	2	2	2	2	1
LEVEL 01	ACD-007	S STAIR	DOOR X-184A	B	SINGLE	GROUP 07	METAL	STAINLESS STEEL	1	1	0	1	0	1	1	0	0	0
LEVEL 01	ACD-008	ELECTRICAL	DOOR 197.1A	A	SINGLE	GROUP 13	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-009	STORAGE	DOOR 195A	A	SINGLE	GROUP 05	WOOD	BLACK	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-010	MECHANICAL	DOOR 197.3A	A	SINGLE	GROUP 02	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 01	ACD-011	RECEPTION	DOOR 166B	G	DOUBLE	GROUP 09	GLASS		1	2	0	0	0	2	2	0	0	0
LEVEL 02	ACD-012	SOUTH STAIR	DOOR 184B	A	SINGLE	GROUP 14	WOOD		1	1	1	1	0	0	0	0	0	0
LEVEL 02	ACD-013	LIBRARY	DOOR 232A	A	SINGLE	GROUP 05	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 02	ACD-014	ELECTRICAL	DOOR 232.1A	A	SINGLE	GROUP 02	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 02	ACD-015	S. STORAGE	DOOR 274A	H	DOUBLE	GROUP 15	WOOD	STAINLESS STEEL	1	2	1	1	0	1	0	0	0	0
LEVEL 02	ACD-016	S. STORAGE	DOOR 274B	H	DOUBLE	GROUP 15	WOOD	STAINLESS STEEL	1	2	1	1	0	1	0	0	0	0
LEVEL 02	ACD-017	E. STORAGE	DOOR 238A	H	DOUBLE	GROUP 15	WOOD	STAINLESS STEEL	1	2	1	1	0	1	0	0	0	0
LEVEL 02	ACD-018	E. STORAGE	DOOR 238B	H	DOUBLE	GROUP 15	WOOD	STAINLESS STEEL	1	2	1	1	0	1	0	0	0	0

Grand total: 18

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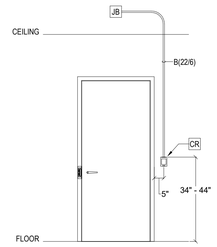
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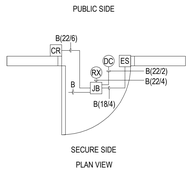
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SECURITY ACCESS CONTROL SCHEDULES - PHASE 1

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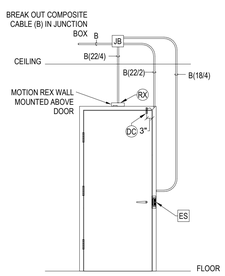
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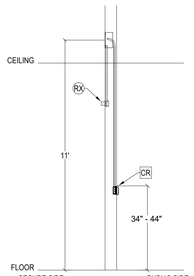
ELEVATION VIEW: PUBLIC SIDE



PLAN VIEW

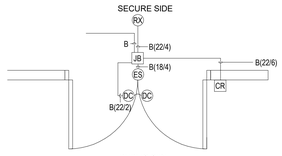


ELEVATION VIEW: SECURE SIDE

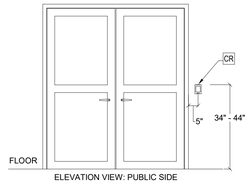


SECTION VIEW

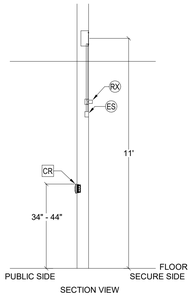
C1 | DOOR CONFIG A
3/8" = 1'-0"



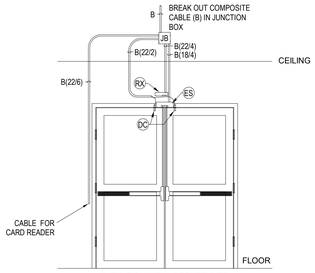
PLAN VIEW



ELEVATION VIEW: PUBLIC SIDE

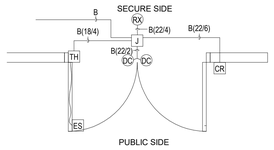


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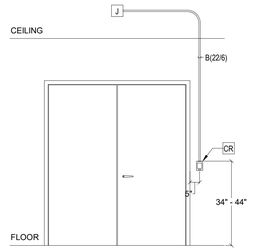


ELEVATION VIEW: SECURE SIDE

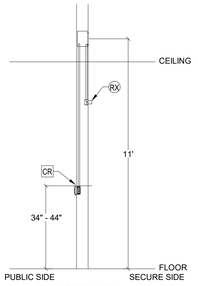
C2 | DOOR CONFIG G
3/8" = 1'-0"



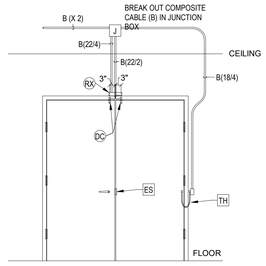
PLAN VIEW



ELEVATION VIEW: PUBLIC SIDE

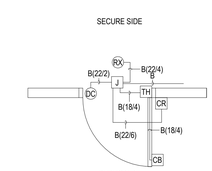


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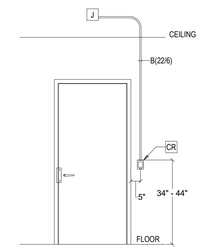


ELEVATION VIEW: SECURE SIDE

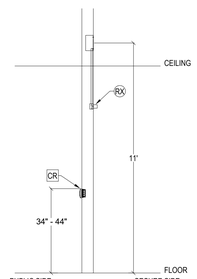
C4 | DOOR CONFIG H
3/8" = 1'-0"



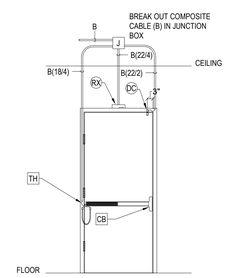
PLAN VIEW



ELEVATION VIEW: PUBLIC SIDE

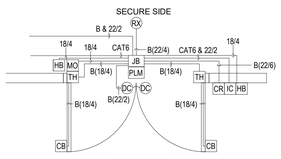


SECTION VIEW

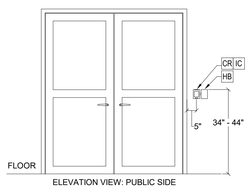


ELEVATION VIEW: SECURE SIDE

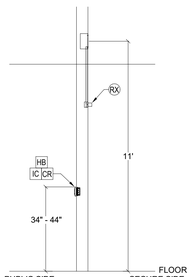
C5 | DOOR CONFIG B
3/8" = 1'-0"



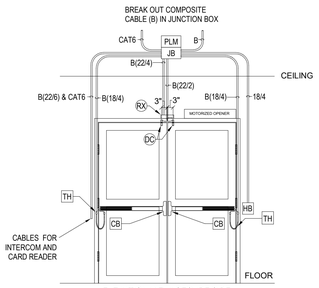
PLAN VIEW



ELEVATION VIEW: PUBLIC SIDE



SECTION VIEW



ELEVATION VIEW: SECURE SIDE

E1 | DOOR CONFIG F
3/8" = 1'-0"

DOOR CONFIGURATION F (MAIN ENTRY DOUBLE DOORS)

Operational Use Cases:

1. **Exterior ADA button isn't enabled until a valid card swipe**
2. **Door locks release before the door operator can fire**
3. **Both powered leaves open when any ADA button is pushed**
4. **Interior ADA button - Trigger Operators when pressed**
5. **Manual actions / Phone system release**
6. **VD Touchbar REX unlocks door**
7. **Alerts sent for failure to badge out, use of non authenticated release logged**

S2 Setup / Events Needed to Support Use Cases

Method for 1-3
- **Configure Extended unlock time on the portal**
- **An event is created to have the ADA interrupt output mirror the behavior of the output for the door**
- **On an "Access Granted" the output will trip and complete the circuit for the input (ADA Button) and allow the ADA button to be pressed**
- **Once the ADA button is pressed an event on its input will trigger the door operators and the doors will open**

Method for 4
- **A delayed release to be programmed.**

Method for 5 (Check the API)
- **Program into the portal for "Manual Actions" on momentary unlock or extended unlock an event that triggers the output connected to the ADA button interrupt to allow the ADA button to be used during times the lock is manually released**
- **This will work for Manual Actions from the UI but needs to be verified that it can be triggered using the API**

Method for 6
- **Program a triggered event on the REX input that unlocks the door (Ensure extended unlock on portal)**

Method for 7
- **Configure the anti-passback to send an email when someone gets access without badging out**
- **Need to configure SMTP server in S2 in addition to anti-passback event**
- **Non WHSE area anti-passback - send email**
- **Input 2 - Logged when tripped (Unauthenticated Exit)**
- **Input 3 - Logged when pushed (Unauthenticated Exit)**

Other
- **A PLM (Programmable Logic Module) such as the BEA Br3-X may be needed to handle various timing and sequencing functions for correct operation of these doors.**

LEGEND	
CR	Card Reader
RX	Request To Exit Motion Detector
DC	Door Contact
ML	Maglock
PX	REX Push Button
ES	Electric Strike
CB	Crash Bar
TH	Transfer Hinge
JB	Junction Box
HB	Handicap Button
IC	Intercom
MO	Motorized Door Opener
PLM	Programmable Logic Module

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contents:
SECURITY ACCESS CONTROL DOOR CONFIGURATIONS

design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TS.500



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 2 - FLOOR PLAN - AREA OF WORK
1/8" = 1'-0"

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contents.
SECURITY FLOOR PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTS.005



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 2 - RCP - AREA OF WORK
1/8" = 1'-0"

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contents:
SECURITY CEILING PLAN AREA OF WORK - ZONE B - LEVEL 02 - PHASE 2

design: ISSUE FOR PRICING
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project: 136343

TTS.006



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 2 - RCP - SURVEILLANCE
1/8" = 1'-0"

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contents:
SECURITY CEILING PLAN SURVEILLANCE - ZONE B - LEVEL 02 - PHASE 2
design: ISSUE FOR PRICING
date: 2026.09.11
project: 136343

TTS.103



E1 | SECURITY - ZONE B - LEVEL 02 - PHASE 2 - FLOOR PLAN - ACCESS CONTROL
1/8" = 1'-0"

issue for review: 2026.08.05
issue for pricing: 2026.09.11
issue for construction:

revisions:
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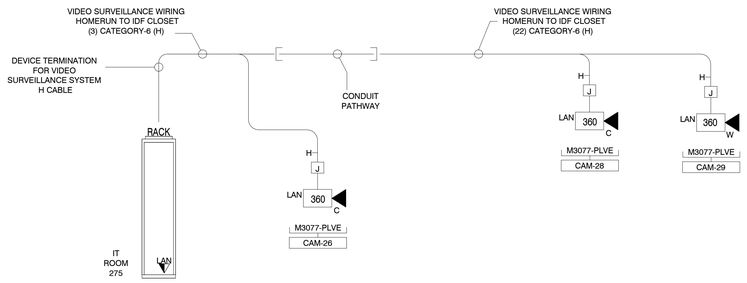
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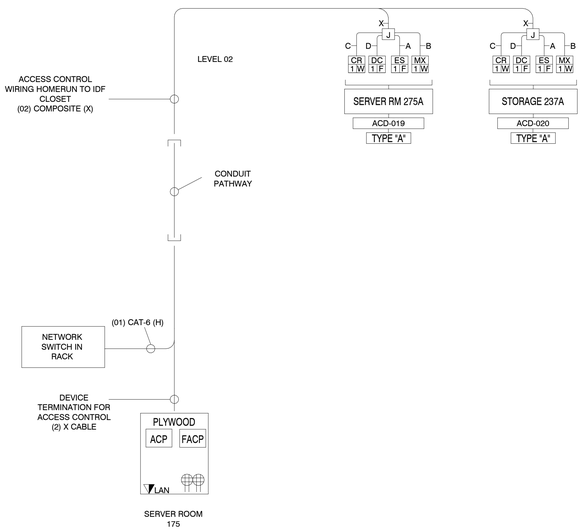
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contents: SECURITY FLOOR PLAN ACCESS CONTROL - ZONE B - LEVEL 02 - PHASE 2
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTS.105



SURVEILLANCE RISER



ACCESS CONTROL
RISER

DEVICE SYMBOL LEGEND



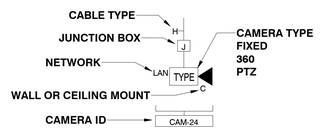
DEVICE SECURITY LEGEND

CR 1 W	CARD READER	W = WALL MOUNT
		M = MULLION MOUNT
DC 1 S	DOOR CONTACT	S = SURFACE MOUNT
		F = FLUSH MOUNT
MX 1 W	REQUEST TO EXIT (MOTION SENSOR)	W = WALL MOUNT
		C = CEILING
PX 1 W	REQUEST TO EXIT (PUSH BUTTON)	W = WALL MOUNT
		M = MULLION MOUNT
TH 1 4	TRANSFER HINGE	4 = FOUR WIRE
		8 = EIGHT WIRE
ES 1 L	ELECTRIC STRIKE	L = FAIL SECURE (LOCKED WHEN UNPOWERED)
		U = FAIL SAFE (UNLOCKED WHEN UNPOWERED)
ML 1 D	MAGNETIC LOCK	S = SINGLE DOOR
		D = DOUBLE DOOR
CB 1 N	CRASH BAR	D = DELAYED EGRESS
		N = NON-DELAYED EGRESS
LB 1 L	LATCH BOLT	L = FAIL SECURE (LOCKED WHEN UNPOWERED)
		U = FAIL SAFE (UNLOCKED WHEN UNPOWERED)
EVR 1 -	EXIT DEVICE VERTICAL ROD	
ACP 1 W	ACCESS CONTROL PANEL	W = WALL MOUNT
		R = RACK MOUNT
IC 1 S	INTERCOM	S = SURFACE MOUNT
		F = FLUSH MOUNT
HB 1 W	HANDICAP BUTTON	WALL MOUNT
		MULLION MOUNT
MO 1 S	MOTORIZED DOOR OPENER	S = SURFACE MOUNT
		F = FLUSH MOUNT
PLM	PROGRAMMABLE LOGIC MODULE	
ACP	ACCESS CONTROL PANEL	
PS	POWER SUPPLY	

CABLE LEGEND

ACCESS CONTROL SYSTEM

LETTER	DESCRIPTION	NOTES
A	18 GA / 4 CONDUCTOR UNSHIELDED	LOCK POWER
B	22 GA / 4 CONDUCTOR UNSHIELDED	REX
C	22 GA / 6 CONDUCTOR SHIELDED	CARD READER
D	22 GA / 2 CONDUCTOR UNSHIELDED	DOOR CONTACT
E	18 GA / 2 CONDUCTOR UNSHIELED	LOCAL JUMPER
G	18 GA / 4 CONDUCTOR UNSHIELDED	INTERCOM RELAY
H	CATEGORY 6	NETWORK
X	COMPOSITE CABLE	MULTICABLE



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contents: SECURITY ACCESS CONTROL & SURVEILLANCE RISER DIAGRAM - PHASE 2
design: ISSUE FOR PRICING
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TTS.300

SURVEILLANCE CAMERA SCHEDULE - PH 2									
CAMERA ID #	MODEL NUMBER	MOUNTING TYPE	FLOOR	Comments	CAMERA MOUNTING HEIGHT	DORI IDENTIFY	DORI RECOGNIZE	DORI OBSERVE	DORI DETECT
CAM-026	M3077-PLVE	CEILING	LEVEL 02	275 - SERVER	8' - 11"	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-028	M3077-PLVE	CEILING	LEVEL 02	274.1 - SITTING AREA 2	8' - 11"	6' - 10"	15' - 6"	31' - 9"	64' - 0"
CAM-029	M3077-PLVE	CEILING	LEVEL 02	288 PASS THRU	8' - 11"	6' - 10"	15' - 6"	31' - 9"	64' - 0"

Grand total: 3

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contents:
SECURITY SURVEILLANCE SCHEDULES - PHASE 2

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project: 136343

TTS.400

ACCESS CONTROL SCHEDULE - PH 2

FLOOR	DEVICE ID#	ROOM	LOCATION	DETAIL	DOOR LEAFS	DOOR HARDWARE NUMBER	DOOR MATERIAL	DOOR HARDWARE FINISH	CR (W)	DC	ES (F)	MX	ML (S)	TH	CB	HB	MO	IC
LEVEL 02	ACD-019	SERVER FL2	DOOR 275A	A	SINGLE	GROUP 02	WOOD	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0
LEVEL 02	ACD-020	STORAGE	DOOR 237A	A	SINGLE	GROUP 05	METAL	STAINLESS STEEL	1	1	1	1	0	0	0	0	0	0

Grand total: 2

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contents.
SECURITY ACCESS CONTROL SCHEDULES - PHASE 2

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TTS.402

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TECHNOLOGY

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contents.
TELECOM COVER SHEET

design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TT.000

WACHTER LOWELL REMODEL
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LOWELL, AR 72745

DRAWING NO	DESCRIPTION	1	2	3	4	5	6	7	8	A	B	C	D
TT.000	TELECOM COVER SHEET	X	X	X	X	X	X	X	X				
TT.001	TELECOM SHEET LIST & RESPONSIBILITY MATRIX	X	X	X	X	X	X	X	X				
TT.002	TELECOM LEGEND NOTES DEFINITIONS		X	X	X	X	X	X	X				
TT.010	TELECOM DETAILS					X	X	X	X				
TT.011	TELECOM DETAILS					X	X	X	X				
TT.100	TELECOM PRIMARY PATHWAYS + RISER PLANS - ZONE B - PHASE 1		X	X	X	X	X	X	X				
TT.200	TELECOM DEVICE PLAN - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TT.201	TELECOM DEVICE PLAN - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TT.300	TELECOM REFLECTED CEILING PLAN - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TT.301	TELECOM REFLECTED CEILING PLAN - LEVEL 02 - PHASE 1		X	X	X	X	X	X	X				
TT.400	TELECOM IDF/MDF PART PLANS - LEVEL 01 - PHASE 1		X	X	X	X	X	X	X				
TTT.004	TELECOM AREA OF WORK - LEVEL 02 - PHASE 2							X	X				
TTT.201	TELECOM DEVICE PLAN - LEVEL 02 - PHASE 2							X	X				
TTT.301	TELECOM REFLECTED CEILING PLAN - LEVEL 02 - PHASE 2							X	X				
TTT.401	TELECOM IDF/MDF PART PLANS - LEVEL 02 - PHASE 2							X	X				

TELECOM SET SYMBOL LEGEND	
AV 2	AUDIOVISUAL DEVICE- 2 DATA PORT
RS 1	ROOM SCHEDULER- 1 DATA PORT
CM 1	CEILING MOUNTED CAMERA- 1 DATA PORT
CM 1	WALL MOUNTED CAMERA- 1 DATA PORT
	TELECOM DATA- 1 DATA PORT
WAP	WIRELESS ACCESS POINT DEVICE

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING	KP	KEYPAD	SUB	SUBWOOFER
AFF	ABOVE FINISHED FLOOR	LVC	LOW VOLTAGE CONTRACTOR	TB	TABLEBOX
ALS	ASSISTIVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FACILITY	TBD	TO BE DETERMINED
AVC	AUDIOVISUAL CONTRACTOR	NA	NOT APPLICABLE	TP	TOUCH PANEL
AVR	AUDIOVISUAL EQUIPMENT RACK	NIC	NOT IN CONTRACT	TV	TELEVISION
BFC	BELOW FINISHED CEILING	NTS	NOT TO SCALE	TYP	TYPICAL
BOM	BILL OF MATERIALS	OCC	OCCUPANCY SENSOR	TX	TRANSMIT
CAM	CAMERA	OFE	OWNER FURNISHED EQUIPMENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
CI	CONTROL INTERFACE	OFOI	OWNER FURNISHED/ OWNER INSTALLED	UON	UNLESS OTHERWISE NOTED
CU	CONTROL UNIT	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	UTP	UNSHIELDED TWISTED PAIR
DS	DOCKING STATION	CFOI	CONTRACTOR FURNISHED/ OWNER INSTALLED	VIF	VERIFY IN FIELD
EC	ELECTRICAL CONTRACTOR	CFCI	CONTRACTOR FURNISHED/ CLIENT INSTALLED	VOL	VOLUME CONTROL
EMT	ELECTRICAL METALLIC TUBING	CFEI	CONTRACTOR FURNISHED/ ELECTRICIAN INSTALLED	WAP	WIRELESS ACCESS POINT
FB	FLOORBOX	EFEI	ELECTRICIAN FURNISHED/ ELECTRICIAN INSTALLED	WP	WALL PLATE
GC	GENERAL CONTRACTOR	INT	INTERCOM	WRX	WIRELESS TRANSMITTER
GND	GROUND	PB	PULL BOX		
IDF	INTERMEDIATE DISTRIBUTION FACILITY	RX	RECEIVER		
IP	INTERNET PROTOCOL	SPK	SPEAKER		
JB	JUNCTION BOX	STP	SHIELDED TWIST PAIR		

TELECOMMUNICATIONS DEVICE SYMBOL LEGEND

DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED	PROVIDED BY	INSTALLED BY	TERMINATED BY	BACK-BOX DESCRIPTION	MOUNTING	HEIGHT	PROVIDED BY	INSTALLED BY
WIRELESS ACCESS POINT "x" INDICATES DEVICE IDENTIFICATION	XXX-XX WAP XX "X"	XXX-XX WAP XX "X"		LVC	LVC	LVC					
VOICE/DATA NETWORK "x" INDICATES DEVICE IDENTIFICATION	WAP XX XXX-XX "X"	WAP XX XXX-XX "X"	WAP XX XXX-XX "X"	LVC	LVC	LVC					
DATA PORT "x" INDICATES DEVICE IDENTIFICATION	DAT XX XXX-XX "X"	DAT XX XXX-XX "X"	DAT XX XXX-XX "X"	LVC	LVC	LVC					
PHONE PORT "x" INDICATES DEVICE IDENTIFICATION	PH XX XXX-XX "X"	PH XX XXX-XX "X"	PH XX XXX-XX "X"	LVC	LVC	LVC					
FIBER PORT "x" INDICATES DEVICE IDENTIFICATION	FP XX XXX-XX "X"	FP XX XXX-XX "X"	FP XX XXX-XX "X"	LVC	LVC	LVC					
AV NETWORK "x" INDICATES DEVICE IDENTIFICATION	AV XX XXX-XX "X"	AV XX XXX-XX "X"	AV XX XXX-XX "X"	LVC	LVC	LVC					
SECURITY NETWORK "x" INDICATES DEVICE IDENTIFICATION	SEC XX XXX-XX "X"	SEC XX XXX-XX "X"	SEC XX XXX-XX "X"	LVC	LVC	LVC					
INTRUSION NETWORK "x" INDICATES DEVICE IDENTIFICATION	INT XX XXX-XX "X"	INT XX XXX-XX "X"	INT XX XXX-XX "X"	LVC	LVC	LVC					
CUSTOMER NETWORK "x" INDICATES DEVICE IDENTIFICATION	MSP XX XXX-XX "X"	MSP XX XXX-XX "X"	MSP XX XXX-XX "X"	LVC	LVC	LVC					
FIBER BREAK OUT BOX "x" INDICATES DEVICE IDENTIFICATION	XXX-XX FBR XX "X"	XXX-XX FBR XX "X"	XXX-XX FBR XX "X"	LVC	LVC	LVC					
INTERMEDIATE DISTRIBUTION FRAME "x" INDICATES DEVICE IDENTIFICATION	XXX-XX IDF XX "X"	XXX-XX IDF XX "X"	XXX-XX IDF XX "X"	LVC	LVC	LVC					
MAIN DISTRIBUTION FRAME "x" INDICATES DEVICE IDENTIFICATION	XXX-XX MDF XX "X"	XXX-XX MDF XX "X"	XXX-XX MDF XX "X"	LVC	LVC	LVC					
DISTRIBUTED ANTENNA SYSTEM "x" INDICATES DEVICE IDENTIFICATION	XXX-XX DAS XX "X"	XXX-XX DAS XX "X"	XXX-XX DAS XX "X"	LVC	LVC	LVC					
TV CONNECTION "x" INDICATES DEVICE IDENTIFICATION	TV XX XXX-XX "X"	TV XX XXX-XX "X"	TV XX XXX-XX "X"	LVC	LVC	LVC					

ELECTRICAL DEVICE SYMBOL LEGEND

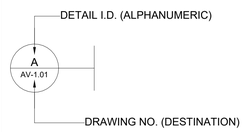
DEVICE DESCRIPTION	CEILING MOUNTED	WALL MOUNTED	FLOOR MOUNTED	PROVIDED BY	INSTALLED BY	TERMINATED BY
DUPLEX OUTLET 120V 20A				E.C.	E.C.	E.C.
DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT				E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A				E.C.	E.C.	E.C.
QUAD OUTLET 120V 20A, DEDICATED CIRCUIT				E.C.	E.C.	E.C.
RF GATEWAY	RF	RF	RF	E.C.	E.C.	E.C.
TWIST LOCK CONNECTION 4X INDICATES DEVICE TYPE/ "X" INDICATES VOLTAGE/AMPERAGE	XX "X"	XX "X"	XX "X"	E.C.	E.C.	E.C.

TELECOMMUNICATIONS DIVISION OF RESPONSIBILITIES

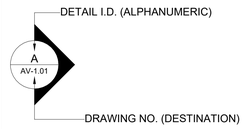
RESPONSIBILITY	PROVIDED BY	INSTALLED BY	TERMINATED BY
SWITCHES AND ROUTERS	WACHTER	LVC	LVC
WIRELESS ACCESS POINT	WACHTER	LVC	LVC
SERVERS	N/A	N/A	N/A
UPS	N/A	N/A	N/A
PDU	LVC	LVC	LVC
PATCH PANELS	LVC	LVC	LVC
CABLE MANAGERS	LVC	LVC	LVC
PATCH CORDS	LVC	LVC	LVC
FIBER TERMINATIONS AND CERTIFICATION	LVC	LVC	LVC
FIBER PATCH PANELS	LVC	LVC	LVC
FLOOR MOUNT DATA RACKS	LVC	LVC	LVC
WALL MOUNT DATA RACKS	N/A	N/A	N/A
ELECTRICAL RECEPTACLES IN IT ROOM	GC	GC	GC
STATION CABLES	LVC	LVC	LVC
FURNITURE FEEDS FROM WALL	N/A	N/A	N/A
TELECOMMUNICATIONS CABLE TRAY INSIDE TELECOMMUNICATIONS ROOMS	WACHTER	LVC	LVC
TELECOMMUNICATIONS CABLE TRAY OUTSIDE TELECOMMUNICATIONS ROOM	WACHTER	LVC	LVC
PLYWOOD BACKBOARDS INSIDE TELECOMMUNICATIONS ROOMS	GC	GC	GC

SYMBOLS & KEYS

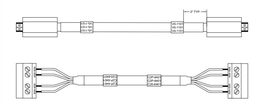
CALLOUT INDICATOR



SECTION INDICATOR



CABLE LABEL PLACEMENT

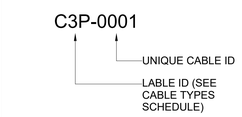


NOTES:
- EACH CABLE MUST BE LABELED AT EACH END WITH IT'S INDICATED UNIQUE CABLE ID.
- CABLE LABEL MUST BE PLACED TO ALLOW FOR EASY OF READABILITY WITHIN PARAMETERS INDICATED.

CONDUIT LEGEND

	EMT CONDUIT
	FREE AIR CABLE

CABLE NUMBERING SCHEMA



THIS MATRIX IS NOT INTENDED TO BE EXHAUSTIVE. WHERE SCOPE DISCREPANCIES OR DEFICIENCIES EXIST, PROVIDE WRITTEN NOTIFICATION TO THE DESIGN TEAM FOR CLARIFICATION.

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contents: TELECOM SHEET LIST & RESPONSIBILITY MATRIX
design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TT.001

GENERAL WIRING NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, LOCAL AND OTHER APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, NEC, BICSI, ANSI, TIA/EIA STANDARDS, CONSTRUCTION STANDARDS AND INDUSTRY BEST PRACTICES.
2. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND CONSTRUCTION DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT OR OWNER FOR RESOLUTION.
3. ALL WIRES AT HEADEND LOCATIONS SHALL NOT BE LESS THAN 16' IN LENGTH ONCE THEY TOUCH THE FLOOR.
4. ALL WIRES AT DEVICE LOCATIONS SHALL BE NO LESS THAN 24" IN LENGTH COILED IN BACK BOX.
5. ALL WIRES AT DISTRIBUTION LOCATIONS SHALL RUN NO LESS THAN FLOOR TO CEILING.
6. ALL WIRES AT DISPLAY LOCATIONS SHALL BE NO LESS THAN 4' IN LENGTH COILED IN BOX.
7. WIRES SHALL CROSS ELECTRICAL LINES AT 90°.
8. WIRES THAT NEED TO RUN PARALLEL WITH ELECTRICAL SHALL BE NO LESS THAN 3' AWAY FOR CIRCUIT RUNS UP TO 80' IN LENGTH AND 6' AWAY FOR RUNS OVER 80' IN LENGTH.
9. NO PARALLEL RUNS NEXT TO ELECTRICAL CIRCUITS IN EXCESS OF 600V.
10. ALL CATEGORY CABLE SHALL FOLLOW THE MINIMUM BEND RADIUS AS SPECIFIED BY THE MANUFACTURER, IN LIEU OF THAT FOLLOW A BICSI MINIMUM STANDARD OF 4X THE OUTSIDE DIAMETER OF THE CABLE.
11. THE MAXIMUM LENGTH FOR A PERMANENT LINK CATEGORY CABLE IS 90 METERS (295 FEET).\, ANY RUN THAT EXCEEDS THAT LENGTH SHALL BE BROUGHT TO THE ATTENTION OF THE LOW VOLTAGE CONTRACTOR.
12. ALL WIRE LABELS SHALL BE PERMANENT AND APPLIED NO LESS THAN 16" FROM WALL PENETRATION.
13. WIRE GROMMETS MUST BE USED WHEN PASSING WIRES THROUGH METAL STUDS AND ANY ENCLOSURES.
14. ALL MODIFICATIONS TO OWNER FURNISHED MILLWORK BY OTHERS.
15. ALL CABINETS AND ENCLOSURES THAT SHALL HOUSE ELECTRONIC HARDWARE AND EQUIPMENT RACKS SHALL BE PROPERLY VENTILATED, EITHER PASSIVELY OR ACTIVELY, SUCH THAT THE INTERIOR TEMPERATURE WILL NOT EXCEED 80° F.
16. ALL CEILING GRID MOUNTED DEVICES SHALL BE SAFETY WIRED TO DECK ABOVE. REFER TO LOCAL CODES.
17. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST MAINTAIN FIRE RATING.
18. ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL MAINTAIN WEATHERPROOF RATING.
19. ALL FREE PULLED WIRE SHALL USE APPROPRIATE J-HOOKS AND SAFETY CABLING TO MAINTAIN PROPER LOADING AND BEND REQUIREMENTS.

CONDUIT AND LADDER TRAY NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT, PULL-BOXES, RACEWAYS, LADDER TRAY AND OTHER INFRASTRUCTURE SUPPORT TO PROVIDE CABLE PATHWAYS FOR LOW VOLTAGE CABLING SHALL BE PROVIDED BY OTHERS. THIS SHALL COMPLY WITH NEC, TIA STANDARDS AND BICSI GUIDELINES.
2. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL STRING.
3. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT ENDS TO AVOID CHAFFING OF CABLING.
4. ALL CONDUIT TO BE RIGID EMT UNLESS OTHERWISE NOTED. IF FLEX CONDUIT OR GREEN FIELD IS SUBSTITUTED, ADD .5" TO THE SPECIFIED DIAMETER.
5. ALL CONDUIT FILL CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR 25% GROWTH.
6. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED.
7. THE BEND RADIUS OF CONDUIT SHALL BE NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER OF THAT CONDUIT.
8. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100' OF STRAIGHT CONDUIT AND EXTRA PULL BOXES FOR EVERY TWO 90° BENDS IN A CONDUIT RUN.
9. WHEN PENETRATING THE SLAB, SLEEVES SHALL BE CUT AT A MAXIMUM OF 3" ABOVE THE FINISHED SLAB.
10. PULL BOXES SHOULD BE INSTALLED ABOVE ACCESSIBLE CEILINGS WITH ACCESS PANELS. ACCESS PANELS SHALL BE A MINIMUM 24" X 24" WITH SPACING NO MORE THAN 10' APART. WHERE THIS IS NOT FEASIBLE, ACCESS PANELS WILL NEED TO BE PROVIDED THAT MEET THE ARCHITECTURAL FINISH REQUIREMENTS OF THE SPACES THEY WILL BE LOCATED IN.
11. LADDER TRAY SHALL HAVE A MINIMUM CLEARANCE OF 6" ABOVE AND BELOW AND 1' TO ONE SIDE FOR ACCESSIBILITY.
12. PROVIDE VERTICAL LADDER RACK WHEN SLEEVES/CONDUITS ENTERING THE HEADEND SPACES ARE INSTALLED MORE THAN 10'-0" AFF.
13. INSTALL THE LADDER RACK FROM SLEEVE BOTTOM TO THE TOP OF THE HORIZONTAL LADDER RACK FOR CABLE LACING IN THE VERTICAL RUN.
14. THERE SHALL BE NO OTHER EQUIPMENT, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE LADDER RACK/TRAY EXCEPT THOSE NEEDED TO SUPPORT THE SYSTEM.

ELECTRICAL NOTES

1. ALL 120-VOLT WIRE, CONDUIT, BACK-BOXES, FLOOR BOXES, OTHER RELATED DEVICES AND CONNECTIONS BY EC.
2. ONE DUPLEX OUTLET AT EACH DISTRIBUTION LOCATION FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
3. GROUND ALL EQUIPMENT RACKS & LADDER TRAYS W/ #6 AWG (MIN.) TO GROUNDING BLOCK PROVIDED BY ELECTRICIAN.
4. PROVIDE DUAL RECESSED OUTLET AT ALL TV LOCATIONS UNLESS OTHERWISE NOTED.
5. PROVIDE TWO (2) 20A OUTLET(S) AT EACH EQUIPMENT RACK LOCATION AS A MINIMUM, REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
6. AV SYSTEM POWER CIRCUITS SHALL BE ISOLATED FROM LIGHTING DIMMERS, MOTORIZED EQUIPMENT OR OTHER INDUCTIVE ELECTRICAL LOADS.

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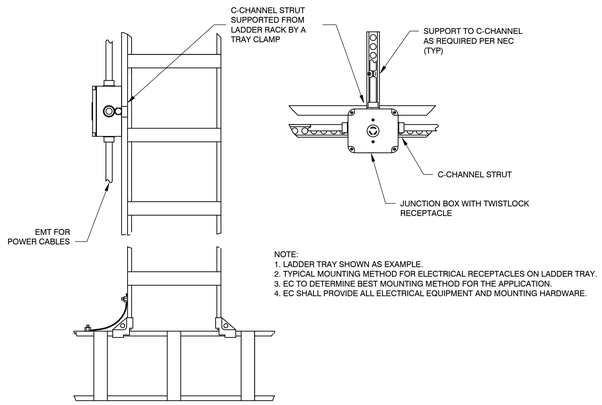
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TELECOM LEGENDS NOTES DEFINITIONS

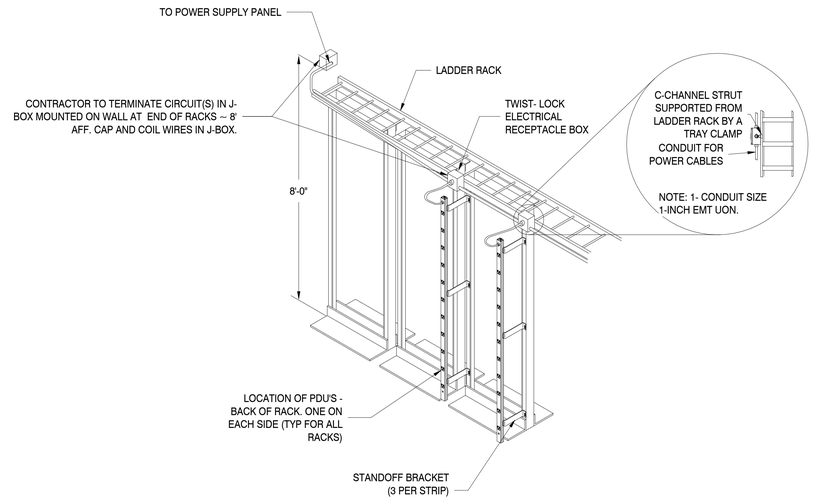
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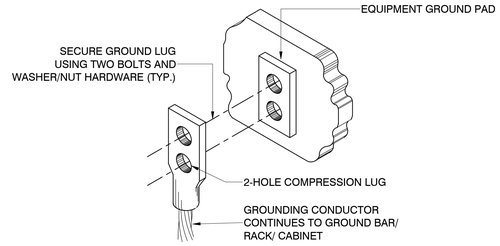


NOTE:
1. LADDER TRAY SHOWN AS EXAMPLE.
2. TYPICAL MOUNTING METHOD FOR ELECTRICAL RECEPTACLES ON LADDER TRAY.
3. EC TO DETERMINE BEST MOUNTING METHOD FOR THE APPLICATION.
4. EC SHALL PROVIDE ALL ELECTRICAL EQUIPMENT AND MOUNTING HARDWARE.

B1 TWIST LOCK MOUNTING ABOVE CABINET AND RACK
N.T.S.

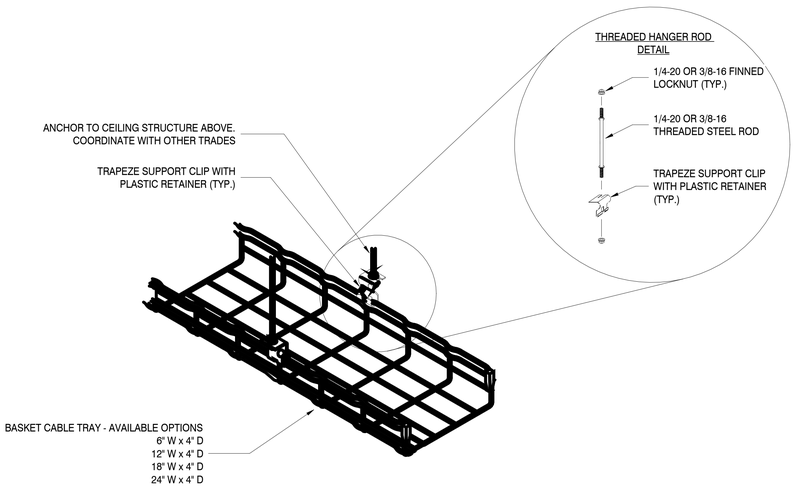


B3 RACK MOUNTED PDU IN IDF - TYPICAL MOUNTING DETAIL
1/2" = 1'-0"



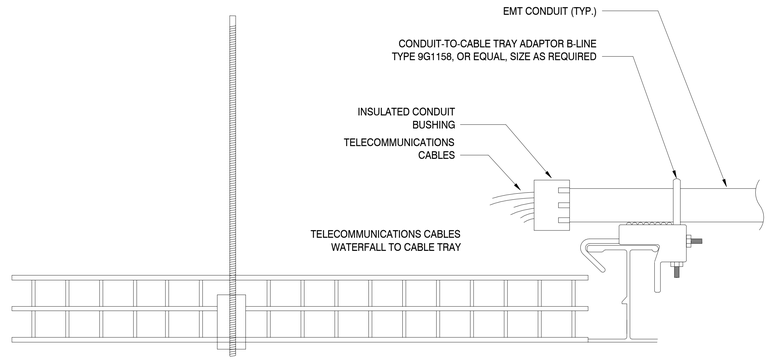
NOTES:
1. CLEAN SURFACES TO BARE METAL. THE PAINT SHALL BE REMOVED FROM ALL BONDING CONTACT AREAS
2. PROVIDE AND INSTALL WITH CADIUM PLATED BOLTS, NUTS AND WASHERS AS REQUIRED.
3. APPLIES TO ALL GROUNDING CONNECTIONS, WHETHER ON THE CABLE TRAY/ RACK/ CABINET OR GROUND BAR END

B5 TYPICAL GROUND CONNECTION DETAIL
N.T.S.

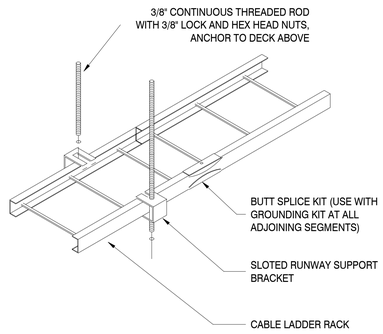


NOTES:
1- BASKET TRAY SIZE SHALL BE COORDINATED WITH CABLE DATA REQUIREMENTS PER ANSI STANDARDS AND SHOULD NOT EXCEED 40% FILL RATIO
2- FINAL PLACEMENT OF CABLE TRAY SHALL BE COORDINATED WITH LOW VOLTAGE CONTRACTOR AND ELECTRICAL CONTRACTOR.
3- CABLE TRAY SHALL NEAR ONE SIDE OF CORRIDOR AS HIGH AS POSSIBLE WITHIN THE SPACE.
4- ALL ACCESSORIES SHALL BE INCLUDED TO BE PROVIDED FOR A COMPLETE AND FUNCTIONAL CABLE TRAY PATHWAY.
5- CABLE TRAY MAY BE WHITE, BLACK OR METALLIC FINISH PENDING CLIENT APPROVAL.
6- BASKET TRAY LINER MAY BE PLACED IN TRAY TO COVER ASSORTED CABLE COLORS

E1 BASKET TRAY - TYPICAL DETAIL
1/2" = 1'-0"



E3 CONDUIT TO BASKET TRAY - TYPICAL DETAIL
1/2" = 1'-0"



E5 LADDER RACK - TYPICAL DETAIL
1/2" = 1'-0"

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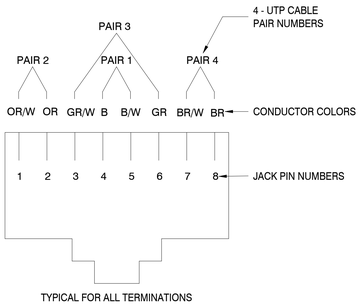
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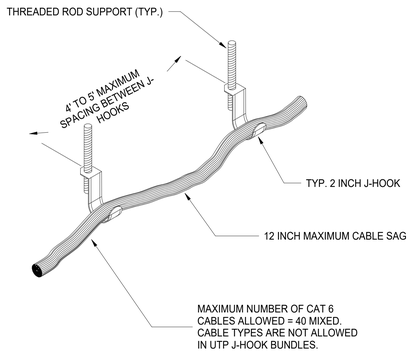
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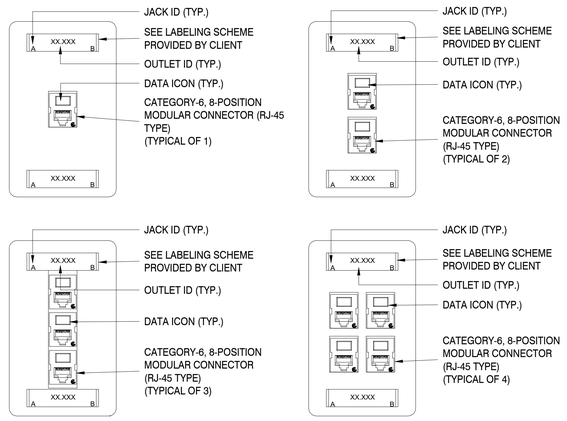


B1 | STANDARD WIRING FOR TIA-568B
1/2" = 1'-0"



NOTE: 1- CONDUIT SIZE 1-INCH EMT UON.

B2 | J-HOOK - TYPICAL DETAIL
1/2" = 1'-0"



NOTE: WORKSTATION DATA OUTLETS AND IT ROOM PATCH PANEL LABELING NOMENCLATURE TO BE IDENTICAL (CLIENT TO PROVIDE NOMENCLATURE)

SELECT FACEPLATE PORT COUNT BASED ON QUANTITY OF CABLES PROVIDED TO EACH OUTLET LOCATION UON.

B4 | FACE PLATE - TYPICAL DETAIL
1/2" = 1'-0"

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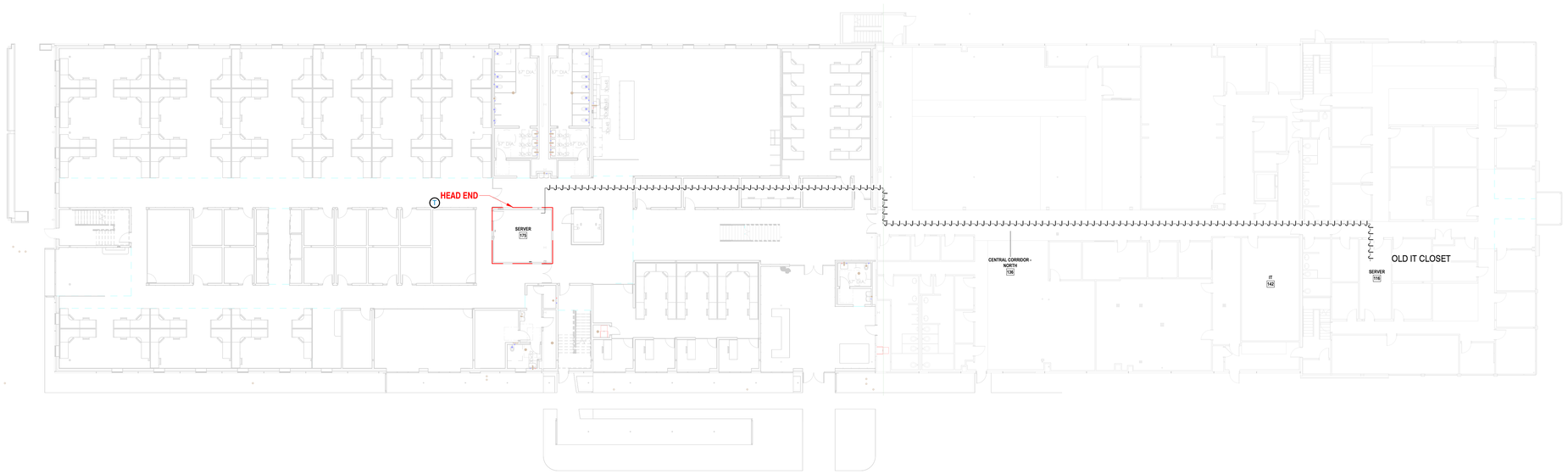
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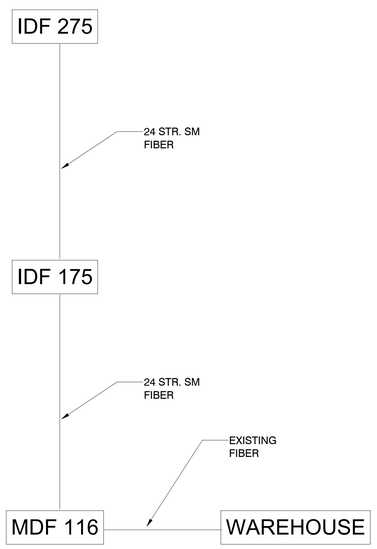
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TELECOM DETAILS

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TT.011



C1 | TT - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN PATHWAYS
1/16" = 1'-0"



E1 | TELECOM BACKBONE RISER
1" = 1'-0"

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TELECOM PRIMARY PATHWAYS + RISER PLANS - ZONE B - PHASE 1

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TELECOM SET SYMBOL LEGEND	
AV 2	AUDIOVISUAL DEVICE- 2 DATA PORT
RS 1	ROOM SCHEDULER- 1 DATA PORT
CM 1	CEILING MOUNTED CAMERA- 1 DATA PORT
CM 1	WALL MOUNTED CAMERA- 1 DATA PORT
	TELECOM DATA- 1 DATA PORT
WAP	WIRELESS ACCESS POINT DEVICE



E1 TT - ZONE B - LEVEL 01 - PHASE 1 - FLOOR PLAN
1/8" = 1'-0"

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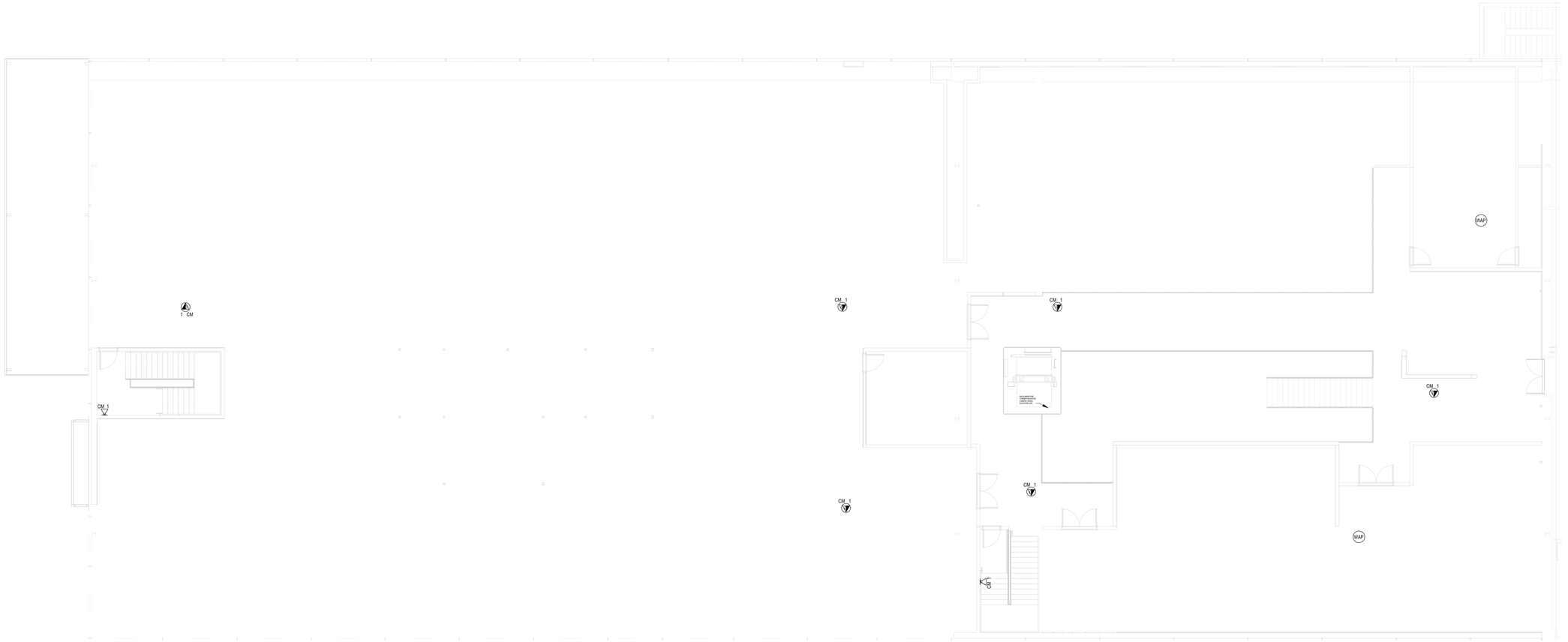
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TELECOM DEVICE PLAN - LEVEL 01 - PHASE 1

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TT.200

TELECOM SET SYMBOL LEGEND	
AV 2	AUDIOVISUAL DEVICE- 2 DATA PORT
RS 1	ROOM SCHEDULER- 1 DATA PORT
CM 1	CEILING MOUNTED CAMERA- 1 DATA PORT
CM 1	WALL MOUNTED CAMERA- 1 DATA PORT
	TELECOM DATA- 1 DATA PORT
WAP	WIRELESS ACCESS POINT DEVICE



E1 | TT - ZONE B - LEVEL 02 - PHASE 1 - FLOOR PLAN
1/8" = 1'-0"

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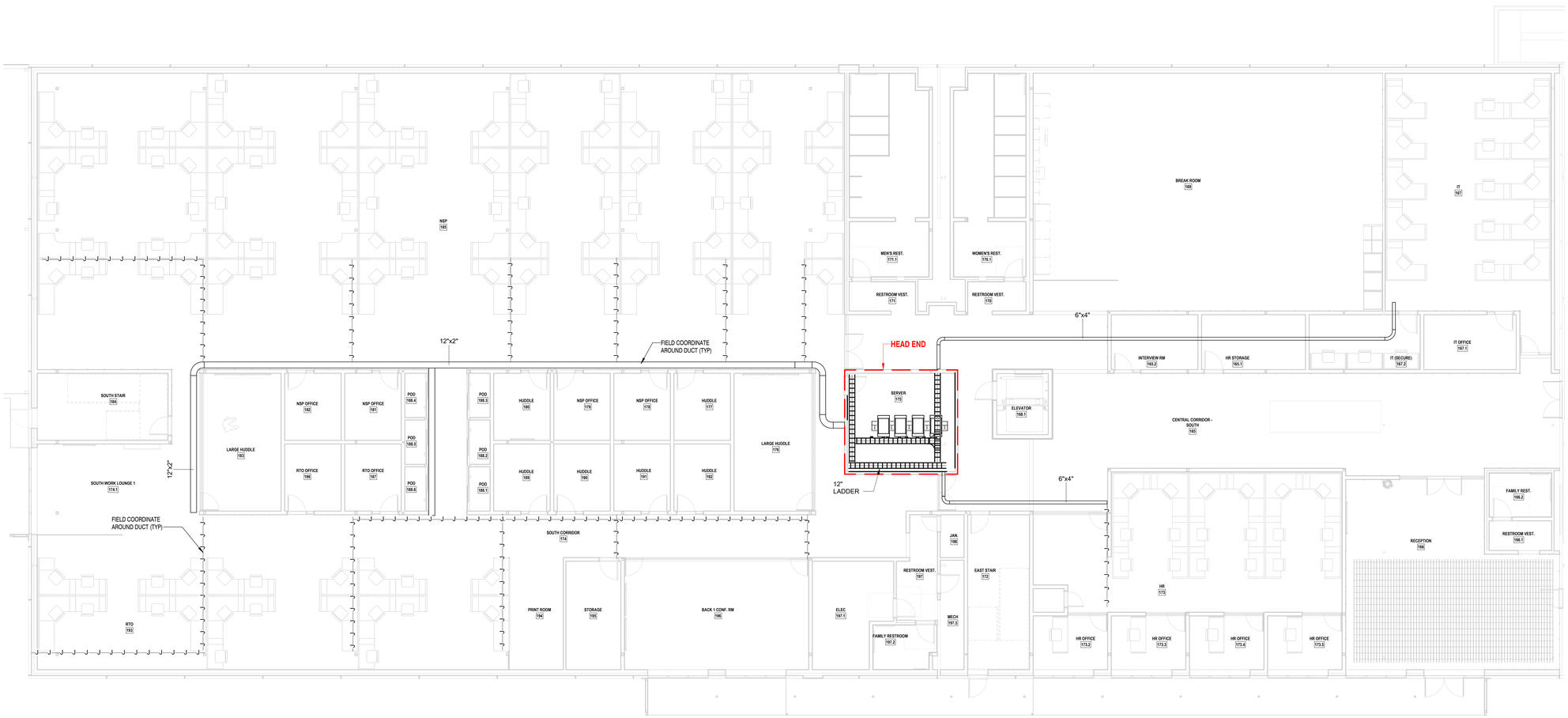
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TELECOM DEVICE PLAN - LEVEL 02 - PHASE 1

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E1 TT - ZONE B - LEVEL 01 - PHASE 1 - RCP
1/8" = 1'-0"

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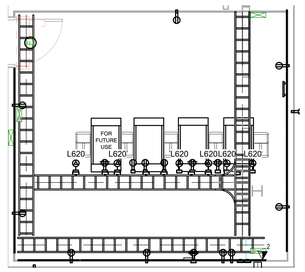
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TELECOM REFLECTED CEILING PLAN - LEVEL 01 - PHASE 1

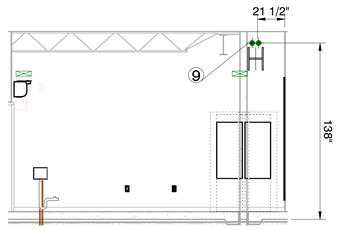
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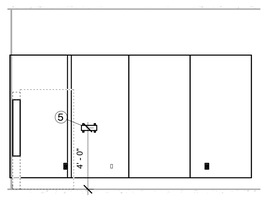
TELECOM SET KEYNOTE LEGEND	
1	4 POST RACK 45RU 30" DEEP
2	QUAD OUTLET
3	12" VERTICAL CABLE MANAGER
4	HORIZONTAL 1RU CABLE MANAGER
5	12" X 4" GROUNDING BAR
6	12" X 4" CABLE TRAY
7	APC RACK MOUNTED PDU 2G SWITCHED
8	3/4" FIRE RATED PLYWOOD BACKBOARD
9	4" SLEEVES
10	



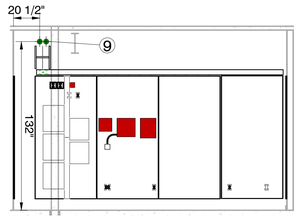
B1 LEVEL 1 IDF ROOM PART PLAN
1/4" = 1'-0"



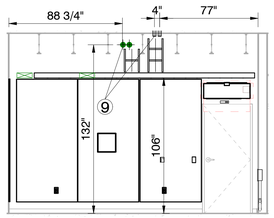
B2 IDF- 1ST FLOOR NORTH WALL
1/4" = 1'-0"



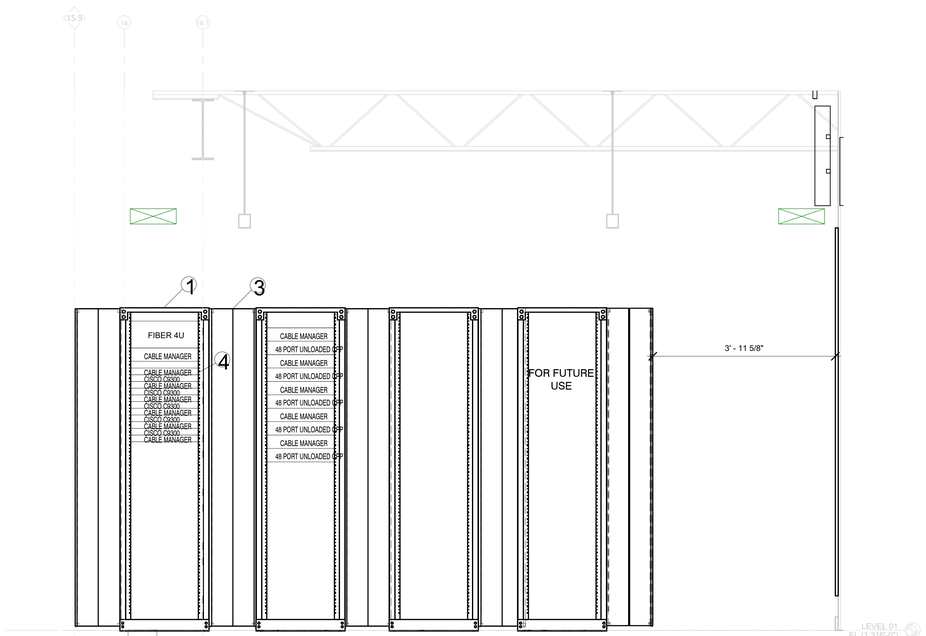
B3 IDF 1ST FLOOR EAST WALL
1/4" = 1'-0"



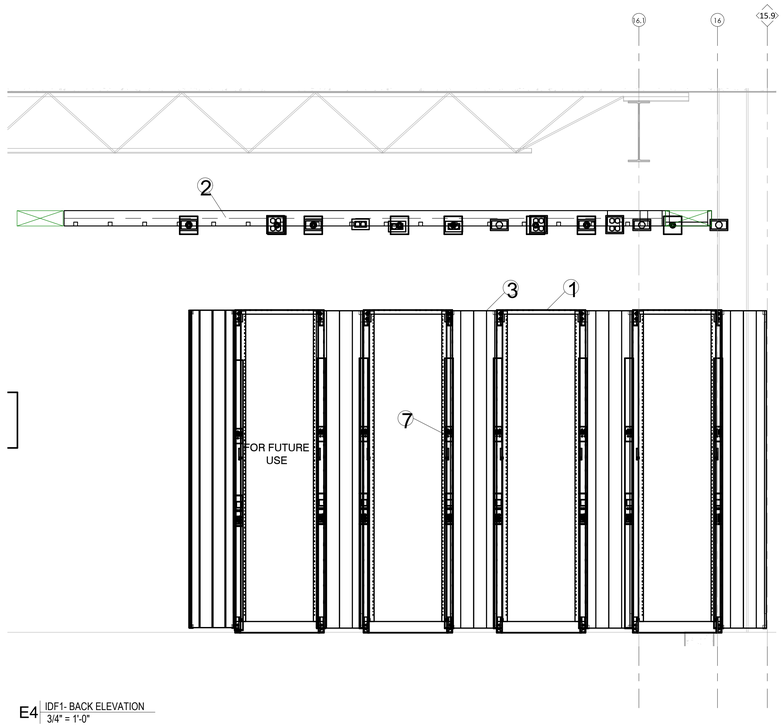
B4 IDF 1ST FLOOR SOUTH WALL
1/4" = 1'-0"



C1 IDF 1ST FLOOR WEST WALL
1/4" = 1'-0"



E1 IDF1- FRONT ELEVATION
3/4" = 1'-0"



E4 IDF1- BACK ELEVATION
3/4" = 1'-0"

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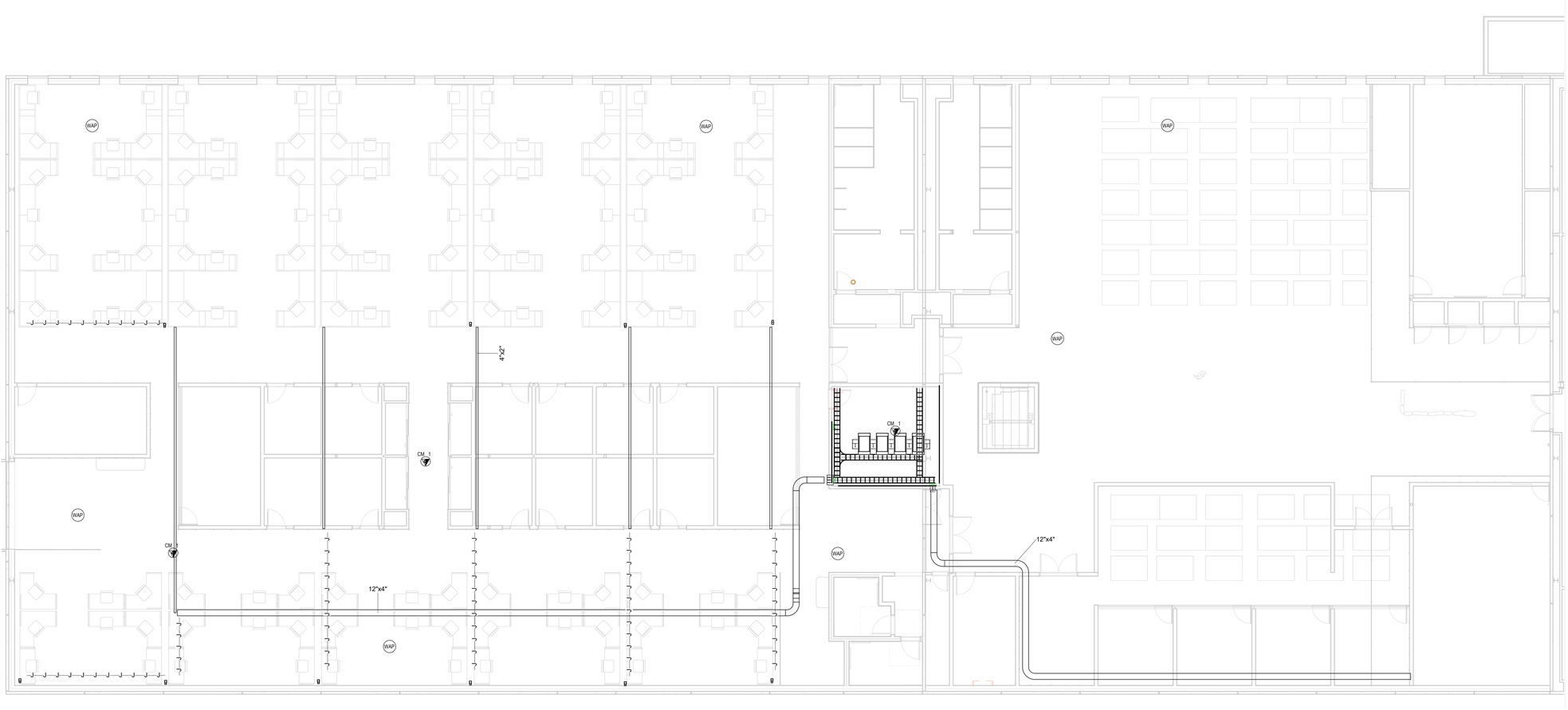
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TELECOM IDF/MDF PART PLANS - LEVEL 01 - PHASE 1

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project: 136343

TT.400

SHEET NOTE:

CABLES TO LIBRARY ARE TO BE PULLED FROM EXISTING IDF CLOSET LOCATED ON 2ND FLOOR



E1 TT - ZONE B - LEVEL 02 - PHASE 2 - RCP
1/8" = 1'-0"

issue for review:	2026.08.05
issue for pricing:	2026.09.11
issue for construction:	

revisions:

mark	date	description

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contents.
TELECOM REFLECTED CEILING PLAN - LEVEL 02 - PHASE 2

design. ISSUE FOR PRICING
date. 2026.09.11
project. 136343

TTT.301

TELECOM SET KEYNOTE LEGEND	
1	4 POST RACK 45RU 30" DEEP
2	QUAD OUTLET
3	12" VERTICAL CABLE MANAGER
4	HORIZONTAL 1RU CABLE MANAGER
5	12" X 4" GROUNDING BAR
6	12" X 4" CABLE TRAY
7	APC RACK MOUNTED PDU 2G SWITCHED
8	3/4" FIRE RATED PLYWOOD BACKBOARD
9	4" SLEEVES
10	

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issue for pricing: 2026.09.11
issue for construction:
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mark date description

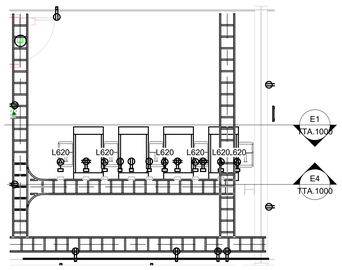
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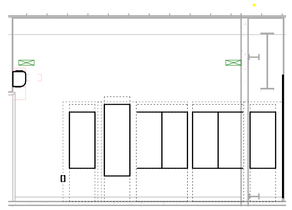
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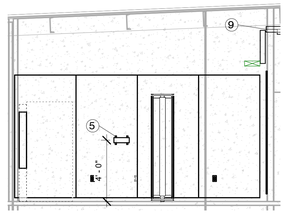
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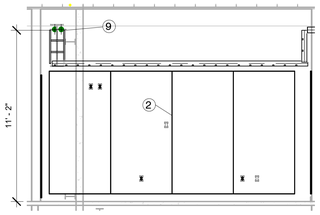
B1 SERVER - 275 - IDF 2
1/4" = 1'-0"



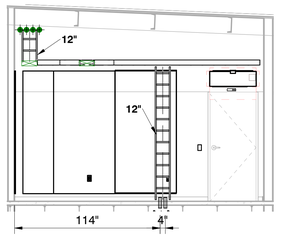
B2 IDF- 2ND FLOOR NORTH WALL
1/4" = 1'-0"



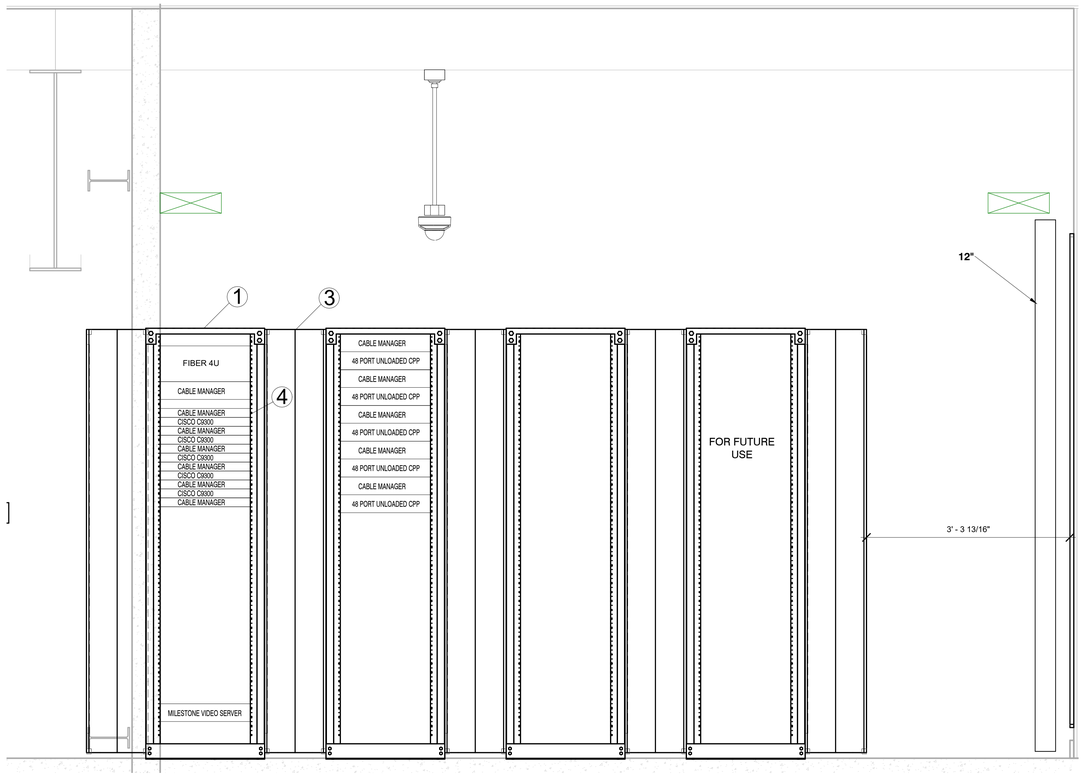
B3 IDF-2ND FLOOR EAST WALL
1/4" = 1'-0"



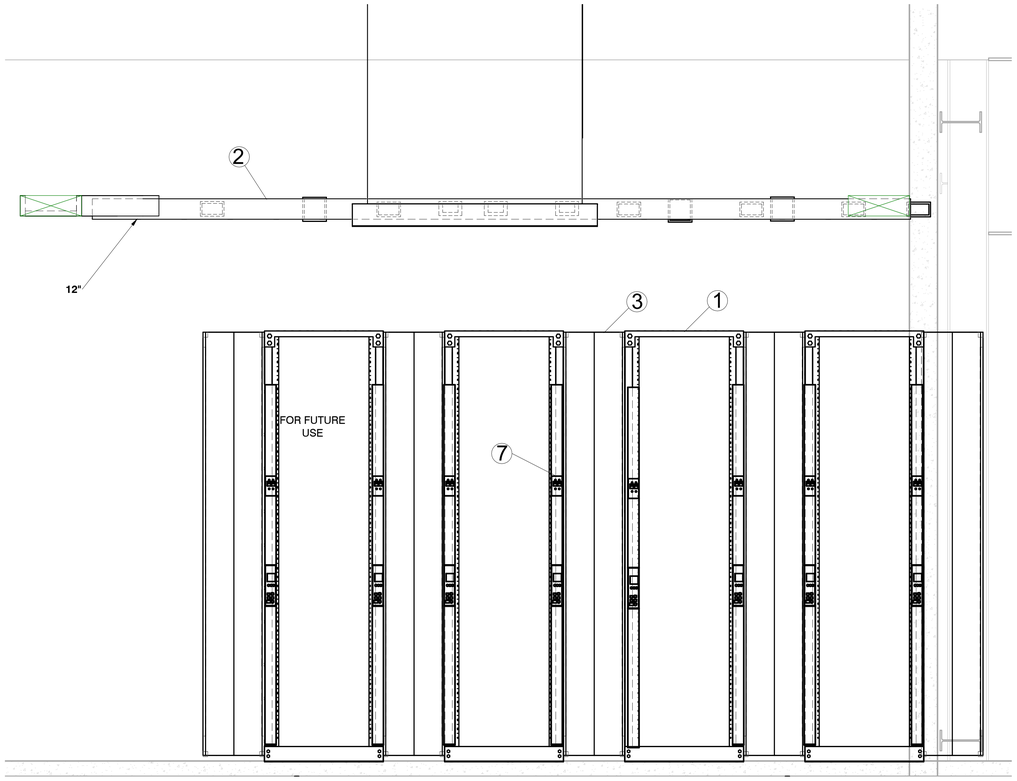
B4 IDF-2ND FLOOR SOUTH WALL
1/4" = 1'-0"



B5 IDF-2ND FLOOR WEST WALL
1/4" = 1'-0"



E1 IDF2-FRONT ELEVATION
1" = 1'-0"



E4 IDF2-BACK ELEVATION
1" = 1'-0"

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TELECOM IDF/MDF PART PLANS - LEVEL 02 - PHASE 2

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