

AIA DOC. A701 INSTRUCTIONS TO BIDDERS AND A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THIS CONTRACT.

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL, THE DRAWINGS AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
- THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK CAN BE CONSTRUCTED AS SHOWN. VERIFY LOCATIONS OF LIGHT FIXTURES, FIRE DAMPERS, ELECTRICAL OUTLETS, EXIT LIGHTS, SPRINKLER SYSTEM AND OTHER NECESSARY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT. SHOULD A CONFLICT OF REQUIREMENTS EXIST IN THE SPECIFICATIONS AND/OR DRAWINGS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY, PRIOR TO THE PERFORMANCE OF ANY WORK.
- THE CONTRACTOR SHALL BRING ALL REQUIRED UTILITY WORK WHICH HAS NOT BEEN NOTED IN THE CONSTRUCTION DOCUMENTS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, PRIOR TO THE PERFORMANCE OF ANY WORK.
- TYPICAL OR TYP SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEPT AND NOTED TYP ONLY ONCE, WHEN THEY FIRST OCCUR.
- WORK AREAS ARE TO REMAIN SECURE AND LOCKABLE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS, AND COMPLY WITH THE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, OR LOCAL) GOVERNING THE WORK. IN THE CASE OF AN OVERLAP IN THE GOVERNING CODES, THE MOST STRINGENT SHALL APPLY.
- IF GOVERNING JURISDICTION HAS DETERMINED FROM LOCATIONS SHOWN ON ARCHITECTURAL DOCUMENTATION, VERIFY CHANGE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- SOME PRODUCTS ARE SPECIFIED BY MANUFACTURER'S NAME AND MODEL NUMBER. THIS IS INTENDED TO ESTABLISH QUALITY DESIRED. PRODUCTS THAT ARE "EQUAL TO" WILL BE CONSIDERED. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT PROOF, IF REQUIRED, OF THE SUBSTITUTIONS TECHNICAL CHARACTERISTICS WHICH MAKE IT EQUAL TO THOSE OF THE PRODUCT SPECIFIED.
- ALL WORK SHALL BE COORDINATED WITH THE LANDLORD INCLUDING: SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, AND BUILDING ACCESS. DURING ALL PHASES OF WORK, MINIMUM DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS IS ESSENTIAL. ALL WORK INVOLVING EXCESSIVE NOISE, CORING OR X-RAYING MUST BE DONE AFTER HOURS.
- DRAWINGS ARE NOT TO BE SCALED.
- ALL DIMENSIONS ARE FROM FACE OF FINISH, FACE OF CONCRETE OR CENTER OF OBJECT UNLESS OTHERWISE NOTED.
- WITHIN THE LIMITS OF CONSTRUCTION, PATCH AND REPAIR ALL EXISTING WALLS AND SURFACES TO MEET APPLICABLE BUILDING CODES, AND TO MATCH EXISTING ADJACENT SURFACES WHERE POSSIBLE.
- TAS COMPLIANCE SHEETS (SEE SHEET LIST) ARE PROVIDED TO GIVE SUPPLEMENTAL INFORMATION SPECIFIC TO TEXAS ACCESSIBILITY STANDARD REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS FOR THE PROJECT WITH THE INFORMATION CONTAINED ON THESE SHEETS.

MANUFACTURER'S CERTIFICATE

- SUBMIT PDF OF CERTIFICATES FOR THE ARCHITECT AND CONTRACTOR. INCLUDE ORIGINAL SIGNATURE.

WARRANTY AND OPERATION

- ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED PER MANUFACTURER'S INSTRUCTION. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- ANY CONFLICTS BETWEEN OUR DRAWINGS OR SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS SHALL BE BROUGHT TO OUR ATTENTION FOR RESOLUTION BY THE CONTRACTOR AND SUB-CONTRACTORS. OUR INTENT IS THAT THERE BE NO CONFLICTS WITH MANUFACTURER'S RECOMMENDATIONS.

SHOP DRAWINGS

- SUBMIT PDF OF ALL SHOP DRAWINGS. AFTER REVIEW, REPRODUCE AND DISTRIBUTE ANY ADDITIONAL COPIES THAT MAY BE REQUIRED. SHEET SIZE: 8 1/2" X 11" MINIMUM, 30" X 42" MAXIMUM.

SUBMITTALS

- THE ARCHITECT'S REVIEW OF SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT DOCUMENTS OR IMPLY APPROVAL OF CHANGES TO THE CONTRACT DOCUMENTS, WHETHER OR NOT SUCH NONCONFORMANCE IS DISCOVERED IN THE SUBMITTALS.
- PRIOR TO COMMENCING SUBSTANTIAL PORTIONS OF THE WORK, PREPARE A MASTER SUBMITTAL LOG SHOWING EACH REQUIRED SUBMITTAL AND SPECIFICATION SECTION NUMBER, THE PROPOSED SCHEDULE AND SEQUENCING OF SUBMITTALS, AND EACH AFFECTED CONTRACTOR. MAINTAIN THE LOG CURRENT WITH THE PROGRESS OF THE WORK. PROVIDE A COPY OF THE INITIAL AND UPDATED LOG TO THE ARCHITECT.
- CONTRACTOR TO REVIEW SUBMITTALS TO VERIFY FOR COMPLIANCE AND INDICATE RESULTS OF REVIEW PRIOR TO SUBMITTING TO ARCHITECT.
- TRANSMIT EACH ITEM UNDER AIA FORM 810 OR A SIMILAR FORM. NUMBER EACH SUBMITTAL CONSECUTIVELY BASED UPON SPECIFICATION SECTION NUMBERS (I.E. 06400-1, 06400-2, 06400-3, ETC.) ATTACH OR INCLUDE A COVER WITH CONTRACTORS REVIEW STAMP, AND SIGN.
- IDENTIFY PROJECT CONTRACTOR, SUBCONTRACTOR, MAJOR SUPPLIER, AND GENERIC NAME OF COMPONENT SYSTEM. ALLOW SPACE ON THE COVER SHEET TO ACCOMMODATE REQUIRED STAMPS BY EACH REVIEWER. PROVIDE ADDITIONAL SHEETS IF NECESSARY.
- IDENTIFY DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS AND INCLUDE A STATEMENT OF REASONS FOR DEVIATION. PROCESS IN ACCORDANCE WITH SECTION 01600 OF STANDARD SPECIFICATIONS.
- AFTER REVIEW OF SUBMITTAL, REVISE AND RESUBMIT IF SO INDICATED. IDENTIFY CHANGES MADE SINCE PREVIOUS SUBMITTAL.
- DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO CONCERNED CONTRACTORS. INSTRUCT RECIPIENTS TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH PROVISIONS.
- MAKE SUBMITTALS FAR ENOUGH IN ADVANCE OF SCHEDULED INSTALLATION DATES TO PROVIDE TIME REQUIRED FOR REVIEWS, FOR SECURING NECESSARY APPROVALS, FOR POSSIBLE REVISIONS AND RESUBMITTALS, AND FOR PLACING ORDERS AND SECURING DELIVERY.
- SUBMITTALS PROVIDED FOR WORK AND FOR WHICH NO REQUIREMENT FOR SUBMITTALS IS STATED IN THE DRAWINGS OR SPECIFICATIONS WILL BE RETURNED WITHOUT REVIEW.

REQUEST FOR SUBSTITUTIONS

- SUBMIT SEPARATE REQUESTS FOR EACH PRODUCT AND SUPPORT EACH REQUEST WITH:
 - PRODUCT IDENTIFICATION.
 - MANUFACTURER'S LITERATURE.
 - SAMPLES, AS APPLICABLE.
 - NAME AND ADDRESS OF SIMILAR PROJECTS ON WHICH PRODUCT HAS BEEN USED, AND DATE OF INSTALLATION.
- REASON FOR SUBSTITUTION
- ITEMIZE A COMPARISON OF THE PROPOSED SUBSTITUTION WITH PRODUCT SPECIFIED AND LIST SIGNIFICANT VARIATIONS.
- SUBMIT DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE.
- NOTE ANY EFFECT OF SUBSTITUTION ON THEIR WORK OR PRODUCTS OR ON SEPARATE CONTRACTS.
- INCLUDE ACCURATE COST COMPARISON OF PROPOSED AND ARCHITECT SPECIFIED ITEMS.
- SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN:
 - THEY ARE INDICATED OR IMPLIED ON SUBMITTALS WITHOUT A FORMAL REQUEST.
 - ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISIONS OR DRAWINGS AND SPECIFICATIONS.
- DO NOT ORDER OR PROVIDE SUBSTITUTE PRODUCTS WITHOUT APPROVAL.
- BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL DEMOLITION NOTES

- REMOVE ALL WALLS, CABINETS AND DOORS SHOWN DASHED ON DEMOLITION PLAN. REMOVE DESIGNATED COMPONENTS, BUILDING EQUIPMENT, FIXTURES ETC. AS REQUIRED FOR NEW CONSTRUCTION. ALL EXISTING CONSTRUCTION IS TO REMAIN UNLESS NOTED OTHERWISE.
- THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON THE JOB SITE. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL ISOLATE THE AFFECTED AREA AND CONTACT BUILDING MANAGEMENT FOR FURTHER INSTRUCTIONS BEFORE PROCEEDING.
- COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
- DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS OR TENANTS, MAINTAIN FREE AND SAFE PASSAGE TO AND FROM.
- PROVIDE, ERECT AND MAINTAIN BARRICADES, LIGHTING AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
- ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FLAMES AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. UPON COMPLETION REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
- REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR RESTORING DAMAGES INCURRED THROUGH THE RELOCATION AND/OR REMOVAL OF ANY MATERIALS OR EQUIPMENT AND FOR PROVIDING ANY MODIFICATIONS NECESSARY TO REINSTALL MATERIALS OR EQUIPMENT IN THEIR NEW AND PROPER CONFIGURATION.
- REMOVE FROM SITE AND LEGALLY DISPOSE OF DAILY ALL REFUSE, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. BURNING OF DEBRIS ON SITE IS NOT PERMITTED.
- REMOVE TOOLS AND EQUIPMENT FROM SITE UPON COMPLETION OF WORK. LEAVE CONTRACT AREAS AND SITE CLEAN, ORDERLY AND IN A CONDITION ACCEPTABLE FOR NEW OR OTHER CONSTRUCTION.
- WHERE EXISTING WALLS ARE TO BE REMOVED, PATCH AND REPAIR REMAINING WALLS TO MATCH AS REQUIRED. WHERE WALLS ARE REMOVED AT WALL PANELS, REPLACE ALL PANELS DAMAGED BY DEMOLITION. CAREFULLY PEEL BACK EXISTING WALL COVERINGS 2'-0" OR TO THE NEAREST JOINT ON EACH SIDE AND REMOVE PORTION OF WALL REQUIRED TO INSTALL NEW DOOR AND FRAME.

ARCHITECTURAL WOODWORK

- STANDARDS: THE "QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE SHALL APPLY AND BY REFERENCE ARE HEREBY MADE A PART OF THIS SPECIFICATION. ANY REFERENCE TO PREMIUM OR CUSTOM IN THIS SPECIFICATION SHALL BE AS DEFINED IN THE LATEST EDITION OF THE AIA "QUALITY STANDARDS". ANY ITEM NOT GIVEN A SPECIFIC QUALITY GRADE SHALL BE CUSTOM GRADE AS DEFINED IN THE LATEST EDITION OF THE AIA "QUALITY STANDARDS".
- SHOP DRAWINGS: SUBMIT SHOP DRAWINGS
- SAMPLES: SUBMIT THREE (3) SAMPLES OF EACH WOOD SPECIES WHICH IS TO RECEIVE TRANSPARENT FINISH AT SITE, AS REQUESTED BY THE ARCHITECT.
- FIELD DIMENSIONS: SUBCONTRACTOR SHALL FIELD MEASURE ALL CRITICAL DIMENSIONS AND VERIFY FIT OF ALL APPLIANCES, PLUMBING FIXTURES, LIGHT FIXTURES, ETC. TO GUARANTEE PROPER FIT AND OPERATION OF ALL WOOD WORK.
- ALL MATERIAL SHALL BE CLEAN AND CLEAR, WITH NO VISIBLE GAP OR DEFECTS, FACE SURFACES SHALL BE OF CLOSELY MATCHING APPEARANCE. BLOCK DOOR JAMBS BEHIND BUTTS.
- CABINETS SHALL BE DELIVERED TO JOB SITE AND PROPERLY PROTECTED UNTIL INSTALLATION AND FINISHING. INSTALLATION SHALL BE PERFORMED BY THE TRIM CREW.
- ALL PLYWOOD IN CABINETS TO BE EDGED WITH 1/2" EDGE BAND ON ALL EXPOSED SIDES. EDGE MATERIAL TO MATCH PLYWOOD FACE MATERIAL.
- AIA QUALITY GRADE, CUSTOM
 - CONSTRUCTION: DETAILS SHALL CONFORM TO REVEAL OVERLAY DESIGN
 - EXPOSED SOLID WOOD PARTS: RED OAK.
 - EXPOSED PLYWOOD PARTS: BIRCH.
 - SEMI-EXPOSED PARTS: AS GOVERNED BY SELECTED AIA QUALITY GRADE
- HARDWARE
 - DRAWER SLIDES: K&V 1300; RABBIT CONNECTIONS, GLUE WITH CONCEALED FASTENINGS OR AS SUPPLIED BY PREMANUFACTURED CABINET SUPPLIER.
 - ADJUSTABLE SHELVES: K & V 250; PLASTER STANDARDS AND 256 SUPPORTS. FLUSH SIDE MOUNTED, BRONZE FINISH
 - HINGES: SEMI-CONCEALED OR FULLY CONCEALED FOR FLUSH OVERLAY DESIGNS.

PARTITION NOTES

- ALL DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF PARTITION OR AS INDICATED. BUILDING STANDARD PARTITIONS SHALL BE CONSTRUCTED OF 2" METAL STUDS AT 24" ON CENTER WITH 1" ONE HOUR FIRE RESISTANT GYPSUM BOARD ON EACH SIDE.
- PARTITIONS SPECIFIED TO TERMINATE AT THE CEILING GRID ARE TO BE CONSTRUCTED SO AS TO HAVE THE TOP OF THE PARTITION FLUSH WITH THE BOTTOM EDGE OF THE GRID. RIBBONING EDGES WILL BE REJECTED. TOP OF THE PARTITION IS TO BE FINISHED WITH RACO OR FRAMEWORKS 1" BLACK EXTRUDED ALUMINUM HEAD TRACK. CEILING TILES IS TO BE RABBETED TO FIT TO TOP OF PARTITION AND LAY PROPERLY INTO CEILING GRID.
- ALL DEMISING WALLS AND NEW SHALL EXTEND TO DECK WITH SOUND ATTENUATION ON BOTH SIDES. PARTITIONS TO BE FINISHED WITH RACO OR FRAMEWORKS 1" BLACK "PR-21" REVEAL MOLDING.
- PROVIDE BRACING ABOVE CEILING HEIGHT PARTITIONS AT LONG UNBRACED LENGTHS, WHERE APPLICABLE AND AT ALL DOOR AND GLAZING OPENING JAMBS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NON-COMBUSTIBLE 2x4 HORIZONTAL AND VERTICAL BLOCKING AS REQUIRED TO SUPPORT AT ALL MILLWORK INSTALLATION LOCATIONS.
- ALL NEW OR MODIFIED FIRE WALLS AND SMOKE WALLS SHALL BE LABELED ABOVE CEILING AT 28 O.C. WITH LETTERING NOT LESS THAN 0.5 INCH HEIGHT "FIRE AND/OR SMOKE BARRIER, PROTECT ALL OPENINGS". ALL NEW AND EXISTING PENETRATIONS INTO RATED WALLS SHALL BE SEALED TO MAINTAIN RATING. FIELD VERIFY EXISTING CONDITIONS.
- ALL PARTITION RETURNS SHALL HAVE METAL CORNER BEADS FLOOR TO CEILING. ALL EXPOSED GYPSUM BOARD EDGES SHALL HAVE 1" BEADS FLOOR TO CEILING. WALL ENDS AT WINDOW MULLIONS TO BE FINISHED WITH RACO OR FRAMEWORKS 1" BLACK EXTRUDED ALUMINUM, END CAP CASING. AIR SPACE BETWEEN MULLION AND WALL END TO BE CLOSED WITH NEOPRENE GASKET TO REDUCE SOUND TRANSMISSION.
- SOUND INSULATION (WHERE SPECIFIED) SHALL BE EITHER BLANKET OR BATT TYPE IN WIDTHS NECESSARY TO FILL THE DESIGNATED STUD SPACES. US GYPSUM THERMAFIBER SOUND ATTENUATION BLANKETS OR APPROVED EQUIVAL. OWENS CORNING FIBERGLASS CORP. - FIBERGLASS NOISE BARRIER BATTS OR APPROVED EQUIVAL.

DRYWALL NOTES

- ALL VERTICAL AND HORIZONTAL EXTERNAL CORNERS OF GYPSUM BOARD SHALL HAVE CORNER REINFORCEMENTS PROVIDED. INSTALL CORNER BEADS WITH SUITABLE FASTENERS SPACED 9" ON CENTER MAXIMUM. INSTALL CASING BEADS WHERE GYPSUM SURFACES TERMINATE OR MEET DISSIMILAR MATERIALS.
- ALL JOINTS, SCREWS, OR OTHER DEPRESSIONS IN SURFACES OF GYPSUM WALLBOARD SHALL BE TREATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS USING TAPE SYSTEM. ALL JOINTS EXCEPT AS OTHERWISE NOTED, SHALL BE TAPE, BEDDED, AND SANDED SMOOTH, READY FOR A FINISHED WALL TREATMENT.
- FINISHED JOINTS SHALL NOT BE LESS THAN 14" IN WIDTH. JOINTS OF WALLBOARD ABOVE CEILING ARE REQUIRED TO BE TAPED ONLY UNLESS OTHERWISE REQUIRED BY FIRE OR SOUND RATINGS.
- FINISH DRYWALL CONSTRUCTION SHALL BE FREE OF NOTICEABLE DEFECTS WHICH INCLUDE JOINT REDGING, STAVED JOINTS, BOARD EDGES DAMAGED OR OUT OF PLANE, JOINT BUSTERS, NAIL POPS, PIN HOLES OR ANY OTHER NOTICEABLE DEFECT. FINISH WALLS SHALL BE TRUE TO LINE, PERFECTLY SMOOTH AND READY TO RECEIVE FINISH MATERIAL.

PATCHING

- PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE. COMPLY WITH SPECIFIED TOLERANCES.
- WHERE FEASIBLE, INSPECT AND TEST PATCHED AREAS TO DEMONSTRATE INTEGRITY OF THE INSTALLATION. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. WHERE REMOVAL OF WALLS OR PARTITIONS EXTENDS ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE TO PROVIDE AN EVEN SURFACE OF UNIFORM COLOR AND APPEARANCE. REMOVE EXISTING FLOOR AND WALL COVERINGS AND REPLACE WITH NEW MATERIALS, IF NECESSARY TO ACHIEVE UNIFORM COLOR AND APPEARANCE.
- WHERE PATCHING OCCURS IN A SMOOTH PAINTED SURFACE, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN AREA CONTAINING THE PATCH. AFTER THE PATCHED AREA HAS RECEIVED PRIMER AND SECOND COAT.

PAINT/WALLCOVERING FINISH NOTES

- APPLICATION: (TAPE ALL EDGES OF GYPSUM BOARD.) PREPARE SAMPLES UNDER SPECIFIED LIGHT. RESUBMIT AS REQ'D. FOR ACCEPTABLE SHEEN, COLOR & TEXTURE.
- APPLICATOR SHALL INSPECT ALL SURFACES SCHEDULED TO RECEIVE NEW FINISH. TAPE JOINTS AND INDENTATIONS SHALL NOT TELESCOPE" OR READ THROUGH THE PAINT FINISH AND WALLCOVERING. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- REFER TO MANUFACTURER'S SPECIFICATIONS WHEN APPLYING SPECIALTY PAINT AND WALLCOVERINGS.
- APPLICATOR SHALL USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND WILL APPLY FINAL FINISH COAT AS RECOMMENDED BY THE MANUFACTURER TO MATCH ARCHITECT SPECIFIED FINISH. TINT PRIMER COAT TOWARD FINAL COLOR. SEALER/PRIMER SHALL BE ROLL APPLIED TO GYPSUM BOARD. SPRAY APPLICATION IS NOT ACCEPTABLE.
- BEFORE PAINTING WORK IS TO BEGIN, THE FOLLOWING ENVIRONMENTAL CONDITIONS SHALL BE PROVIDED:
 - MAINTAIN INTERIOR OF BUILDING SPACE WITH TEMPERATURE OF 50°F MIN. AND 85°F MAX. AND A RELATIVE HUMIDITY OF LESS THAN 70% FOR THREE DAYS PRIOR TO START OF PAINTING WORK DURING THE PAINTING PROCESS AND AFTER WORK COMPLETION.
 - LIGHTING IN ALL SPACES SHALL BE FULL FINAL ILLUMINATION LEVEL. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING WHERE REQUIRED.
- REMOVE OR PROVIDE SURFACE-APPLIED PROTECTION TO HARDWARE, HARDWARE ACCESSORIES, MACHINED SURFACES, PLATES, LIGHT FIXTURES AND OTHER FINISHES IN PLACES WHICH ARE NOT TO BE FINISHED PAINTED. FOLLOWING COMPLETION AND AFTER SURFACES ARE COMPLETELY DRY, REINSTALL REMOVED ITEMS AND/OR REMOVE PROTECTION.
- KEEP FREE OF PAINT ALL CODE-REQUIRED LABELS SUCH AS "ULL" AND FACTORY MUTUAL, OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME OR NOMENCLATURE PLATES.
- PAINT SHALL BE APPLIED BY SKILLED CRAFTSMEN AND SHALL BE FREE OF ALL RUNS, BRUSH MARKS, SAGS AND OTHER DEFECTS. ARCHITECT WILL REJECT SUCH DEFECTS.

PAINT/WALLCOVERING (CONTD')

- PROVIDE PAINT SYSTEMS FOR VARIOUS SUBSTRATES AS SCHEDULED ON FINISH PLANS. WORK SHALL BE 3-COATS QUALITY, USING COMPATIBLE PRIMERS ON SUBSTRATES, AS RECOMMENDED BY FINISH COAT MANUFACTURERS. WORK SHALL MATCH EXISTING WHERE APPLICABLE.
 - FERROUS METAL
 - 1ST COAT: METAL PRIMER - RUST INHIBITIVE
 - 2ND COAT: SEMI-GLOSS ALKYD ENAMEL
 - 3RD COAT: ALKYD ENAMEL
 - GYPSUM WALLBOARD (FINE TEXTURE)
 - 1ST COAT: PVA SEALER (ROLLER APPLIED)
 - 2ND/3RD COAT: 100% ACRYLIC ENAMEL
 - WOOD (OPAQUE)
 - 1ST COAT: ENAMEL UNDERCOAT
 - 2ND/3RD COAT: SEMI-GLOSS ALKYD ENAMEL
 - ALUMINUM (DOOR FRAMES)
 - 1ST COAT: CHROMATE METAL PRIMER
 - 2ND/3RD COAT: SEMI-GLOSS ALKYD ENAMEL

CARPET FINISH NOTES

- FOR CARPET PREPARATION, CLEAN FLOORS OF DUST, DIRT, SOLVENTS, OIL, GREASE, PAINT, PLASTER AND SUBSTANCES DETRIMENTAL TO PROPER PERFORMANCE OF ADHESIVE AND CARPET AS RECOMMENDED BY MANUFACTURER. ALLOW FLOORS TO THOROUGHLY DRY.
- USE AN APPROVED CEMENTITIOUS FILLER TO PATCH CRACKS, SMALL HOLES AND FOR LEVELING. ENSURE THAT FLOORS ARE LEVEL WITH MAXIMUM SURFACE VARIATION OF 1/4" IN 10 FEET, NONCUMULATIVE.
- COMPLY WITH MANUFACTURER'S PRINTED INSTRUCTIONS IN THE INSTALLATION OF THE CARPET.
- NEATLY TRIM CARPET EDGES FOR TIGHT FIT ALONG WALLS, CUT AND FIT EVENLY AROUND PROJECTIONS AND INTO TRIM STRIPS AND REVEALS. FIT CLOSELY AND EVENLY TO DOORWAYS, TERMINATING CARPET AT FRAMES. FINISHED INSTALLATION SHALL BE SMOOTH AND FREE OF RIPPLES AND PUCKERS.
- INSTALL RUBBER TRANSITIONS STRIP TO MATCH BASE WHERE CARPET MEETS ALL OTHER FLOORING MATERIAL.

RESILIENT BASE FINISH NOTES

- AREAS TO RECEIVE RESILIENT TILE SHALL HAVE BLDG STANDARD COVE BASE UNLESS OTHERWISE NOTED.
- FIT JOINTS TIGHT AND VERTICAL. INSTALL BASE IN LONGEST PRACTICAL LENGTH, USING ROLL STOCK.
- SCRIBE TO VERTICAL OBSTRUCTIONS.
- INSTALL ON CONTINUOUS SOLID BACKING. ADHERE TIGHTLY TO SUBSTRATE AND FLOOR USING MANUFACTURER'S RECOMMENDED ADHESIVE.

GENERAL FINISH NOTES

- REVIEW CONSTRUCTION NOTES BEFORE WORK.
- REVIEW FINISH SCHEDULE/FINISH PLAN BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS BETWEEN ACTUAL CONDITIONS AND FINISH LAYOUT.
- CONTRACTOR SHALL PREPARE SURFACES PER FINISH MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH
- ENSURE THAT SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE AND FREE OF IRREGULARITIES - DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. STARTING WORK SHALL INDICATE APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
- REPAIR & PREPARE EXISTING SURFACES AS REQUIRED FOR APPLICATION OF FINISHES.
- VERIFY FLOOR AREAS ARE ACCEPTABLE TO RECEIVE FLOOR FINISHES. CONCRETE FLOORS SHALL BE FREE FROM SCALING AND IRREGULARITIES AND SHALL EXHIBIT NEUTRALITY RELATIVE TO ACIDITY AND ALKALINITY.
- FLOOR FINISH TRANSITION TO OCCUR AT CENTERLINE OF DOOR OR CASING OPENING UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE FOR SILL DETAILS.
- INSPECT AREAS WHERE CARPET TRANSITIONS AT VCT FLOORING. FLASH PATCH AS REQUIRED TO SET TOP OF CARPET 1/4" ABOVE ADJACENT FINISH.

MECHANICAL NOTES

- CONTRACTOR SHALL SUBMIT LAYOUT OF DISTRIBUTION TO ARCHITECT FOR REVIEW
- RELOCATE ALL THERMOSTATS AS REQUIRED (4" A.F.F.)
- PROVIDE ALL EQUIPMENT, MATERIAL, HARDWARE, INCIDENTALS AND LABOR FOR COMPLETE HVAC SYSTEM
- COMPLY WITH ALL LOCAL COUNTY AND STATE GOVERNMENTAL CODES, ORDINANCES AND REGULATIONS AND UTILITY COMPANY STANDARDS. INCLUDE COMPLIANCE WITH LOCAL FIRE MARSHAL REQUIREMENTS AND N.F.P.A. STANDARDS.
- ALL DUCTWORK TO COMPLY WITH ASHRAE CONSTRUCTION STANDARDS FIELD INSPECT ALL EXISTING EQUIPMENT FOR PROPER MAINTENANCE AND OPERATION.
- REPAIR OR REPLACE DAMAGED EQUIPMENT TO ASSURE PROPER OPERATION.
- FIELD VERIFY SIZE AND LOCATION OF EXISTING UNITS/DUCTWORK
- PROJECT IS A COMPREHENSIVE MAKE-READY TO INCLUDE RELOCATION OF EXISTING HVAC AND/OR RETURN AIR GRILLS AS NECESSARY. UPGRADE AND ZONE HVAC AS REQUIRED FOR NEW LAYOUT (REFER TO PLANS FOR INCLUDED AREAS).

ELECTRICAL NOTES

- ALL OUTLET LOCATIONS TO REMAIN EXACTLY AS SHOWN, CONTACT ARCHITECT FOR APPROVAL OF LOCATION CHANGES.
- ALL TELEPHONE DATA AND ELECTRICAL OUTLETS TO BE MOUNTED 1'-3" A.F.F. (AS MEASURED TO THE BOTTOM OF THE PLATE) UNLESS OTHERWISE NOTED.
- ALL SWITCHES AND OUTLETS ARE TO BE GANGED AND COVERED WITH A CONTINUOUS PLATE. ALL SWITCHES TO BE 48" A.F.F., UN.C.
- ALL DIMENSIONS ARE TO CENTER POINT OF OUTLETS OR GROUPS OF OUTLETS. SPACING WITHIN A GROUP SHOULD BE 6" ON CENTER AND NO GREATER UNLESS APPROVED BY ARCHITECT.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL STRUCTURAL SYSTEMS WHERE CORING IS INDICATED ON THE PLANS. IF CONFLICT OCCURS, CONTACT THE ARCHITECT FOR DIRECTION PRIOR TO COMMENCEMENT OF WORK.
- SCOPE OF ELECTRICAL WORK IS TO BE BASED UPON THE OUTLET LOCATION PLAN TO DETERMINE THE TYPE, QUANTITY, AND LOCATIONS OF OUTLETS. REFER TO ELECTRICAL ENGINEERING PLANS FOR CIRCULATING INFORMATION AND COORDINATION WITH OTHER TRADES AND EQUIPMENT, IF APPLICABLE. IN CASE OF CONFLICT IN LOCATIONS, ARCHITECTURAL PLANS GOVERN.
- COMPLETE SYSTEM IN ACCORDANCE WITH CITY OF AUSTIN CODE, LOCAL ORDINANCES, AND NATIONAL ELECTRIC CODE.
- CONNECT NEW FIXTURES AS SCHEDULED TO EXISTING CONTROLS AND CIRCUITS CURRENTLY IN USE FOR THE FIXTURES BEING REPLACED.
- CONNECT NEW FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUITS TO ACHIEVE CODE REQUIRED LIGHT LEVELS IN CORRIDORS.
- ALL CONDUCTORS SHALL BE COPPER.

LIGHTING/ CEILING NOTES

- IF CONFLICT OCCURS BETWEEN LIGHT FIXTURES AND ANY BUILDING SYSTEM, CONTRACTOR SHALL NOTIFY ARCHITECT FOR DIRECTION PRIOR TO BEGINNING WORK.
- LIGHT FIXTURES SHALL OCCUR AT THE CENTER POINT OF THE TILE IN WHICH THEY OCCUR, UNLESS OTHERWISE NOTED. ALL FIXTURE DIMENSIONS ARE TO CENTER LINE OF FIXTURE.
- CONTRACTOR SHALL CLEAN AND REMOVE ALL STICKERS, PACKAGING, AND TAGS FROM ALL NEW LENSES AND FIXTURES.
- ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED EMERGENCY CIRCUIT LEG (OR PROVIDED WITH BATTERY PACK) FOR EMERGENCY OPERATION. THE ELECTRICAL CONTRACTOR SHOULD FIELD VERIFY THAT THE CIRCUIT HAS CAPACITY TO HANDLE THE LOAD.
- CEILING GRID & CEILING TILE SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- ALL EXISTING ELECTRICAL CONDUIT NEEDS TO BE RAISED OFF THE CEILING GRID, PER CODE.

FIRE PROTECTION

- TAS COMPLIANT FIRE EXTINGUISHER CABINETS (FEC) SHALL BE LOCATED IN EACH SUITE, PREFERABLY IN THE BREAK ROOM, AND IN ALL LEVEL PER CODE IN THE CORRIDORS. NEW FIRE EXTINGUISHER CABINETS SHALL MATCH EXISTING IN APPEARANCE AND BE SIZED TO FIT 2 1/2" STUD WALL. CONTRACTOR TO SUBMIT TO ARCHITECT FOR APPROVAL.

DRAWING INDEX

- ARCHITECTURAL**
- A0.1 COVER SHEET / INDEX
 - A0.2 CODE
- A1.1 SITE RAMP PLANS AND DETAILS
- A2.0 DEMO PLAN & FLOOR PLAN
- A2.1 POWER PLAN & RCP
 - A2.2 FINISH PLAN AND SCHEDULE
- A3.1 ENLARGED PLANS & ELEVATIONS
- A3.2 SECTIONS & DETAILS
- A5.1 TAS ITEMS
- A5.2 TAS ITEMS
- MECHANICAL**
- MEP-1 DEMOLITION/EXISTING PLAN
 - MEP-2 MEP ROOF PLAN
 - M1-01 HVAC FLOOR PLAN
 - M5-01 GENERAL NOTES/ SPECIFICATIONS

ELECTRICAL

- E1-01 LIGHTING FLOOR PLAN
- E2-01 POWER FLOOR PLAN
- E7-01 SPECIFICATIONS

PLUMBING

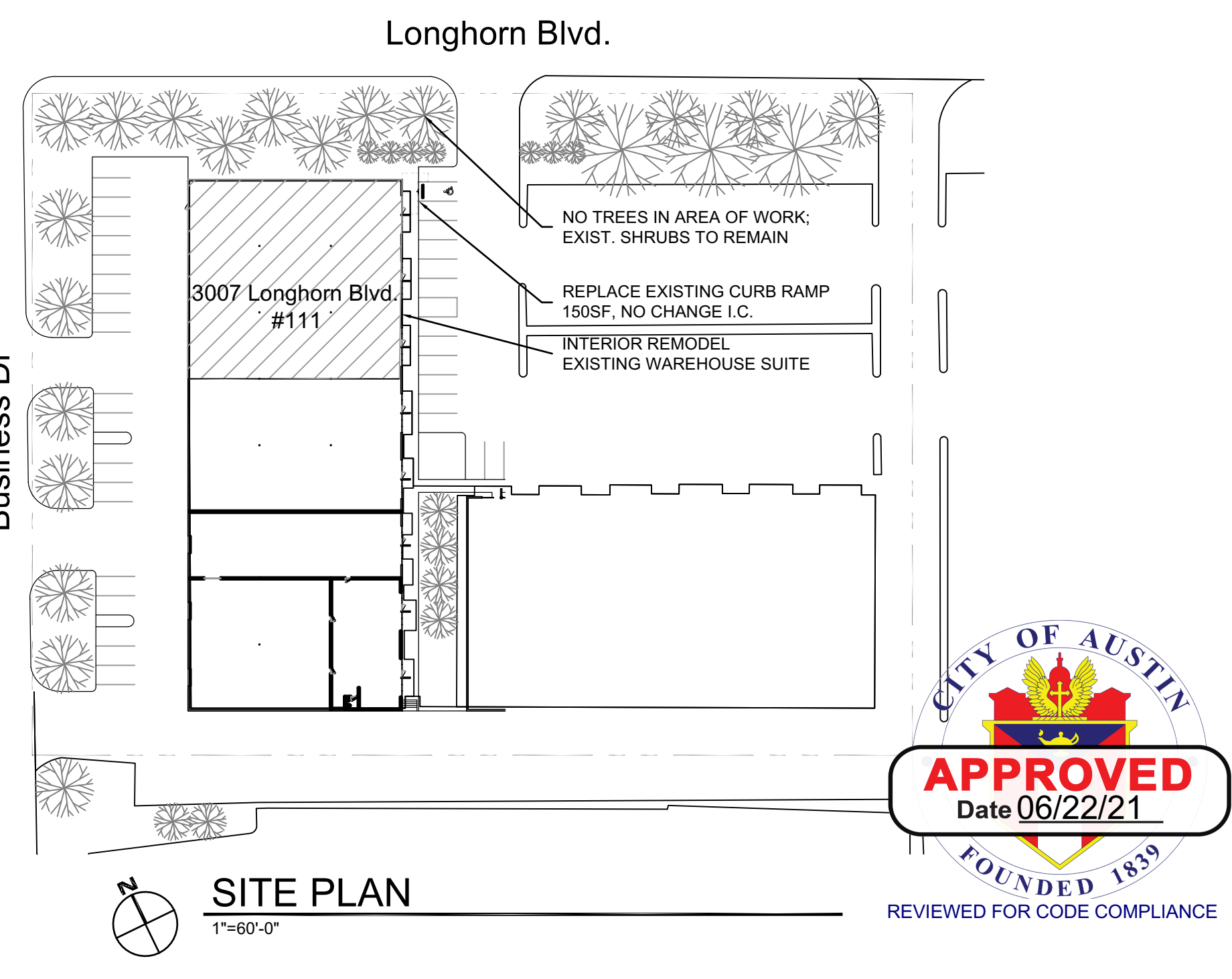
- P1-01 PLUMBING FLOOR PLAN
- P5-01 GENERAL NOTES, SCHEDULE
- P7-01 SPECIFICATIONS

CODE, DESIGN & PLANNING DATA

- A. INTERNATIONAL BUILDING CODE 2015 EDITION
 - B. TEXAS ACCESSIBILITY STANDARDS
 - C. APPLICABLE CODES/STANDARDS FROM CITY OF AUSTIN
 - D. IECC 2015
- BUILDING CONSTRUCTION TYPE: TYPE II-B PER IBC
- PROJECT OCCUPANCY TYPE: TYPE S-1 MODERATE HAZARD STORAGE PER IBC
- ZONING USE: GENERAL WAREHOUSING + DISTRIBUTION
- APPROX. AREA OF WORK: 9110 SQ.FT., 18 OCCUPANTS
- FIRE PROTECTION: NON-SPRINKLERED
- PROVIDE EXTINGUISHERS AND SMOKE DETECT. PER CODE



VICINITY MAP
NOT TO SCALE



REVISIONS

CITY COMMENTS

DATE: 04/26/2021

DRAWN:

CHECKED:

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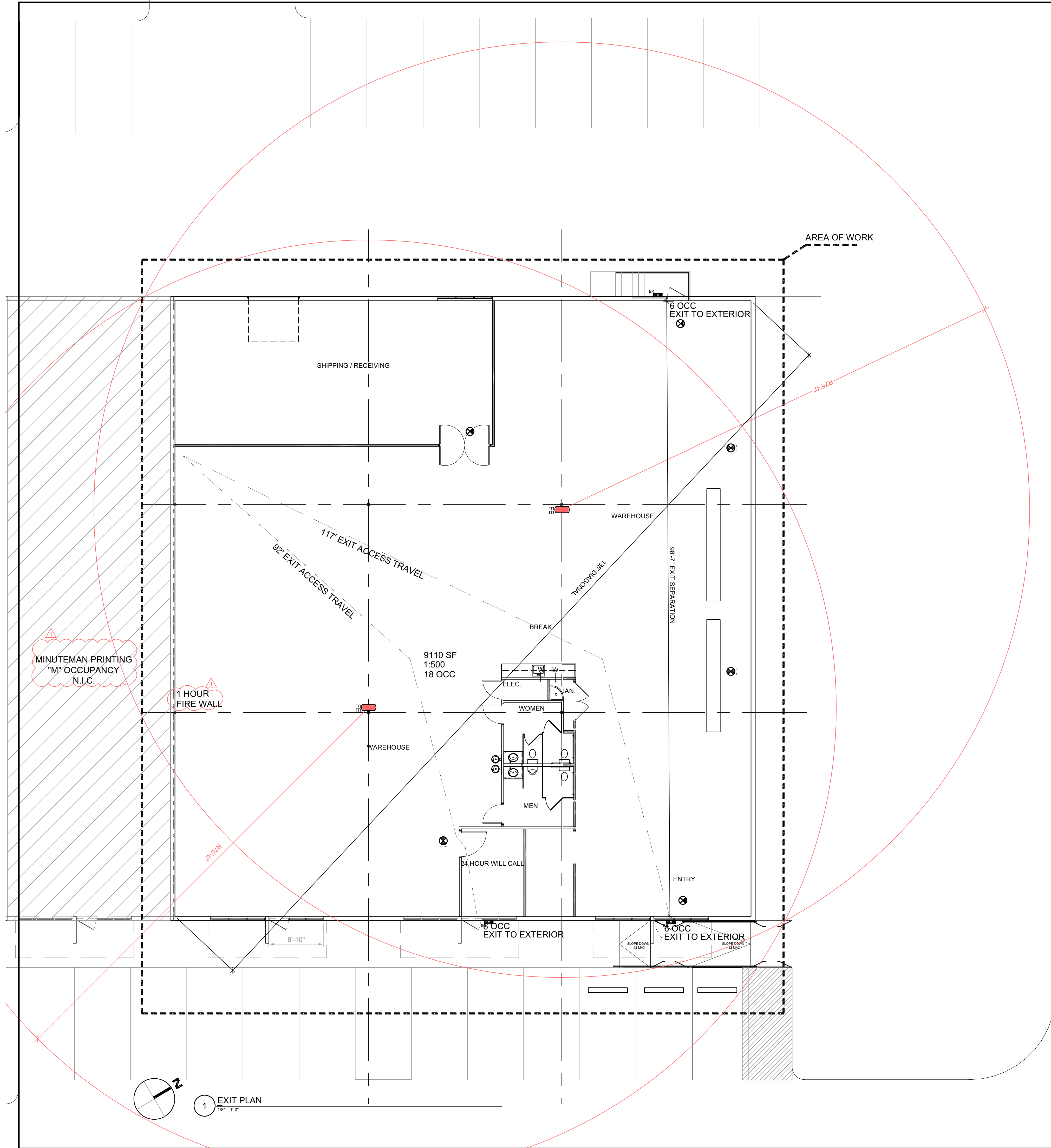
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JOB NO. 3668

COVER

SHEET
A0.1

ISSUE FOR city comment responses



- LEGEND**
-  EXIT SIGN
 -  FIRE EXTINGUISHER TYPE 3A OR BETTER

PROJECT SCOPE:
 9110 SF WAREHOUSE
 DISTRIBUTION CENTER

BUILDING INFO:
 EXISTING 1 STORY 24,700 SF
 WAREHOUSE
 NO SPRINKLERED
 NO BUILDING FIRE ALARM
 FIRE EXTINGUISHERS PER
 CODE

CODE SCOPE NOTES:
 BUILDING: 2015 IBC
 ELECTRICAL: 2020 NEC
 ENERGY: 2015 IECC
 MECHANICAL: 2015 UMC
 PLUMBING: 2015 UPC

S-1 MODERATE HAZARD STORAGE
 A/V COMMUNICATION GEAR WITH
 PLASTIC TRIM
 NOT PUBLIC: DISTRIBUTION CENTER

9,100SF
 1:500 WAREHOUSE
 =18 OCC
 (ACTUAL APPROX. 5)

1 EXIT PLAN
 1/8" = 1'-0"

REVISIONS
 CITY COMMENTS

DATE: 04/26/2021

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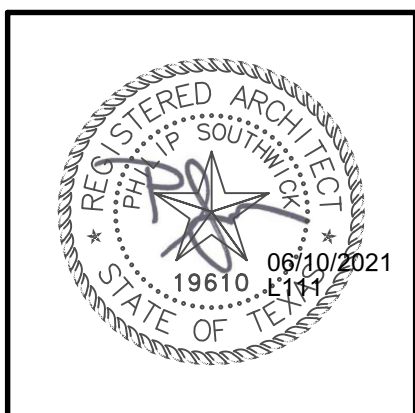
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DATE: 04/26/2021

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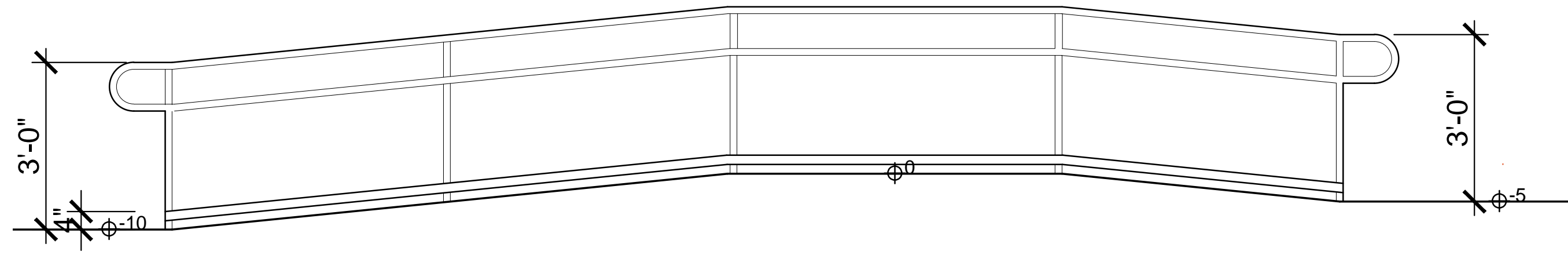
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CODE

SHEET
A0.2

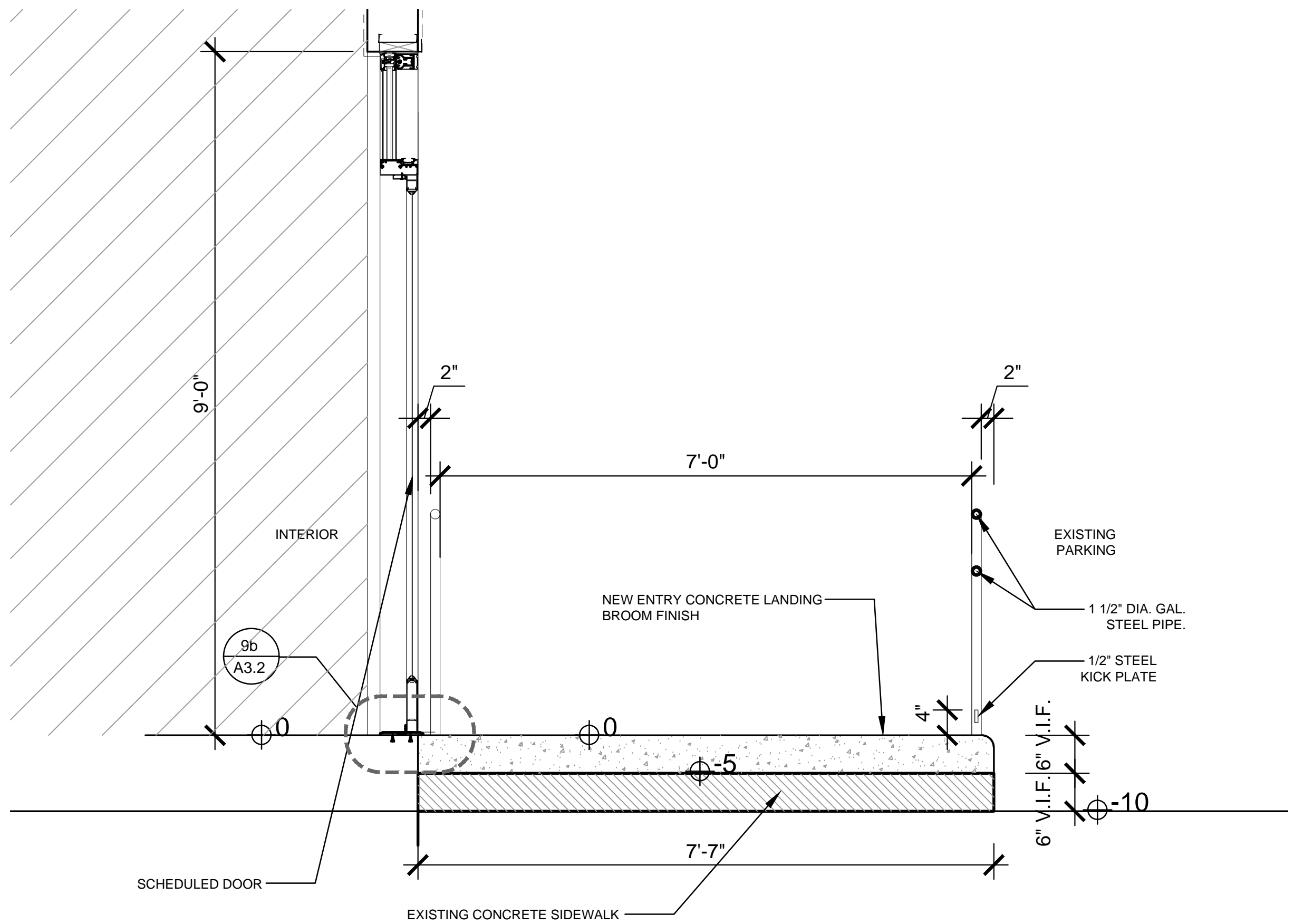
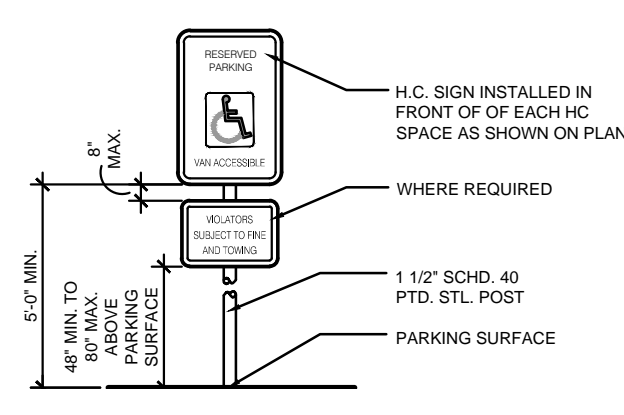
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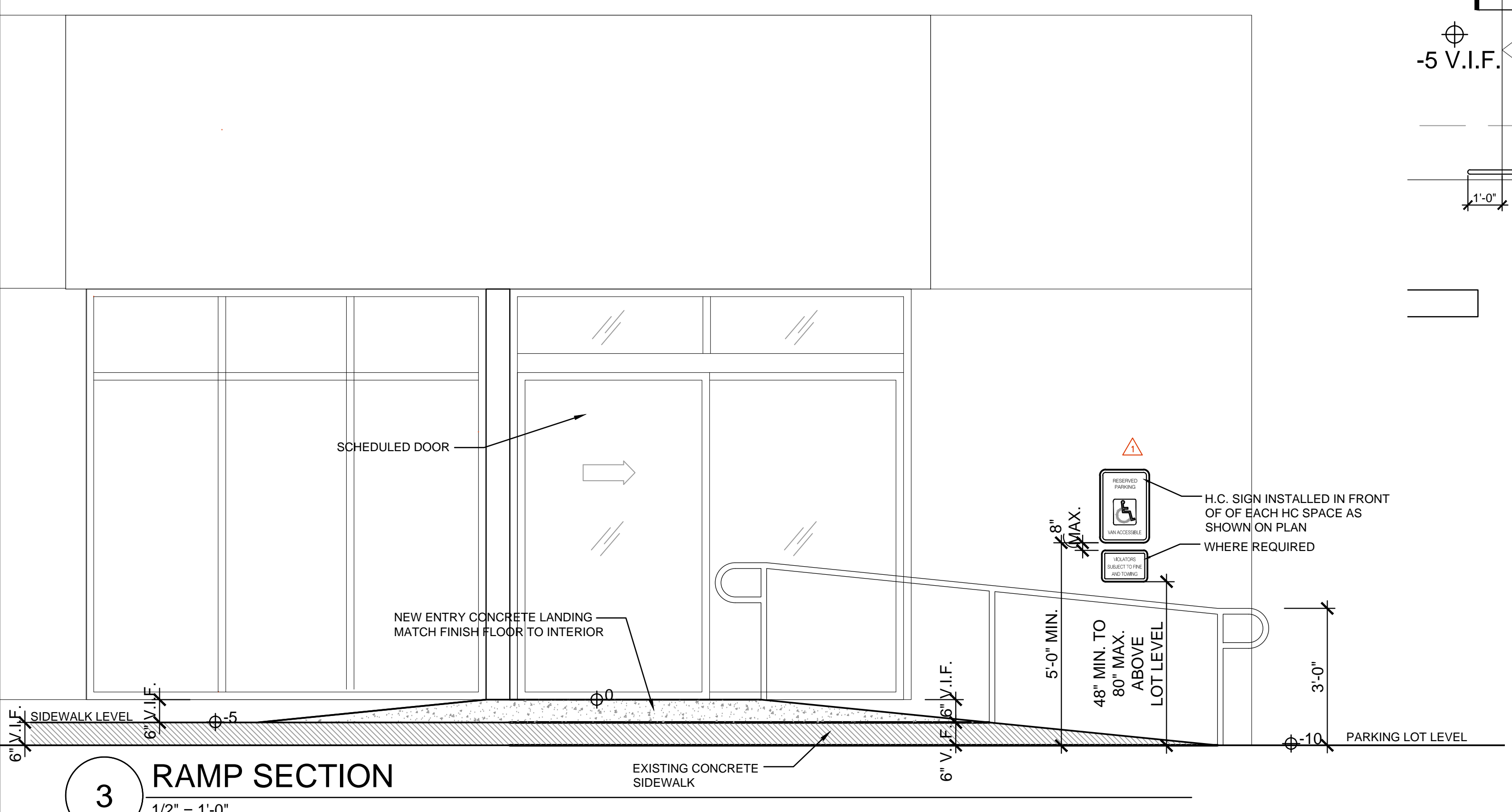


4 RAMP ELEVATION
1/2" = 1'-0"

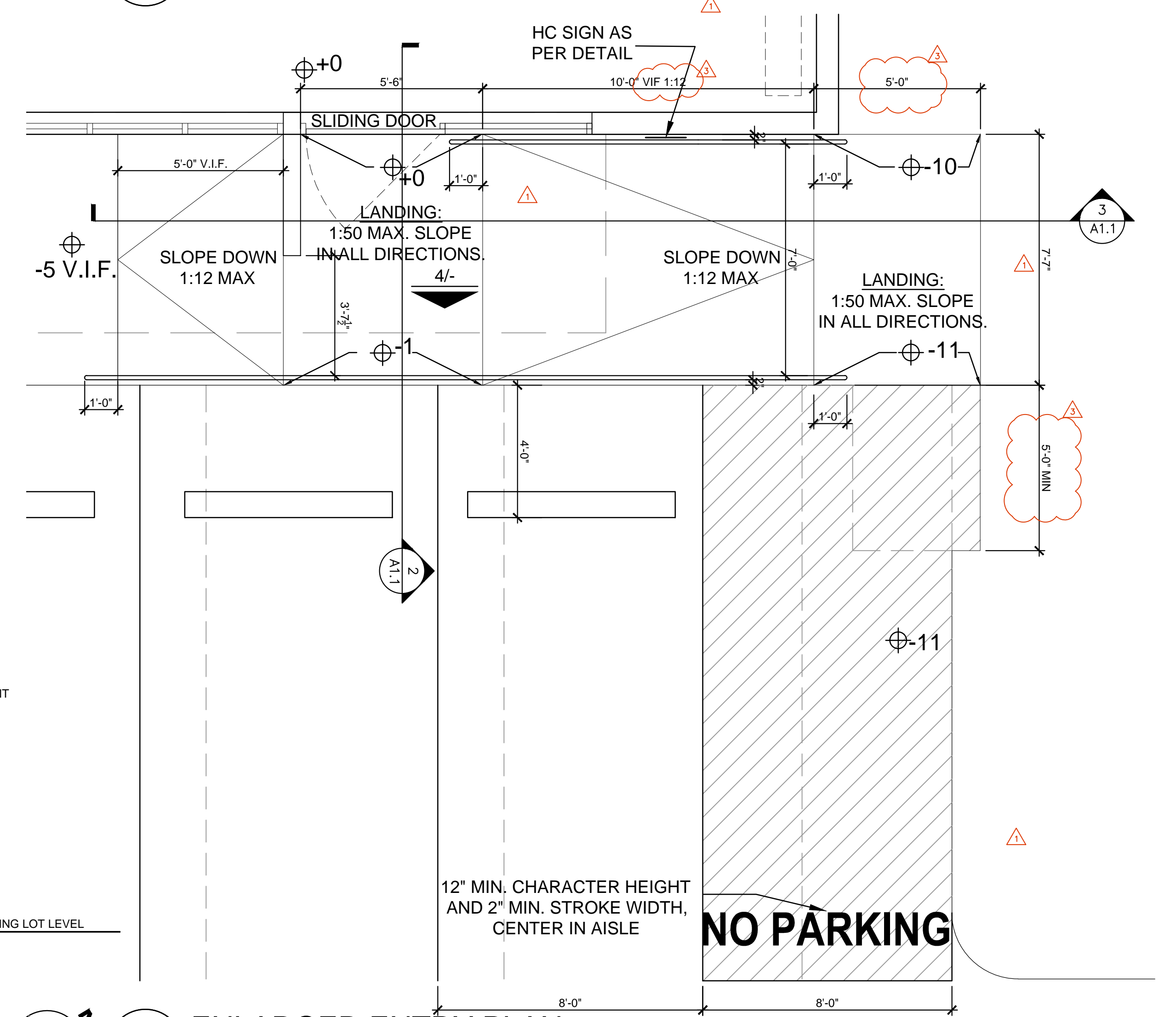
5 SIGN DETAIL
1/2" = 1'-0"



2 SECTION
3/4" = 1'-0"



3 RAMP SECTION
1/2" = 1'-0"



1 ENLARGED ENTRY PLAN
3/8" = 1'-0"

REVISIONS
△ CITY COMMENTS
△ ACCESSIBLE SERVICE COUNTER AND RR DIMENSIONS
△ PARKING AND RAMP

DATE: 04/26/2021

DRAWN: TC

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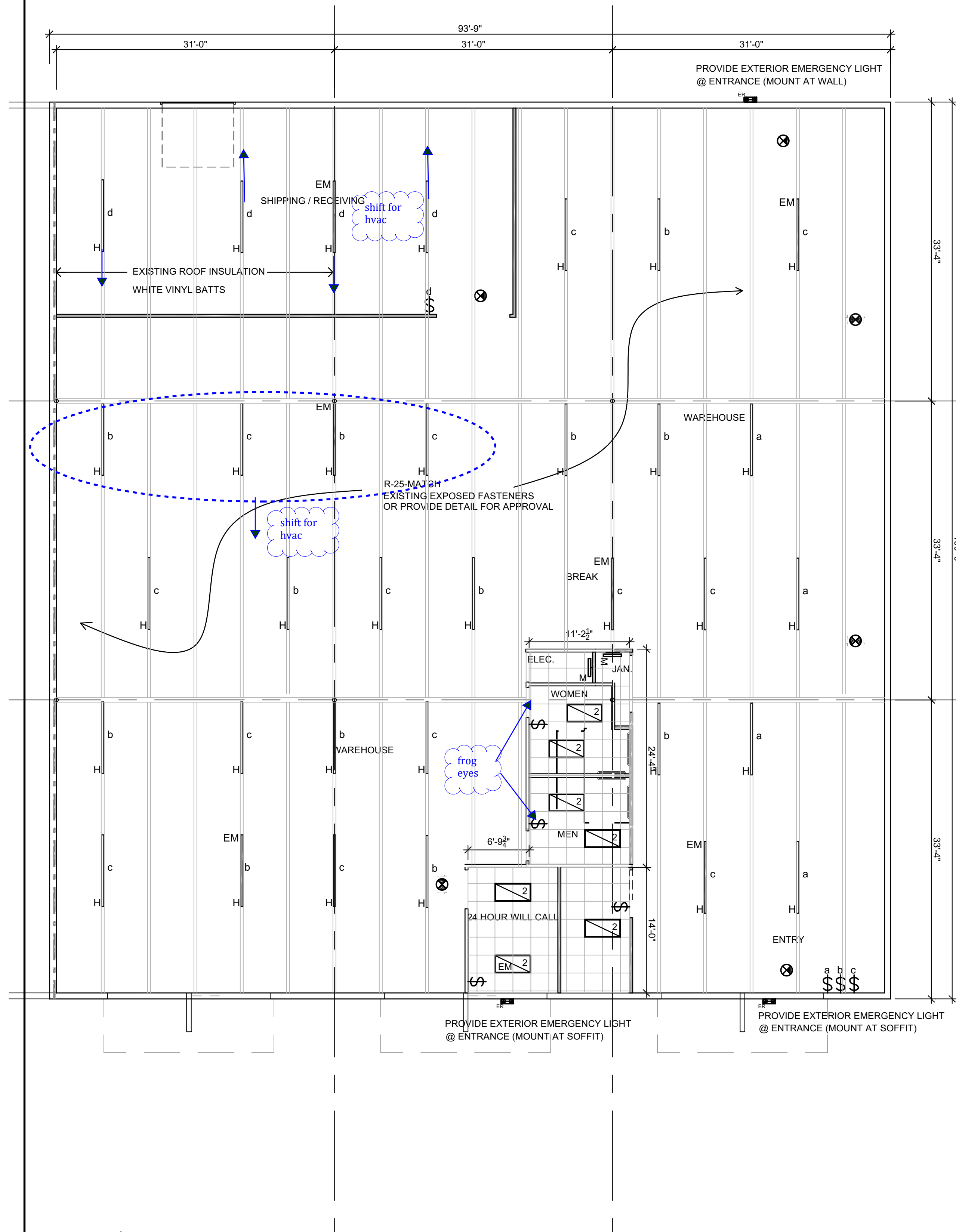
JOB NO. 3668

SITE ENTRY DETAILS

SHEET
A1.1

LIGHTING FIXTURE LEGEND					
SYMBOL	FIXTURE	MANUFACTURER	TYPE	WATTS	NOTES
	CPX 2X4 4000LM 80CRI 40K SWL MIN10 ZT MVOLT	LITHONIA	4000K	40.78	@9'-0" A.F.F.
	CPX 2X4 4000LM 80CRI 40K SWL MIN10 ZT MVOLT E10WLCP	LITHONIA	4000K	40.78	@9'-0" A.F.F. PROVIDE EMERGENCY PACK
	TZL1D L96 14000LM FST MVOLT 40K 80CRI WH	LITHONIA	LED 4000K	120.87	@12'-9" A.F.F.
	TZL1D L96 14000LM FST MVOLT 40K 80CRI E10WLCPWH	LITHONIA	LED 4000K	120.87	@12'-9" A.F.F.
	BLWP2 33L ADSMT LP840	LITHONIA	LED 4000K	29.85	WALL MOUNT FIXTURE
	SWITCH				NO SENSOR SWITCHES OTHER THAN RESTROOM-ALL MANUAL
	EXTERIOR EXIT LIGHT				

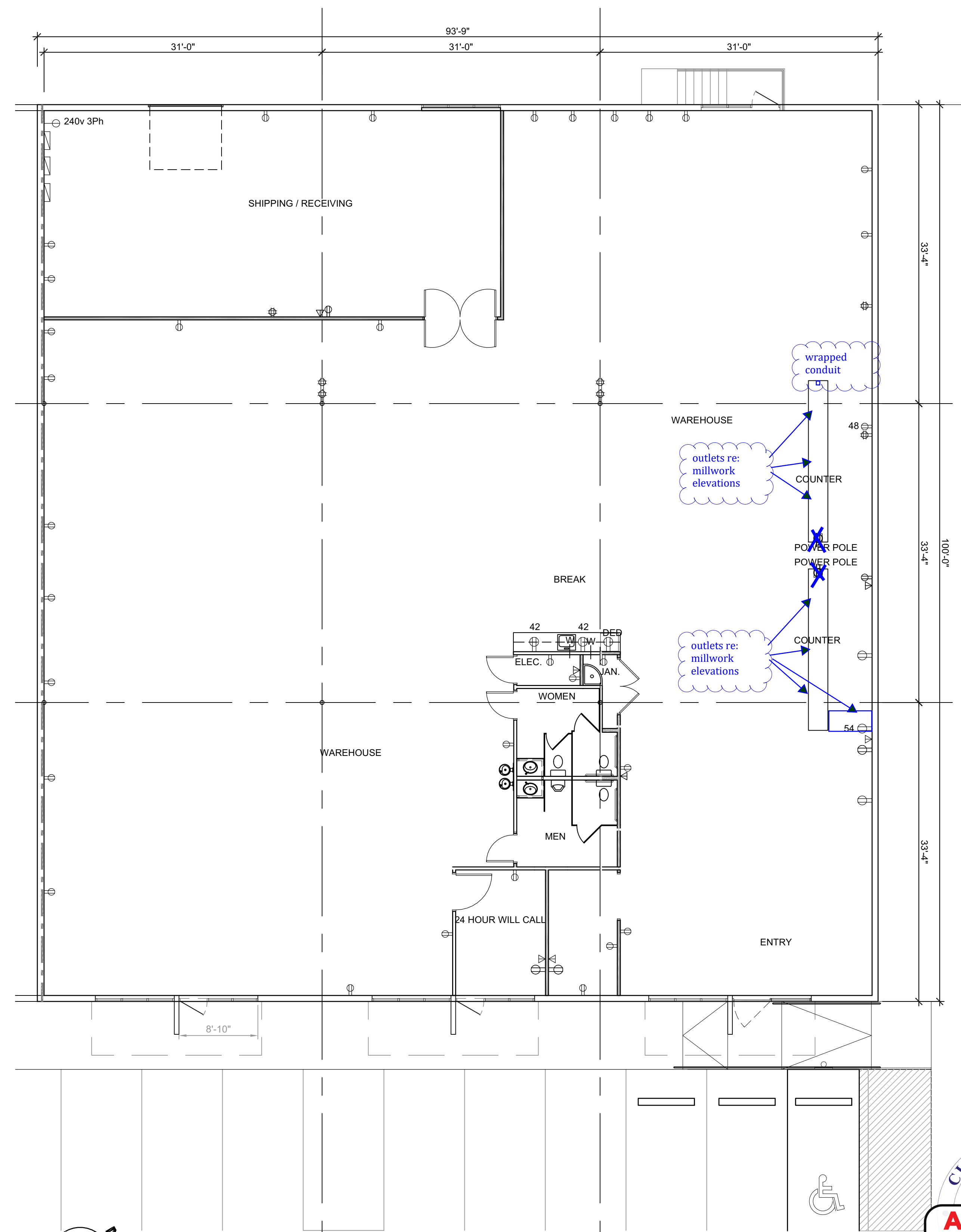
Photometrics and fixture selection by Esther Iosaki <iosaki@spectrumitg.net>



2 REFLECTED CEILING PLAN
1/8" = 1'-0"

POWER PLAN LEGEND

- EXIST/NEW DUPLEX OUTLET
 - NEW GFI DUPLEX OUTLET
 - NEW DEDICATED DUPLEX OUTLET
 - EXIST/NEW QUAD. OUTLET
 - EXIST/NEW TELEPHONE
 - EXIST/NEW TELE. AND DATA
 - EXIST/NEW DATA
 - JUNCTION BOX - WALL MOUNT
 - JUNCTION BOX - CEILING MOUNT
 - WATER SUPPLY LINE
 - POWER POLE
- PROVIDE RING AND STRING PER GENERAL NOTES



1 POWER PLAN
1/8" = 1'-0"

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JOB NO. 3668

POWER PLAN
RCP

SHEET
A2.1



REVIEWED FOR CODE COMPLIANCE

REVISIONS

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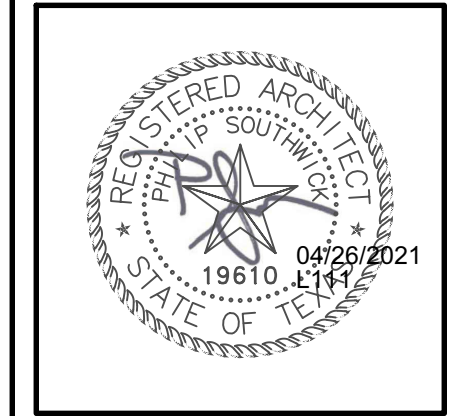
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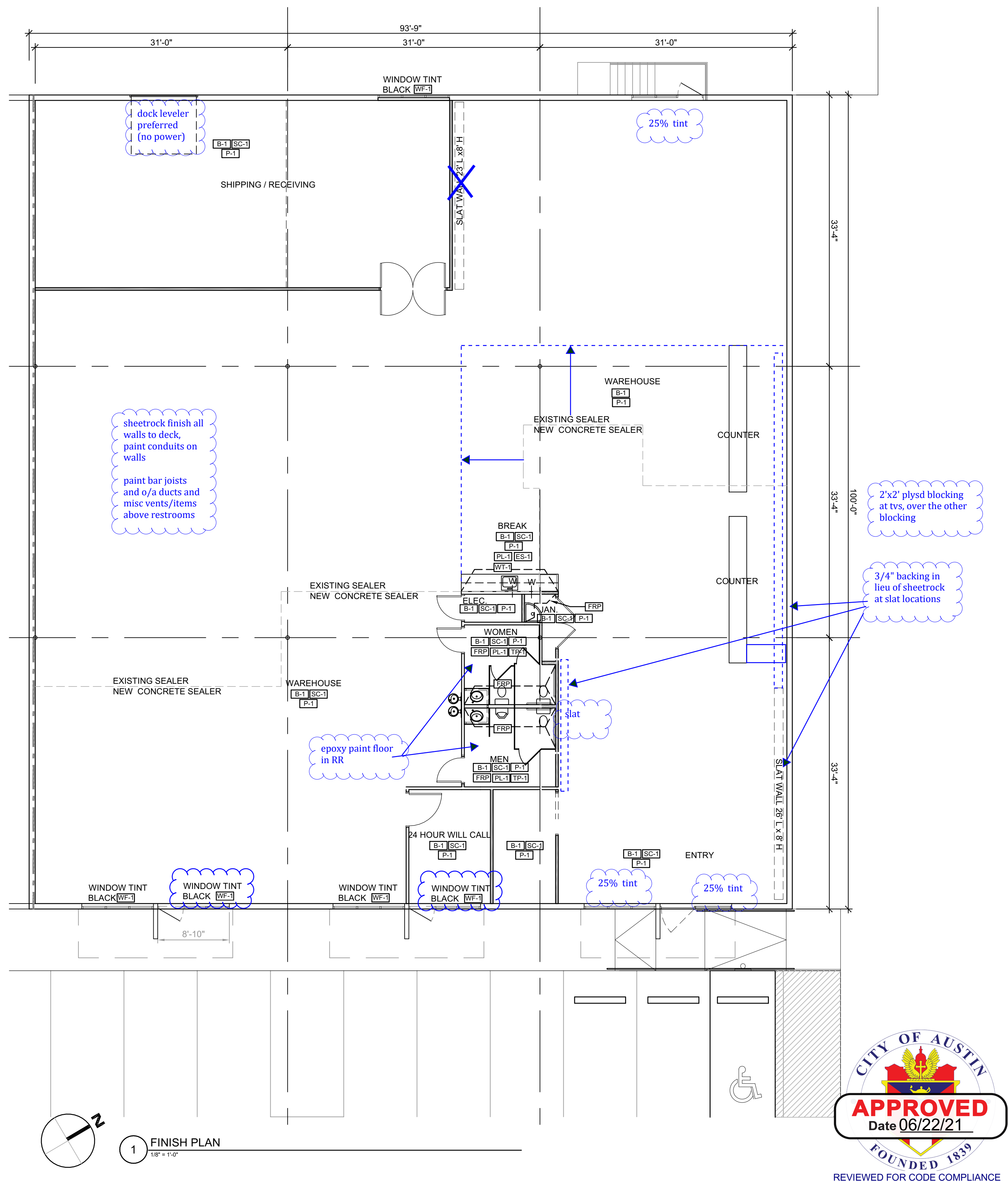
JOB NO. 3668

FINISH PLAN SCHEDULE

SHEET
A2.2

SNAP AV SCHEME				
MARK	MATERIAL	MANUF./VENDOR	STYLE/COLOR	NOTES
SC-1	CONCRETE FLOOR SEALER	H&C	WATERBASED WET LOOK 50.0-48054 <i>see submittals</i>	INSTALLATION: 2 COATS
B-1	WALL BASE	ROPPE	PINNACLE TS / 178 PEWTER / HEIGHT=4"	CLASS A. COVE PROFILE TYP.
B-2	WALL BASE	ROPPE	PINNACLE TS / 100 BLACK / HEIGHT=4"	CLASS A. COVE PROFILE TYP. / COUNTERS
ES-1	ENGINEERED STONE	CAESARSTONE	4130 CLAMSHELL	BREAK COUNTERTOP
PL-1	LAMINATE	FORMICA	STANDARD LAMINATE / NEUTRAL WHITE 918-58 / MATTE	BREAK CABINETS / RR COUNTER
PL-2	LAMINATE	FORMICA	STANDARD LAMINATE / BLACK 909-58 / MATTE	MAIN COUNTERS
P-1	PAINT	SHERWIN WILLIAMS	LOW VOC INTERIOR LATEX / SW7015 REPOSE GRAY / EGGSHELL	WALLS
WT-1	TILE	CERAMIC TECHNICS	SASSUOLO URBAN BRICK / BIANCO / STICKS 3"X12"	BREAK COUNTER BACKSPLASH
FRP	FIBERGLASS REINFORCED PLASTIC WALL PANEL	VARIOUS	WHITE, SMOOTH	WALLS (RE:FINISH PLAN)
TP-1	TOILET PARTITION	BRADLEY	TEXTURED STAINLESS STEEL/400-SENTINEL	<i>floor mount, overhead brace</i>
WF-1	WINDOW FILM	3M	DI-NOC GLASS FINISHES/DG-504 SOLID COLOR-BLACK <i>some black and some 25%, see submittals</i>	EXISTING WINDOWS (RE:PLAN)

RESTROOM ACCESSORIES			
MARK	PRODUCT	MANUF./VENDOR	STYLE/COLOR
MIR-1	MIRROR	BOBRICK	MODEL: B-165, SIZE AS SHOWN ON ELEVATIONS
T-1	TOILET PAPER DISPENSER	BOBRICK	SURFACE MTD B-3588.
T-2	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	MODEL: B-3588
GB-1	GRAB BARS, 36"	BOBRICK	MODEL: B-6806.99, BLOCKING RE: TAS SHEET
GB-2	GRAB BARS, 42"	BOBRICK	MODEL: B-6806.99, BLOCKING RE: TAS SHEET



REVISIONS
 CITY COMMENTS

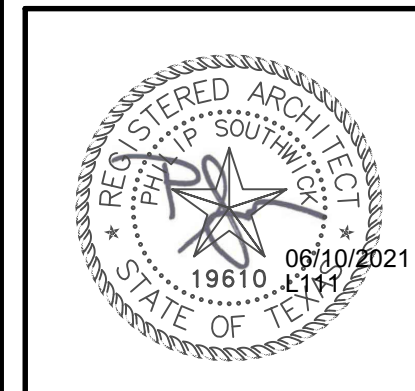
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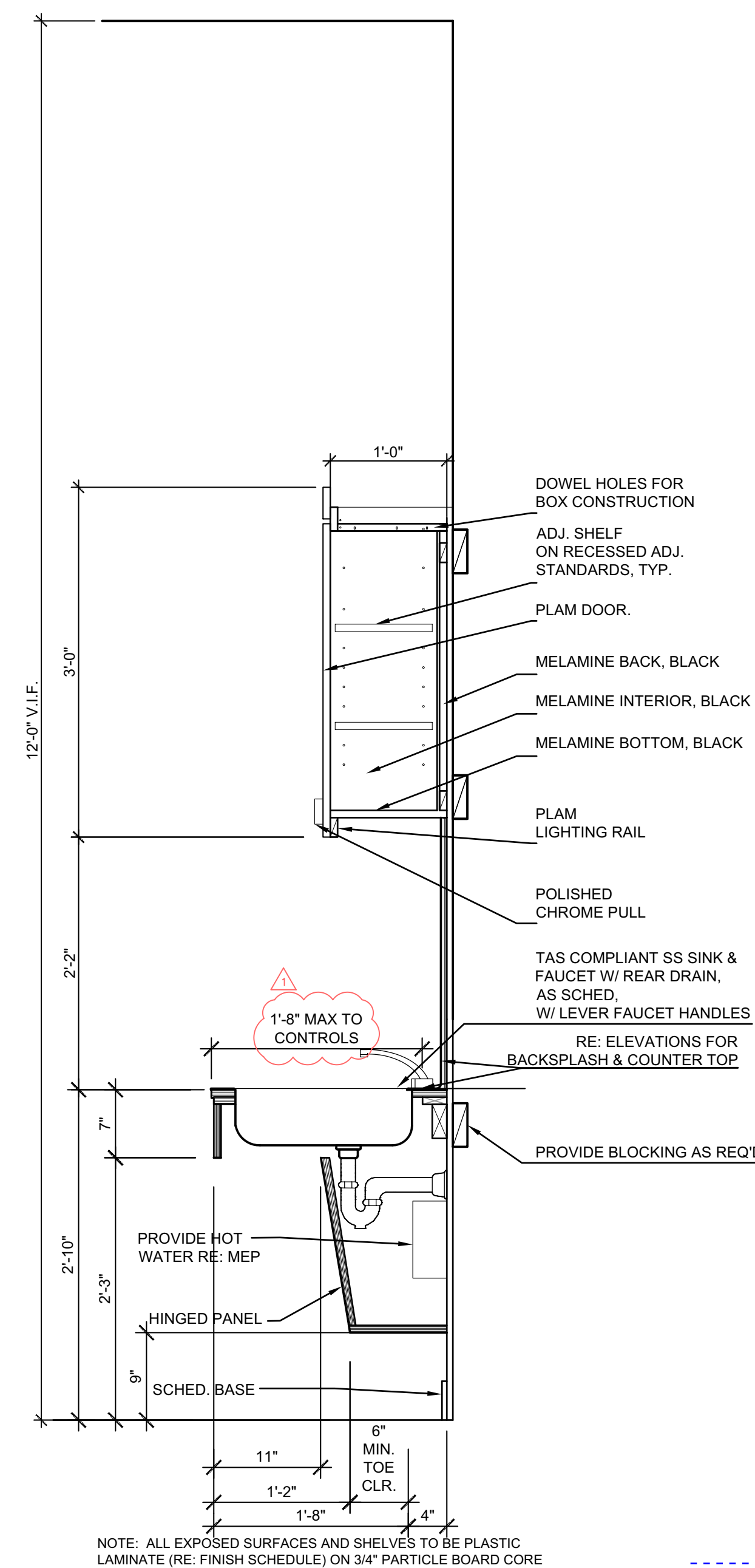
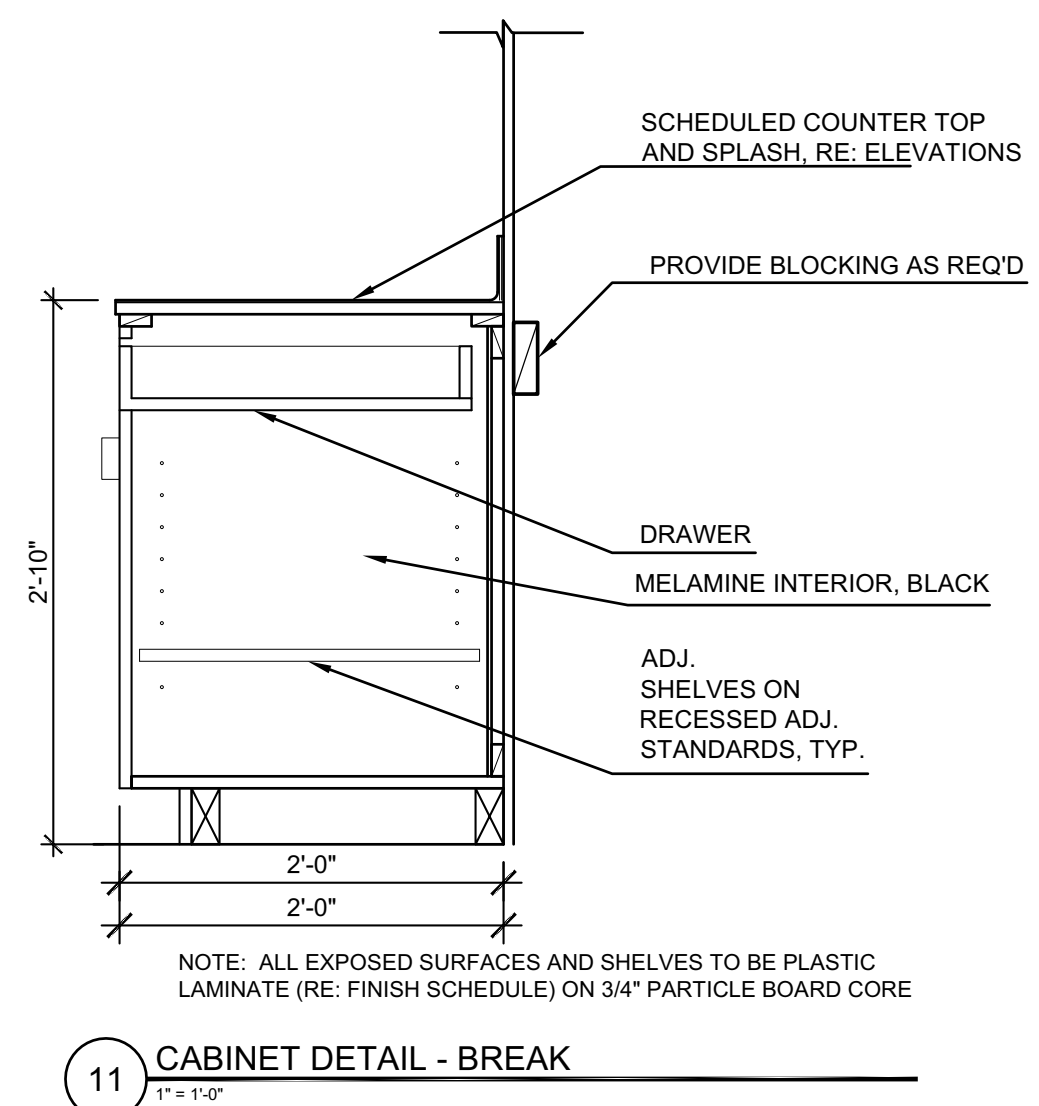
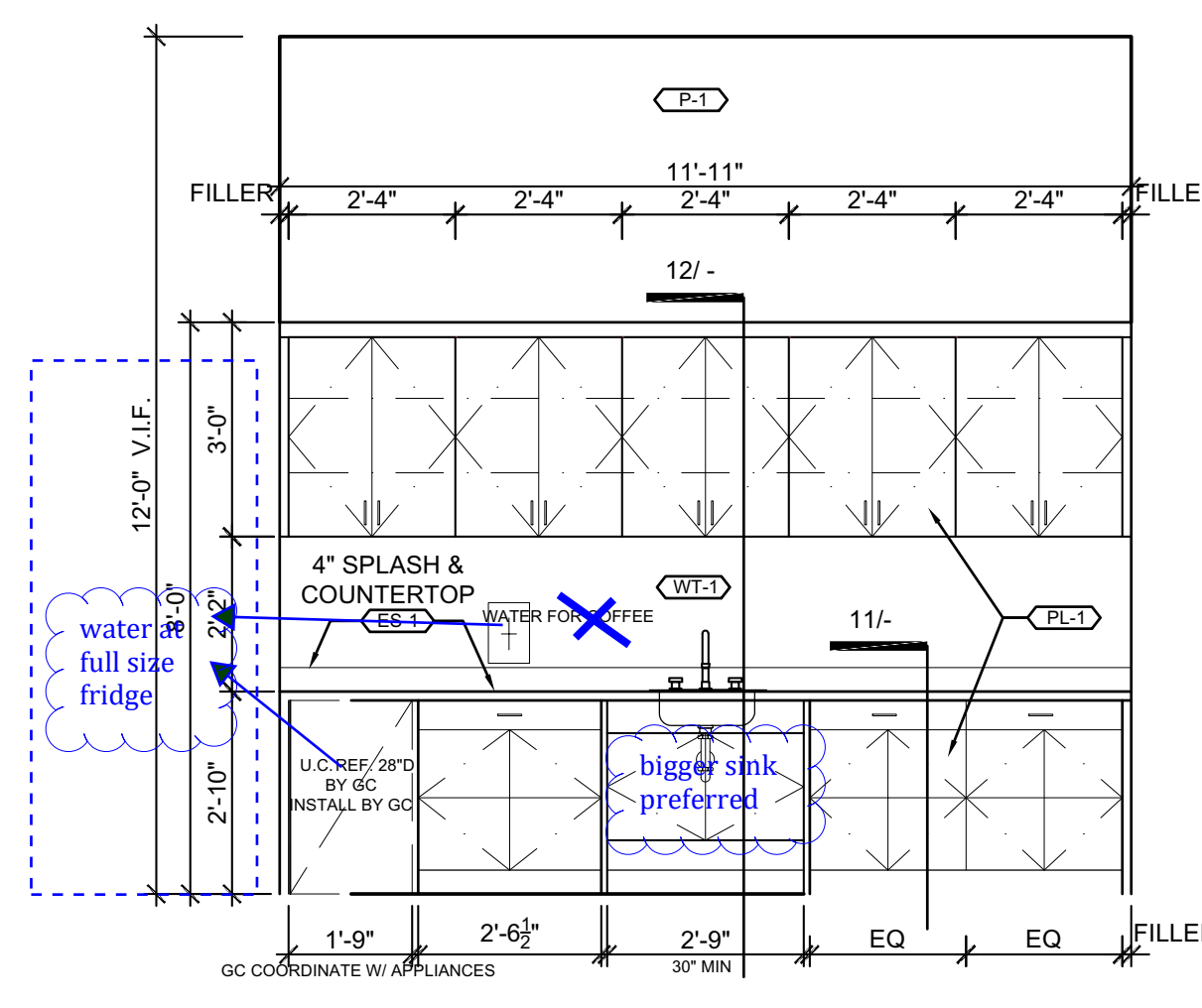
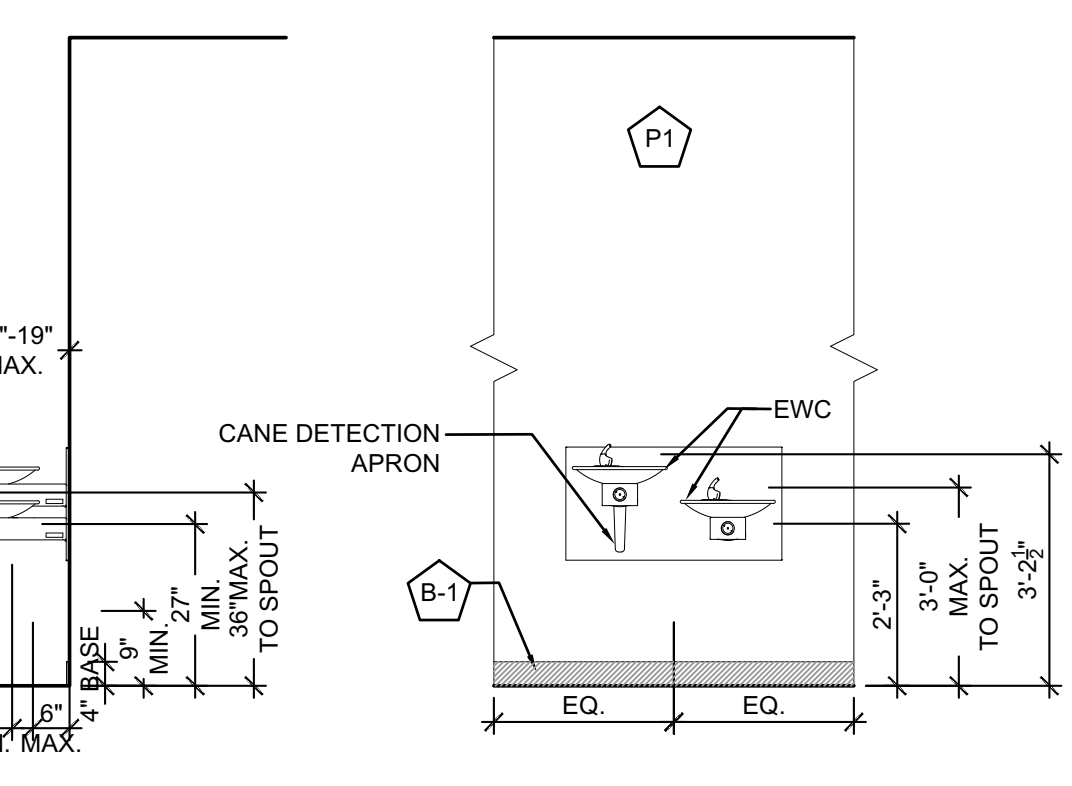
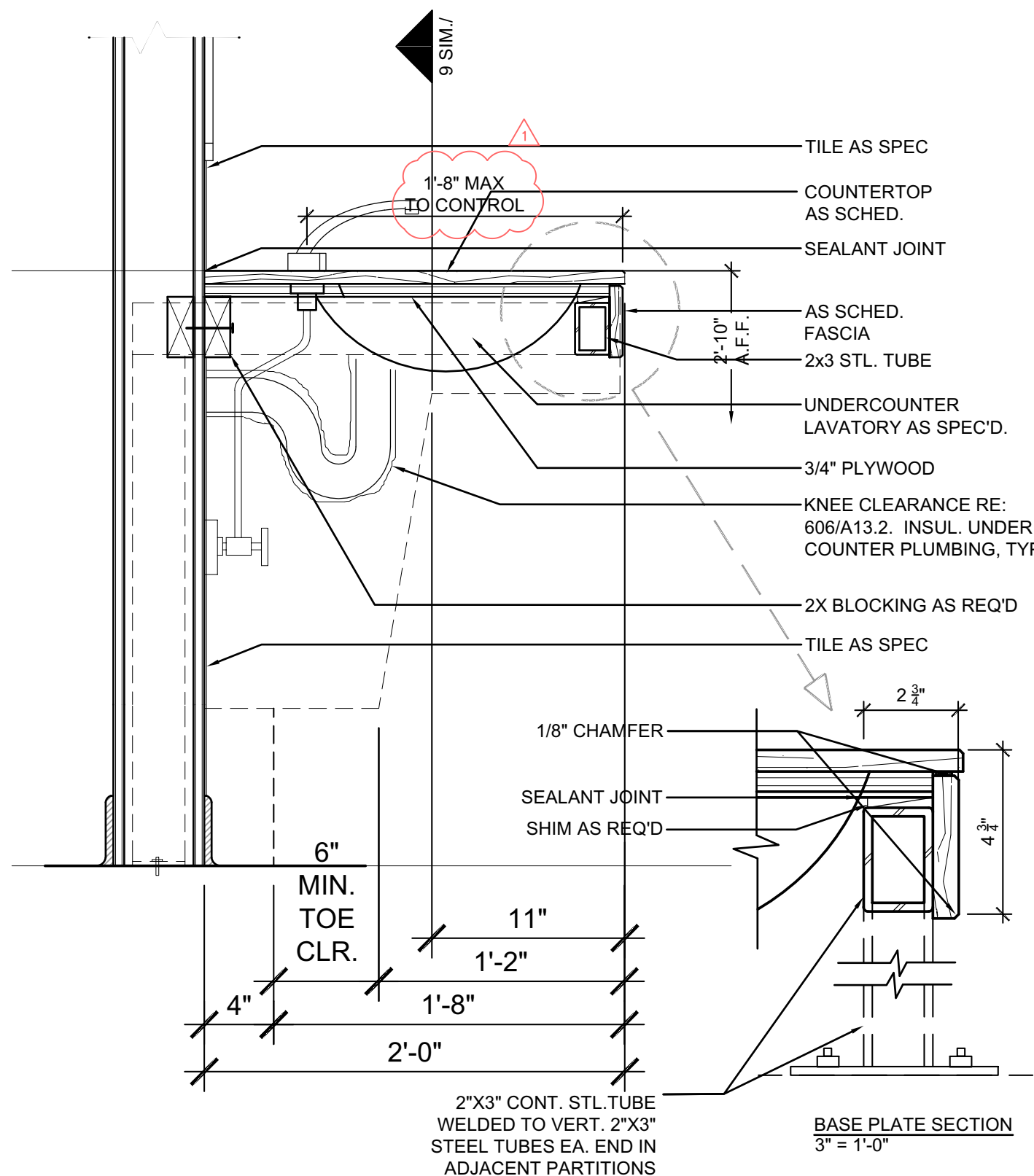
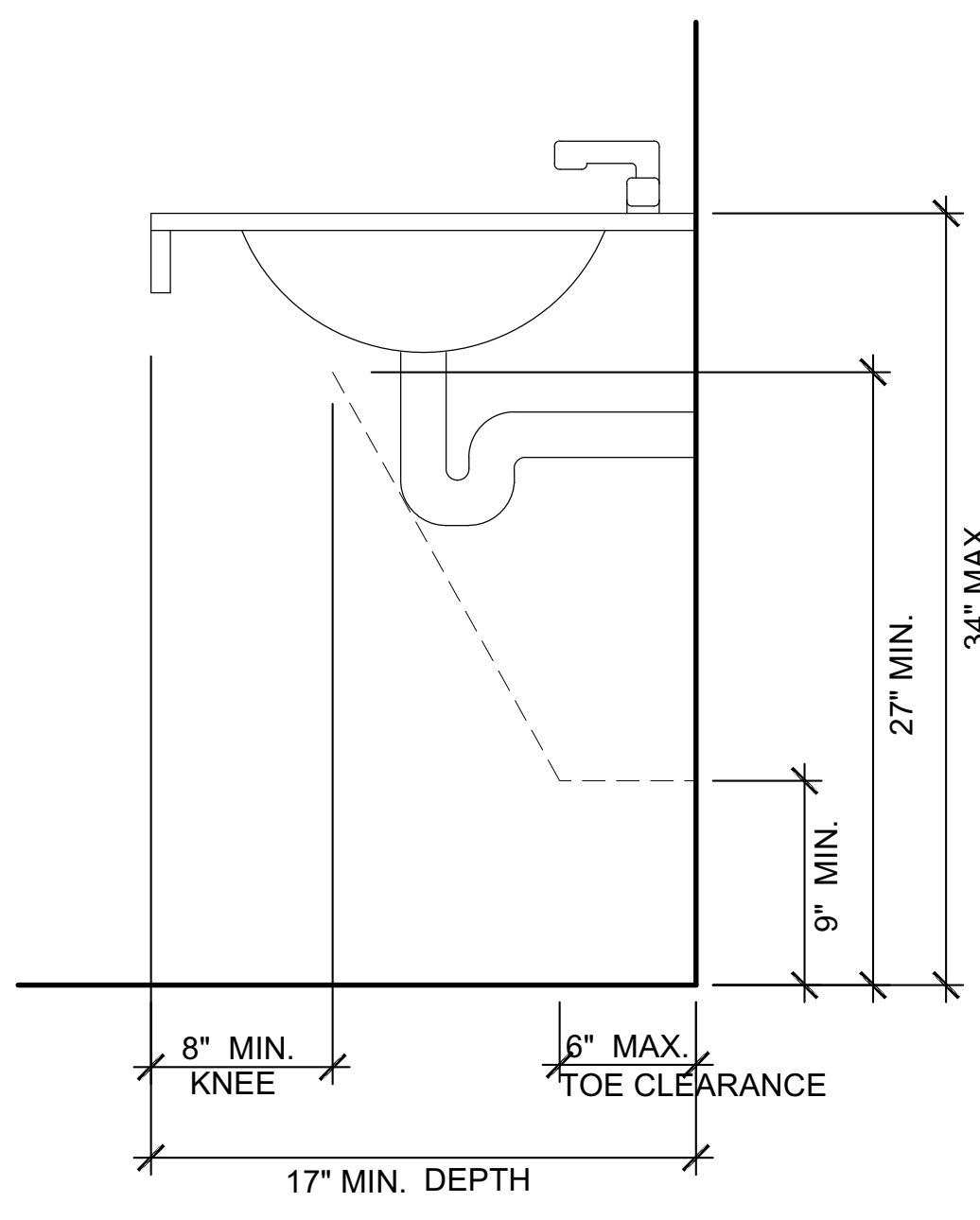
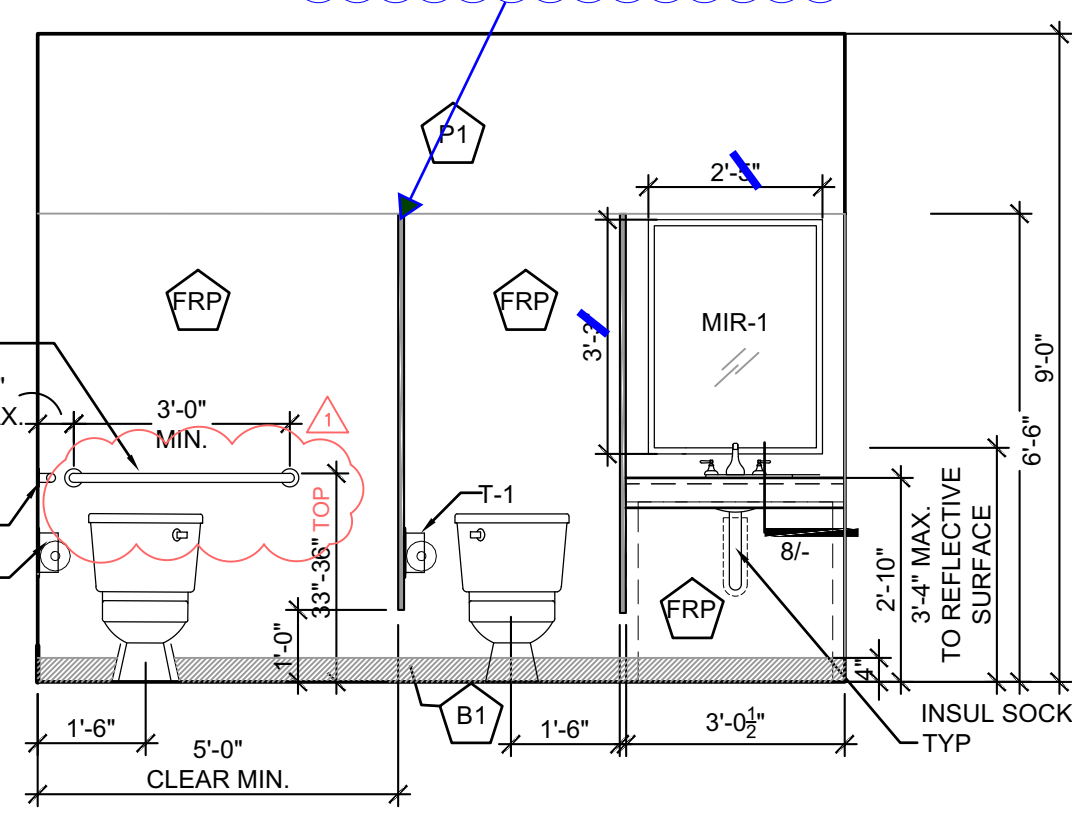
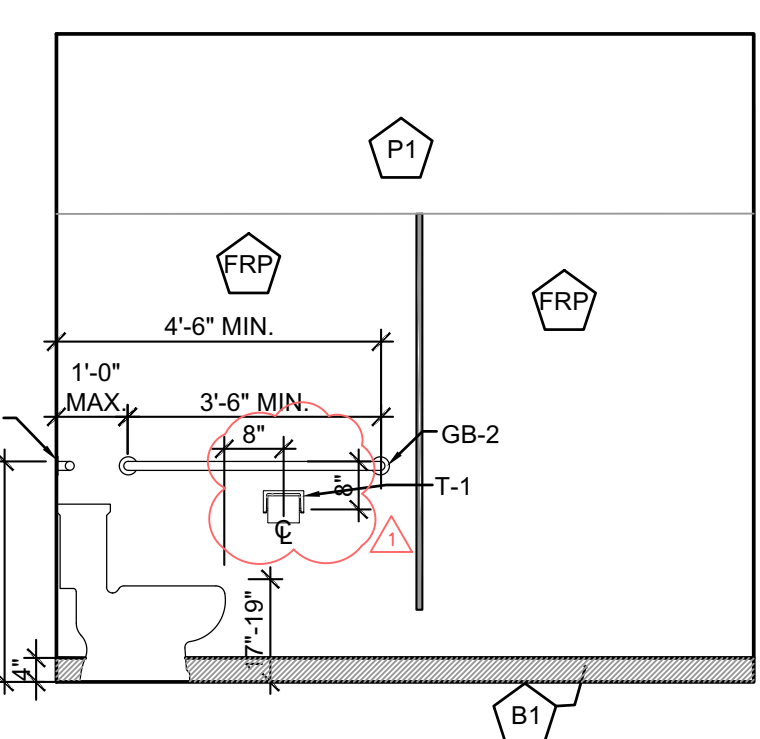
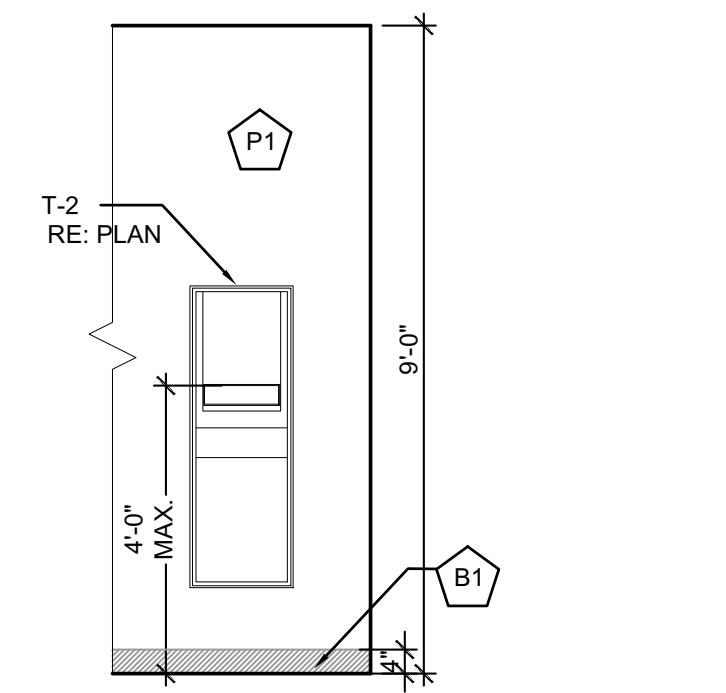
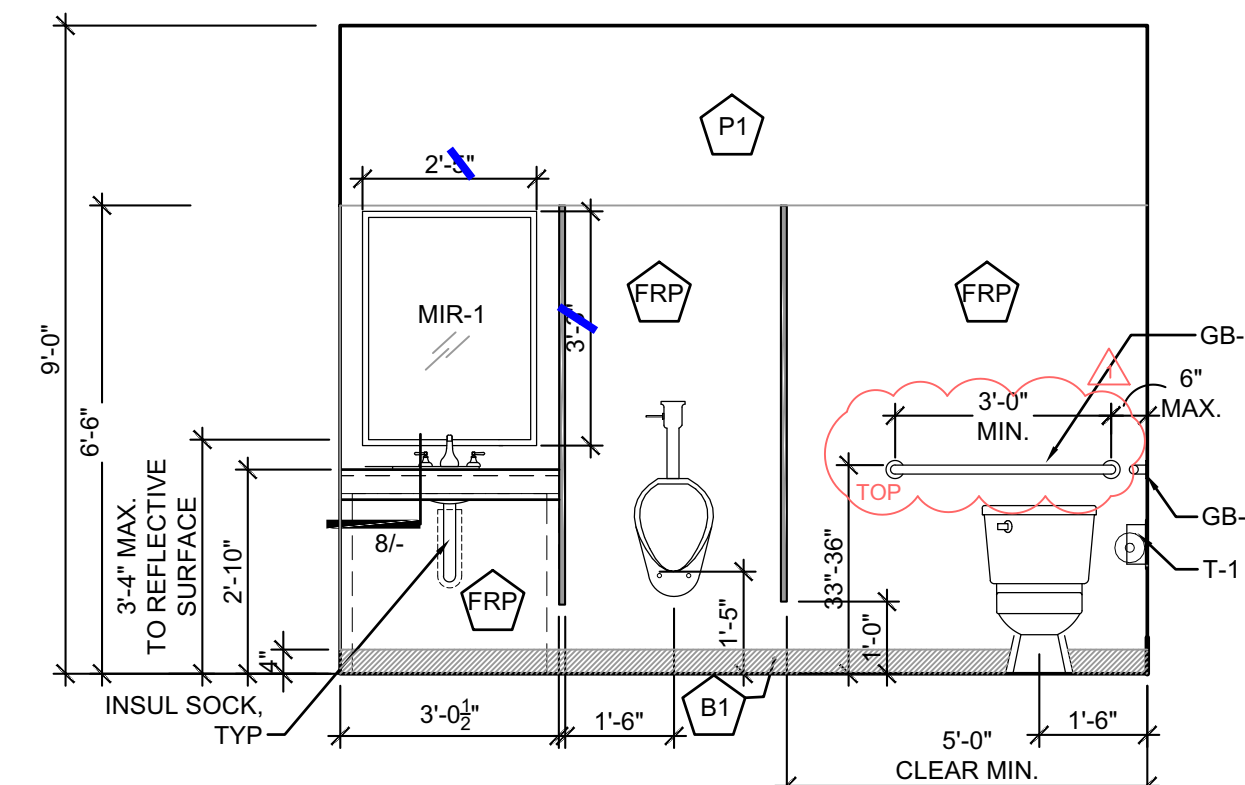
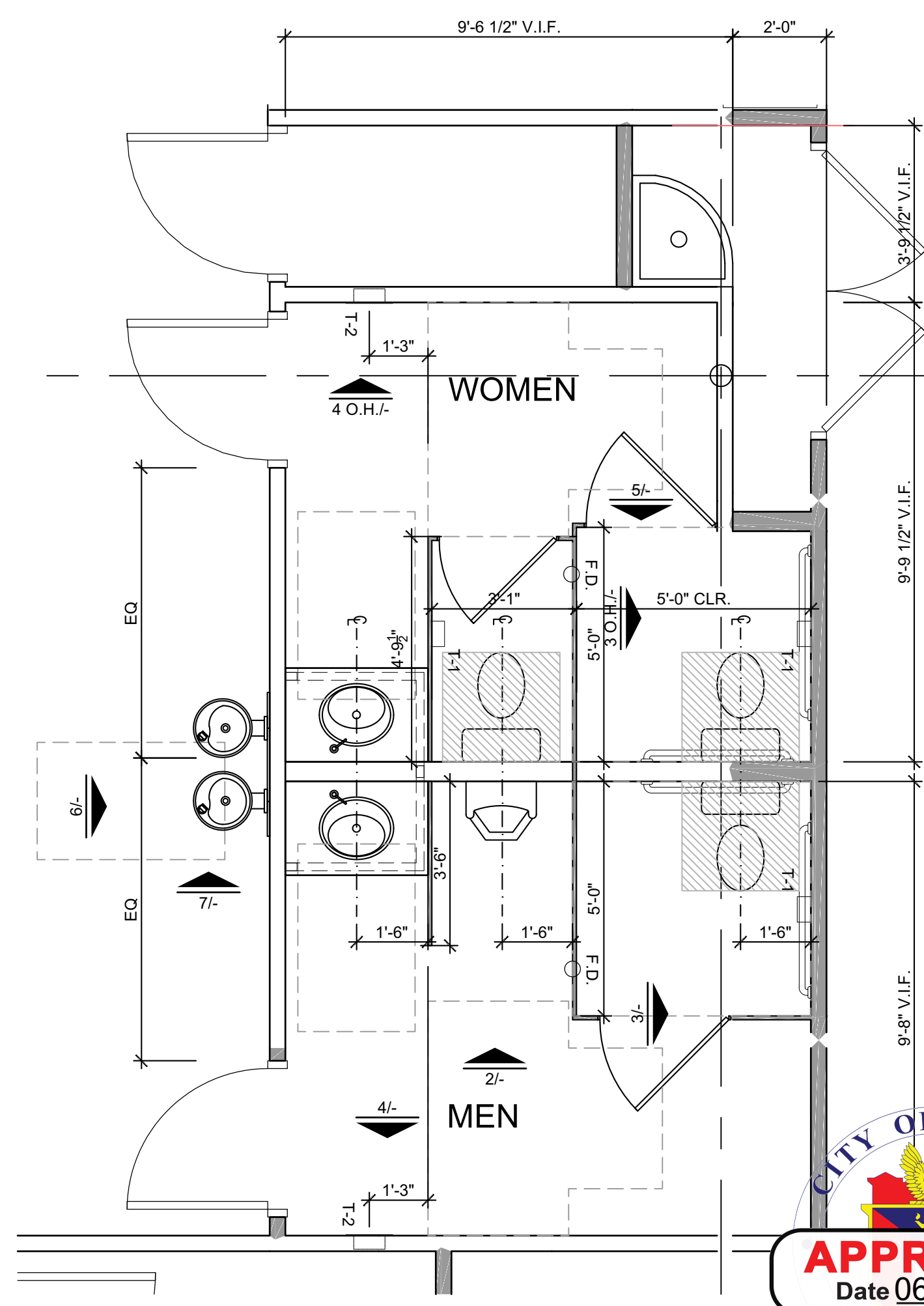
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RR / BREAK ELEVATIONS

SHEET

A3.1

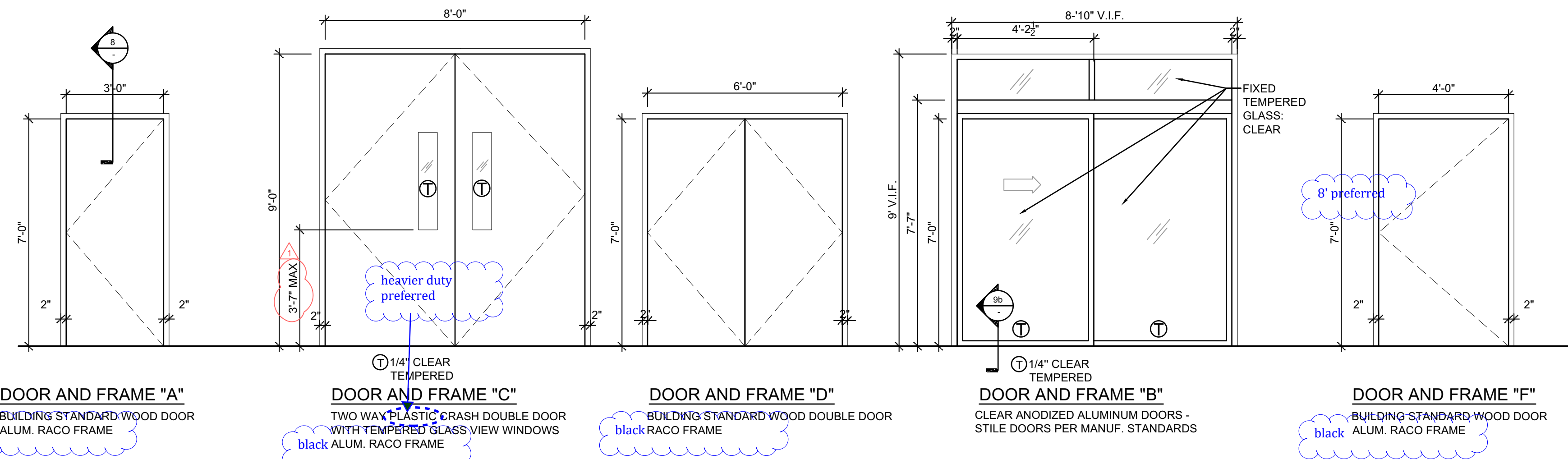
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NOTES:
 1. ALL DIMENSIONS TO BE FINISH TO FINISH.
 2. GRAB BAR STRUCTURAL STRENGTH: ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

NOTE:
 1. SEE A2.2 FOR FINISH SCHEDULE, PLUMBING FIXTURES AND TOILET ACCESSORIES.
 2. RE: TAS SHEET FOR FURTHER ACCESSIBILITY REQUIREMENTS.

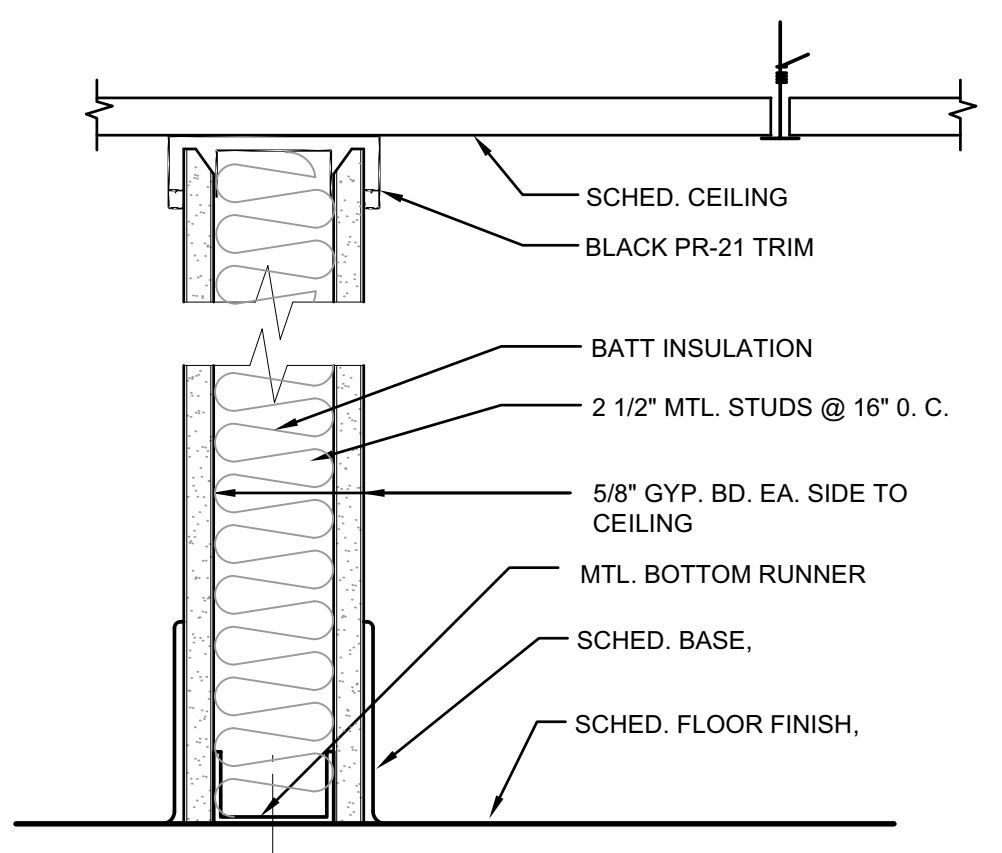
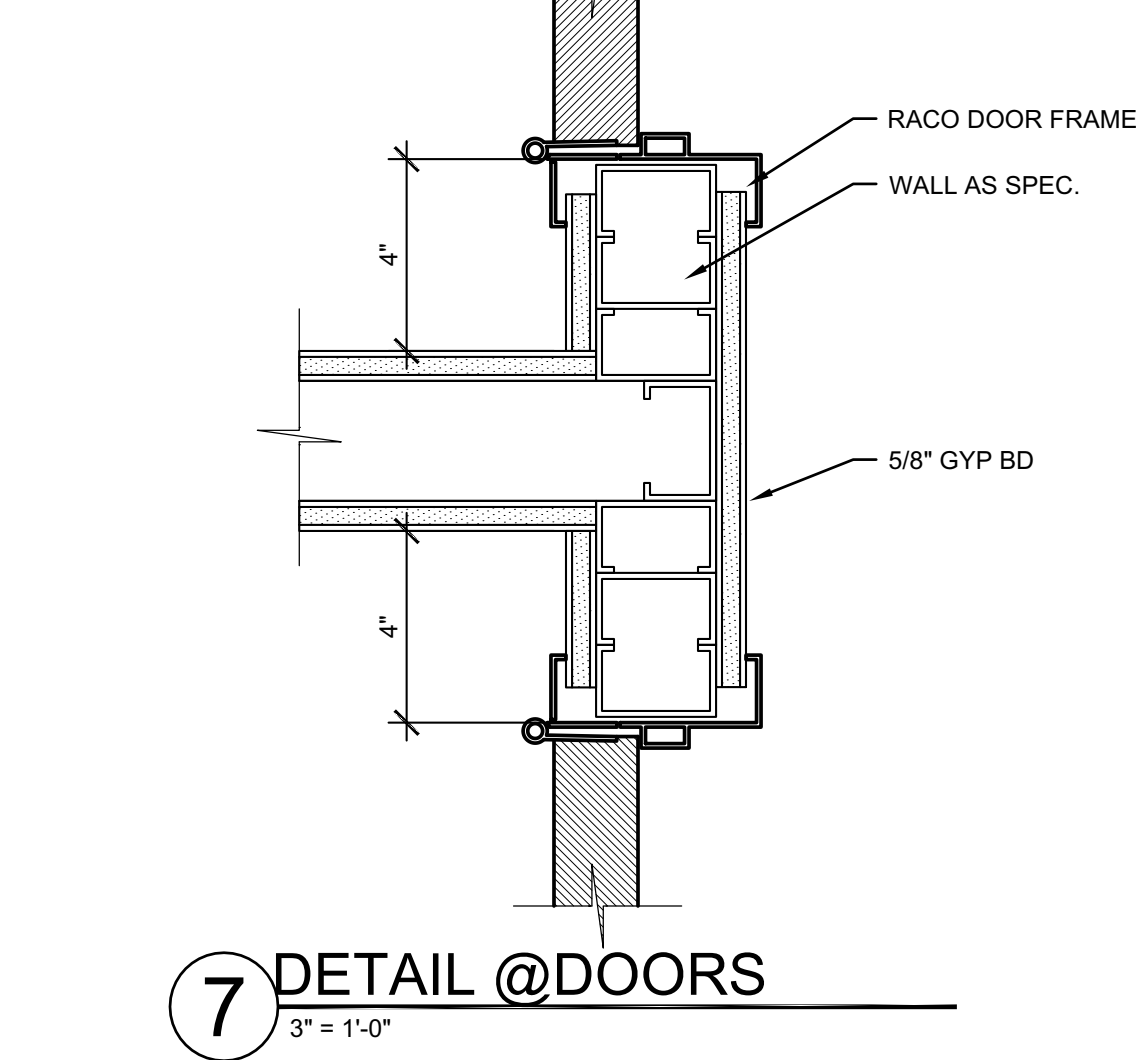




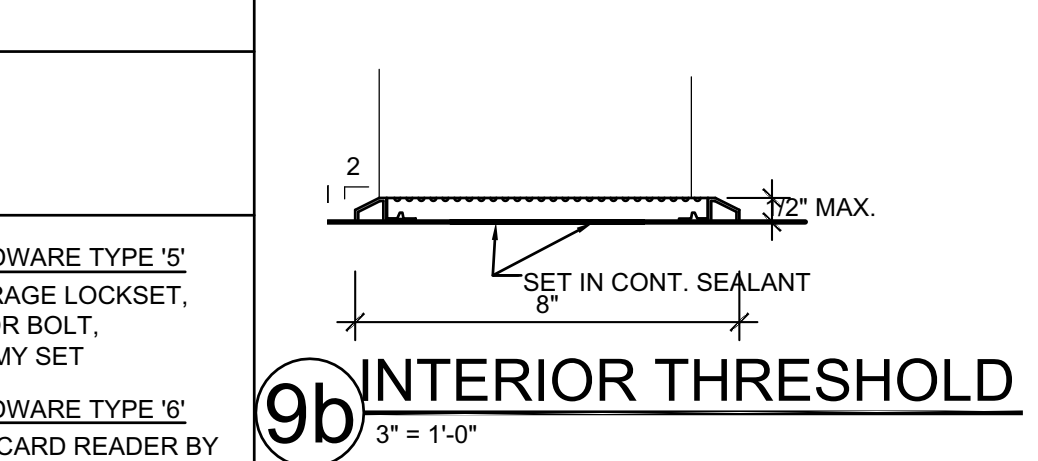
11 DOOR SCHEDULE
3/8" = 1'-0"

HARDWARE SCHEDULE	
BUILDING STANDARD WOOD-BROWN STAIN black laminate preferred HAGER HINGES - FALCON SCR1 CLOSERS YALE 4600 AU LEVERS MICRO-SHIELD WITH IC CORES TIMELY ALUMATONE FRAMES 50S SERIES IN HALLWAYS. SIZES ARE VARY IN HEIGHT RE: DOOR SCHEDULE AND PLAN. 36S FRAMES FOR INTERIORS HARDWARE FINISH: 626 SATIN CHROME	
NOTES: 1. GC SHALL CONTACT OWNER'S SECURITY VENDOR PRIOR TO ORDERING, TYP. 2. HARDWARE TO BE MOUNTED AT 38" A.F.F. UNDERCUT DOORS 3/8"-1/2" A.F.F. 3. ALL DOORS TO HAVE TAS COMPLIANT HARDWARE. CLOSERS MAX 5 LBS OPENING FORCE. 4. REFER FLOOR PLAN FOR DOOR SWING.	
HARDWARE TYPE '1' 2-WAY HINGES, CLOSER, SMOKE SEAL, NEW LOCKSET PUSH/PULL	HARDWARE TYPE '2' CHAMPAGNE ANODIZED FINISH STANDARD 4" BOTTOM RAILS, NARROW STILE RAILS, MS HOOK LOCK, STANDARD MUNTINS, 1" GLASS STOPS EMERGENCY BREAKAWAY
HARDWARE TYPE '3' ENTRY LOCKSET, CLOSER FLOOR STOP	HARDWARE TYPE '4' CLOSER, LOCKSET PUSH/PULL, KICKPLATE
HARDWARE TYPE '5' STORAGE LOCKSET, FLOOR BOLT, DUMMY SET	HARDWARE TYPE '6' ADD CARD READER BY SECURITY VENDOR. FREE EGRESS AT ALL TIMES

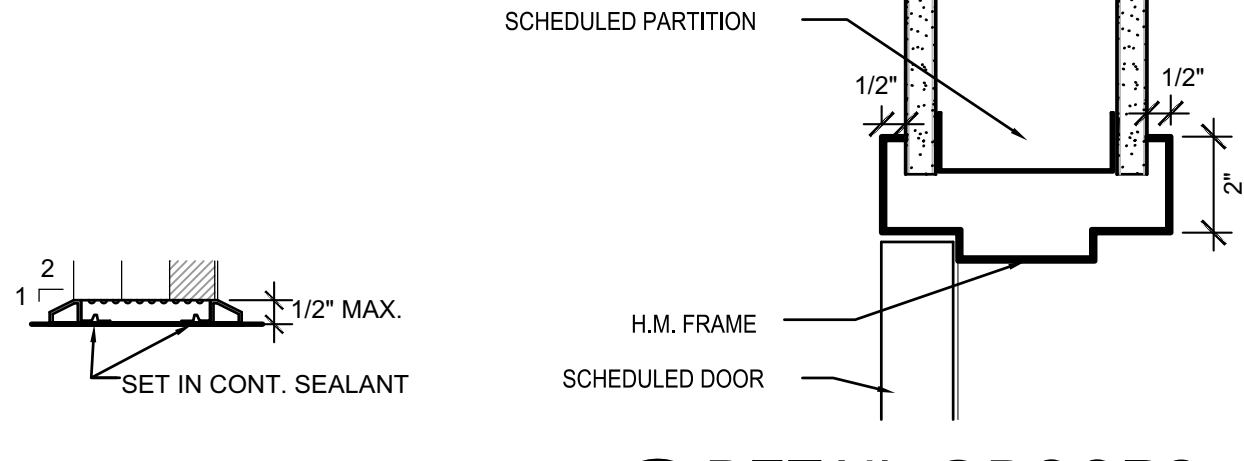
10 HARDWARE SCHEDULE
1/8" = 1'-0"



A PARTITION TYPE "A"
STANDARD PARTITION

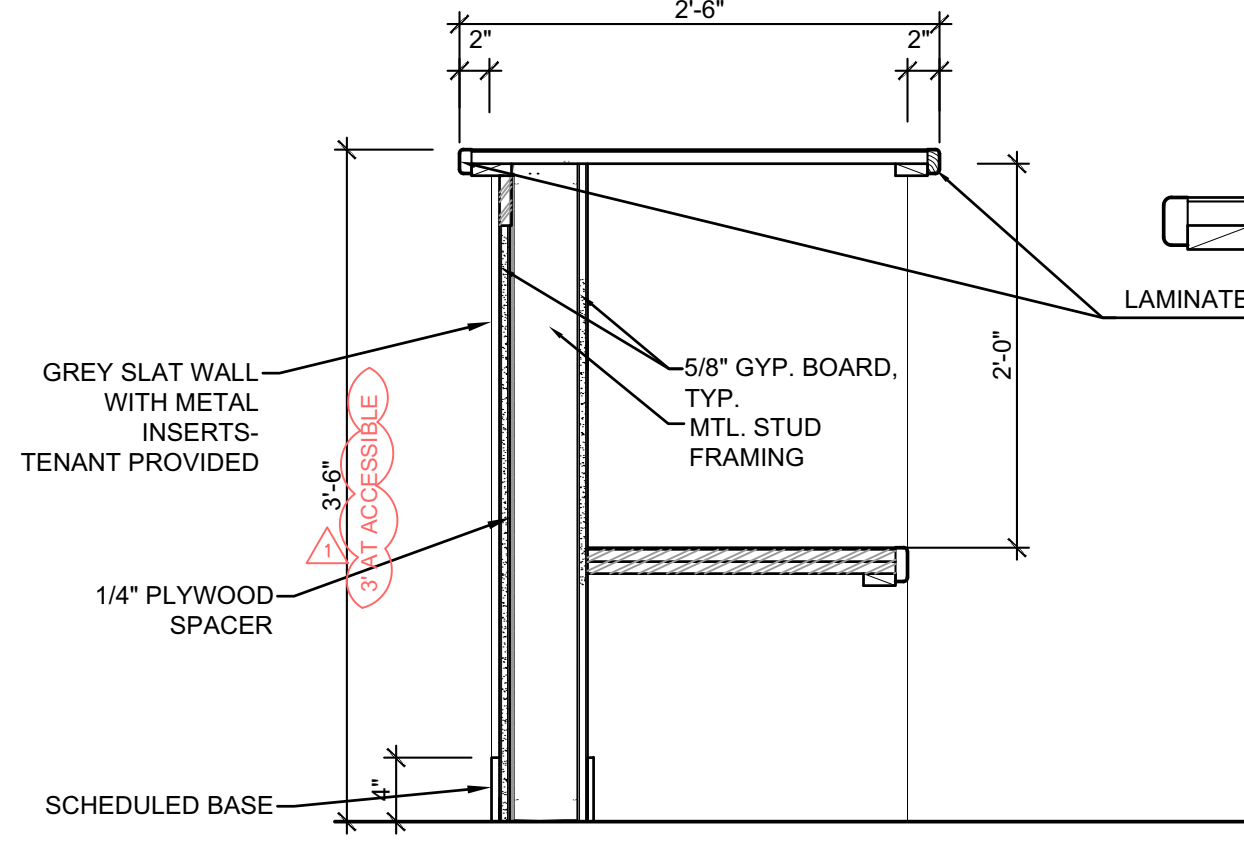


9b INTERIOR THRESHOLD
3" = 1'-0"

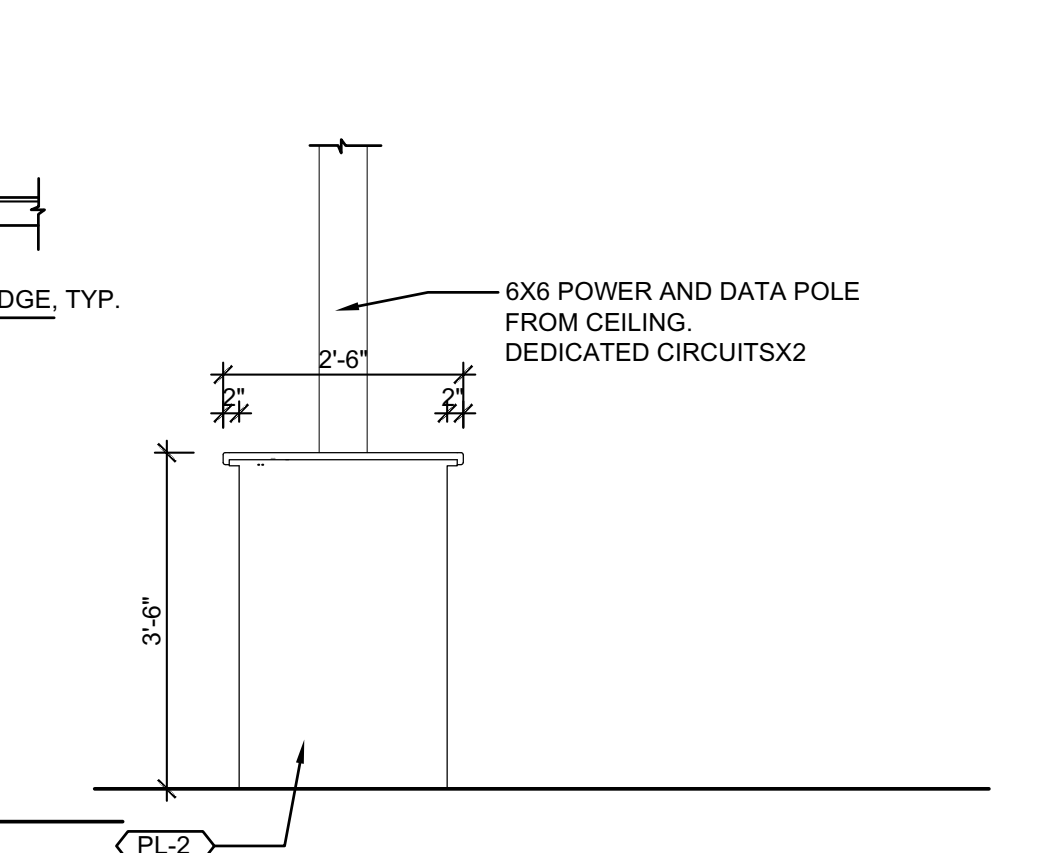


9a INTERIOR THRESHOLD
3" = 1'-0"

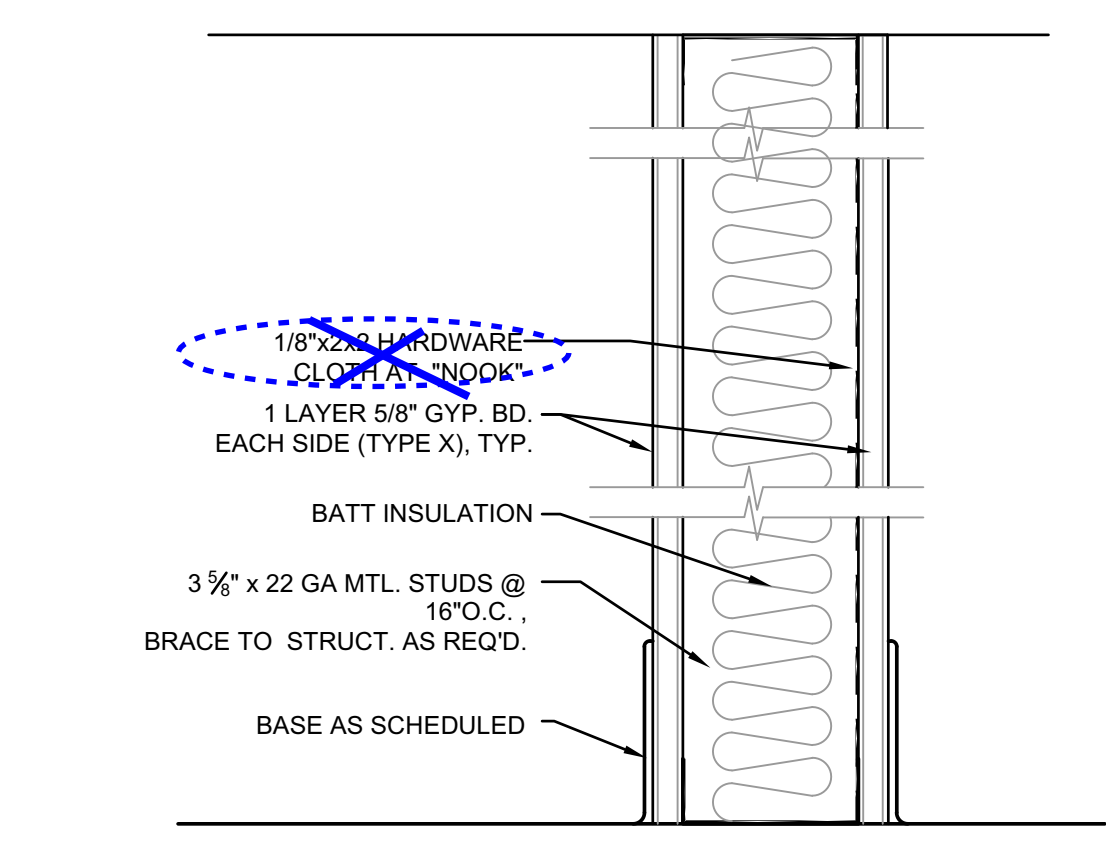
8 DETAIL @ DOORS
3" = 1'-0"



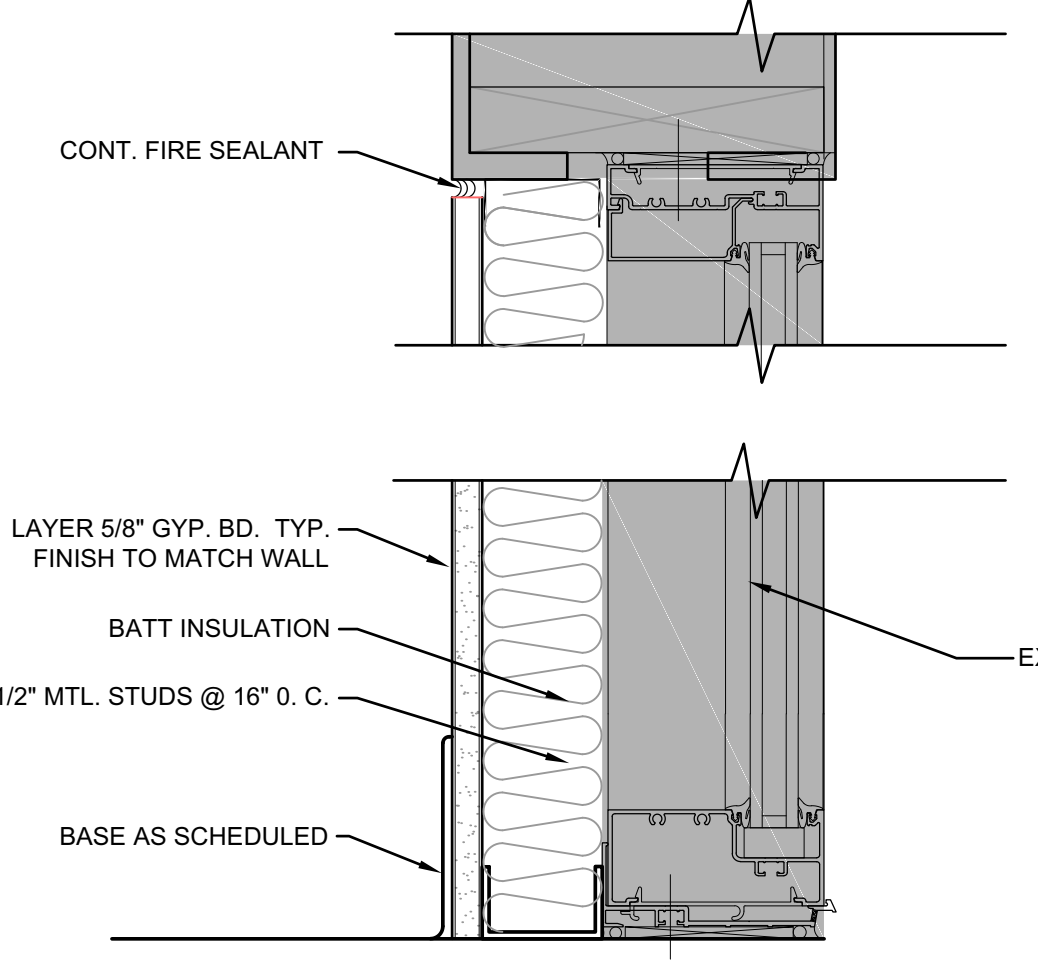
6 COUNTER SECTION
1" = 1'-0"



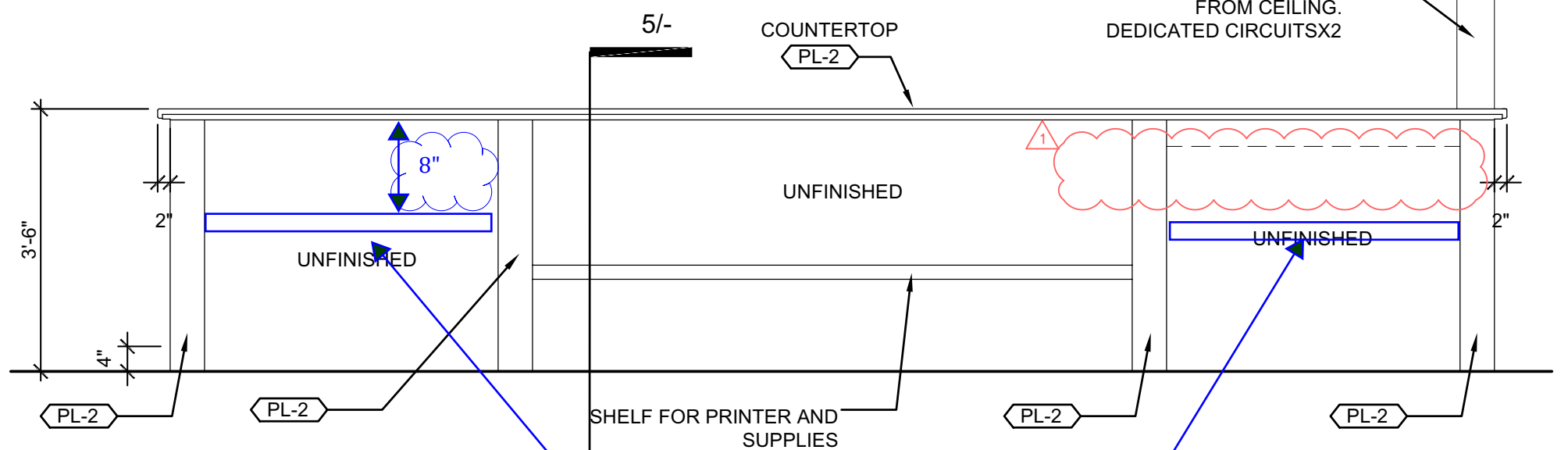
5 COUNTER ELEVATION
1/2" = 1'-0"



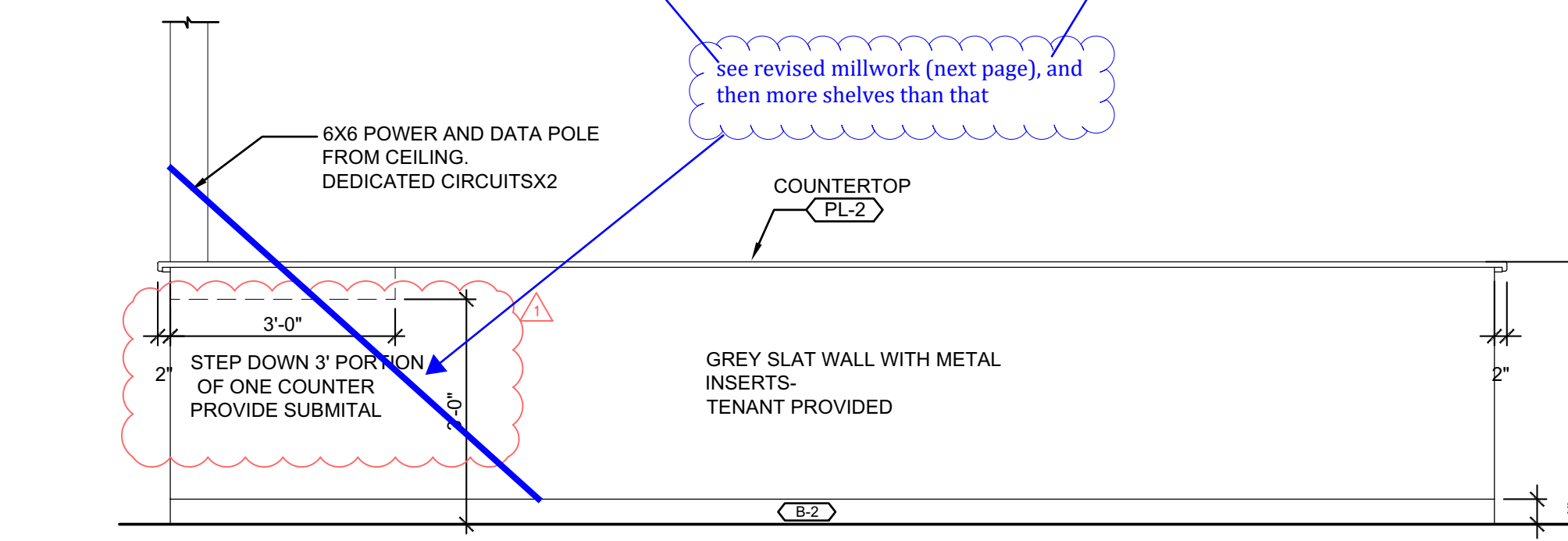
C PARTITION TYPE "C"
DEMISING PARTITION



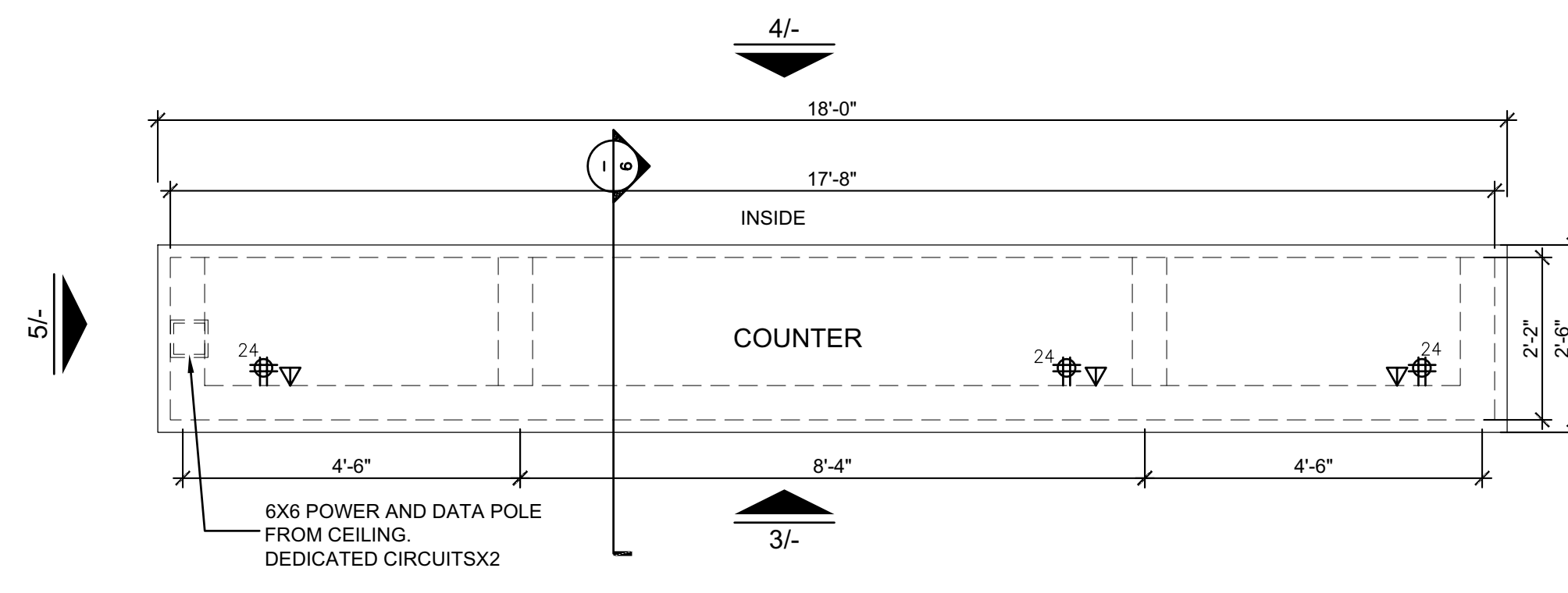
D PARTITION TYPE "D"
DEMISING PARTITION



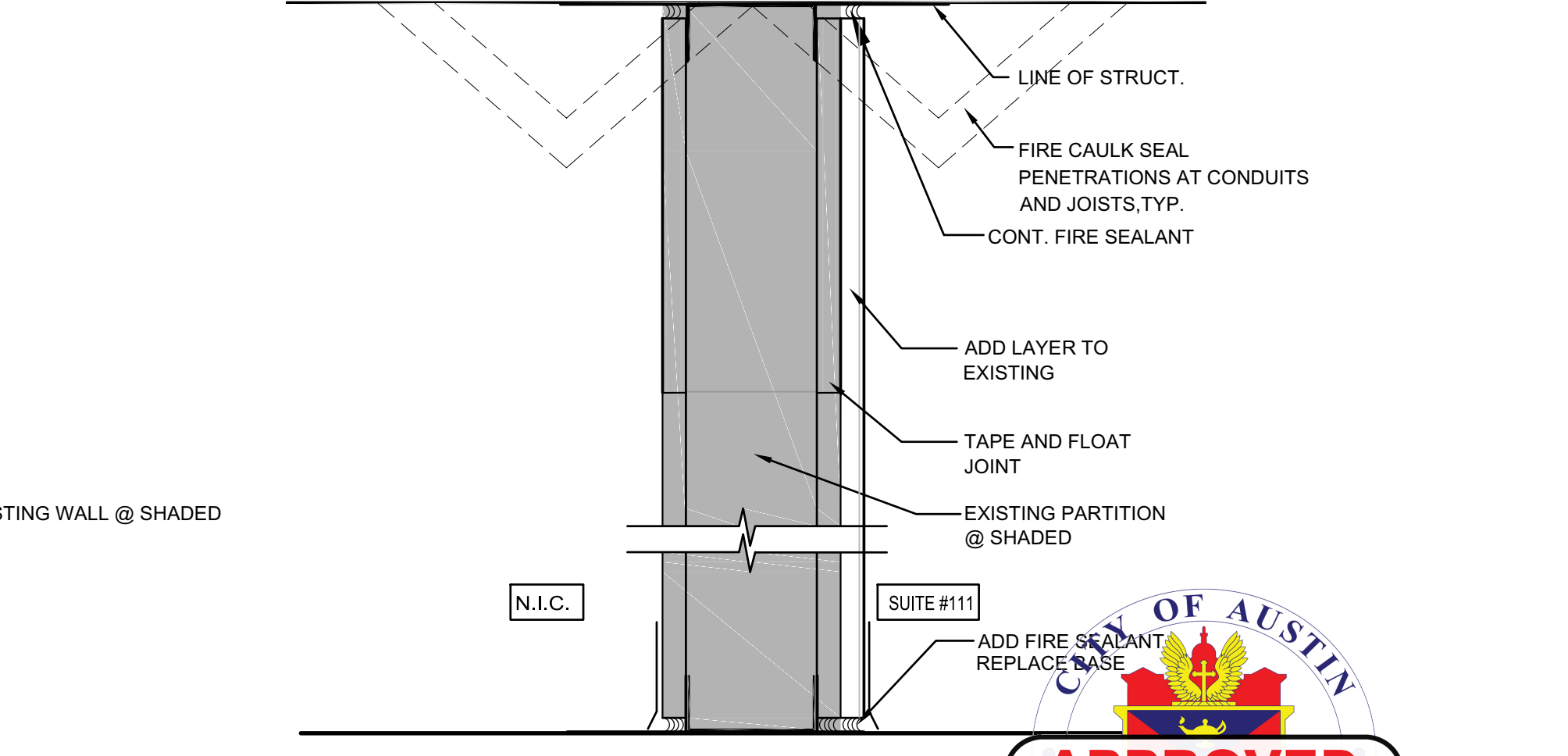
4 COUNTER ELEVATION
1/2" = 1'-0"



3 COUNTER ELEVATION
1/2" = 1'-0"



2 ENLARGED COUNTER PLAN
1/2" = 1'-0"



Fe PARTITION TYPE "Fe"
ONE HOUR RATED - MODIFIED EXISTING (UL DESIGN: U419)

APPROVED
Date 06/22/21

REVIEWED FOR CODE COMPLIANCE

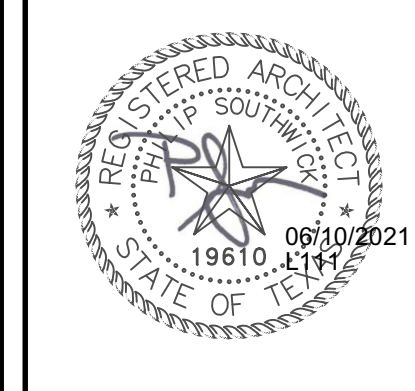
REVISIONS	
▲ CITY COMMENTS	
DATE:	04/26/2021
DRAWN:	TC
CHECKED:	

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ASBUILTS FROM GC FILES

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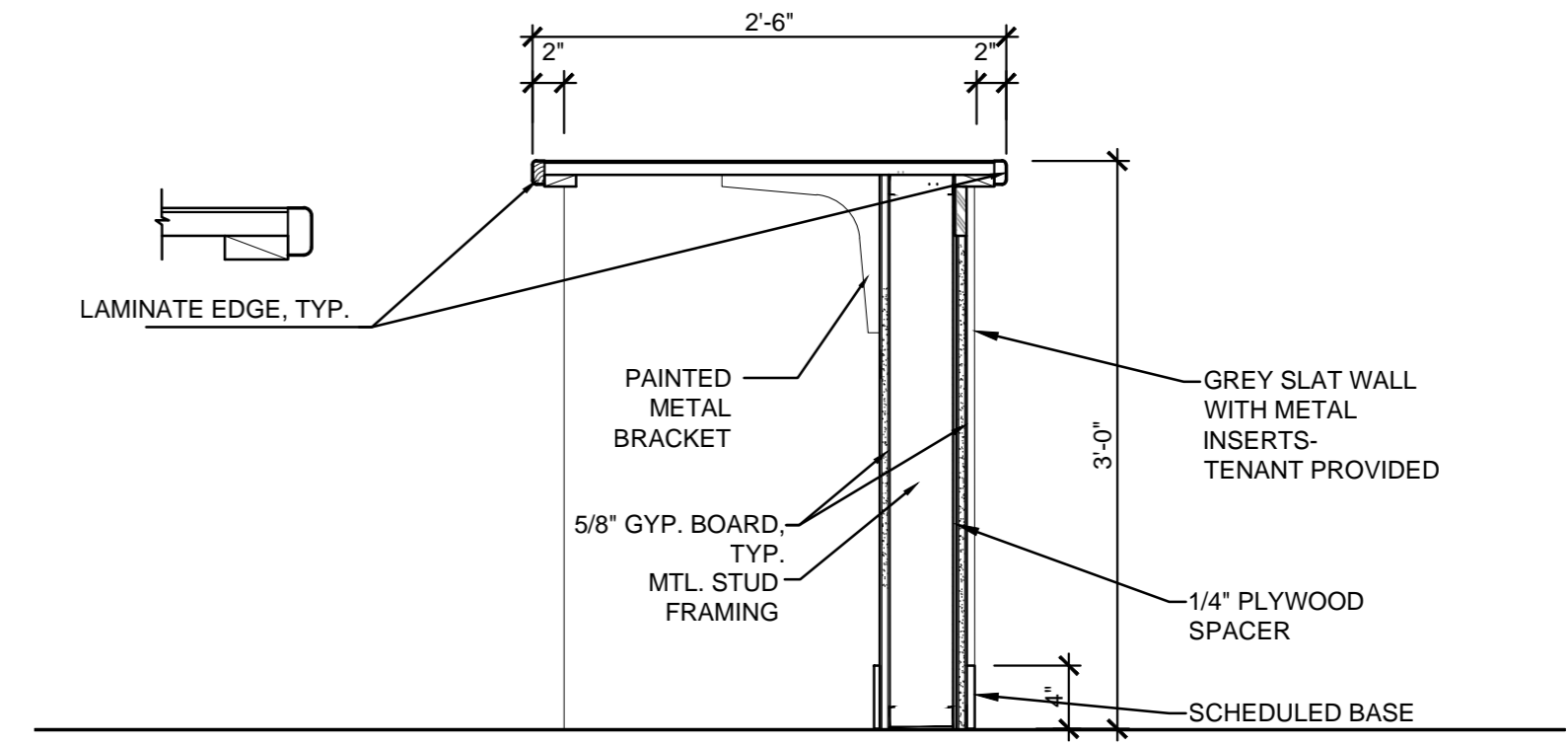
JOB NO. 3668

DOOR / WALL DETAILS

SHEET

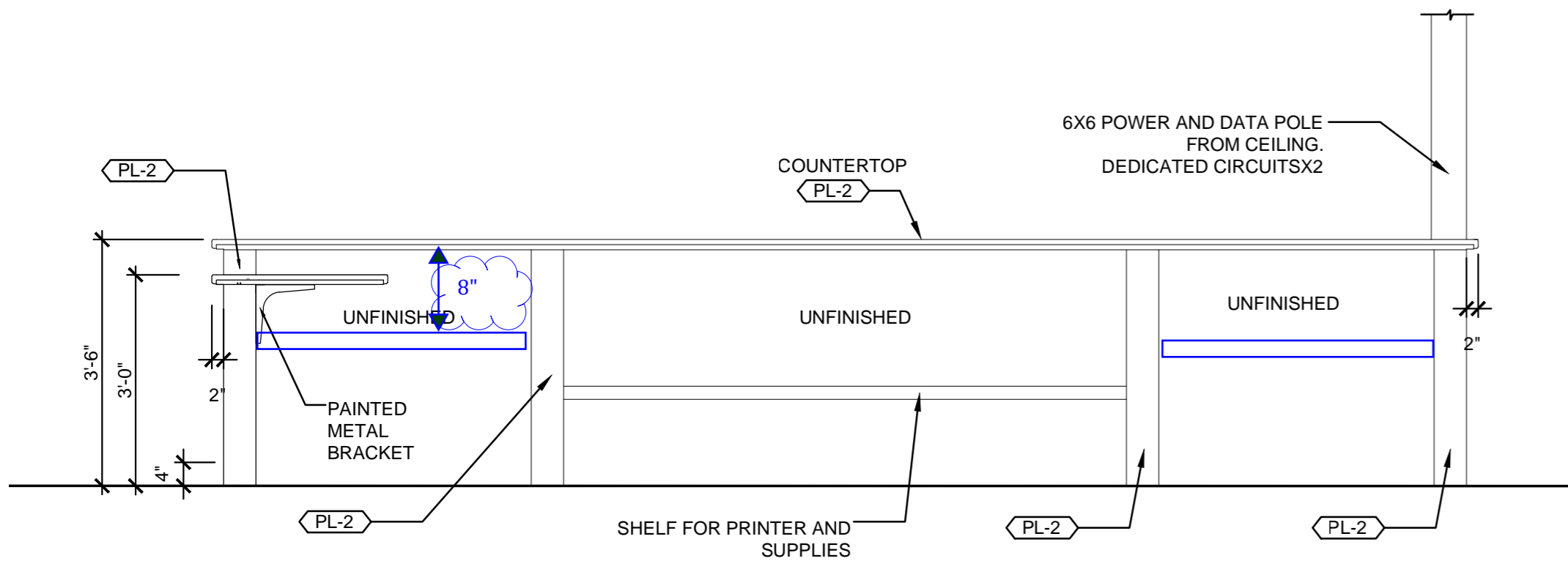
A3.2

ISSUE FOR city comment responses

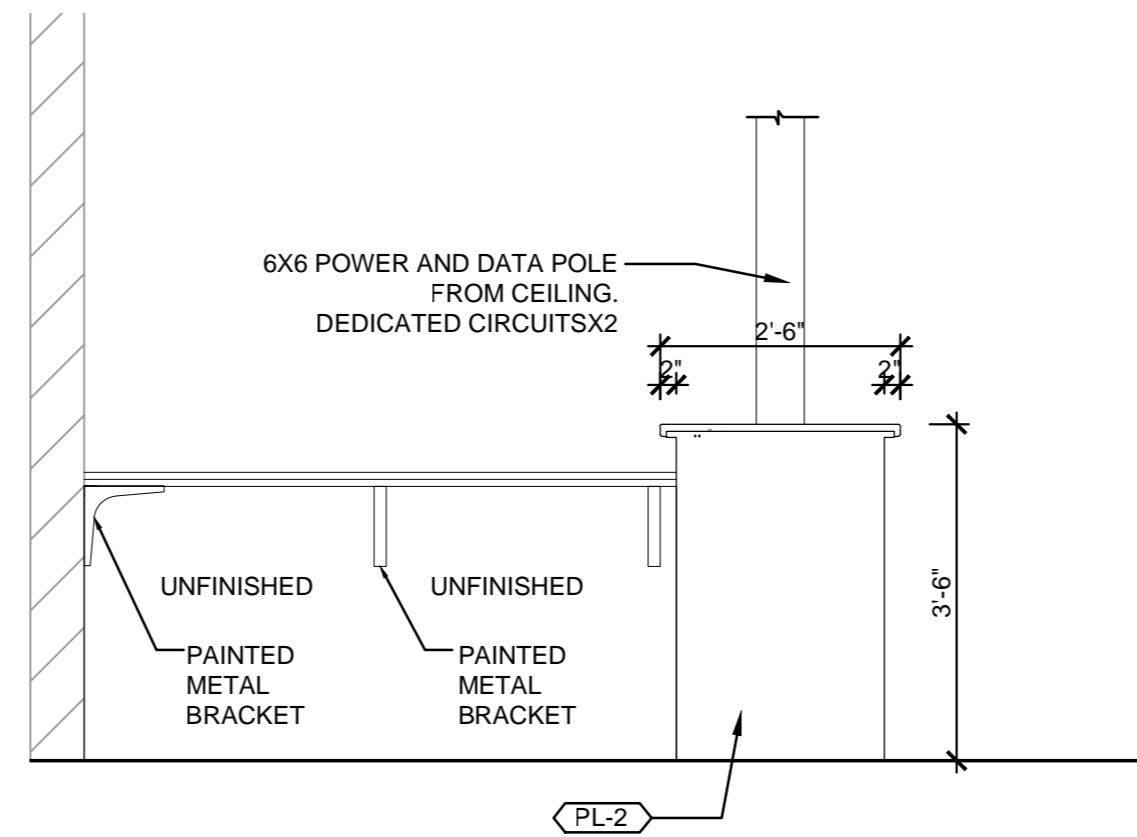


NOTE: ALL EXPOSED SURFACES (EXCEPT FRONT WALL RE-COUNTER ELEVATION) AND SHELVES TO BE PLASTIC LAMINATE (PL-2) ON 3/4\"/>

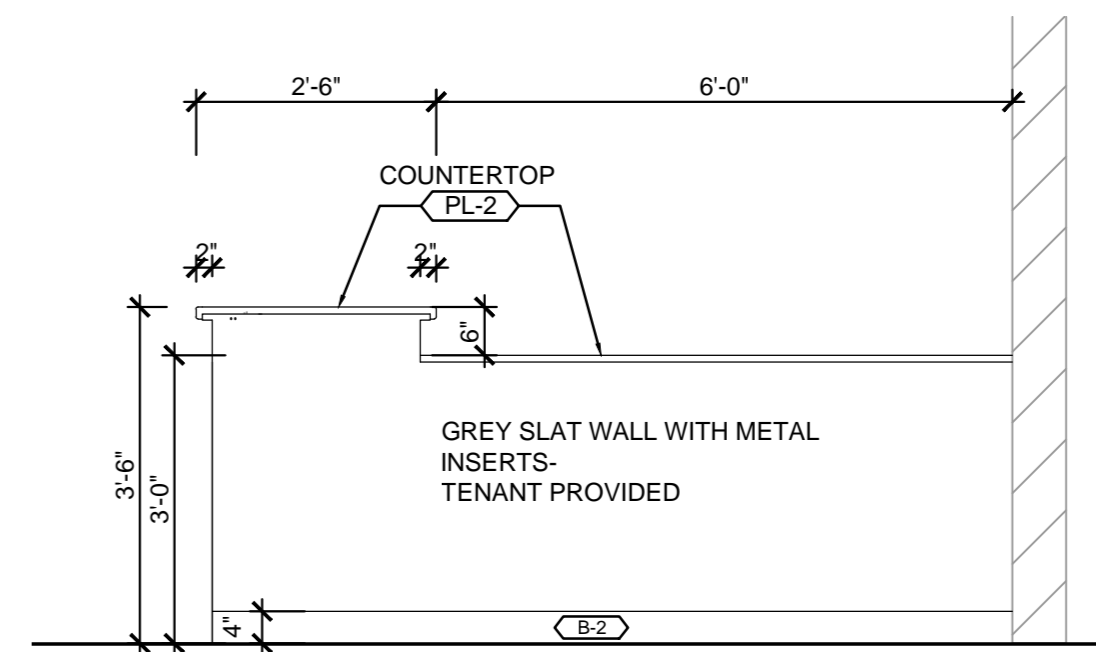
3 COUNTER 2 SECTION
1/2" = 1'-0"



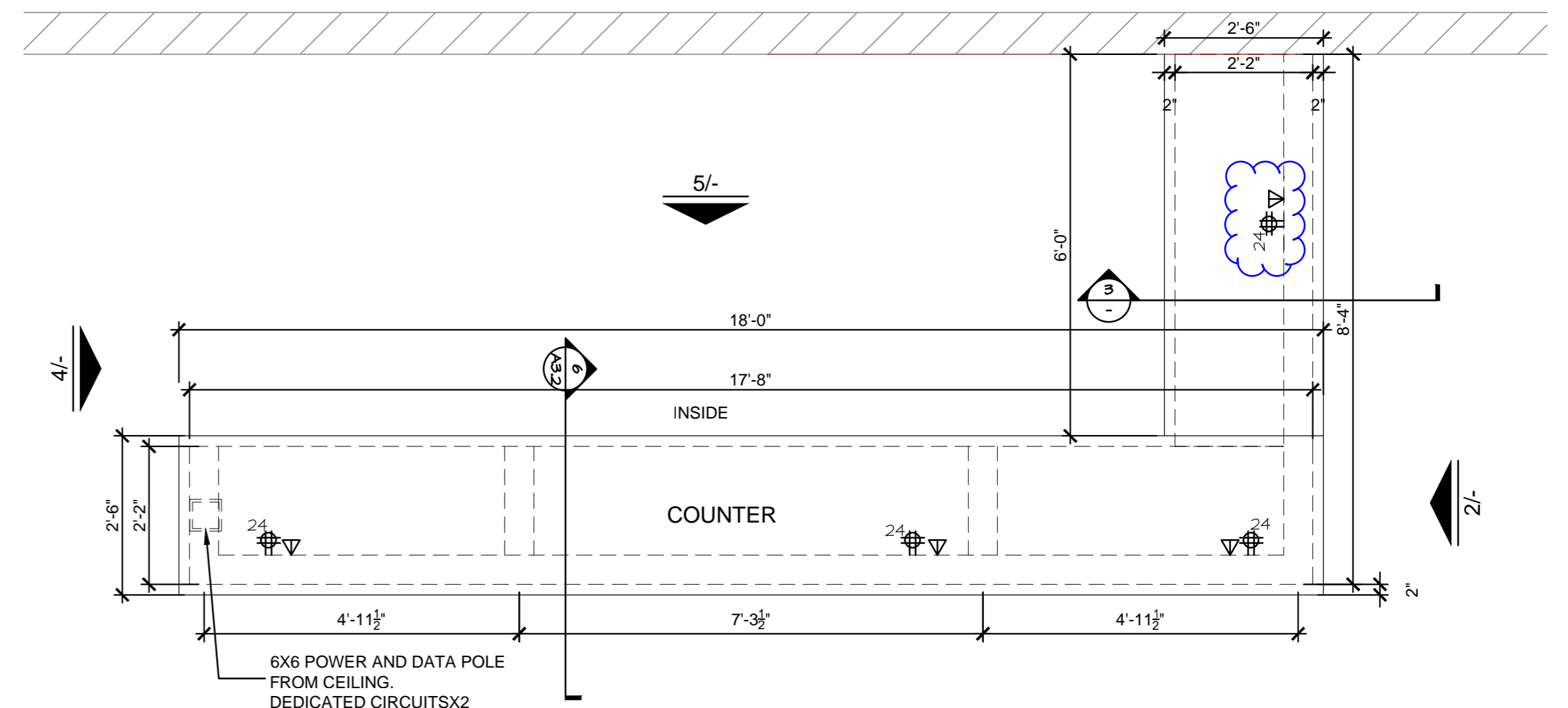
5 COUNTER 2 ELEVATION
1/2" = 1'-0"



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



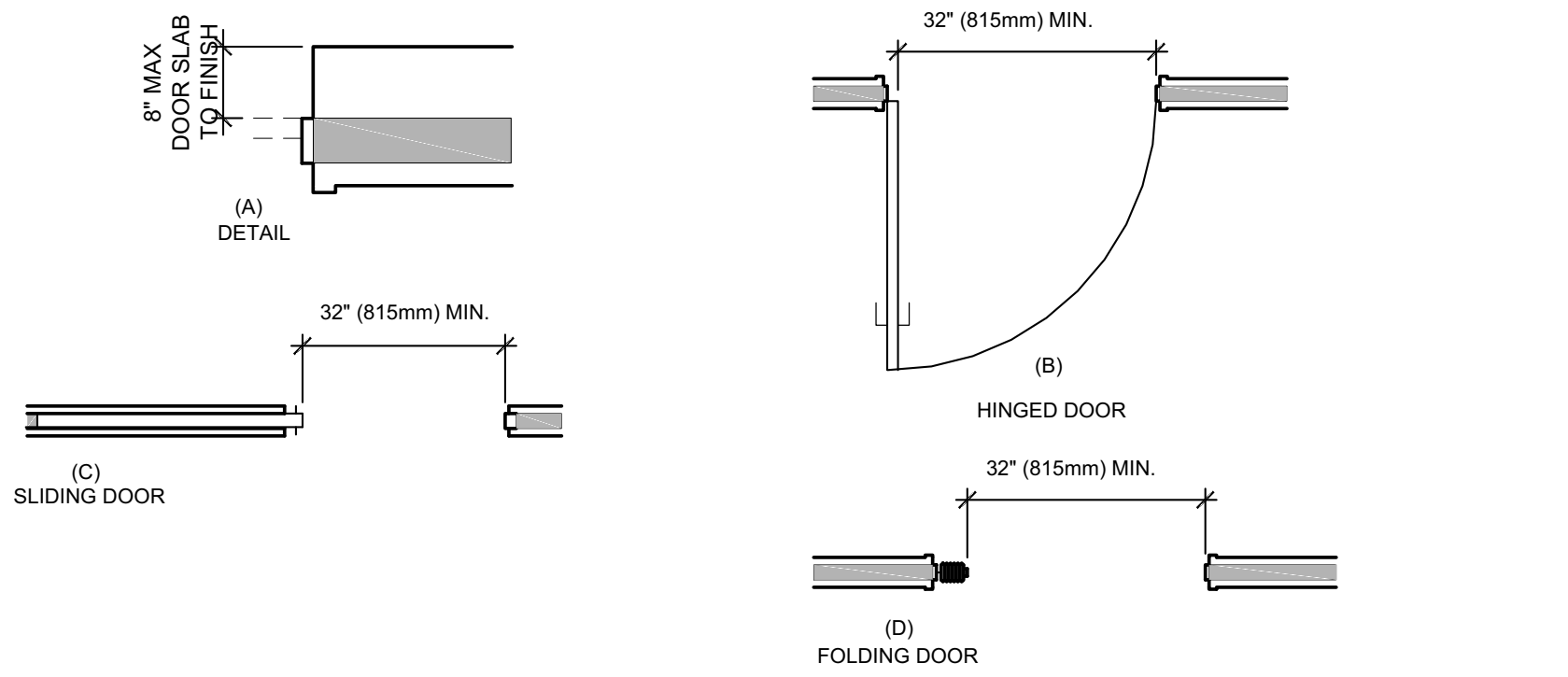
2 COUNTER 2 ELEVATION
1/2" = 1'-0"



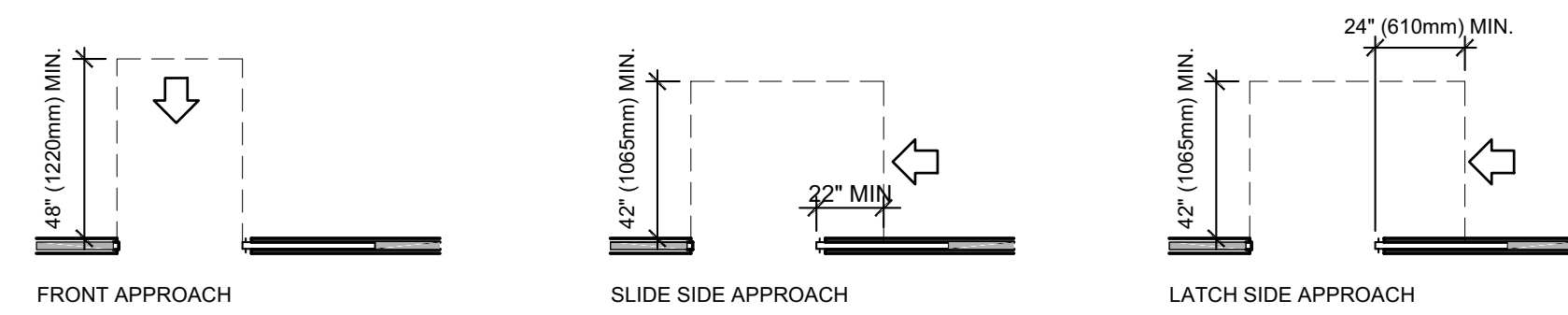
1 ENLARGED COUNTER 2 PLAN
1/2" = 1'-0"

- DOORS AND ENTRANCES:**
1. ACCESSIBLE ENTRANCES TO AND EXITS FROM A BUILDING MUST BE PROVIDED
 2. MANEUVERING CLEARANCES AT DOORS SHALL BE LEVEL (1:50 MAXIMUM SLOPE) AND CLEAR IF DOORS ARE NOT AUTOMATIC OR POWER ASSISTED.
 3. GATES MUST MEET ACCESSIBLE REQUIREMENTS FOR DOORS.
 4. PROVIDE ACCESSIBLE DOORS OR GATES ADJACENT TO REVOLVING DOORS AND TURNSTILES
 5. DOUBLE-LEAF DOORS SHALL HAVE AT LEAST THE ACTIVE LEAF MEET ALL DOOR REQUIREMENTS.
 6. ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

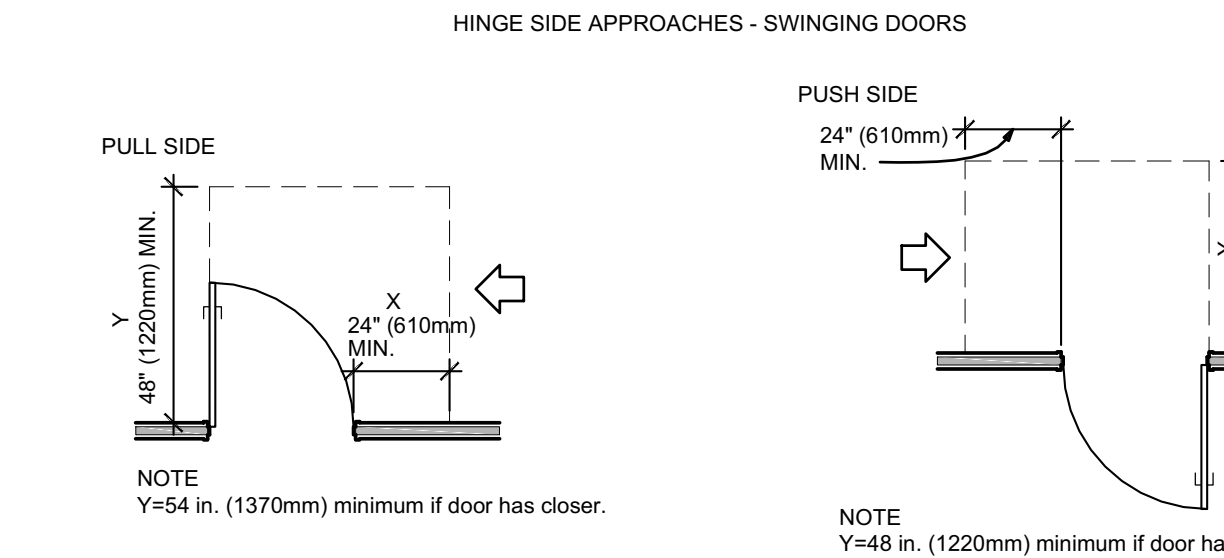
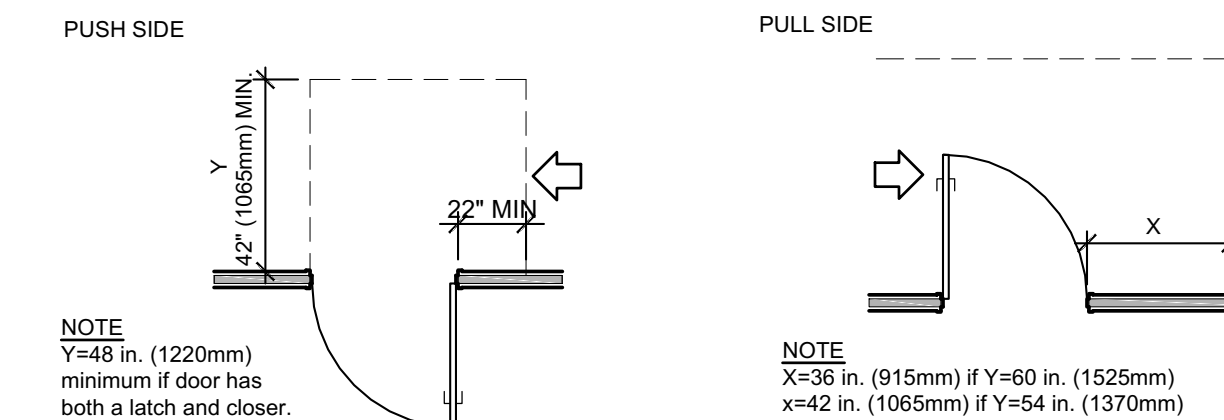
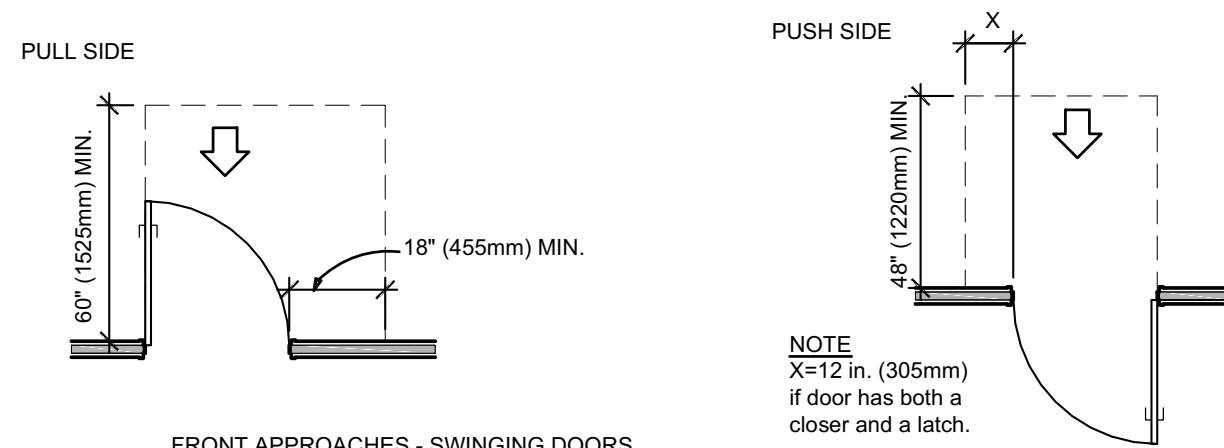
- HARDWARE AND CONTROLS:**
1. DOOR PASSAGE HARDWARE: SHAPE EASY TO GRASP WITH ONE HAND. DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
 2. INTERIOR DOOR OPENING FORCE: NO MORE THAN 5 LBF (22.2 N) UNLESS GREATER REQUIRED FOR FIRE DOORS.
 3. AUTOMATIC AND POWER-ASSISTED DOORS ARE ACCESSIBLE. SEE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR FURTHER REQUIREMENTS.



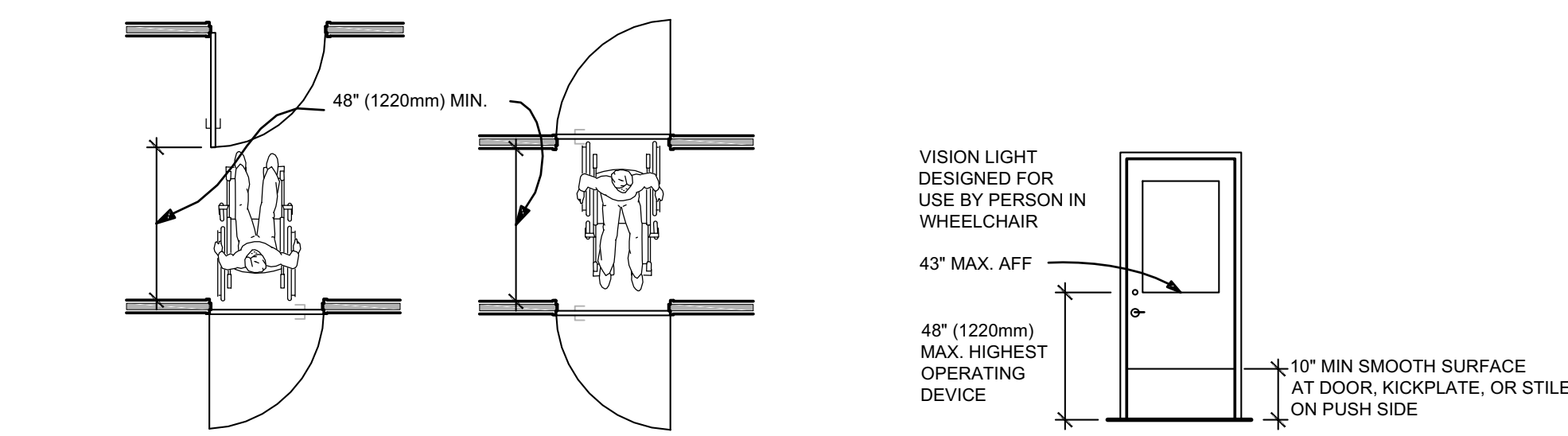
CLEAR DOORWAY WIDTH AND DEPTH



LATCH SIDE APPROACH - SLIDING DOORS AND FOLDING DOORS



LATCH SIDE APPROACHES - SWINGING DOORS



TWO HINGED DOORS IN SERIES

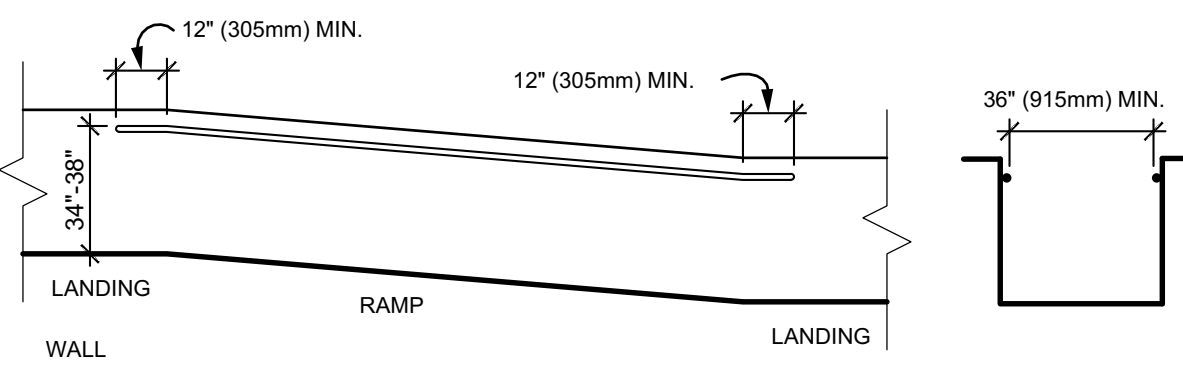
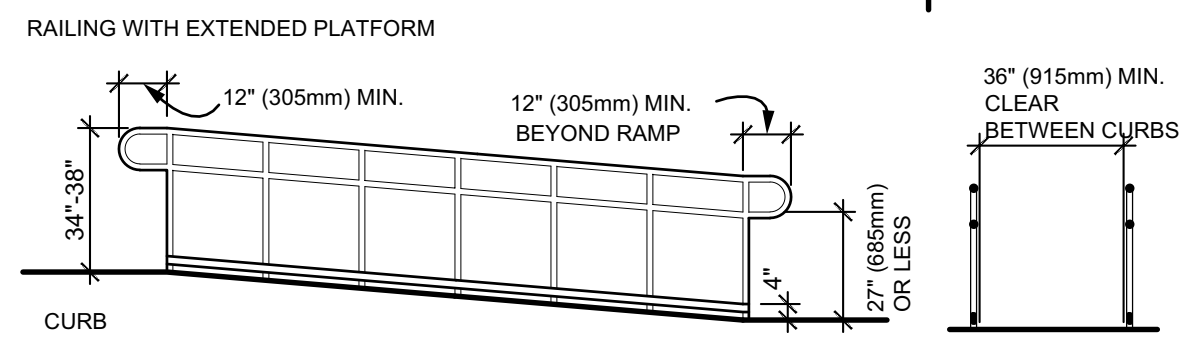
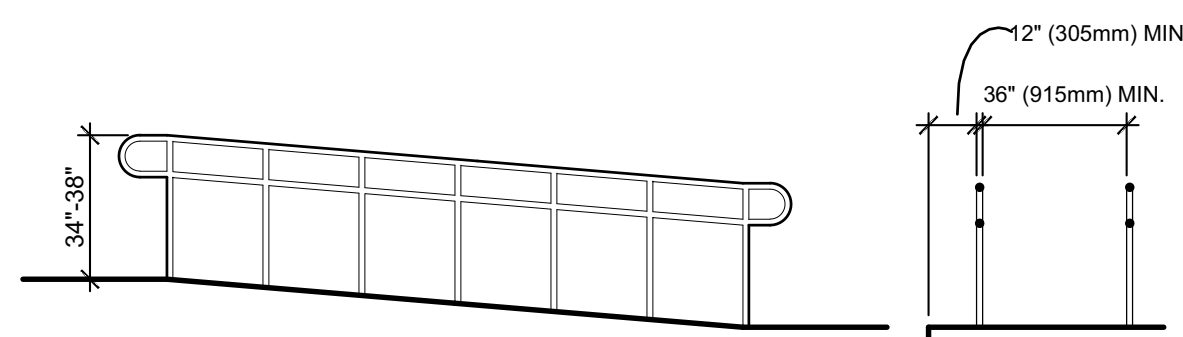
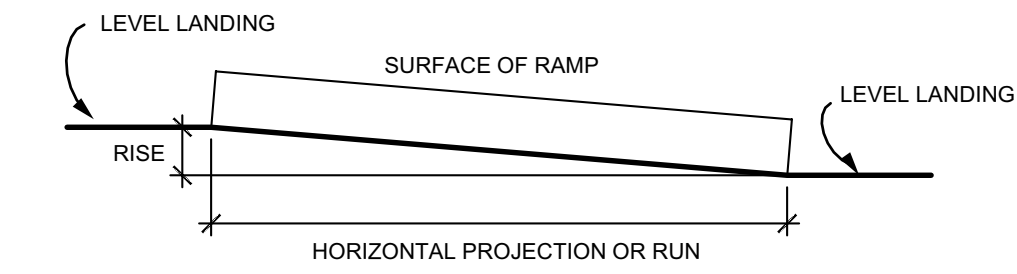
404 DOORS, DOORWAYS, AND GATES

- RAMP:**
1. PROVIDE AT ACCESSIBLE ROUTE; SLOPES GREATER THAN 1:20 ARE CONSIDERED RAMPS.
 2. SLOPE MAXIMUM 1:12; PROVIDE LEAST SLOPE POSSIBLE; MAXIMUM RISE OF 30 IN. PER RUN.
 3. LANDINGS SHOULD BE LEVEL AT TOP AND BOTTOM OF EACH RAMP RUN AND AT LEAST AS WIDE AS THE RUN LEADING TO IT. A 60 X 60 IN. LANDING IS REQUIRED WHERE RAMP CHANGES DIRECTION. IF THERE IS A DOOR AT THE LANDING, PROVIDE LEVEL MANEUVERING CLEARANCES.
 4. HANDRAILS REQUIRED: WHERE RISE IS GREATER THAN 6 IN. OR RUN IS GREATER THAN 72 IN.; BOTH SIDES; SEE HANDRAIL EXAMPLES AND NOTES.
 5. EDGE PROTECTION REQUIRED AT RAMPS AND LANDINGS WITH DROP-OFFS; SEE EXAMPLES.
 6. DESIGN OUTDOOR RAMPS AND APPROACHES SO THAT WATER WILL NOT ACCUMULATE ON SURFACE; MAXIMUM CROSS SLOPE OF 1:50.

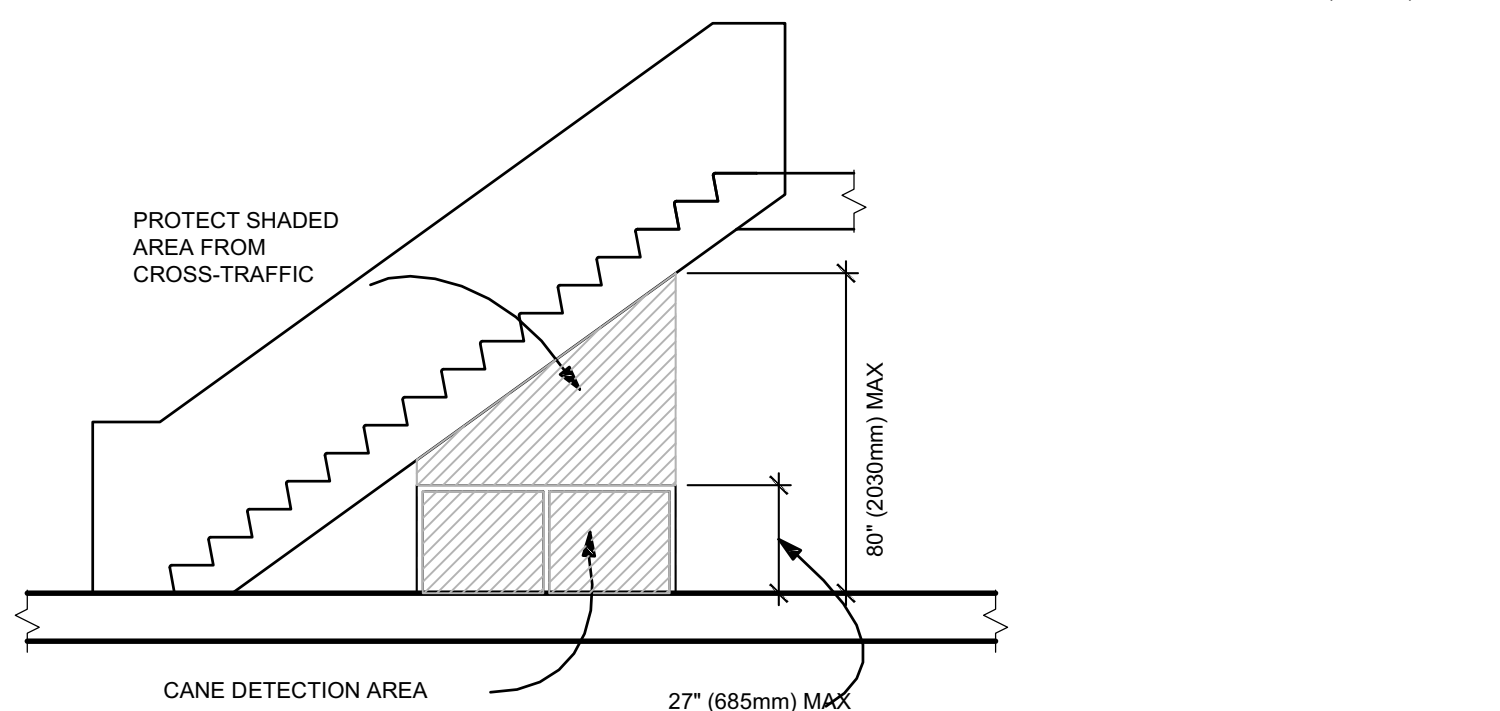
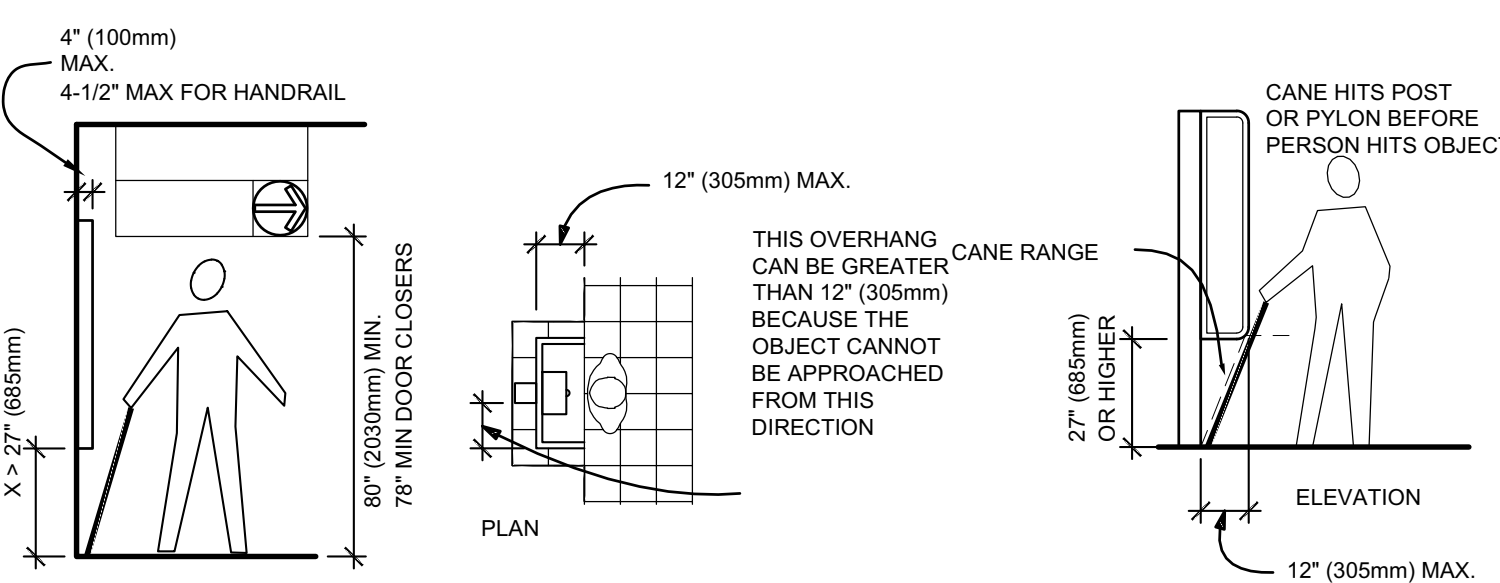
SAMPLE RAMP DIMENSIONS

SLOPE	MAXIMUM RISE	EXIST. BLDGS AND SITES ONLY
1:8 TO <1:10	3"	EXIST. BLDGS AND SITES ONLY
1:10 TO <1:12	6"	EXIST. BLDGS AND SITES ONLY
1:12 TO <1:20	30"	

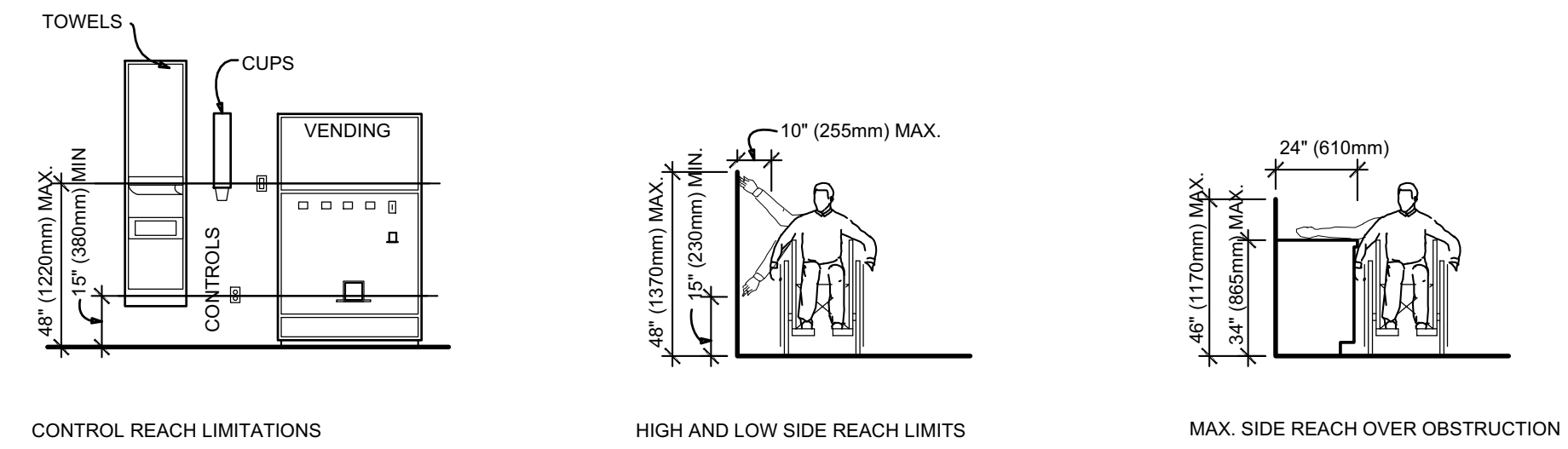
NOTE: SLOPE < 1:20 IS NOT A RAMP SO NO HANDRAILS ARE REQUIRED



405 RAMPS



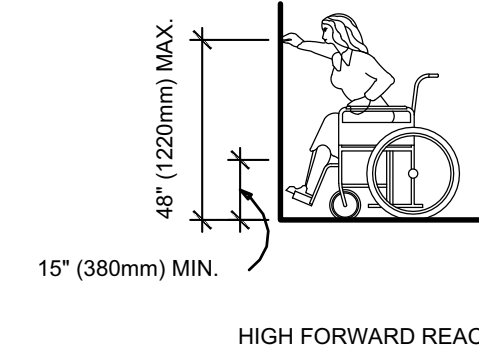
307 PROTRUDING OBJECTS



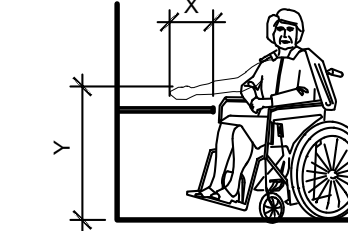
CONTROL REACH LIMITATIONS

HIGH AND LOW SIDE REACH LIMITS

MAX. SIDE REACH OVER OBSTRUCTION

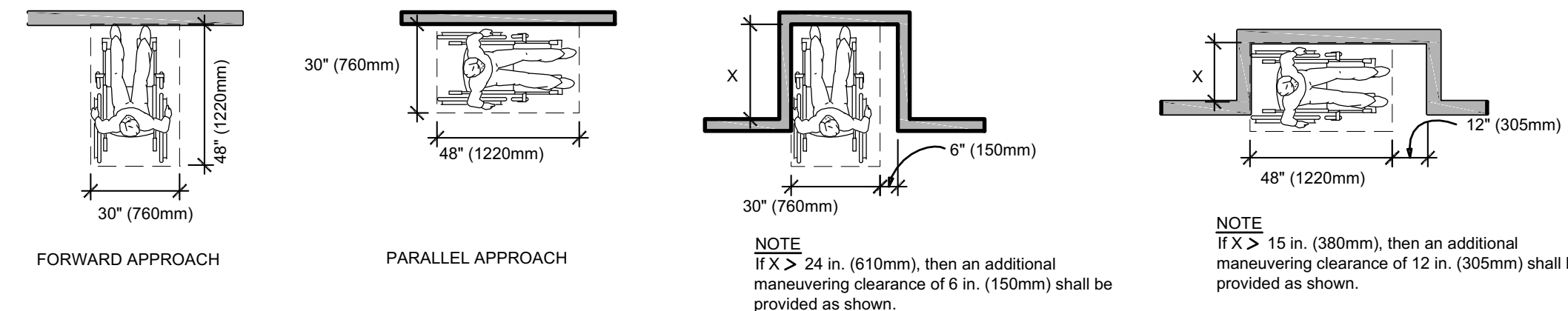


HIGH FORWARD REACH LIMIT

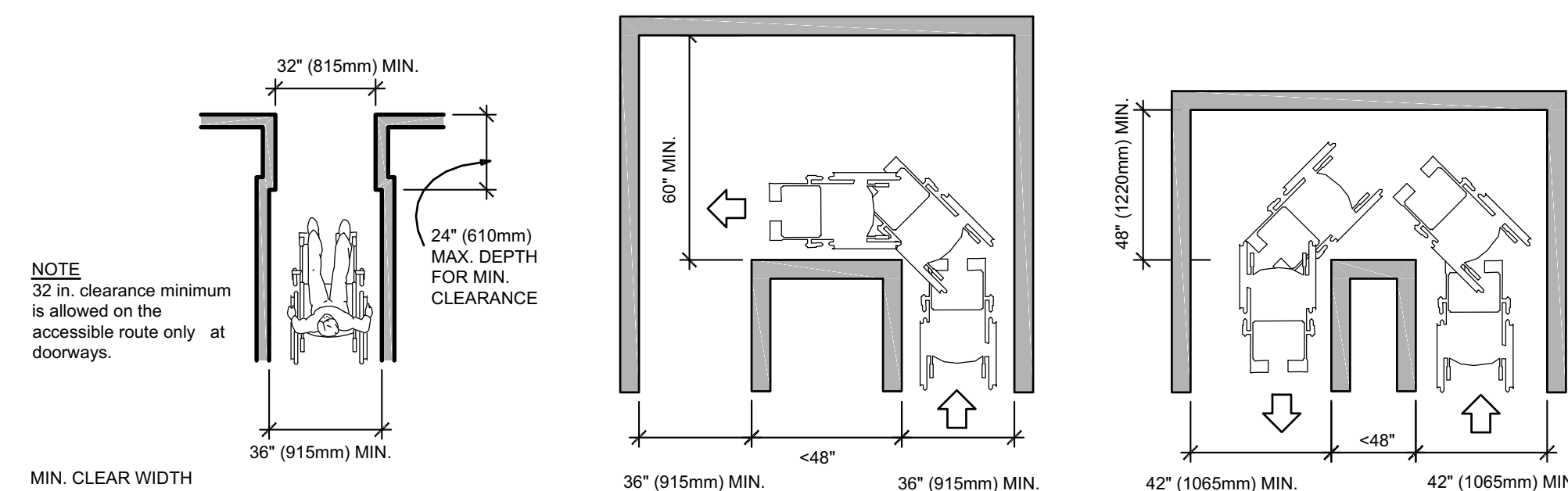


MAXIMUM FORWARD REACH OVER AN OBSTRUCTION

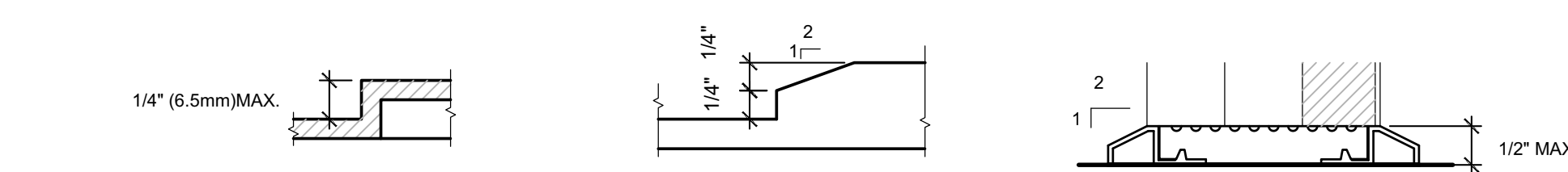
308 REACH RANGE



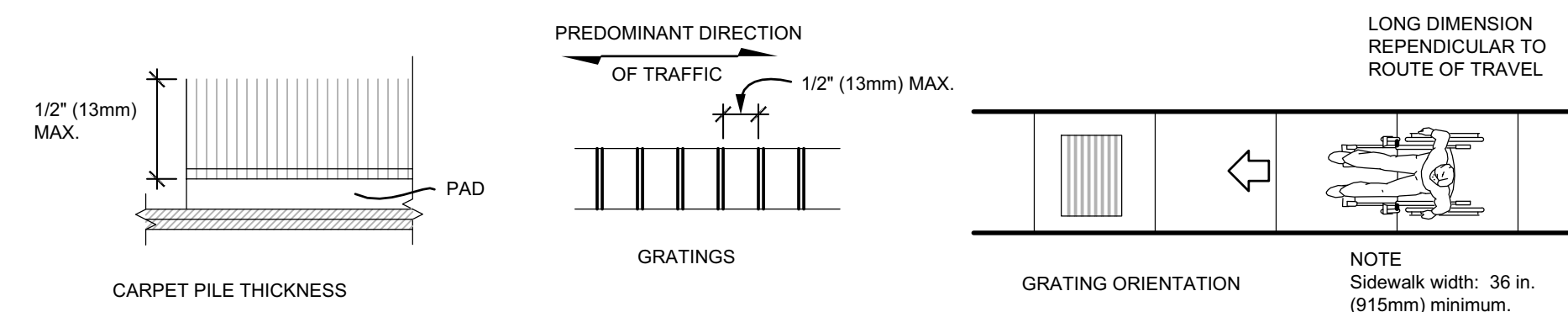
305 CLEAR FLOOR SPACE



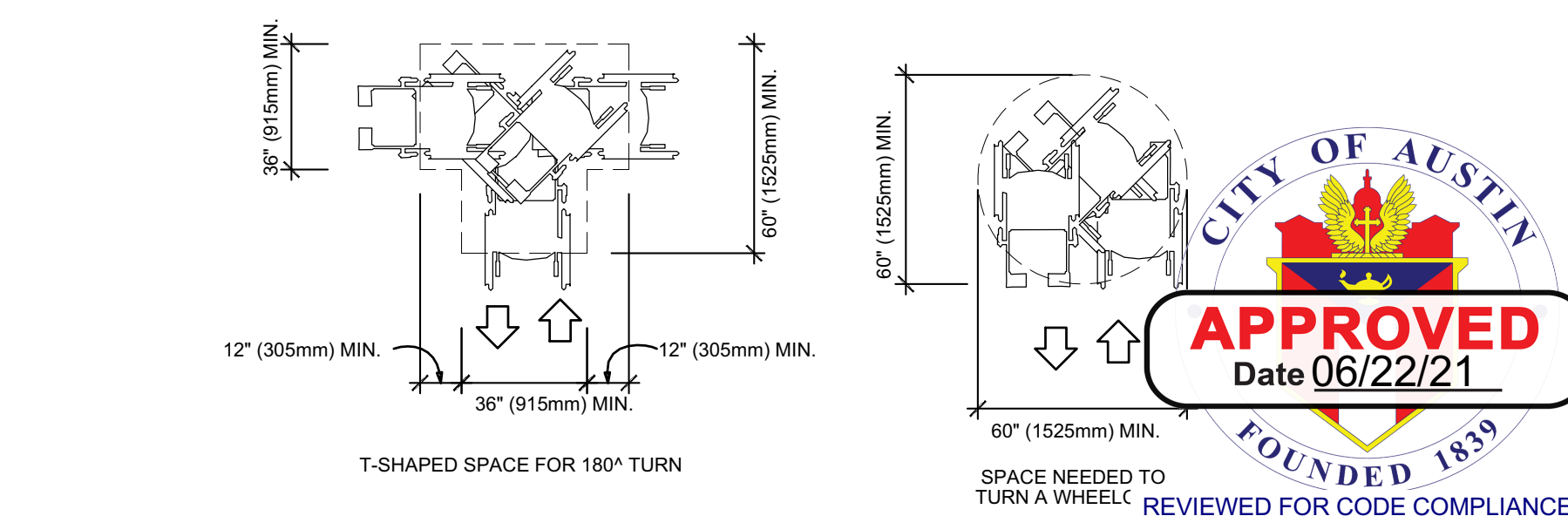
403 WALKING SURFACES



303 CHANGES IN LEVEL



302 GROUND AND FLOOR SURFACES



304 TURNING SPACE

REVISIONS

DATE: 04/26/2021

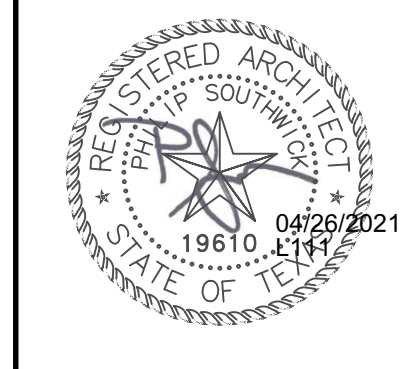
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JOB NO. 3668

TAS

SHEET

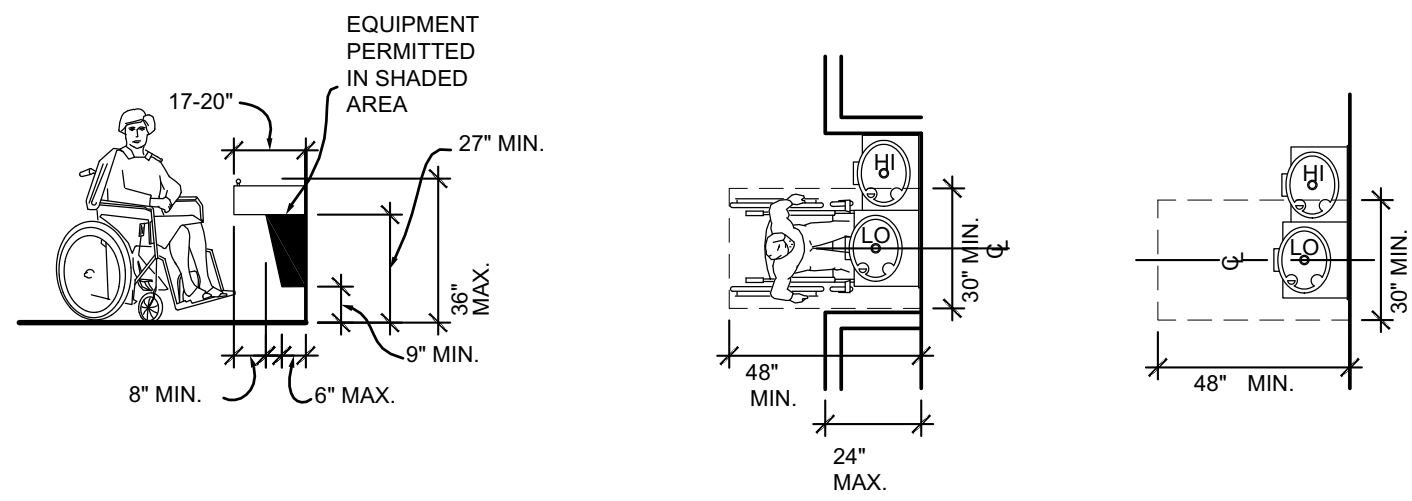
A5.1

ISSUE FOR PERMIT



NOTE:
BOTH HIGH AND LOW FOUNTAINS ARE REQUIRED, NO FEWER THAN 50% WHEELCHAIR ACCESSIBLE; OTHERS ARE TO BE LOCATED AT A STANDARD HEIGHT CONVENIENT TO THOSE WITH DIFFICULTY STOOPING. HIGH-LOW FOUNTAINS ARE REQUIRED WHEN ONLY ONE FOUNTAIN IS PROVIDED.

ADDITIONAL REQUIREMENTS FOR SPOUT LOCATION, ANGLE, FLOW, AND HI FOUNTAIN RE: 602

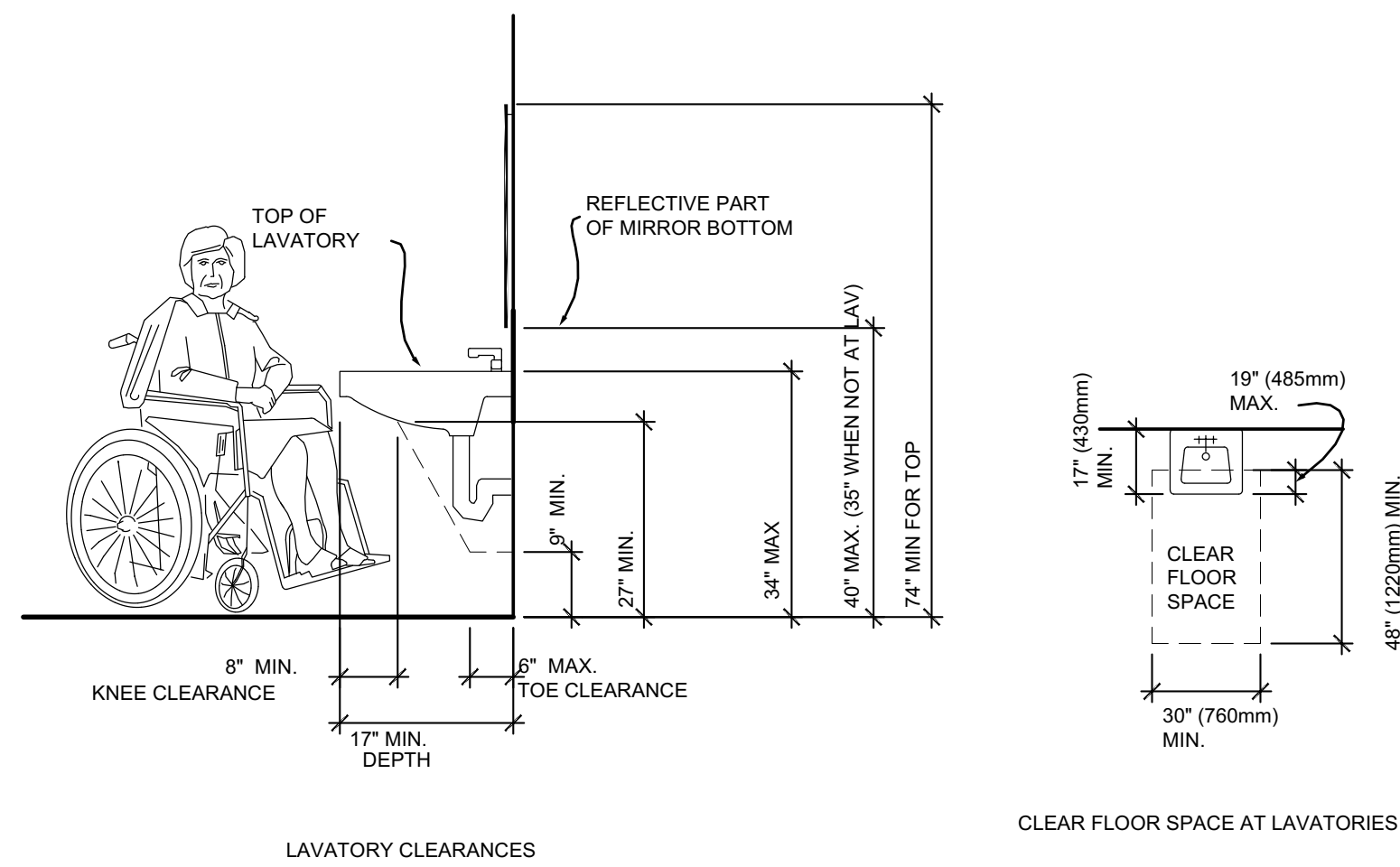


"LO" SPOUT HEIGHT AND KNEE CLEARANCE

CLEAR FLOOR SPACE AT LOW FOUNTAIN IN HILO

FREESTANDING FOUNTAIN OR COOLER

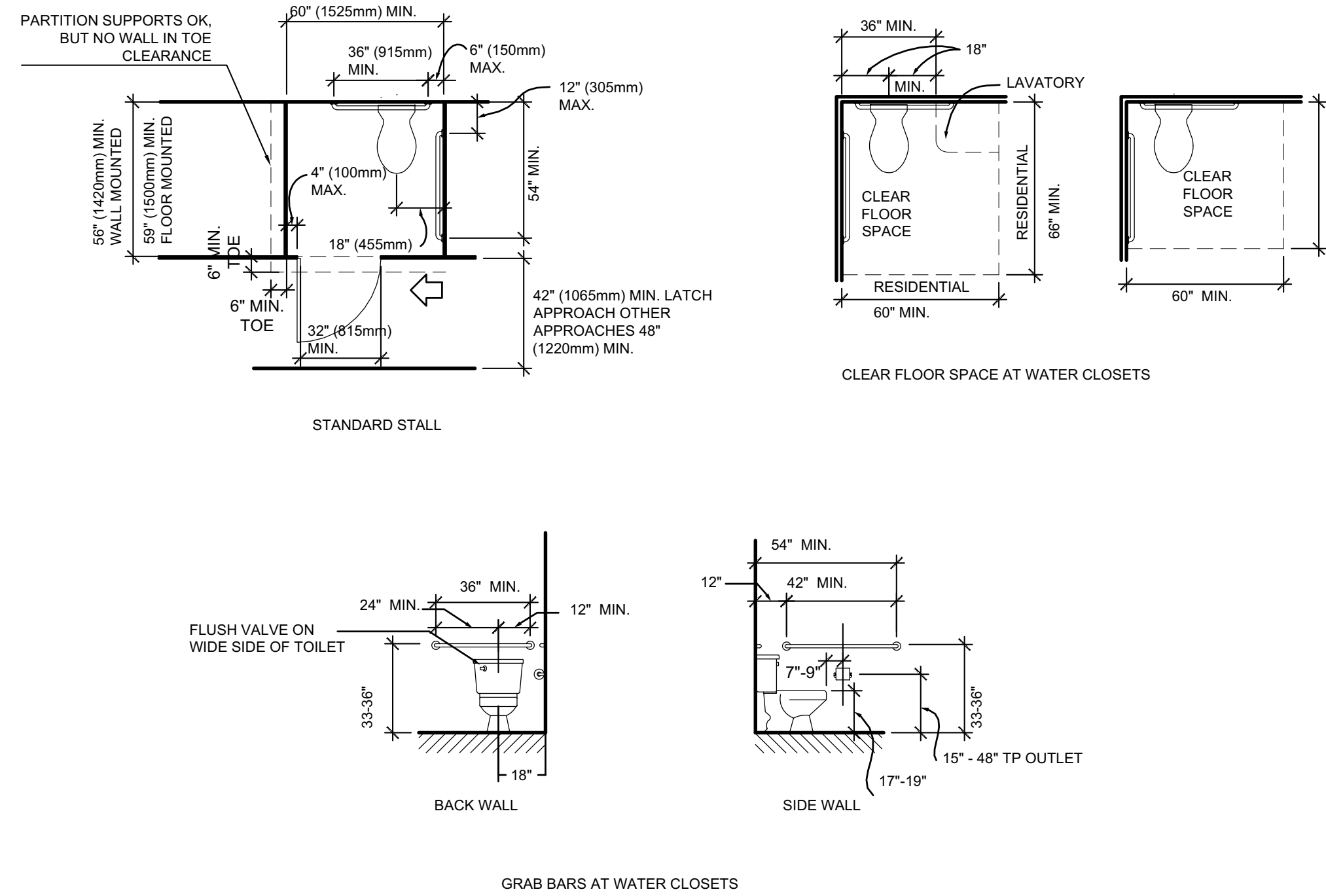
602 DRINKING FOUNTAINS



LAVATORY CLEARANCES

CLEAR FLOOR SPACE AT LAVATORIES

606 LAVATORIES AND SINKS

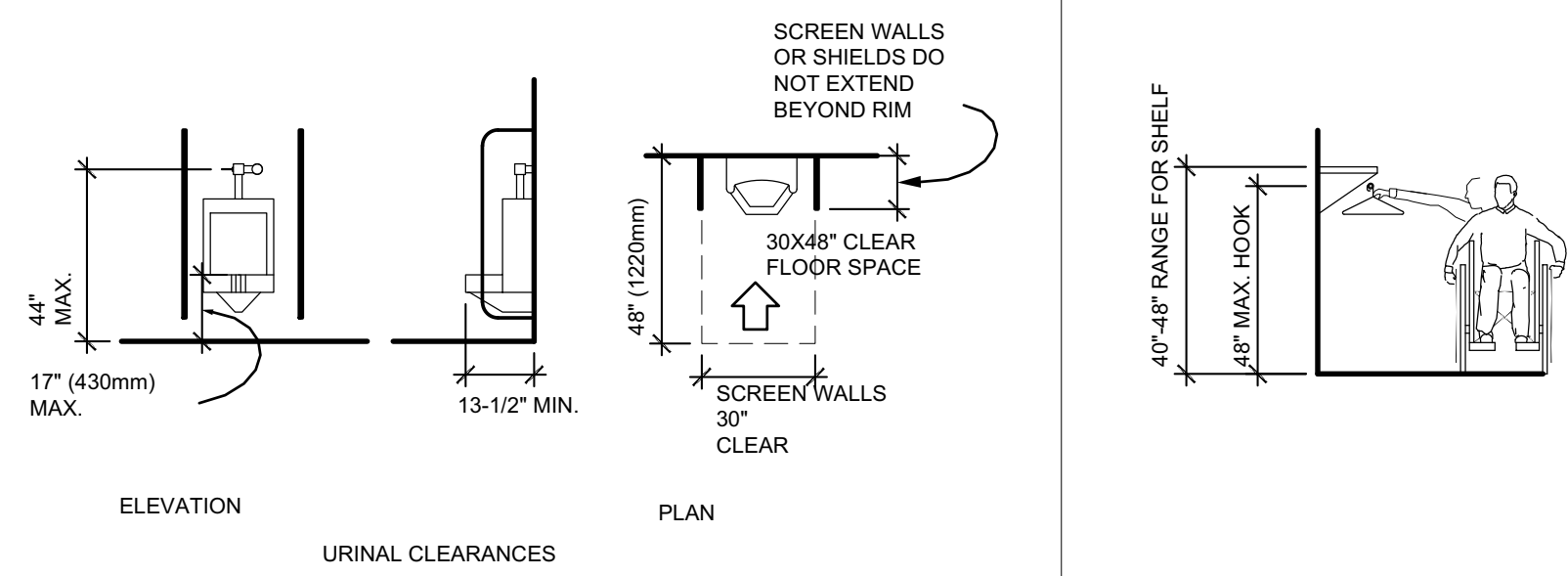


STANDARD STALL

CLEAR FLOOR SPACE AT WATER CLOSETS

GRAB BARS AT WATER CLOSETS

604 WATER CLOSETS AND TOILET COMPARTMENTS

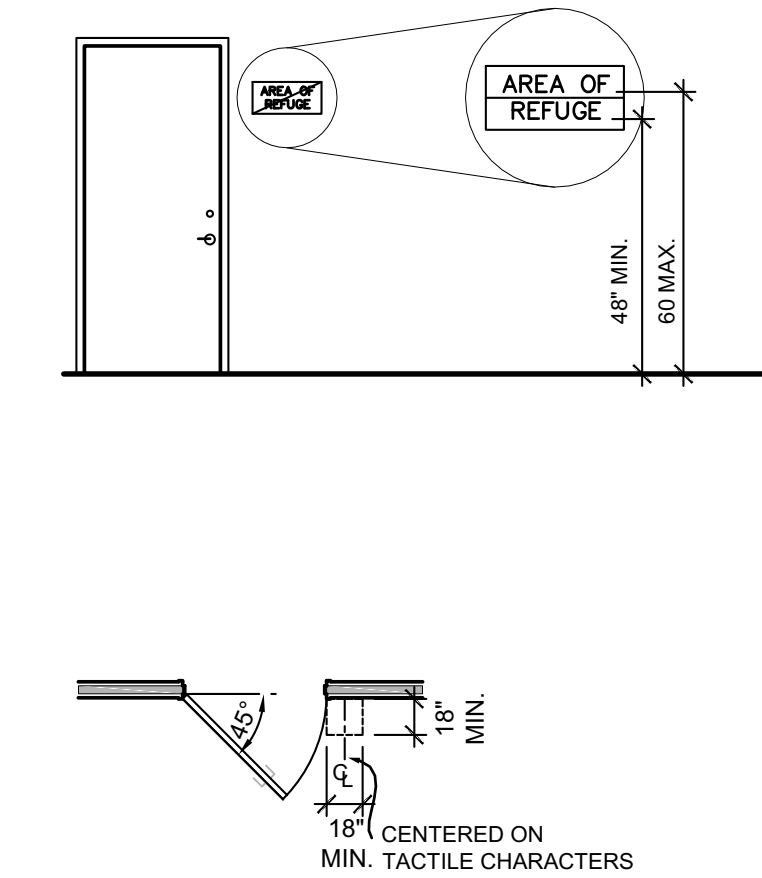


ELEVATION

URINAL CLEARANCES

605 URINALS 213.3.3; 605 SHALL APPLY IF MORE THAN ONE URINAL

603 TOILET AND BATHING ROOMS



703 SIGN MOUNTING LOCATION

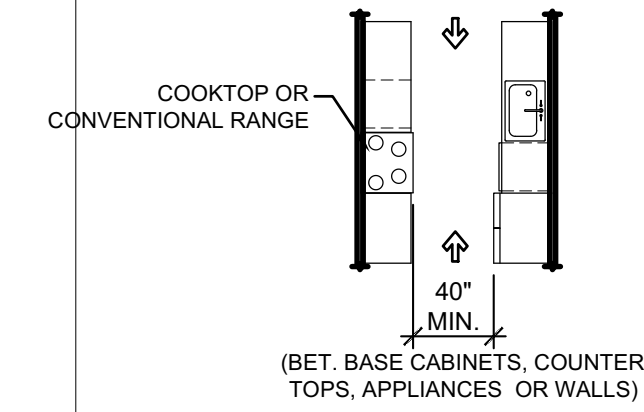


FIGURE 804.2.1. PASS THROUGH KITCHENS

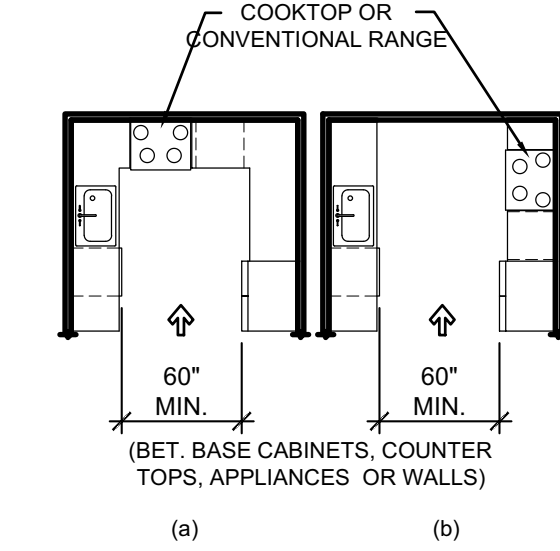


FIGURE 804.2.2. U-SHAPE KITCHENS

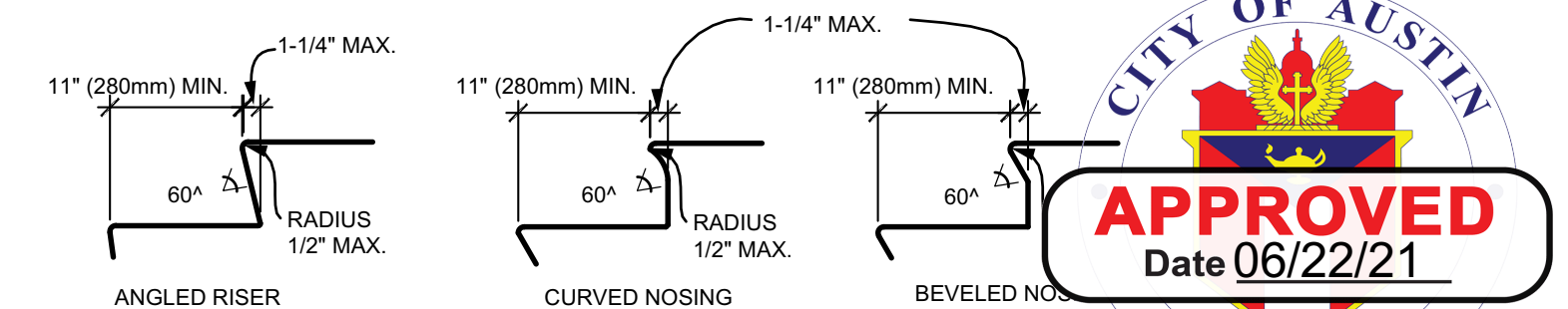
804 KITCHENS AND KITCHENETTES (DOES NOT APPLY TO BREAK ROOMS)

- HANDRAILS**
1. PROVIDE CONTINUOUS HANDRAILS AT BOTH SIDES OF RAMPS AND STAIRS; THE INSIDE HANDRAIL OF SWITCHBACK OR DOGLEG RAMPS AND STAIRS TO BE CONTINUOUS.
 2. IF HANDRAILS ARE NOT CONTINUOUS AT BOTTOM, TOP, OR LANDINGS, PROVIDE HANDRAIL EXTENSIONS AS SHOWN IN THE RAMP AND STAIR EXAMPLES; ENDS OF HANDRAILS TO BE ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
 3. PROVIDE HANDRAILS OF SIZE AND CONFIGURATION SHOWN, GRIPPING SURFACES TO BE UNINTERRUPTED BY NEWEL POSTS OR OTHER CONSTRUCTION ELEMENTS; HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
 4. HANDRAIL STRENGTH AND FASTENINGS MIN. TO SUPPORT 250 LBF MIN. BENDING MOMENT ON BAR, SHEAR STRESS ON BAR/ FASTENER 250 LBF MIN., TENSILE FORCE ON BAR/FASTENER MIN 250 LBF.

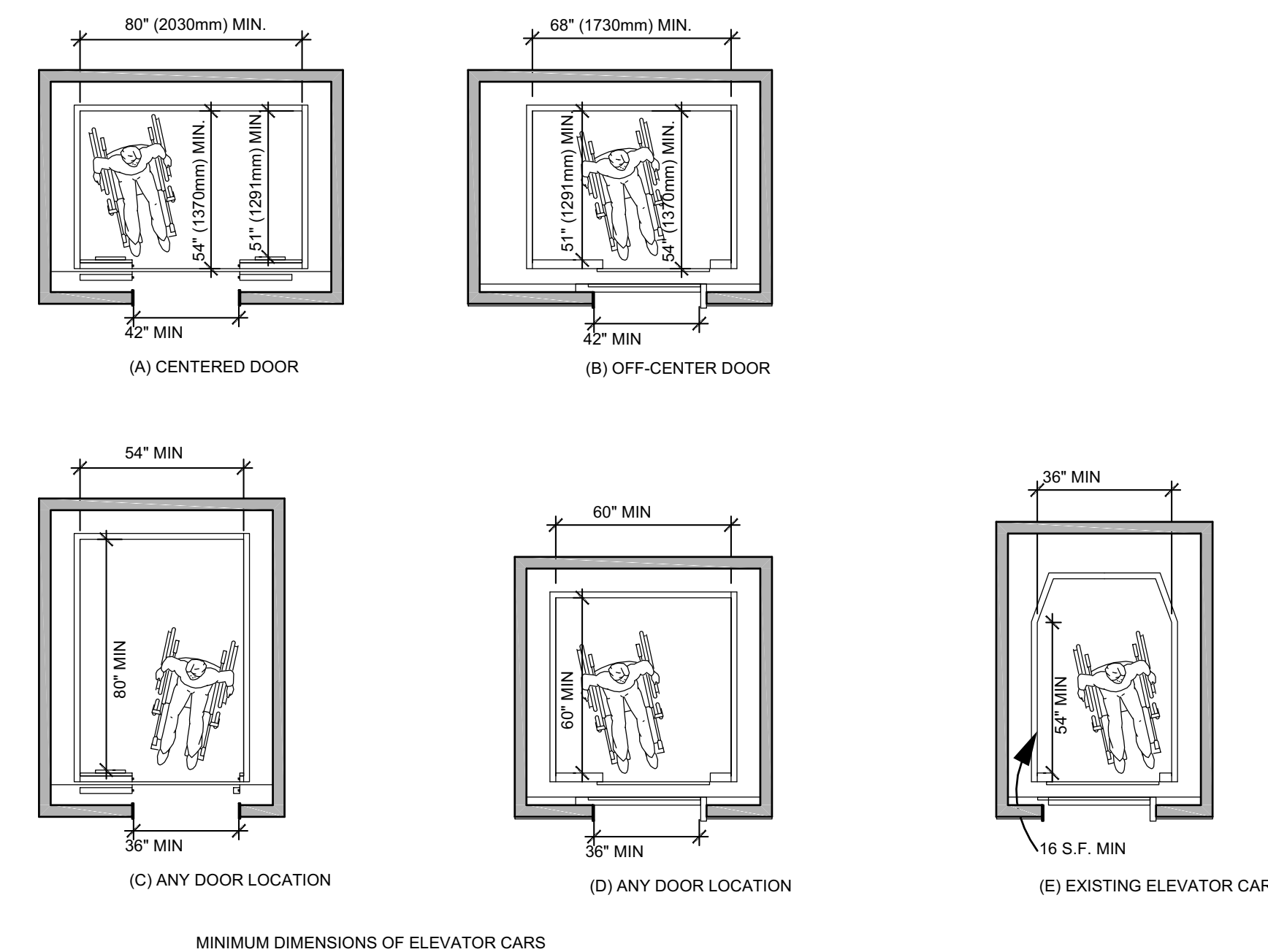


505 HANDRAILS

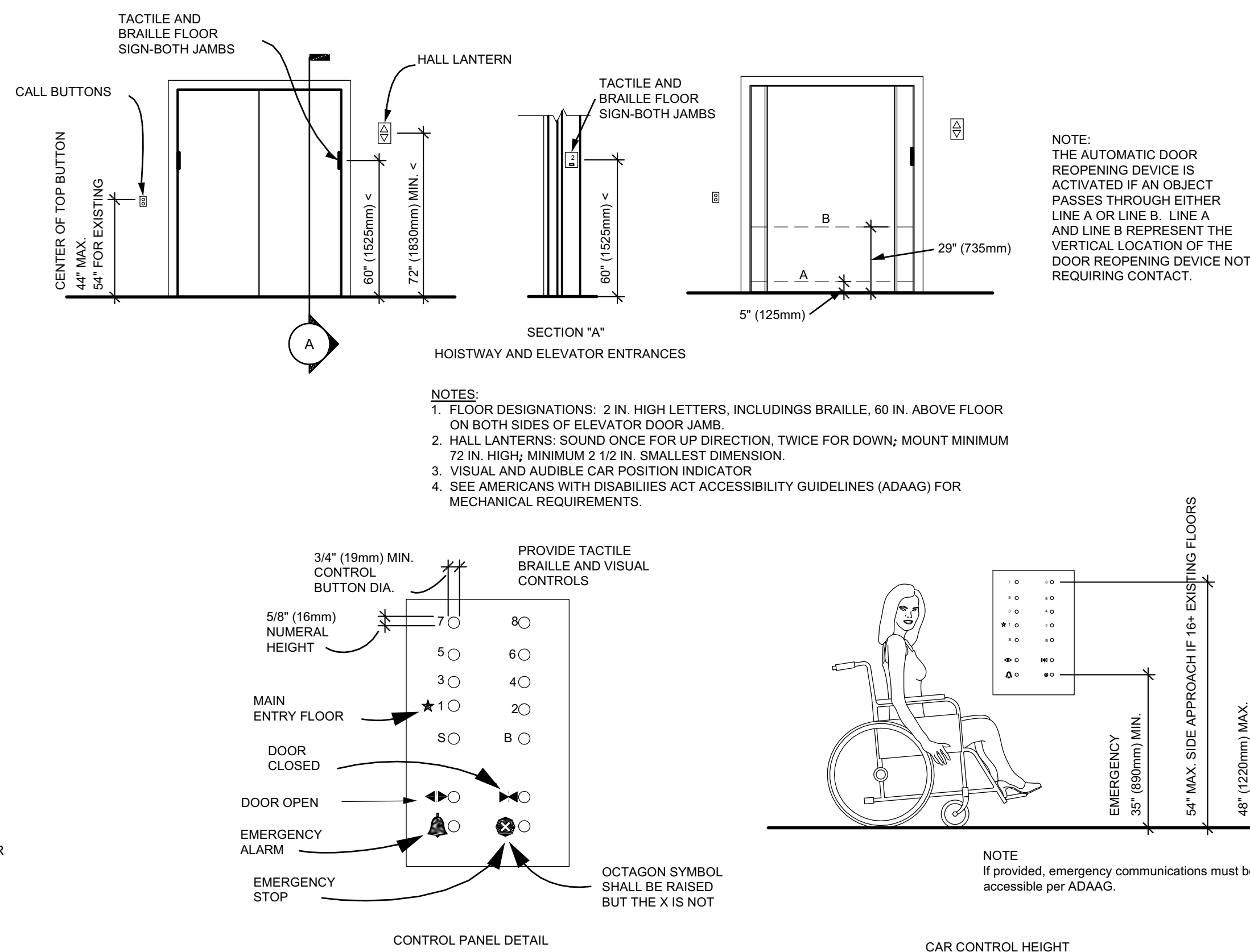
- STAIRS**
INTERIOR OR EXTERIOR STAIRS CONNECTING LEVELS NOT CONNECTED BY ELEVATOR, RAMP, OR LIFT MUST COMPLY WITH THE FOLLOWING:
1. UNIFORM RISERS AND TREADS; MINIMUM 11 IN. TREAD; OPEN RISERS NOT PERMITTED.
 2. NOSINGS AS SHOWN.
 3. HANDRAILS AS SHOWN AND DESCRIBED.
 4. DESIGN OUTDOOR STAIRS AND APPROACHES SO THAT WATER DOES NOT ACCUMULATE ON WALKING SURFACES.



504 STAIRS



407 ELEVATORS



- NOTES:**
1. FLOOR DESIGNATIONS: 2 IN. HIGH LETTERS, INCLUDING BRAILLE, 60 IN. ABOVE FLOOR ON BOTH SIDES OF ELEVATOR DOOR JAMB.
 2. HALL LANTERNS: SOUND ONCE FOR UP DIRECTION, TWICE FOR DOWN; MOUNT MINIMUM 72 IN. HIGH; MINIMUM 2 1/2 IN. SMALLEST DIMENSION.
 3. VISUAL AND AUDIBLE CAR POSITION INDICATOR
 4. SEE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR MECHANICAL REQUIREMENTS.

CONTROL PANEL DETAIL

CAR CONTROL HEIGHT

REVISIONS

DATE: 04/26/2021

DRAWN: MLD

CHECKED:

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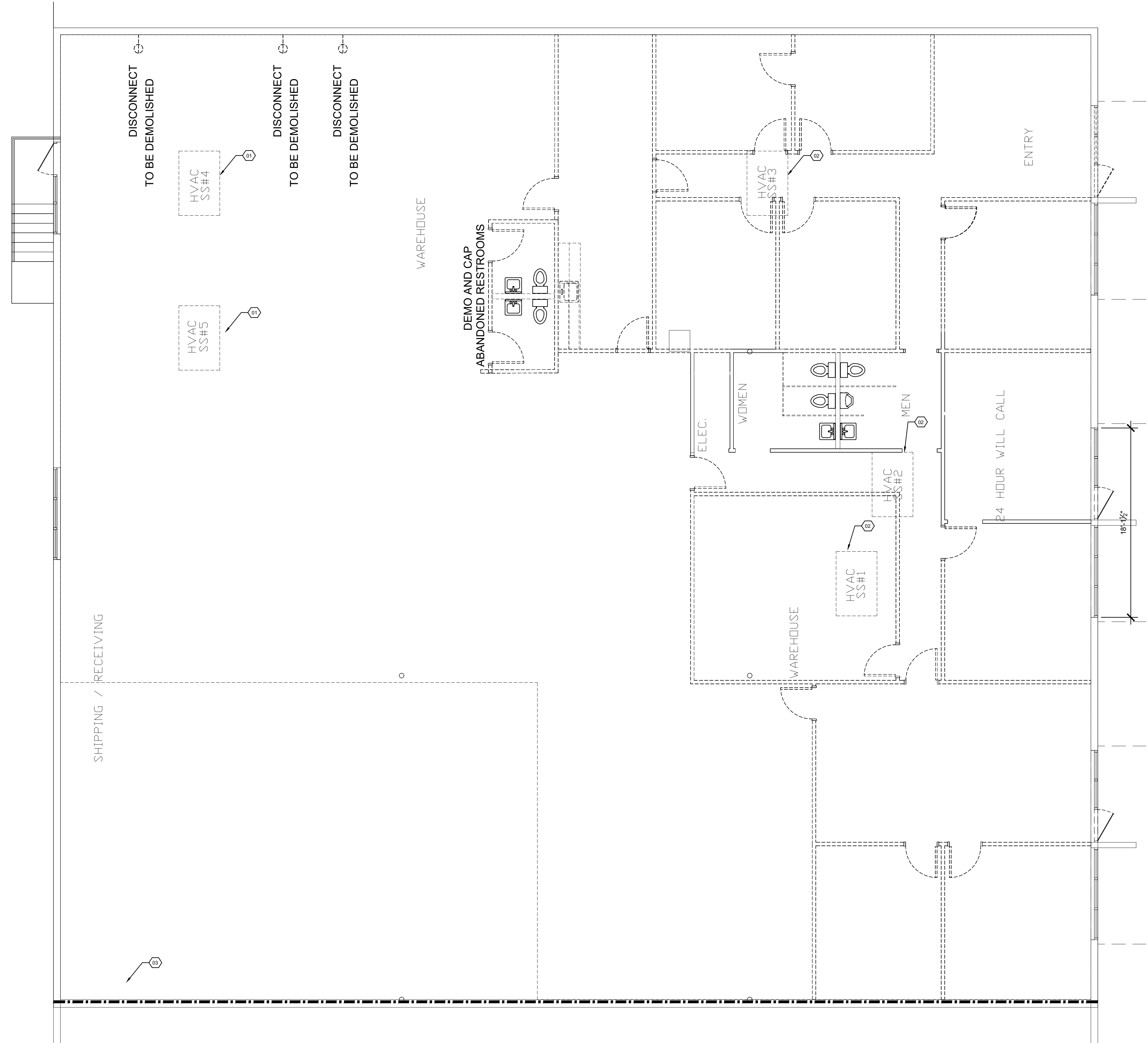
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A5.2

ISSUE FOR PERMIT



REVIEWED FOR CODE COMPLIANCE



KEY NOTES

1. REMOVE EXISTING FURNACE, EXISTING POWER, GAS LINE, AND CONDENSATE LINES TO REMAIN AND BE CONNECTED TO THE NEW FURNACE.
2. REMOVE EXISTING FURNACE, EXISTING POWER, GAS LINE, AND CONDENSATE LINES TO REMAIN AND BE CONNECTED TO THE NEW FURNACE.
3. EXISTING ELECTRICAL PANELS.

01 DEMOLITION/EXISTING PLAN
SCALE: 3/16" = 1'-0"

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ADVANCED A/C &
ENGINEERING
FIRM # 12949
MURPHY TX 75094
469-408-8885

06/16/2021

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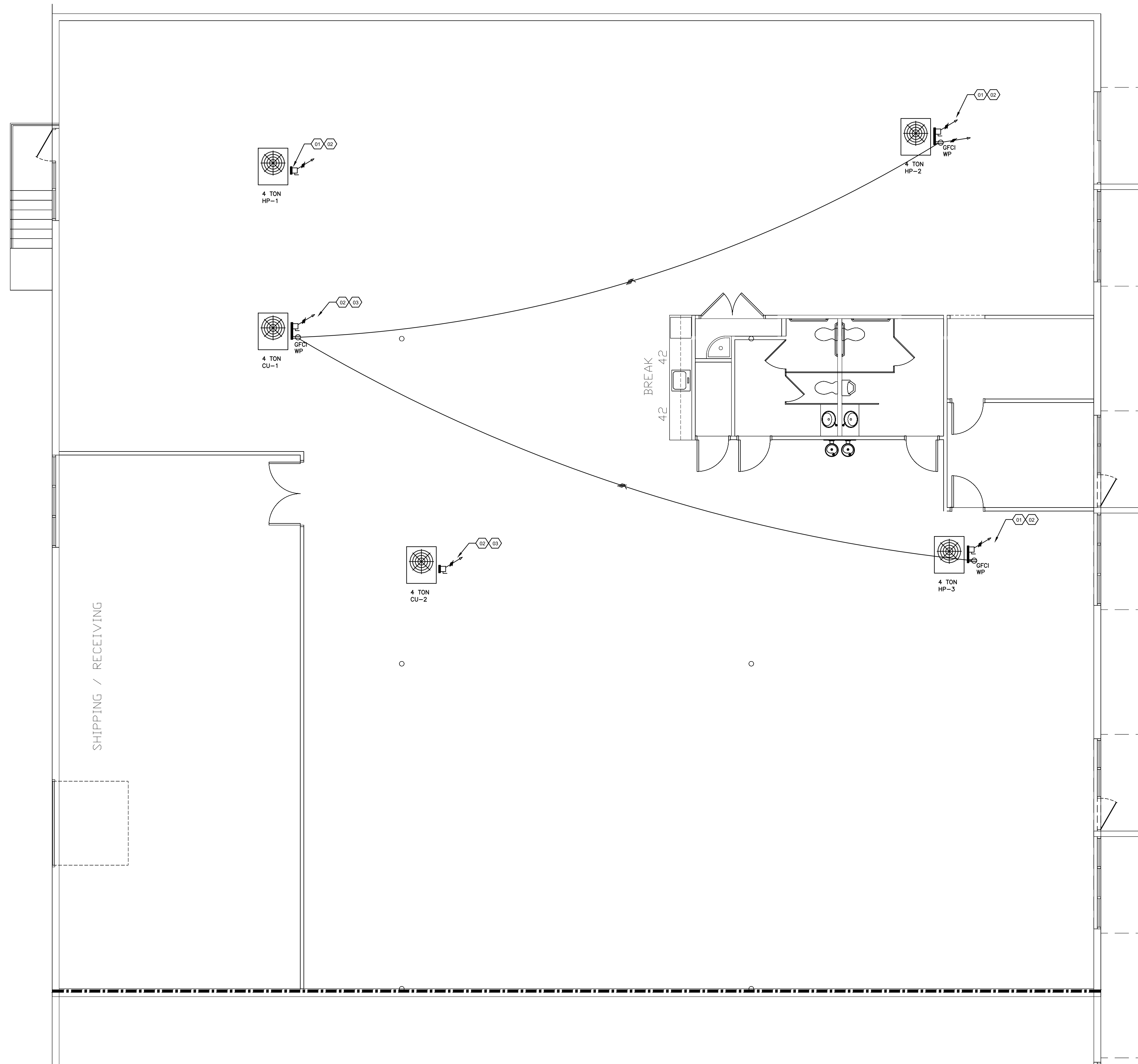
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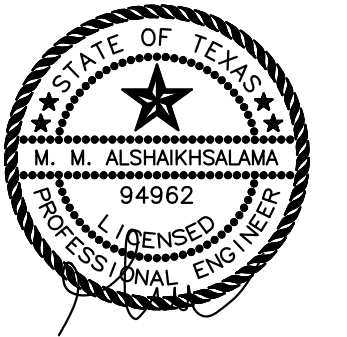


KEY NOTES ◻

1. 4 TONS HEATPUMP.
2. 1PH-208-45 AMP CKT FOR HP/CONDENSER UNIT. CONNECT TO CIRCUITS THAT MADE AVAILABLE BY DEMOLITION.C
3. 4 TONS CONDENSER UNIT.

01 MEP ROOF PLAN
SCALE: 3/16" = 1'-0"

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MEP-2

NOTES:

1. ALL WORK AND EQUIPMENT SHALL CONFORM WITH THE LATEST APPLICABLE CODES.
2. ALL FIELD CONDITIONS AND JOBSITE DIMENSIONS ARE TO BE VERIFIED PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. THE LOCATIONS OF ALL CEILING DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLAN AND LIGHTING PLAN.

GENERAL CONTRACTOR:

1. PROVIDE ALL NECESSARY EQUIPMENT CURBS, RUNNERS AND PLATFORMS.
2. PROVIDE ALL NECESSARY ROOFING, PATCHING, CUTTING, RATED SHAFTS, FURRING, FLASHING AND PAINTING.
3. SIZE AND LOCATION OF ALL PENETRATIONS TO BE COORDINATED WITH A/C CONTRACTOR.

ELECTRICAL CONTRACTOR:

1. SYMBOLS:
 - LINE VOLTAGE WIRING (BY ELEC. CONTR.)
 - - - - 24V CONTROL WIRING (BY ELEC. CONTR.)
 - (E) ITEMS FURNISHED AND INSTALLED BY ELEC. CONTR.
 - (ME) ITEMS FURNISHED BY A/C CONTRACTOR AND INSTALLED BY E.C.
 - (M) ITEMS FURNISHED AND INSTALLED BY A/C CONTR.
2. FURNISH AND INSTALL ALL LINE VOLTAGE AND 24V WIRING AND CONDUIT INCLUDING FINAL CONNECTIONS.
3. THERMOSTATS TO BE MOUNTED 4'-0" ABOVE FINISH FLOOR. (HORIZ. J-BOX). (VERIFY WITH HANDICAP CODE). PROVIDE LOCK-BOX (SEE 3AC-1)
4. FURNISH AND INSTALL ALL SWITCHES, MAGNETIC STARTER, CONTACTORS, RELAYS, CIRCUIT BREAKERS, DISCONNECT SWITCHES AND TIMELOCKS.
5. THE FINAL CONNECTIONS TO EQUIPMENT TO BE FLEXIBLE CONDUIT (SEALTITE OR EQUAL).
6. THE WIRING DIAGRAMS AND SCHEMATIC, INTENDED TO SHOW SEQUENCE AND METHOD OF OPERATION. ALL ELEC. WORK TO COMPLY WITH ALL LOCAL AND STATE CODES.

AIR CONDITIONING CONTRACTOR:

1. ALL OSA INTAKES MUST BE A MINIMUM OF 10'0" AWAY FROM TOILET OR EXHAUST FAN DISCHARGE, PLUMBING OR APPLIANCE VENT (OR 3'0" MIN. BELOW APPLIANCE VENT).
2. ALL DUCTWORK TO CONFORM TO S.M.A.C.N.A. AND CODE STANDARDS.
3. ALL TRANSVERSE JOINTS TO BE SEALED PER SPECIFICATIONS.
4. ALL SUPPLY AND RETURN AIR DUCTWORK TO BE INSULATED PER SPECIFICATIONS.
5. FINAL CONNECTIONS TO ALL GRILLES, REGISTERS AND DIFFUSERS TO BE A MAXIMUM OF ONE 6'0" INSULATED FLEXIBLE DUCT. (UL181 CLASS 1 RATED)
6. MANUAL VOLUME DAMPERS OR ADJUSTABLE EXTRACTORS TO BE INSTALLED IN ALL BRANCH TAKE-OFFS. ALL DAMPERS TO HAVE LOCKING QUADRANTS.
7. APPROVED FIRE DAMPERS TO BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, IF REQUIRED.
8. ALL AIR CONDITIONING UNITS TO BE FURNISHED WITH MAINTENANCE MANUALS, SCHEDULES, TAGS AND PERMANENT LABELING INDICATING AREA SERVED.
9. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55° TO 85° AND HAVE THE ABILITY TO OPERATE THE HEATING AND THE COOLING IN SEQUENCE. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE A CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.

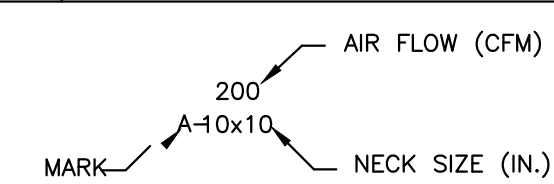
goodman brand re: submittals

4 Ton TRANE Unitary Split System (AHU1,2,3)

Unit Overview	
System Type 1 HP with Air Handler	Indoor Unit Model TE
Outdoor Unit Model 4 TWR4	Indoor Unit Nominal Capacity 4 Ton air handler
Outdoor Unit Nominal Capacity 048	
AHRI Data	
AHRI Reference Number 1908430	
Airflow @ AHRI 525 cfm	
Capacity @ AHRI 46500.00 Btu/h	
EER @ AHRI 11.5	
SEER @ AHRI 14.00	
COP @ 47F 3.44 COP (kW/kW)	
COP @ 17F 2.40 COP (kW/kW)	
Unit Electrical	
Outdoor Unit 4 TWR4049G1	Indoor Unit 1 TEM440C48S41
Power Supply 2 00/230/160	Electric Heat (KW) 2.88/3.84 kW Heater 208/240/160
MCA 26.00 A	Power Supply 2 08-230/160
Max Fuse Size 15.00 A	
Cooling Performance	
Cooling Airflow 1300 cfm	Net Cooling Capacity 47842.00 Btu/h
Cooling EDB 80.00 F	Net Sensible Capacity 35255.00 Btu/h
Cooling EWB 67.00 F	Net Latent Capacity 11586.00 Btu/h
Cooling Outdoor Temp. 95.00 F	Cooling LDB 60.70 F
	Cooling LWB 58.30 F
Heating Performance - Electric Heat	
Heating Airflow 1800 cfm	Heating LDB (208v) 75.03 F
Heating EDB 70.00 F	Heating Temp. Rise (208v) 5.03 F
KW (208v) 2.88 kW	Heating LDB (240v) 76.71 F
KW (240v) 3.84 kW	Heating Temp. Rise (240v) 6.71 F
Heating Performance - Heat Pump	
Heating Airflow 1800 cfm	Heating Capacity @ 47F 46500.00 Btu/h
Heating EDB 70.00 F	Heating Capacity @ 17F 30000.00 Btu/h
Heating Outdoor DB 17.00 F	HSPF 8.50 btu/h/watt
Hg System Net Cap. 30867.00 Btu/h	COP @ 47F 3.44 COP (kW/kW)
Heating System LDB 85.82 F	COP @ 17F 2.40 COP (kW/kW)

01 Heatpump Schedule

GRILLE/DIFFUSER/REGISTER SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER MODEL No.	MAX. NC LEVEL (1)	REMARKS
A	24"x24" FACE, ROUND NECK, CEILING SUPPLY DIFFUSER WITH BORDER FOR LAY-IN CEILING, OR SURFACE MOUNTING	TITUS TMS	30	#26 WHITE FINISH
B	12"x12" FACE, ROUND NECK, CEILING SUPPLY DIFFUSER WITH BORDER FOR LAY-IN CEILING, OR SURFACE MOUNTING	TITUS TMS	30	#26 WHITE FINISH
C	24"x24" FACE, ROUND NECK, CEILING FILTERED DIFFUSER FOR RETURN AIR	TITUS	30	#26 WHITE FINISH
R	RETURN GRILLES	TITUS 850R	30	TBD TO MATCH FINISH
S	ALUMINUM DIRECT SPIRAL DUCT MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE	TITUS S300	30	TBD TO MATCH FINISH



H.V.A.C. SPECIFICATIONS	
1) LOCAL and STATE CODES/ORDINANCES and GENERAL CONDITIONS OF CONTRACT shall be followed. Pay all Fees and obtain all Permits. SUBMIT plans to Building Department for Plan Review. Follow correction requirements.	12) SLEEVES and COLLARS shall be provided for all ductwork and pipes thru walls, floors, and ceilings. Provide chrome plated escutcheons for piping penetrations thru ceilings, floors, and walls in finished areas.
2) ADOPTED ENERGY CODE shall be followed. All equipment, insulation, and controls shall conform.	13) Caulk all duct joints and seams with 3-M Hard-Cast or equivalent per Code.
3) VISIT SITE and ascertain existing conditions prior to providing equipment or fabricating duct and piping.	14) CONCEAL all work in finished areas.
4) MECHANICAL DRAWINGS are schematic and not to be scaled. Refer to Architectural or certified drawings for dimensions.	15) CONFIRM voltage, phase, and ampacity with Electrical Contractor prior to ordering equipment. All control and interlock wiring for Mechanical equipment by Division 15 Contractor. Provide magnetic starters for all 3-phase motors with protection on all three leads. Control and heating/cooling equipment to automatically restart after power failure. All wire in conduit per NEC latest edition.
5) AS-BUILT scale drawings shall be provided by Contractor and submitted to Division 15 Engineer at completion showing all piping, duct, and equipment changes.	16) SHEET METAL shall be SMACNA and Code standard with 45 degree maximum reducing, 20 degree maximum expanding transitions. Rectangular AC-unit supply and return ducts to be lined w/0.5" thick 2.0 lb density UL-181 Class-1 Certainteed Surface Coated ductliner attached with Stic-Klips 15" OC each way (100% coverage of flame proof adhesive) and wrap duct exterior with 1.5" thick aluminum faced nylon fiber reinforced fiberglass "duct-wrap" wired and taped edges with permanent aluminum duct tape (use no cloth (duct tape). Flex duct to be Flex Master 8M insulation. Insulate round ducts with 1" thick Holstead Insul-Tube or 1.5" thick UL-181 Class-1 covered fiberglass wired and taped in place. Elbows for rectangular duct shall be provided multi-blade turning vanes or 1.5" centerline radius. Provide storm louvers with 1/4" gavi mesh and 0.12" max air friction. Rectangular MUA supply ducts to be lined with 1" thick faced anti-microbial liner approved for evaporative coolers. All ductwork serving exhaust over dishwasher shall be constructed of hell-arc aluminum. All ductwork serving Type 1 cooking exhaust hoods shall be constructed of welded 16 GA. black iron.
6) SHOP DRAWINGS: Contractor is entirely responsible for checking Shop Drawings for 100% compliance with contract documents. Submit four (4) copies to Division 15 Engineer for acknowledgement prior to ordering.	17) GUARANTEE all labor and equipment for one year from the date of acceptance by Owner.
7) BASE BID on brand names shown on plans (if not named on plans, the first named in specifications). Substitutions handled as change-orders after bidding with all electrical and building alterations included with dollar amount prior to ordering.	
8) EXTRA COSTS or CHANGES allowed only if approved in writing by Engineer with dollar amount prior to ordering. No extensions of completion time.	
9) EQUIPMENT SHOWN ON DRAWINGS and SPECIFICATIONS: Contractor shall purchase, receive, uncrate, assemble, insure, and install in conformance to Manufacturer's recommendations. Additionally Contractor shall install and final connect Owner furnished equipment as indicated. Provide new filters.	
10) OPERATING MANUAL shall be provided Owner and Engineer for all systems and equipment including manufacturer's maintenance manuals. Include lubrication, filter types and sizes, starting and stopping procedures. List HVAC, Plumbing, and Control Contractor's telephone numbers.	
11) CURBS, SUPPORTS, and ANCHORS shall be provided for Mechanical work. No chain, tape, or wire.	

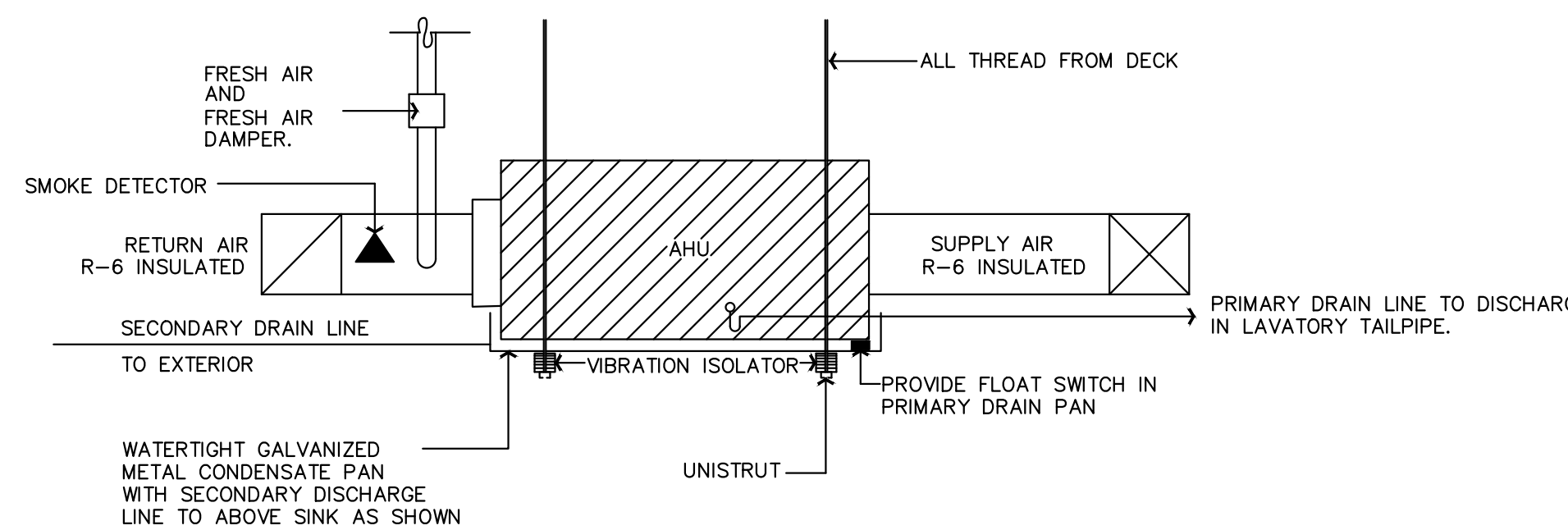
MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DIRECTION OF FLOW		LINED DUCTWORK
	TEMPERATURE SENSOR THERMOSTAT		RECTANGULAR ELBOW WITH TURNING VANES
	GATE VALVE		ROUND FLEXIBLE DUCT CONNECTION
	CHECK VALVE		90 DEGREE ELBOW DOWN
	STRAINER		90 DEGREE ELBOW UP
	UNION		FLEXIBLE DUCT CONNECTION
	PRESSURE GAUGE		SUPPLY AIR DEVICE
	THERMOMETER		DUCT SIZE TRANSITION
	S.D. SMOKE DAMPER		BACKDRAFT DAMPER
	MANUAL BALANCING DAMPER		AUTOMATIC FLOW CONTROL VALVE
	MOTORIZED DAMPER		BALL VALVE
	CEILING RETURN AIR DEVICE		BUTTERFLY VALVE
	SUPPLY DUCT RISER		UNDERCUT DOOR
	RETURN DUCT RISER		NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

MECHANICAL FAN SCHEDULE						
TAG	FLOW RATE CFM	STATIC PRESSURE IN WG	MOTOR DATA LOAD W	VOLTAGE	BASIS OF DESIGN	
					MANUFACTURER	MODEL OR SERIES
EX-1&2	150	0.25	128	115/1/60	GREENHECK	SP-B150

- NOTES:
 1. FURNISH BACKDRAFT DAMPER.
 2. WILL BE SWITCHED ON BY LIGHT SWITCH.

4 Ton Unitary Split System (FURNACE 1 & 2)

Unit Overview	
System Type 1 VC with Furnace/Coil	Indoor Unit Model 4 PXA-S8X1C
Outdoor Unit Model 4 TTR3	Indoor Unit Nominal Capacity 042
Outdoor Unit Nominal Capacity 048	
AHRI Data	
AHRI Reference Number 202451246	
Airflow @ AHRI 305 cfm	
Capacity @ AHRI 47500.00 Btu/h	
EER @ AHRI 11.0	
SEER @ AHRI 13.50	
Unit Electrical	
Outdoor Unit 4 TTR304BE1	Indoor Unit 4 PXCUL42BS3+S8X1C080M5PSA
Power Supply 2 00/230/160	Power Supply 115/160
Cooling Performance	
Cooling Airflow 1300 cfm	Net Cooling Capacity 43216.00 Btu/h
Cooling EDB 80.00 F	Net Sensible Capacity 39658.00 Btu/h
Cooling EWB 67.00 F	Net Latent Capacity 12557.00 Btu/h
Cooling Outdoor Temp. 95.00 F	Cooling LDB 58.10 F
	Cooling LWB 54.80 F
Heating Performance - Furnace	
Heating Airflow 1800 cfm	Heating EDB 70.00 F
Heating Input 40000.00 Btu/h	Heating LDB 17.01 F
Heating Output 66000.00 Btu/h	Heating Temp. Rise 47.01 F
	AFUE 80.00 %

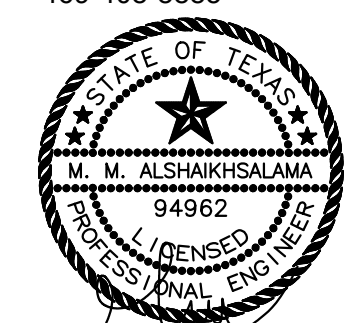


NOTE: A MAINTENANCE AND OPERATING MANUAL MUST BE PROVIDED TO THE BUILDING OWNER FROM THE MECHANICAL CONTRACTOR. THE MANUAL MUST INCLUDE 1. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS. 2. EQUIPMENT OPERATION AND MAINTENANCE MANUALS. 3. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFO., WIRING DIAGRAMS, SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS, DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DWG'S, AT CONTROL DEVICES, OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS. 4. A COMPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

AHU DETAIL

NTS

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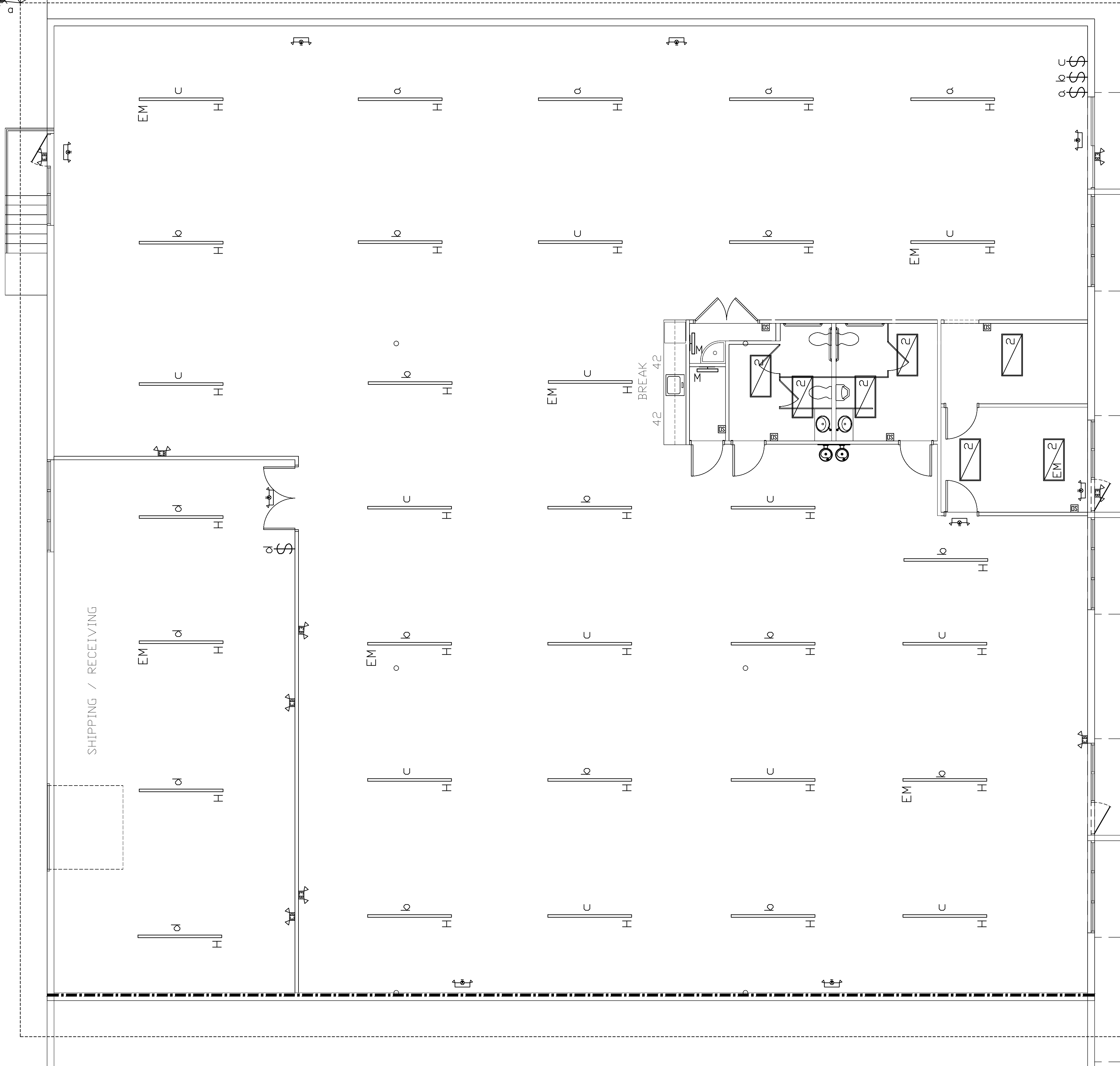
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M5-01

LIGHT a
 LIGHT b
 LIGHT c
 LIGHT d AND OTHER LIGHTS



GENERAL NOTES:

- A. WHEN THREE OR MORE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A RACEWAY OR CABLE PER CONTRACTORS MEANS AND METHODS DE-RATE CABLES PER NEC TABLE 310.15(B)(3)(g). AFTER DE-RATING UPSIZE CONDUCTORS TO CORRECT FOR DE-RATING.
- B. INSTALL EQUIPMENT GROUNDING CONDUCTOR WITH ALL CIRCUITS. DO NOT USE CONDUIT SYSTEM AS EQUIPMENT GROUND UNLESS ABSOLUTELY NECESSARY.
- C. COORDINATE WITH OWNER AND ARCHITECT ON LOCATIONS OF OUTLET ROUGH-IN'S FOR POWER, TELEPHONE, SATELLITE, IT AND CABLE TV EQUIPMENT.
- D. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT AND ELEVATION OF LIGHT FIXTURES.
- E. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING ASPECTS OF EQUIPMENT PROVIDED BY OWNER OR OTHER DIVISIONS OF THIS CONTRACT.
- F. CONTRACTOR SHALL ADHERE TO INDUSTRY STANDARDS, ALL FEDERAL CODES, NATIONAL ELECTRICAL CODE AND LOCAL CODES.

KEY NOTES

- 1. CONNECT TO ELECTRICAL CIRCUITS THAT MADE AVAILABLE BY DEMOLITION. (TYPICAL).

LIGHTING FIXTURE LEGEND

SYMBOL	FIXTURE	MANUFACTURER	TYPE	WATTS	NOTES
	CPX 2X4 4000LM 80CRI 40K SWL MINIO 2T MVOLT	LITHONIA	4000K	40.78	@9'-0" A.F.F. BLDG STANDARD
	CPX 2X4 4000LM 80CRI 40K SWL MINIO 2T MVOLT E10WLCP	LITHONIA	4000K	40.78	@9'-0" A.F.F. PROVIDE EMERGENCY PACK
	TZLID L96 14000LM FST MVOLT 40K 80CRI WH	LITHONIA	LED 4000K	120.87	@14' A.F.F.
	TZLID L96 14000LM FST MVOLT 40K 80CRI E10WLCPWH	LITHONIA	LED 4000K	120.87	@14' A.F.F.
	BLWP2 33L ADSMT LPB40	LITHONIA	LED 4000K	29.85	WALL MOUNT FIXTURE
	SWITCH				
	ELM2LF EMERGENCY LIGHT	ACUITY BRANDS			
	EMERGENCY LIGHT & EXIST LIGHT (COMBO) SURELITE LPXC50SD	COOPER LIGHTING			
	SWITCH- TWO STAGE OR DIMMABLE OCCUPANCY SENSOR W/ MANUAL OVERRIDE DIMMABLE IN CONFERENCE ROOM				

01 LIGHTING FLOOR PLAN
 SCALE: 3/16" = 1'-0"

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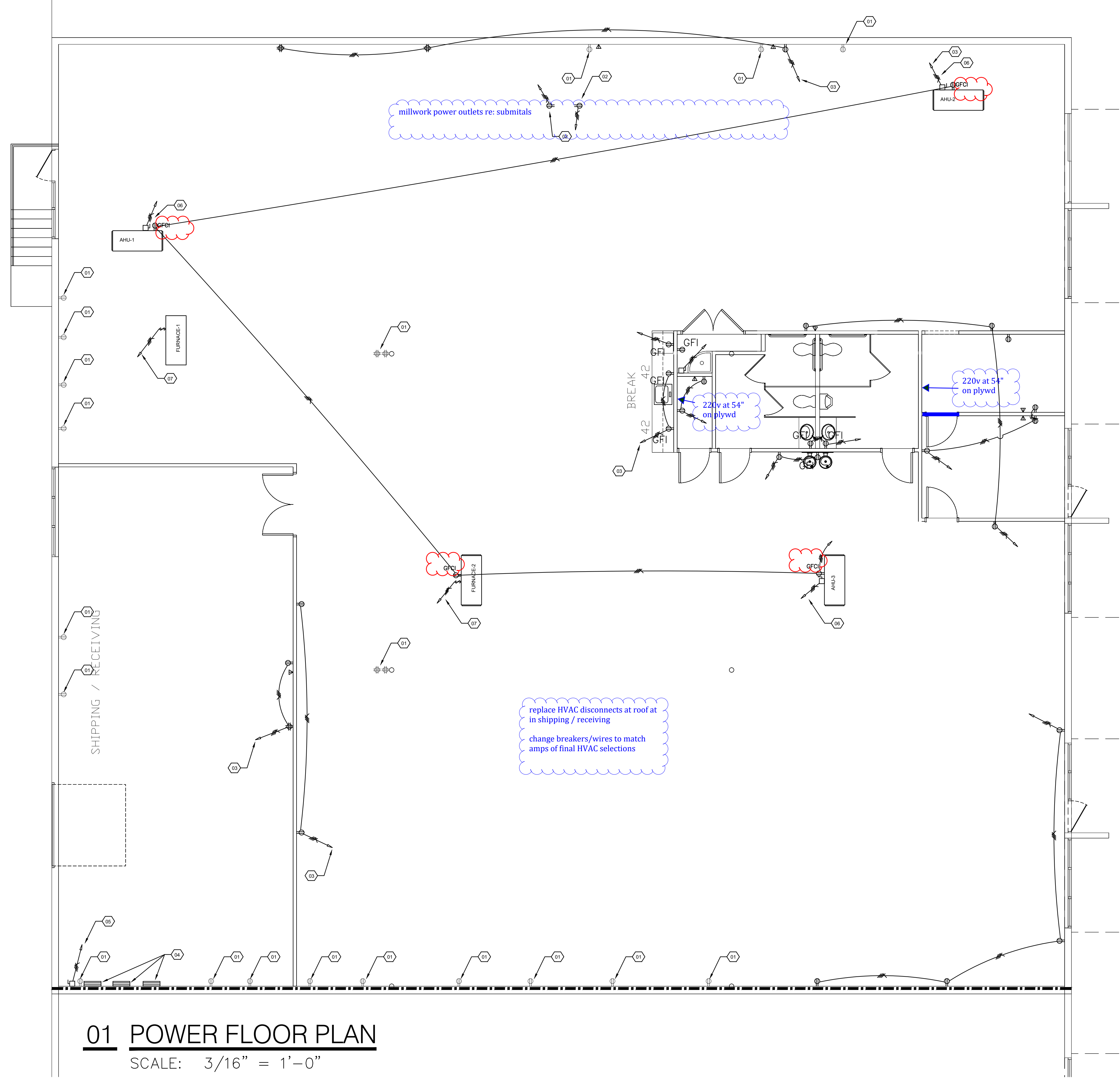
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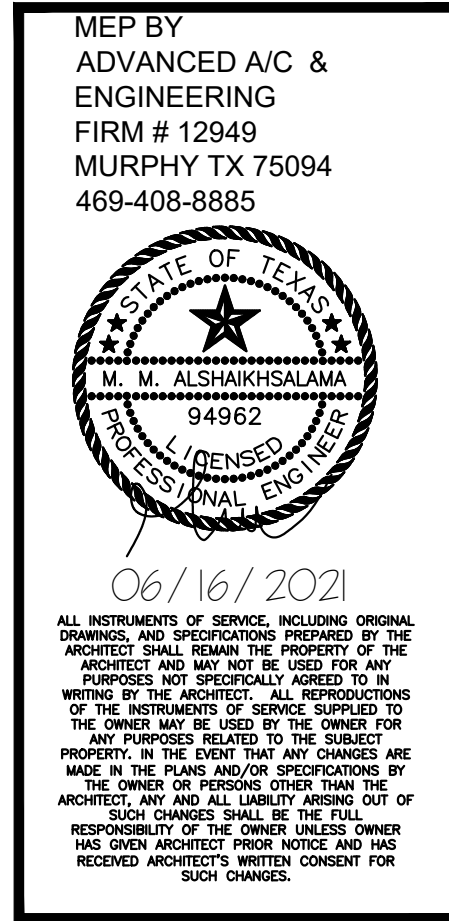
E1-01

KEY NOTES

1. EXISTING TO REMAIN.
2. POWER POLE. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
3. CONNECT TO ELECTRICAL CIRCUITS THAT MADE AVAILABLE BY DEMOLITION. (TYPICAL).
4. EXISTING ELECTRICAL PANEL TO REMAIN.
5. 3PH-208V-30AMP DISCONNECT @48" AFF. CONNECT TO ELECTRICAL CIRCUITS THAT MADE AVAILABLE BY DEMOLITION. (TYPICAL).
6. 1PH-208-30 AMP CKT FOR CONNECT TO CIRCUITS THAT MADE AVAILABLE BY DEMOLITION.
7. 1PH-120-20 AMP CKT FOR CONNECT TO CIRCUITS THAT MADE AVAILABLE BY DEMOLITION.



01 POWER FLOOR PLAN
 SCALE: 3/16" = 1'-0"



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DATE
06/16/2021

FOR PERMIT
E7-01

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PART I - GENERAL - ELECTRICAL

1-1 DESCRIPTION:

All work on these drawings shall be done in strict accordance with these specifications. All work fully implied as essential to the complete functioning of the electrical systems shown on the Drawings and Specifications shall be completed as part of the work of this Division unless specifically stated otherwise. It is the intention of the Drawings and Specifications to establish the types of the systems, but not set forth each item essential to the functioning of the system. In case of doubt as to the work intended, or in the event of an omission or clarification thereof, the Contractor shall call upon the Architect for supplementary instructions, drawings, etc. Refer to owner's criteria for additional requirements and include in bid.

1-2 WARRANTY:

The undertaking of the work described in this Division shall be considered equivalent to the issuance, as part of this work, of a specific guarantee extending one year beyond the date of completion of work and acceptance by Owner, against defects in materials and workmanship. Materials, appliances and labor necessary to effect repairs and replacement so as to maintain solid work in good functioning order shall be provided as required. Replacements necessitated by normal wear in use or by Owner's abuse are not included under this guarantee.

1-3 PROJECT CONDITIONS:

Visit the site of the proposed construction in order to fully understand the facilities, difficulties and restriction attending the execution of the work. No additional compensation will be allowed this Contractor for work or items omitted from his original Proposal due to his failure to inform himself regarding such matters affecting the performance of the work in this Contract or necessary for the installation and completion of the work included herein.

1-4 PERMITS AND FEES:

The contractor shall arrange and pay for all permits, fees, tests, and all inspections as required by governmental authorities.

1-5 COORDINATION WITH FIELD CONDITIONS:

Contractor shall review all pertinent Drawings and adjust his work to all conditions shown there on. Discrepancies between Plans, Specifications, and actual field conditions shall be brought to the prompt attention of the Architect.

Approximate location of transformers, feeders, branch circuits, lighting and power outlets panels, outlets for special systems, etc., are indicated on the Drawings. However, the Drawings, do not give complete and accurate detailed locations of such outlets, conduit runs, etc., and exact locations must be determined by actual field measurement. Such locations will, at all times, be subject to the approval of the Architect.

Communicate with the Architect and secure his approval of any outlet (light fixture, receptacle, switch, etc.) location about which there may be the least question. Outlets obviously placed in a location not suitable to the finished room or without specific approval, shall be removed and relocated when so directed by the Architect. Location of light fixtures shall be coordinated with reflected ceiling plans.

1-6 SUBMITTALS:

Contractor shall provide of submittals, shop drawings, descriptive literature, physical data and a specification critique electronically for the following items:

- Lighting and Appliance Panels
- Wiring Outlets
- Heavy Duty Disconnect Switches
- Lighting Fixtures and Lamps
- Lighting Controls
- Time Clocks
- Phone Devices and Plates
- Conduit and Fittings
- Wire
- Fire Alarm System

Any deviations from the specified items shall be listed on the cover sheet and clearly itemized for all deviations. The contractor shall provide two copies of owner's manuals to the architect upon completion of the work.

1-7 SUBSTITUTIONS:

A. The names, manufacturers, and model numbers have been used in the Contract documents to establish types of equipment and standards of quality. Where more than one manufacturer is named for a specific item of equipment, only one of the specified manufacturers will be considered for approval. Where only one manufacturer is mentioned with the phrase "or approved equal", Contractor may submit an alternate manufacturer for consideration, provided the following conditions are met:

1. Submit alternate equipment with complete descriptive data in shop drawing form. Provide sample of equipment upon request for review by Architect. Samples will be returned if requested in writing.
2. Alternate equipment must be equal from the standpoint of materials, construction and performance.
3. Alternate submittal must be presented to the Engineer/Architect ten (10) days prior to bid date for approval.

B. The Architect and Engineer shall be the sole judge of quality and equivalence of equipment, materials and methods.

1-8 QUALITY ASSURANCE:

All work shall be performed in accordance with all state, local & federal codes and all authorities having jurisdiction, including but not limited to:

A. TYPES:

- American Society for Testing and Materials (ASTM)
- Underwriters Laboratories, Inc. (UL)
- Insulated Power Cable Engineer's Association (IPCEA)
- National Electrical Manufacturer's Association (NEMA)
- Institute of Electrical and Electronic's Association (IEEE)
- American National Standards Institute (ANSI)
- National Fire Protection Association (NFPA).

1-9 SLEEVES, CUTTING AND PATCHING:

This Section shall be responsible for the placing of sleeves for all conduit passing through walls, partitions, beams, floors, roof, etc. Sleeves through below-grade walls shall be as specified and detailed on the plans.

All cutting and patching will be done under another Division, but this Section will be responsible for timely performance of this work and layout of holes and setting sleeves.

1-10 EXCAVATION AND BACKFILL:

Trenching and backfilling and other earthwork operations required to install the facilities specified herein shall conform to the applicable requirements of Division 2 (95% of maximum standard density), where trenching or excavation is required in improved areas, the backfill shall be compacted to a condition equal to that of adjacent undisturbed earth and the surface of the area restored to the condition existing prior to trenching or excavating operations. The plans indicate information pertaining to surface and sub-surface obstructions; however, this information is not guaranteed. Should obstructions be encountered whether or not shown, the Contractor shall alter routing of new work, reroute existing lines, remove obstructions where permitted, or otherwise perform whatever work is necessary to satisfy the purpose of new work and leave existing surfaces and structures in a satisfactory and serviceable condition.

1-11 CLEANING:

Clean lighting fixtures and equipment.

Touch-up and refinish scratches and marred surfaces on panels, switches, starters, and transformers.

1-12 TESTS AND INSPECTIONS

Tests and inspection requirements shall be coordinated Architect.

Date for final acceptance test shall be sufficiently in advance of completion date of contract to permit alterations or adjustments necessary to achieve proper functioning of equipment prior to contract completion date.

Contract re-tests as directed by Architect on portions of work or equipment altered or adjusted as determined to be necessary by final acceptance test. No resultant delay or consumption of time as a result of such necessary re-test beyond contract completion date shall relieve Contractor of his responsibility under contract.

Put circuits and equipment into service under normal conditions, collectively and separately, as may be required to determine satisfactory operation. Demonstrate operation to operate in accordance with requirements of these specifications. Perform tests in the presence of Architect. Furnish instruments and personnel required for tests.

At the time designated by the Architect, the entire system shall be inspected by the Architect and Engineer. The contractor or his representative shall be present at this inspection.

Panelsboards, switches, fixtures, etc., shall be cleaned and in operating condition. Certificates and documents required hereinbefore shall be in order and presented to the Architect prior to inspection.

Panel covers, junction box covers, etc., shall be removed for visual inspection of the wire, bus bars, etc.

After the inspection, any items that are noted as needing to be changed or corrected in order to comply with these specifications and the drawings shall be accomplished without delay.

PART 2 - PRODUCTS - ELECTRICAL

2-1 ALL PRODUCTS:

All products shall be listed by Underwriter's Laboratories and have the UL label affixed.

2-2 RACEWAYS AND FITTINGS:

Except as noted or otherwise specified, all wiring shall be installed in galvanized rigid steel conduit or electrical steel tube (EMT) of the proper size to contain the number of conductors required in accordance with the latest edition of the N.E.C. Where conduit sizes are shown on the drawings, those shall take preference.

Provide EMT in sizes up to 4 inches when concealed or not exposed to damage; Rigid steel, galvanized for underground use, where exposed to damage, or in exterior applications; Rigid galvanized steel where embedded in concrete or masonry construction.

Minimum size shall be 3/4" inch except for fixture whip not exceeding 6'-0" long. Branch circuit run underground shall be in EMT in Corlon Schedule 40 PVC conduit. Install ground wire in accordance with NEC Table 250-95. Electrical metallic tubing systems shall utilize watertight compression type fittings where exposed to moisture and set screw type fittings elsewhere.

Conduit shall be run concealed in finished areas. Conduit may be exposed in mechanical rooms and where otherwise indicated.

Concealed conduit shall run in as direct manner with as long bends as possible. Exposed conduit shall be run parallel with, or at right angles to the lines of the building; and all bends shall be made with standard conduit elbows or conduit bent to not less than same radius. Not more than equivalent of four quarter bends shall be used in any run between terminals and cabinet, or between outlet or junction boxes. Approved conduits shall be used in lieu of conduit elbows where ease of installation and appearance warrants their use.

Conduit joints shall be made with approved couplings and unions.

Provide #30 nylon pulling line in all conduits in which permanent wiring is not installed. Branch circuit conduits installed in concrete slabs on fill or grade shall be positioned in a manner to ensure complete concrete cover. In no case shall such conduits be exposed below or above the slab surfaces, or penetrate the waterproof membrane.

At locations where feeder, or other large conduit, must pass through slabs on fill or grade, the conduit shall be PVC coated rigid galvanized steel, extended 6 inches into the earth, and 2 inches above exposed surface of slab.

All conduit shall be securely fastened and supported using hot galvanized malleable iron one-hole pipe straps, clamps, hangers or other means approved by the engineer. Supports shall be as required by NEC Table 346-12. The wire shall not be used as support or securing means. Support conduct independently of ceiling hanger wire.

2-3 OUTLET AND JUNCTION BOXES:

Provide an approved galvanized outlet box with adequate volume for number of conductors concerned.

Provide standard galvanized switch boxes of the required number of gangs. Switch boxes for exposed wiring shall be heavy duty or approved equal.

Outlet boxes for receptacles shall be similar to Underwriter's listed with suitable raised cover. Receptacle boxes on exposed wiring shall be heavy duty or approved equal.

Weatherproof boxes where necessary shall be FS or FD.

Outdoor boxes shall be NEMA 3R, with conduit connections made by Myers Hubs.

See notes and details on Drawings for special box requirements.

Provide junction boxes required to facilitate installation of the various conduit systems. Provide support boxes required for risers, each complete with approved cable supports as described elsewhere in this Division.

Outlet boxes for drywall shall be standard galvanized switch boxes.

Provide coverplates for all outlet boxes.

Provide junction boxes and conduit system for all electrical systems: (i.e. electrical, sound, security, fire, alarm, CDM, camera, CATV, Intercom).

2-4 PULL BOXES:

Pull boxes shall be provided for conduit systems as required and shall be constructed of galvanized steel of not less than gauge and size specified by National Electrical Code.

Where two or more feeders pass through a common pull box, they shall be tagged to indicate clearly their electrical characteristics, circuit number, and panel designation.

2-5 WIRE AND CABLE:

All wire shall be new and continuous without weld, splice, or joints throughout its length. It must be uniform in cross-section, free from flaws, scales and other imperfections.

Wire shall be soft drawn, annealed, 98% pure copper, with tin coating. Aluminum wiring is not acceptable.

Acceptable manufacturers for 600 volt wire and cable shall be Southwire, Triangle PWC, Corral, and Rome Cable Company.

Acceptable manufacturers for 300 volt wire and cable shall be Westpen, Belden, and Alpha.

A. TYPES:

1. Provide code gauge type "THHN" or "THWN" insulation.
2. All wire No. 8 and larger shall be stranded. All wire No. 10 and smaller shall be solid. Minimum wire shall be No. 12.
3. Provide type "RHH" or other 90 degree C insulation wiring for branch circuit wiring installed through continuous rows of fluorescent fixture bodies.
4. Fire alarm device wiring shall be 300 volt, PVC jacket UL-listed when routed in a raceway. The jacket shall be UL listed for use in air plenums when a raceway is not used.
5. Control wiring shall be No. 12 AWG copper conductor unless otherwise shown. 600 volt rated insulation.
6. Open low voltage wiring in return air plenums shall be plenum-rated or run in conduit. All wiring in mechanical rooms electrical-rooms and other areas subject to physical damage shall be run in conduit.

B. CONDUCTOR COLOR CODE SHALL BE AS PER CITY OF AUSTIN ELECTRICAL CODE ARTICLE 310.110(C)(1)

Each panelboard shall have an engraved bakelite nameplate. Nameplates shall be white with black letters and show panel designation. Nameplates shall be attached with stainless steel screws.

Place a neat, carefully typewritten directory card identifying the load served by each branch circuit in the frame on the panel door, under a clear plastic cover. Spares and spaces shall be written with erasable pencil for future use.

A. Circuit Breakers

Where circuit breakers or fuses are applied in compliance with the series combination ratings marked on the equipment by the manufacturers, the equipment enclosure(s) shall be legibly marked in the field to indicate the equipment has been applied with a series combination rating. The marking shall be readily visible and state "caution - Series Rated System." (NEC 110-22).

1. 240 Volt Lighting and Appliance Panelboard:

All main circuit breakers shall be vertically mounted and shall not be installed in branch breaker spaces. Circuit breakers shall be ball-on thermal-magnetic, molded case circuit breakers. Breakers shall be 1, 2, or 3 pole with an integral crossbar to assure simultaneous opening of all poles in multiple circuit breakers. Breakers shall have an over-center, tri-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication. Handles shall have "ON", "OFF" and "TRIPPED" positions.

Circuit breakers shall be UL listed in accordance with UL standard 489 and shall be rated 240 volts or maximum with continuous current rating as noted on the plans. The lugs for terminating conductors shall be rated at 75°C.

Single pole 15 and 20 ampere circuit breakers shall be UL listed as "Switching Breakers" at 120V ac and carry the CMO marking.

UL Class A ground fault circuit protection shall be provided on all receptacle circuits serving wet areas and on all 120V ac branch circuits as specified on the plans or panelboard schedule. This protection shall be an integral part of the branch circuit breaker, which also provides overload, and short circuit protection for branch circuit wiring. Tripping of a branch circuit breaker containing ground fault circuit interruption shall not disturb the feeder circuit to the panelboard. A single pole circuit breaker with integral ground fault circuit interruption shall require a more panelboard branch circuit space than a conventional circuit breaker. Circuit breakers shall be rated 10,000 AIC at 240V unless otherwise noted on plans.

B. Fusible Switches

All fusible switches shall be quick-make, quick-break with visible blades and dual horsepower ratings. Switch handles shall physically indicate "ON" and "OFF" positions. Switches shall be lockable only in the "OFF" position and accept three industrial type heavy duty padlocks. Switch covers and handles shall be interlocked to prevent opening in the "ON" position. A means shall be provided to permit authorized personnel to release the interlock for inspection purposes. Switches shall include positive pressure rejection type fuse clips used with UL class R fuses and be UL listed for 20,000 AIC. Class "J" fuse clips used with UL class R fuses and be UL listed for 20,000 AIC.

2-6 WIRING DEVICES:

Acceptable manufacturers are Hubbell, or Pass & Seymour.

A. SWITCHES

Furnish and install generally where indicated on the Drawings. Coordinate final color and exact locations with architect.

Wall switches shall be 20 amp, 120-277 volt and shall be Hubbell Style Line Series 21 or equal as follows:

1. SINGLE POLE SWITCHES: 2121-W, White.

B. RECEPTACLES:

Furnish and install generally where indicated on the Drawings. Coordinate final color and exact location with architect.

Receptacles shall be Hubbell or equal as follows:

1. Duplex 20A-125V-well grounding: HRL5352 (White, Nema configuration 5-20R).
2. Ground fault circuit interrupter (GFCI) receptacle 20A-125V; GF-20L. (White with indicator light Nema Configuration 5-20R, with "Treed through" connectors capable of protecting connected downstream receptacles on a single circuit, and of being installed in a 2-3/4" deep outlet box without adapter).

C. PLATES:

1. Furnish and install plates on all outlet boxes.
2. Plates in offices and similar finished areas shall be Hubbell smooth thermo-plastic.
3. Wet Locations: Provide Tynmac or Corlon Nema 3R, impact resistant polycarbonate enclosure. Enclosure shall be suitable for wet locations when in use.
4. Provide ball stainless steel type 302/304 coverplates installed in kitchen.
5. Indoor Exposed Raceway Systems: Stamped steel metal, sized to match box without overlapping sharp edges.

Unless noted to the contrary on plans, or directed otherwise during the progress of the Work, wiring devices shall be set as follows:

1. Switches 42 inches above finished floor.
2. Duplex and single receptacles 18 inches above finish floor except where located above counters or interfere with shelving or as required by local codes.

2-7 GROUNDING:

Provide electrical service, equipment and wiring device grounding as shown, scheduled and as specified.

The types of grounding include, but are not limited to, the grounding bonding of all equipment devices, building steel piping, and as required by the National Electrical Code, Local Inspection Department and Power Company. A grounding conductor is required for all feeders and circuits.

Provide grounding products manufactured by Coppsweld and Cadweld.

Ground rods shall be 3/4" inch diameter by 10 feet long construction with copper jacket and a steel core. Ground clamps shall be copper except for steel or iron pipes in which the clamps shall be galvanized iron. Conductors shall be connected by means of an approved pressure connector or clamp.

Perform a ground resistance test using a bidde megger. The system resistance shall not exceed 5 OHMS. Provide additional electrodes as required (refer to 250-94 of the NEC). Test shall not be conducted following wet weather. Provide personnel and instruments to conduct these tests and submit certified test for review.

A. BUILDING STEEL AND PIPING SYSTEM: Install a bonding jumper between building steel and metallic piping systems to bond them to the electrical grounding system.

B. NEUTRAL: The neutral shall be grounded only at the service entrance and other separately derived systems. The neutral shall be kept separate from the grounding system and shall not be used as a ground.

C. GROUNDING CONDUCTOR: A grounding conductor and metallic conduit system shall bond all equipment served by the electrical system. Provide a flexible bonding jumper for isolated metallic piping and ductwork and ground expansion fittings and joints.

D. CONDUIT GROUNDING BUSHING: Conduit terminating in equipment that has a ground bus such as switchboards, panelboards, etc., shall have grounding bushings installed. Ground each such conduit by means of a grounding bushing and to the ground bus in the equipment.

E. SPECIAL GROUNDING: Provide a #6 AWG copper grounding conductor for each telephone board, television system, etc. Terminate the grounding conductor on ground bus and to the building electrical grounding system. Refer to 800-40(4) and 820-40(4) of the NEC.

F. LIGHTING FIXTURES: All light fixtures shall be grounded flexible fixture whips longer than six feet is not considered to be grounded.

G. RECEPTACLES: All receptacle shall be grounded. Receptacles shall use an approved grounding yoke.

2-8 PANELBOARDS:

Furnish and install power distribution, lighting and appliance panelboards as indicated in the panelboard schedule and as shown on the plans. Power distribution panelboards shall be equipped with fusible switches or circuit breakers as shown on the schedule. Panelboards shall be equipped with thermal-magnetic, molded case circuit breakers of frame and trip ratings as shown on the schedule. Acceptable manufacturers are General Electric Company, Square D Company or Siemens.

Panelboard bus structure and main lugs or main breaker shall have current ratings as shown on the panelboard schedule. Such ratings shall be established by heat rise tests with maximum hot spot temperature on any conductor or bus bar not to exceed 50°C, rise above 40°C ambient. Heat rise test shall be conducted in accordance with Underwriters Laboratories Standard UL 67. The use of conductor dimensions will not be accepted in lieu of actual heat tests. All current carrying parts of the bus shall be in plated copper.

Bus structure shall be insulated. Bus bar connections to the branch circuit breakers shall be distributed in phase or phase sequence type and shall accept bolt-on circuit breakers for lighting and appliance panelboards.

Provide a bare uninsulated and/or insulated ground bus and full or double size neutral bus as required and indicated in each panelboard schedule.

Each panelboard shall have an engraved bakelite nameplate. Nameplates shall be white with black letters and show panel designation. Nameplates shall be attached with stainless steel screws.

Place a neat, carefully typewritten directory card identifying the load served by each branch circuit in the frame on the panel door, under a clear plastic cover. Spares and spaces shall be written with erasable pencil for future use.

A. Circuit Breakers

Where circuit breakers or fuses are applied in compliance with the series combination ratings marked on the equipment by the manufacturers, the equipment enclosure(s) shall be legibly marked in the field to indicate the equipment has been applied with a series combination rating. The marking shall be readily visible and state "caution - Series Rated System." (NEC 110-22).

1. 240 Volt Lighting and Appliance Panelboard:

All main circuit breakers shall be vertically mounted and shall not be installed in branch breaker spaces. Circuit breakers shall be ball-on thermal-magnetic, molded case circuit breakers. Breakers shall be 1, 2, or 3 pole with an integral crossbar to assure simultaneous opening of all poles in multiple circuit breakers. Breakers shall have an over-center, tri-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication. Handles shall have "ON", "OFF" and "TRIPPED" positions.

Circuit breakers shall be UL listed in accordance with UL standard 489 and shall be rated 240 volts or maximum with continuous current rating as noted on the plans. The lugs for terminating conductors shall be rated at 75°C.

Single pole 15 and 20 ampere circuit breakers shall be UL listed as "Switching Breakers" at 120V ac and carry the CMO marking.

UL Class A ground fault circuit protection shall be provided on all receptacle circuits serving wet areas and on all 120V ac branch circuits as specified on the plans or panelboard schedule. This protection shall be an integral part of the branch circuit breaker, which also provides overload, and short circuit protection for branch circuit wiring. Tripping of a branch circuit breaker containing ground fault circuit interruption shall not disturb the feeder circuit to the panelboard. A single pole circuit breaker with integral ground fault circuit interruption shall require a more panelboard branch circuit space than a conventional circuit breaker. Circuit breakers shall be rated 10,000 AIC at 240V unless otherwise noted on plans.

B. Fusible Switches

All fusible switches shall be quick-make, quick-break with visible blades and dual horsepower ratings. Switch handles shall physically indicate "ON" and "OFF" positions. Switches shall be lockable only in the "OFF" position and accept three industrial type heavy duty padlocks. Switch covers and handles shall be interlocked to prevent opening in the "ON" position. A means shall be provided to permit authorized personnel to release the interlock for inspection purposes. Switches shall include positive pressure rejection type fuse clips used with UL class R fuses and be UL listed for 20,000 AIC. Class "J" fuse clips used with UL class R fuses and be UL listed for 20,000 AIC.

fuses shall be UL labeled for 200,000 AIC. The lugs for terminating conductors shall be rated at 75°C.

C. Cabinets and Fronts

The panelboard bus assembly shall be enclosed in a steel cabinet with multiple knockouts. The rigidly and square steel cabinet shall be as specified in UL Standard 50 for cabinets. Wiring gutter space shall be in accordance with UL Standard 67 for panelboards. The box shall be fabricated from galvanized steel or equivalent rust resistant steel. Each front shall include a door and have a flush, cylinder-type lock with catch and spring-loaded stainless steel door pull. All panelboard lock shall be keyed alike. Fronts shall have adjustable indicating trim clamps, which shall be completely concealed when the doors are closed. Doors shall be mounted with completely concealed steel hinges. 600A panelboard front shall have exposed trim clamps. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door. Where required by local code, provide Nema 3R enclosure where installed in a sprinklered area.

D. Safety Barrier

The distribution panelboard interior assembly shall be door front with panelboard front removed. Main lugs or main breakers shall have barriers on the sides. The barrier in front of the main lugs shall be hinged to a fixed part of the interior. The end of the bus structure opposite the main shall have barriers.

E. Integrated Equipment Short Circuit Rating

Each panelboard, as a complete unit, shall have a short circuit current rating equal to or greater than the integrated equipment rating shown on the panelboard schedule or on the plans. This rating shall be established by testing with the over-current devices mounted in the panelboard. The short circuit tests on the panelboard shall be conducted on the panelboard structure shall be made simultaneously by connecting the fault to each over-current device with the panelboard connected to its rated voltage source. Method of testing shall be per Underwriters Laboratories Standard UL 67. The source shall be capable of supplying the specified panelboard short circuit current or greater. Testing of panelboard over-current devices for short circuit rating only individually mounted is not acceptable. Also, testing of the bus structure alone is not acceptable. Panelboards shall be UL listed for their maximum short circuit current rating at the supply voltage and shall be UL listed.

2-9 CURRENT - LIMITING DEVICES:

Provide 200,000 amp interrupting capacity current limiting fuses of the ampercity and voltage indicated and scheduled.

Upon completion of the building the contractor shall provide the owner with spare fuses as highly the architect for any discrepancies or conflicts with structural architectural drawings.

A. 10% (minimum of 3) of each type and rating of installed fuses shall be supplied as spares.

B. BUSSMAN spare fuse cabinets - Catalog No. 5FC - shall be provided to store the above spares.

Mains, Feeders and Branch Circuits

1. Circuits 0 to 600 amperes shall be protected by current limiting BUSSMAN LOW-PEAK Dual Element Fuses LPN-RK (250 volts) or LPS-RK (600 volts). All dual-element fuses shall have separate overload and short-circuit elements. Fuse shall incorporate a spring actuated thermal overload element having a 284 degree Fahrenheit melting point alloy and shall be independent of the short-circuited clearing chamber. The fuse shall hold 500% of rated current for a minimum of 10 seconds and listed by Underwriters' Laboratories, Inc. with an interrupting rating of 200,000 amperes r.m.s. symmetrical. The fuses shall be UL Class RK1.

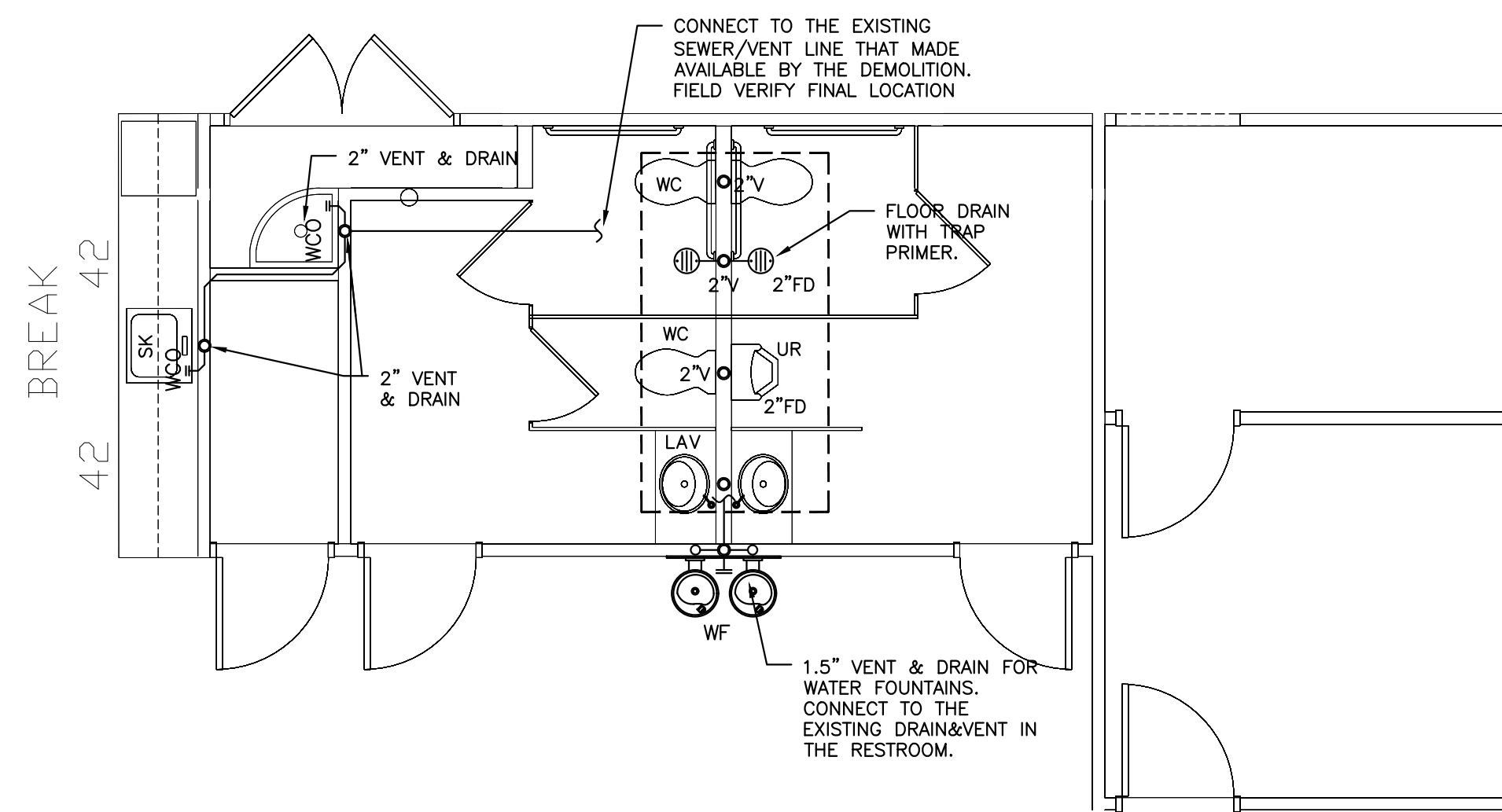
2. Motor Circuits - All individual motor circuits rated 800 amperes or less shall be protected by BUSSMAN LOW-PEAK Dual Element Fuses LPN-RK (250 volts) or LPS-RK (600 volts). The fuses for 11.5 service factor motors shall be installed in ratings approximately 125% of motor full current except where high ambient temperatures prevail, or where the motor drives a heavy revolving part which cannot be brought up to full speed quickly, such as large fans. Under such conditions the fuse shall be 150% to 200% of the motor full load current. Larger H.P. Motor shall be protected by BUSSMAN Type KRP-C H-CAP Time-Delay fuses of the ratings shown on the drawings. 1.3 service factor motors shall be protected by BUSSMAN LOW-PEAK Dual-Element Fuses LPN-RK (250 volts) or LPS-RK (600 volts) installed in ratings approximately 115% of the motor full load current except as noted above. The fuses shall be UL Class RK1 or L.

2-10 SAFETY AND DISCONNECT SWITCH:

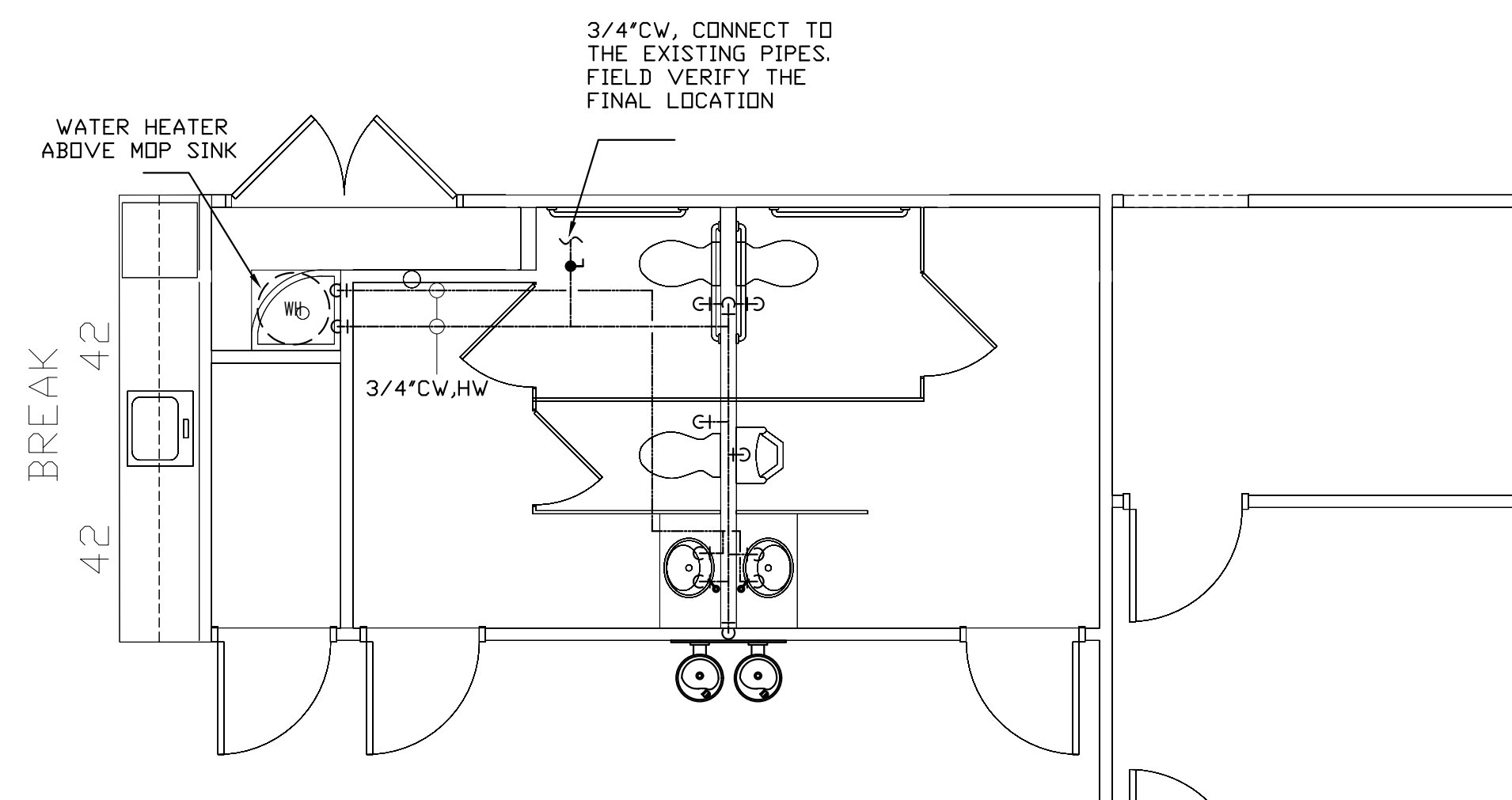
A. Products shall be designed, manufactured, tested and installed in compliance with applicable standards.

1. NEMA KSI - Enclosed switches
2. Federal specification W-5-865C-Heavy duty switches

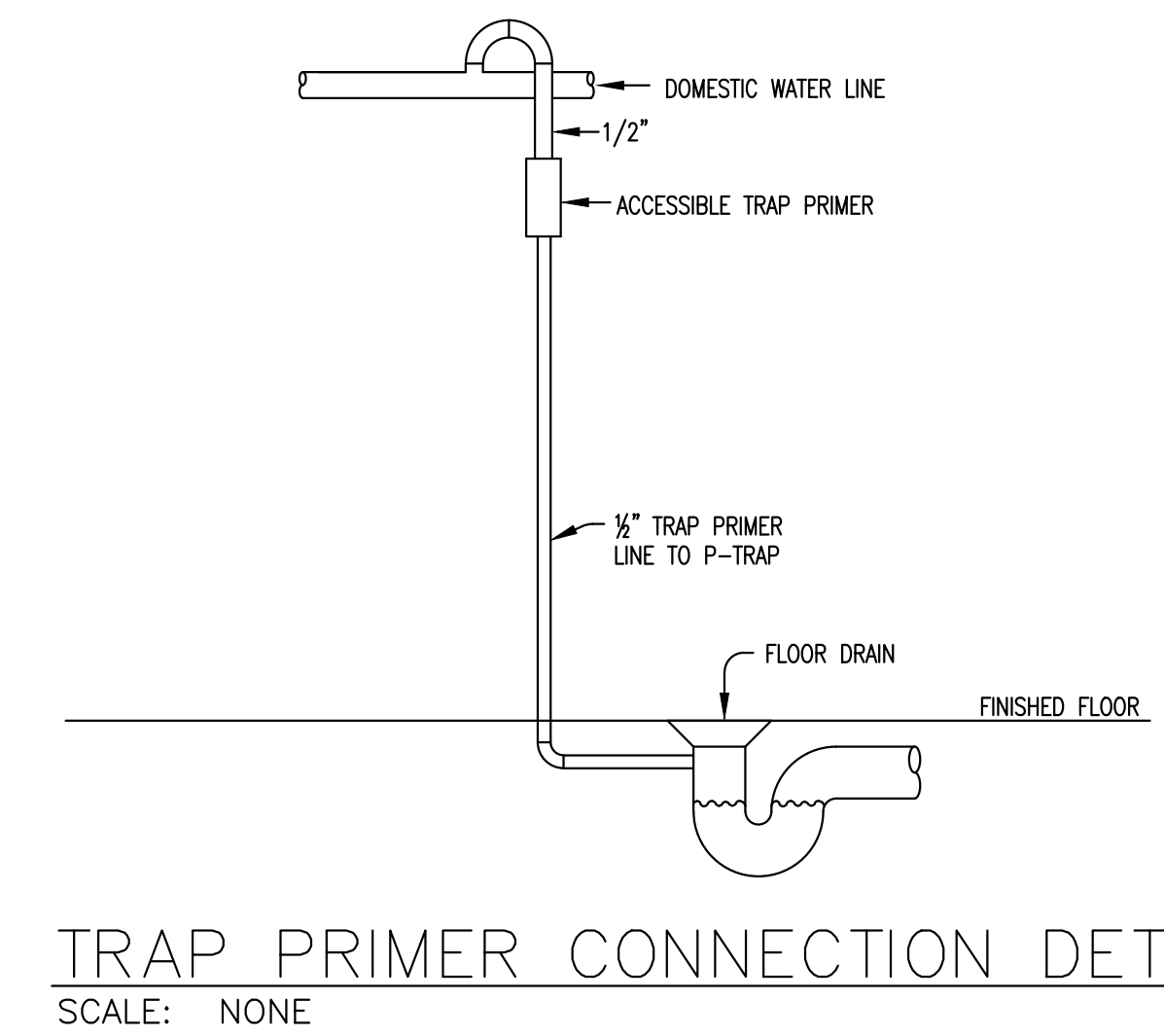
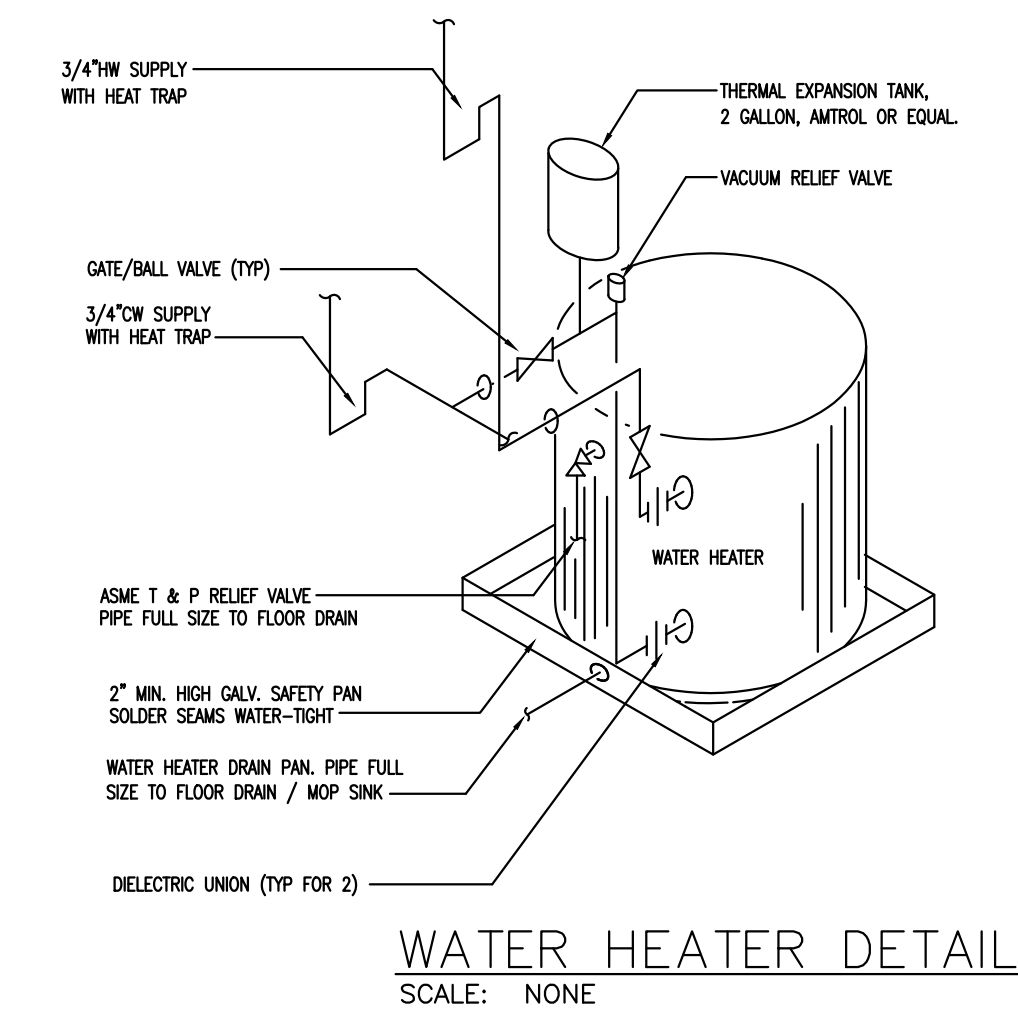
Products shall conform all applicable UL standards, including UL98 (standard for safety, enclosed and dead front switches) and shall be UL-labeled.



02 PLUMBING DRAIN/VENT FLOOR PLAN
SCALE: 1/4" = 1'-0"



01 PLUMBING WATER FLOOR PLAN
SCALE: 1/4" = 1'-0"



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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
06/16/2021
ALL INSTRUMENTS OF SERVICE, INCLUDING ORIGINAL DRAWINGS, AND SPECIFICATIONS PROVIDED BY THE ARCHITECT SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ALL REPRODUCTIONS OF THE INSTRUMENTS OF SERVICE SUPPLIED TO THE OWNER MAY BE USED BY THE OWNER FOR ANY PURPOSES RELATED TO THE SERVICES AND MADE IN THE PLANS AND/OR SPECIFICATIONS BY THE OWNER OR PERSONS OTHER THAN THE ARCHITECT. ANY AND ALL LIABILITY ARISING OUT OF SUCH CHANGES SHALL BE THE FULL RESPONSIBILITY OF THE OWNER UNLESS OWNER HAS GIVEN ARCHITECT WRITTEN NOTICE AND HAS RECEIVED ARCHITECT'S WRITTEN CONSENT FOR SUCH CHANGES.

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P1-01

PLUMBING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	CW	HW	WASTE	VENT	FLOW GPM	REMARKS
WC	WATER CLOSET (HANDICAPPED)	1-1/2"	---	4"	2"	1.1 GPF	AMERICAN STANDARD 2467100.020 CADET 1.1 GPF 2-PIECE ELONGATED TOILET WITH 12-IN ROUGH-IN, AND OPEN FRONT SEAT, WHITE.
MS	MOP SINK	1/2"	1/2"	3"	2"	2.2	FIAT MODEL MSB2424, MOEN COMMERCIAL Mop Sink Faucet Mfr. Model # 8230,
LAV	LAVATORY	1/2"	1/2"	2"	2"	1.2	AMERICAN STANDARD 9482.000.020 OVALYN 16-3/4" UNDERMOUNT PORCELAIN BATHROOM SINK AND #7075.004 FAUCET SINGLE LEVER
SK	BREAK AREA SINK	1/2"	---	2"	2"	---	16"x16"x5.5" ADA-BREAK ROOM UNDERMOUNT IN SINK - ROUGH-IN 1/2" DOMESTIC COLD WATER AND HOT WATER SUPPLY LINES, 2" SANITARY WASTE AND 2" VENT * DROP-IN STAINLESS-STEEL SINK, JUST US-ADA-1818-A-1/2" BOW DEPTH * HOT/COLD FAUCET, EKAY LK1000 * MCGUIRE NO. 155WC ADA COMPLIANT OFFSET LAVATORY GRID STRAINER * MCGUIRE NO. 8872 1-1/4"x1-1/4" CAST BRASS P-TRAP * MCGUIRE NO. 2165LK 1/2"IPS X 3/8" OD SUPPLIES
FD	FLOOR DRAIN	---	---	2"	---	---	FIAT MODEL MSB2424, MOEN COMMERCIAL Mop Sink Faucet Mfr. Model # 8230,
WF	WATER FOUNTAIN	1/2"	---	2"	2"	---	Elkay ADA Barrier Free Water Cooler, Light Gray Granite, 2 Station, Reversible, EZSTLBC

PLUMBING WATER HEATER (ELECTRICAL) SCHEDULE							
TAG	KW	VOLTAGE	AMP	STORAGE CAPACITY	MANUFACTURER	MODEL	WATER CON.
WH	4500	208	22	19	RHEEM	#EGSP20 208V #31CE0 GRANGER	3/4"

GENERAL REQUIREMENTS

- ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' REQUIREMENTS AND STATE AND NATIONAL CODES AS THE MINIMUM REQUIREMENT. SUCH AS: IBC, IECC, UBC, UNIFORM MECHANICAL CODE, UNIFORM PLUMBING CODE, FIRE CODE, NEC, U.F.P.A. AND OTHER APPLICABLE CODE. THESE CODES ARE APART OF THIS CONTRACT WILL BE REFERENCED FOR ASSURING COMPLIANCE. DRAWINGS SHALL GOVERN WHERE A LARGER SIZE OR QUANTITY OR A BETTER QUALITY IS SHOWN THAN IS REQUIRED BY CODE(S). AS USED IN THE FOLLOWING, "CONTRACTOR" SHALL MEAN THE GENERAL CONTRACTOR INSTALLING WORK UNDER THIS DIVISION OF THE WORK. THE GENERAL CONTRACTOR (G.C.) MAY ELECT TO SUBCONTRACT ANY WORK AT HIS DISCRETION THROUGH WORK DESCRIBED IN THESE DOCUMENTS IS THE G.C.'S RESPONSIBILITY AND ACKNOWLEDGED AS SUCH.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE ONLY AND DO NOT SHOW EVERY REQUIRED MISCELLANEOUS DETAIL, SUPPORT, FITTING, ETC., FURNISH AND INSTALL ALL MATERIALS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM WHETHER OR NOT SHOWN ON THE DRAWINGS. FOR EXAMPLE, VALVES ARE NOT SHOWN AND TO BE PROVIDED PER CODE AND ACCEPTABLE PRACTICE, FOR MAINTENANCE AND SO ON. DO NOT SCALE OR USE THESE PLANS FOR DIMENSIONAL INFORMATION.
- COORDINATE INSTALLATION WITH OTHER TRADES TO ASSURE INSTALLATION OF MATERIALS AND EQUIPMENT AS REQUIRED FOR THE PROPER SEQUENCE OF CONSTRUCTION. VERIFY AND INSTALL WITHIN INTENDED SPACE REQUIREMENTS WITH PROVISIONS SUCH AS VALVES AND PANELS FOR ACCESS AND SERVICE AND REMOVAL.
- CONTRACTOR SHALL INSPECT, PRIOR TO BID, THE SITE AND INFORM HIMSELF OF THE CONDITIONS AFFECTING THE WORK. NO ADDITIONAL ALLOWANCES WILL BE MADE BECAUSE OF FAILURE TO OBTAIN INFORMATION ON SITE CONDITIONS. COORDINATE AND INSTALL WORK AS REQUIRED AND DIRECTED BY LOCAL UTILITY COMPANIES STANDARDS.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS MANNER CONSISTENT WITH MIN. INDUSTRY STANDARDS. MATERIALS OR EQUIPMENT WHICH DO NOT PRESENT A REASONABLY NEAT OR WORKMANLIKE APPEARANCE MAYBE DIRECTED BY THE ARCHITECT TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- FURNISH 3 COPIES OF BROCHURES/SHOP DRAWINGS FOR APPROVAL PRIOR TO STARTING WORK. AT PROJECT CLOSEOUT, PROVIDE (3) COPIES OF OPERATING MANUALS, (1) COPY OF "AS BUILT" RECORD DRAWINGS, AND INSTRUCT OWNER IN THE OPERATION OF ALL EQUIPMENT.
- ALL MISCELLANEOUS WORK SUCH AS EXCAVATION BACKFILL, CONCRETE, PADS, SLEEVES, ETC. REQUIRED TO PERFORM WORK UNDER THIS DIVISION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS DIVISION OF THE WORK, OBTAIN AND PAY FOR ALL REQUIRED LICENSES, PERMITS AND CERTIFICATES REQUIRED FOR WORK UNDER THIS SECTION.
- ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF (1) YEAR BEYOND FINAL ACCEPTANCE IN A FORM ACCEPTABLE TO THE ARCHITECT. GUARANTEE SHALL INCLUDE CORRECTIONS OR REPLACEMENT OF DAMAGE OR REPLACEMENT TO OTHERS' WORK OF MATERIALS WHICH IS CAUSED BY WORK UNDER THIS DIVISION.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND FEES. PRODUCTS SHOWN ON DRAWINGS MAY BE SUBSTITUTED WITH EQUALS APPROVED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ARISING FROM USE OF EQUAL PRODUCTS.
- ALL MATERIAL SHALL BE NEW, COMMERCIAL GRADE AND BE U.L. LABELED AND CONFORM TO APPLICABLE CODES.
- SEE ADDITIONAL SPECIFICATION MANUAL.

- B. PLUMBING SYSTEM GENERAL NOTES:
- USE CAST IRON SOIL PIPE PRODUCTS FOR SANITARY SYSTEMS. ALTERNATE: PVC
 - USE COPPER PRODUCTS FOR DOMESTIC WATER SYSTEMS.
 - SUBMIT THE FOLLOWING SHOP DRAWINGS:
 - PRODUCT INFORMATION
 - EQUIPMENT AND MATERIAL PRODUCTS.
 - SAMPLES AS REQUIRED BY OWNER/ARCH/ENG.
 - INSULATE HOT AND COLD WATER PIPING WITH 1/2" FORMED FIBERGLASS PRODUCTS U.L. APPROVED.
 - PROVIDE CONDENSATE DRAIN LINES TO ALL EQUIPMENT, AS REQUIRED AND ROUTE TO NEAREST DRAIN. REFER TO MECHANICAL PLANS FOR REQUIREMENTS.
 - PROVIDE ADEQUATE VALVES FOR SHUT OFF AND MAINTENANCE.

TYPE OF SERVICE	OUTSIDE BUILDING			INSIDE BUILDING		
	PIPE	CONNECTION	INSULATION	PIPE	CONNECTION	INSULATION
DRAIN, WASTE & VENT	SCHEDULE 40 P.V.C.	SCHEDULE 40 P.V.C. SOLVENT WELDED	N/A	SCHEDULE 40 P.V.C.	SCHEDULE 40 P.V.C. SOLVENT WELDED	N/A
COLD WATER (ABOVE SLAB)	SCHEDULE 40 C.P.V.C.	SCHEDULE 40 C.P.V.C. SOLVENT WELDED	1/2" ARMAFLEX, COATED	PEX	LEAD FREE SOLDER	1/2" ARMAFLEX (WHERE SHOWN)
COLD WATER (UNDERGROUND)	SCHEDULE 40 C.P.V.C.	SCHEDULE 40 C.P.V.C. SOLVENT WELDED	1/2" ARMAFLEX, COATED TO 1" BELOW GRADE	PEX	LEAD FREE SOLDER	N/A
HOT WATER	SCHEDULE 40 C.P.V.C.	SCHEDULE 40 C.P.V.C. SOLVENT WELDED	1/2" ARMAFLEX, COATED TO 1" BELOW GRADE	PEX	LEAD FREE SOLDER	1/2" ARMAFLEX

GENERAL PLUMBING NOTES

- A. THESE CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND GENERAL IN NATURE ONLY, WHICH PROVIDE A COMPLETE SET OF PARAMETERS CONTRACTOR IS TO OPERATE WITHIN, INCLUDING BUT NOT LIMITED TO ENGINEERING REQUIREMENTS, ALL APPLICABLE CODES RELATING TO THE SUBJECT JURISDICTION, MANUFACTURER REQUIREMENTS, AND AS OTHERWISE APPLICABLE. THE CONTRACTOR WILL BE SOLELY LIABLE AND RESPONSIBLE AND AT HIS OWN RISK WHEN OPERATING OUTSIDE THESE CONTRACT DOCUMENTS AND RELATED PARAMETERS. FURTHER, REFER TO ARCHITECTURAL DOCUMENTS WHEN ATTEMPTING TO DETERMINE DIMENSIONAL REQUIREMENTS. DO NOT SCALE THESE DRAWINGS.

SECTION 1 - PLUMBING

PART 1 - GENERAL

- SCOPE OF WORK: PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING PIPING WHERE REQUIRED, COMPLETE AS CALLED FOR OR INDICATED ON THE PLANS AND SPECIFICATIONS ACCORDING TO ALL LOCAL CODES, WITH THESE PLANS AS A MINIMUM REQUIREMENT.

PART 2 - PRODUCTS

- WATER PIPING: PIPING SHALL BE STANDARD WEIGHT COPPER RATED FOR W/ SOLDER JOINTS, FOR APPLICABLE USE. NO PIPING OVERHEAD ALLOWED.
 - TYPE L BELOW GRADE TO 6" AFF.
 - TYPE L ABOVE GRADE
- WASTE AND VENT PIPING: WHEN ALLOWED, USE SCHEDULE 40 PVC PLASTIC WITH FITTINGS INSTALLED AS RECOMMENDED BY THE MANUFACTURER. CONNECT TO THE CITY SEWER AS REQUIRED BY THE CITY. OTHERWISE USE CAST IRON.
- VACUUM BREAKERS: WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, SHALL BE ANGLE PATTERN WITH BUILT-IN LIFT TYPE CHECK VALVE.
- VALVES: PLUMBING CONTRACTORS SHALL FURNISH ALL VALVES OF ONE MANUFACTURER, FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK, UNLESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE NIBCO CATALOG. VALVES OF REPUTABLE MANUFACTURERS, SUCH AS CRANE CO., WATTS REGULATOR CO., AND WALWORTH CO. WILL BE ACCEPTABLE ALTERNATES, WHERE SHOWN TO BE EQUAL TO THOSE SPECIFIED. INSTALL GATE VALVES AT EACH EQUIPMENT CONNECTION.
 - GATE VALVES: ONE AND ONE-HALF (1-1/2) INCH AND SMALLER SHALL BE BRASS OR BRONZE BODY, BRASS TRIM, UNION BONNET, BUILT FOR A MINIMUM 125 LBS. WORKING PRESSURE. NIBCO S-136 (OR T-136 DEPENDING ON CONNECTION DESIRED) OR AN APPROVED EQUAL.
 - GLOBE VALVES: ONE (1) INCH AND SMALLER SHALL BE BRASS OR BRONZE BODY, BRASS TRIM, SCREWED BONNET, BUILT FOR 125 LBS. WORKING PRESSURE, NIBCO S-211 (OR T-211) OR AN APPROVED EQUAL.
 - CHECK VALVES: ONE (1) INCH AND SMALLER SHALL BE BRASS OR BRONZE BODY, VERTICAL LIFT, TEFLON DISC, BUILT FOR 125 LBS. WORKING PRESSURE, NIBCO S-480-Y (OR T-480-Y) OR AN APPROVED EQUAL.
- UNIONS: PROVIDE UNIONS AT EACH EQUIPMENT CONNECTION, PROVIDE PROPER DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN MATERIALS OF DISSIMILAR METALS.
- EXTERIOR HOSE BIBBS: WILL BE THREADED FROST-FREE WITH INTERIOR PANEL FOR BLOW DOWN WHERE FREEZING MAY OCCUR. ALIGN WITH PERPENDICULAR WALL AND PROVIDE INTERIOR SHUT-OFF VALVE. COMMON EXTERIOR HOSE BIBBS ACCEPTABLE IN CLIMATES THAT DO NOT HAVE FREEZING WEATHER. ALL HOSE BIBBS SHALL HAVE REMOVABLE KEY AND A VACUUM BREAKER.
- PRESSURE REDUCING VALVE: PROVIDE WATTS NO. US8 IF THE CITY WATER PRESSURE IS OVER SEVENTY (70) PSI. SIZE TO EQUAL WATER SERVICE.
- EACH PUBLIC HAND WASHING SINK SHALL BE SUPPLIED WITH A TEMPERATURE LIMITING DEVICE TO MAINTAIN TEMPERED WATER. EMPLOYEE HAND WASHING SINKS, BAR SINKS, AND NON-TOILET ROOM HAND WASHING FIXTURES DO NOT REQUIRE TEMPERED WATER. SEC. 416.5 2012 IPC
- MIXING VALVE: POWERS MODEL 431 THERMOSTATIC TYPE W/LIQUID FILLED SENSOR, TEMPERATURE RANGE 65-115F, 3/4" COMB. CHECK STOPS ON INLETS, PROVIDE W/AQUASTAT AND 3" DIAL TYPE THERMOMETER 25F TO 125F RANGE. SET TO MAINTAIN A MAXIMUM 110F DISCHARGE.
- THERMOMETER: FURNISH AND IN INSTALL A WEKSLER AF04 WITH A S3B4 WELL. THERMOMETER SHALL HAVE A FIVE (5) INCH DIAL, ADJUSTABLE POINTER, 304 STAINLESS STEEL CASE, 360 DEGREES ADJUSTABLE HEAD WITH BRASS WELLS. TEMPERATURE RANGE AS REQUIRED. APPROVED EQUALS BY ASHCROFT OR PALMER ARE ACCEPTABLE.

- BACKFLOW PREVENTER: PROVIDE BACKFLOW PREVENTERS AS REQUIRED BY LOCAL AND/OR STATE AUTHORITIES. PROVIDE WATTS N9-CD AT SILL COCKS. PROVIDE AT BUILDING SERVICE ENTRANCE AS SPECIFIED BY AUTHORITIES, OR A WATTS POLYMER-COATED UNIT.
- INSULATION: WATER PIPING TO BE RUN ON WARM SIDE OF EXTERIOR WALLS, WHEN NOT IN SLAB. INSULATE ALL HOT WATER PIPE. INSULATE ALL HOT AND COLD WATER PIPE IN EXTERIOR WALLS. INSULATION SHALL BE THREE QUARTER (3/4) INCH THICK ARMAFLEX FLEXIBLE CELLULAR INSULATION. FIBERGLASS INSULATION IS NOT ACCEPTABLE.
- ROOF FLASHING: SHALL BE PVC WITH 16 X 16 BASE AND EIGHT (8) INCH HIGH BOOT.
- NOT USED
- WATER HAMMER ARRESTORS: (SHOCK ABSORBERS) ZURN SHOCKTROL SIZED & INSTALLED PER MANUF. INSTRUCTIONS.

PART 3 - EXECUTION

- PERFORM ALL TESTS REQUIRED BY CODE OR NECESSARY TO DEMONSTRATE THE INTEGRITY OF THE FINISHED INSTALLATION.
- INSTALL CLEANOUTS AS SHOWN, AS CALLED FOR IN THE CODE, AND WHERE REQUIRED FOR PROPER MAINTENANCE. CLEANOUTS SHALL BE FLUSH WITH WALL OR FLOOR AND COMPLETELY ACCESSIBLE.
- PROVIDE EIGHTEEN (18) INCH AIR CHAMBERS AT THE ENDS OF ALL HOT AND COLD WATER PIPE RUNS. PROVIDE WATER HAMMER
- NEW POTABLE WATER PIPING SHALL BE CLEANED AND DISINFECTED AS FOLLOWS:
 - THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL ALL OUTLETS RUN CLEAR.
 - THE PIPING SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE (50MG/L) AND THE SYSTEM VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS. AFTER THE REQUIRED STANDING TIME, FLUSH COMPLETELY WITH POTABLE WATER.

SECTION 2 - PLUMBING FIXTURES AND TRIM

PART 1 - GENERAL

- ACCEPTABLE MANUFACTURERS: EQUAL PRODUCTS OF KOHLER, AMERICAN STANDARD, ELKER OR BENEKE WILL BE ACCEPTED IN PLACE OF THOSE SPECIFIED (SEE GENERAL CONDITIONS OF CONTRACT), UNLESS OTHERWISE NOTED.
- FIXTURE EFFICIENCY: THE FOLLOWING MAXIMUM FLOW RATES SHALL BE REQUIRED IN A TYPE AND STYLE FIXTURE AS DESIGNATED.
 - THE MAXIMUM FLOW FROM A SINK OR LAVATORY FAUCET SHALL NOT EXCEED 2.2 GPM AT 60 PSI.
 - THE MAXIMUM VOLUME OF WATER PER FLUSH FROM A WATER CLOSET SHALL NOT EXCEED 1.6 GAL.

HEREINAFTER.

ABBREVIATIONS

VTR	VENT THRU ROOF
CO	CLEAN OUT (FLOOR)
WCO	CLEAN OUT (WALL)
FD	FLOOR DRAIN
FS	FLOOR SINK
HD	HUB DRAIN
AFF	ABOVE FINISH FLOOR
ASV	ACCESSIBLE STOP VALVE
VB	VACUUM BREAKER
MV	MIXING VALVE
SA	SHOCK ABSORBERS
HC	HANDICAP ADA RATING REQUIRED
JR	JUNIOR
RD	ROOF DRAIN

GENERAL NOTES

- INSULATE ALL HOT WATER PIPING WITH 1/2" ARMAFLEX
- PROVIDE 3/8" CW SUPPLY TO ALL FLOOR DRAIN TRAP PRIMERS, IF PRIMERS ARE REQ'D BY LOCAL CODE.
- THIS CONTRACTOR SHALL PROVIDE WATER CONNECTIONS TO THE PROPER UTILITY AS SHOWN ON THE SITE PLANS.
- WATER PIPING RUN BELOW FLOOR. NO JOINTS OR FITTING ALLOWED BELOW FLOOR.
- LOCATE ALL VENTS ON REAR ROOFS. LOCATE ALL VENTS 10' AWAY FROM ANY EXHAUST OR INTAKE DUCT.
- ALL CLEANOUTS ARE TO BE THE FULL SIZE OF THE SANITARY OR WASTE BRANCH TO WHICH THEY ARE INSTALLED.
- ALL SANITARY AND WASTE LINE ARE TO BE SLOPED AT 1/4" PER FT.
- ALL WATER CLOSETS SHALL BE A MINIMUM OF 15" FROM CENTERLINE OF BOWL TO ADJACENT WALL UNLESS NOTED ON PLAN. FLUSH CONTROLS SHALL BE ON THE OPEN SIDE OF THE WC, AWAY FROM WALL.
- CONTRACTOR IS CAUTIONED THERE IS A LONG LEAD TIME FOR JR. CLOSETS & THE ROUGH-IN IS NOT A STANDARD DIMENSION.
- GROUT/SEAL ALL FIXTURES TO THE WALL OR FLOOR.
- NOT USED
- THIS CONTRACTOR SHALL PROVIDE SEWER CONNECTIONS TO THE PROPER UTILITY AS SHOWN ON THE SITE UTILITY PLANS.
- PROVIDE ACCESSIBLE SINKS, 4" MAX. DEPTH FINISH TO MATCH ADJACENT SINKS. FAUCETS SHALL BE MOUNTED 18" MAX. FROM FRONT EDGE OF CABINET. FAUCET SHALL HAVE WRIST HANDLES.
- PRIMARY COND. DRAIN FROM AULS TO BE 2" PVC PIPE, IE DIRECTLY INTO SAN SEWER. SECONDARY DRAINS TO OUTSIDE. SEE MECH PLAN FOR LOCATION.

FIXTURE	CONNECTION SIZE		
	SANITARY	VENT	C.W. H.W.
LAVATORY	2"	2"	3/4" 1/2"
SINK	2"	2"	3/4" 1/2"
SERVICE SINK	2"	2"	3/4" 1/2"
SHOWER	2"	2"	3/4" 1/2"
FLOOR DRAIN	*2"	2"	*1/2" -
WATER CLOSET	4"	2"	1" -
ELEC. DRINK. FNT.	2"	2"	1/2" -
URINAL	2"	2"	3/4" -

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06/16/2021

ALL INSTRUMENTS OF SERVICE, INCLUDING ORIGINAL DRAWINGS, AND SPECIFICATIONS PREPARED BY THE ARCHITECT SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ALL REPRODUCTIONS OF THE INSTRUMENTS OF SERVICE SUPPLIED TO THE OWNER MAY BE USED BY THE OWNER FOR PROPERTY AS THE EVENT THAT ANY CHANGES ARE MADE TO THE INSTRUMENTS OF SERVICE BY THE OWNER OR PERSONS OTHER THAN THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE INSTRUMENTS OF SERVICE. THE ARCHITECT'S WRITTEN CONSENT FOR SUCH CHANGES SHALL BE THE FULL RESPONSIBILITY OF THE OWNER UNLESS OTHERWISE NOTED ON THE INSTRUMENTS OF SERVICE.

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FOR PERMIT

P5-01

SECTION 15400

PART I: GENERAL – PLUMBING

1-1 DESCRIPTION:

All work on these drawings shall be done in strict accordance with these specifications.

The work included under this contract shall consist of furnishing and installing the waste, vent, and sanitary sewer system; domestic cold and hot water supply system; and all fixtures, equipment accessories, and appurtenances.

1-2 WARRANTY:

The contractor shall guarantee the work for a period of one year beyond date of final acceptance. During that period, the contractor shall repair or replace, at his own expense, any faults or imperfections that may arise due to defects in material and workmanship, including fixtures and pipe leaks. Defects shall include but not be limited to noisy operation, loose or missing parts, or noticeable deterioration of finish. During this period, the contractor shall actually perform all service work required.

1-3 PROJECT CONDITIONS:

The contractor shall visit the site of the work and fully understand the conditions that affect the work, or the cost thereof, understand the existing utilities from which services will be supplied, verify locations of utility services and determine in advance that equipment and materials proposed for installation fit into the confines indicated.

1-4 PERMITS AND FEES:

The contractor shall arrange and pay for all permits, fees, tests, and all inspections as required by governmental authorities.

1-5 COORDINATION WITH FIELD CONDITIONS:

The contract documents are schematic in nature in that they are only to establish scope and a minimum level of quality. All pipe equipment locations as indicated on the documents do not indicate every offset or exact location. All offsets and exact locations shall be established by actual field measurements, coordination with structural, architectural, mechanical, and electrical. All offsets and relocations as required by actual field conditions shall be performed by the contractor at no additional cost to the owner.

1-6 SUBMITTALS:

Contractor shall provide six sets of submittals on all plumbing fixtures and piping accessories. Any deviations from the specified items shall be listed on the cover sheet and clearly itemized for all deviations. The contractor shall provide two copies of owner's manuals to the architect upon completion of the work.

1-7 QUALITY ASSURANCE:

All work shall be performed in accordance with all state, local, and federal codes and all authorities having jurisdiction.

1-8 EQUIPMENT IDENTIFICATION:

All equipment shall be identified by means of nameplates permanently attached to the equipment. Nameplates shall be engraved laminated plastic or etched metal.

PART II: PRODUCTS – PLUMBING

2-1 SOIL, WASTE, VENT PIPE, AND FITTINGS ABOVE GROUND (Inside building)

A. Pipe, 1-1/4" and 1-1/2": ASTM B306-83, copper drainage tubing (DWV)

B. Fittings, 1-1/4" and 1-1/2": ANSI B16.23-84, cast bronze solder drainage fittings.

C. Pipe, 2" and larger: CISPI 301-82, hubless cast iron pipe, service weight (SV), with hubless joints using stainless steel bands or Bell & Spigot cast iron pipe and fittings with compression gaskets.

D. Exposed pipe and fittings: Polished chrome over nickel plated brass.

2-2 SOIL, WASTE, PIPE AND FITTINGS, BELOW GROUND:

A. PVC Pipe: ASTM D 1785/D 2665 schedule 40

1. Fittings: PVC, ASTM D 3311/D 2665 drainage pattern, with bell and spigot ends to be furnished by the same manufacturer as pipe or approved equal.

2. Joints: solvent weld with ASTM D 2564 solvent cement, clear, medium bodied, for sizes 3" and smaller and gray, heavy bodied, for sizes 4" and larger, mating surfaces shall be prepared with ASTM F 656 purple primer immediately prior to cement application.

PLUMBING SPECIFICATIONS

2-3 CLEANOUTS:

Same size as piping up to 4". Minimum of 4" for larger piping.

A. Interior: Adjustable cast iron floor cleanout with inside or outside caulk connection, bronze internal plug, satin top, Nikoloy rim and cover plate for light traffic. Recessed for tile floors with vandal proof, secured cover. Zurn Manufacturing Company or approved equal.

1. Concrete and resilient floors: Zurn series Z-1415-2, Z-1410-3, or approved equal.

2. Quarry and ceramic tile floors: Zurn series Z-1415-3, Z-1410-3, or approved equal.

3. Partitions: Zurn series Z-1445-1 with access cover or approved equal.

2-4 FLOOR DRAINS:

Cast iron, two piece body with drainage flange, non-puncturing flashing collar, weep holes, bottom outlet, inside caulk connection, sized as shown. Provide an adjustable, satin finish, solid bronze alloy, 6" square or 6" diameter strainer, and accessories. Zurn series Z-415 with type "B" round or type "Y" square strainer, or as noted on plans.

2-5 DOMESTIC WATER PIPING AND FITTINGS ABOVE GROUND:

A. Piping: ASTM B88-83a, copper tubing, hard drawn, type "L".

B. Fittings: ANSI B16.22-80, wrought copper solder joint.

C. Unions 2" and smaller: ANSI B16.22-80, wrought copper solder joint, ground seat.

D. Dielectric connections: Epco Sales, Inc., Cleveland, Ohio or approved equal. Select gasket materials for compatibility with fluid used, temperature, and pressure.
1. Unions 2" and smaller: 175 p.s.i. minimum working pressure, ends to match connections.

E. No foreign pipe or fittings shall be allowed for this project.

F. Escutcheon Plates: Provide escutcheon plates similar to Grabler "Sure-lock" or Smith Figure "9070" at locations where pipe penetrations finished and semi-finished floors, walls or ceilings.

2-6 NOT USED

2-7 DOMESTIC WATER VALVES ABOVE GROUND:

All bronze, solder ends, line size.

A. Gate: 150 pound SWP saturated, 300 pound WOG, integral seat, solid wedge, rising stem, screw in bonnet conforming to MSS SP-80. Nibco Scott S-134 by Nibco, Inc., Elkhart, Indiana or approved equal.

B. Ball: Up to and including 2 inches: Bronze 600psi two piece body full port, stainless steel ball and stem, Teflon seats and stuffing box ring, lever handle and balancing stops, solder or threaded ends with unions.

2-8 NOT USED

2-9 DOMESTIC WATER ACCESSORIES:

A. Pressure reducing regulator valve: Self-contained, bronze body, fast fill, fully adjustable, complete with strainer and pressure relief valve. (To be provided if pressure is in excess of 65 p.s.i.)

B. Exposed piping at plumbing fixtures: Chrome plated brass pipe.

C. Pipe sleeves and plates:

1. Provide sleeves made from steel pipe or tubing for all pipes passing through concrete floors or walls. Sleeves for partitions shall be a minimum of 24 USS gauge galvanized iron. Size for outside diameter of insulation.

2. Fit uninsulated pipe passing through or entering from floors, finished walls, or ceilings with heavy cast brass, chrome plated escutcheons firmly secured to pipes with set screws.

D. Air Chambers:

1. Branch air chambers: Provide air chambers for hot and cold water branch piping of the same materials and the next larger diameter than the supply pipe.

2. Hot and cold water riser air chambers: Provide air chambers for hot and cold water riser minimum 1-1/2" pipe trade size by 24" high.

3. Contractor's option: Provide factory fabricated water hammer eliminators sized and located in accordance with plumbing and drainage institute standard "WH-201" bearing the seal of P.D.I.

4. Access doors: Provide access doors or panels of suitable size for ready servicing of water hammer arrestors, valves, and other devices where concealed in partitions.

2-10 INSULATION

A. Domestic hot and cold water: Insulate all pipe, fittings, and valves with factory molded fiberglass insulation 1" thick for pipe sizes of 1-1/4" and less, 2" thick for pipe sizes 1-1/2" and greater with white vapor barrier jacket.

* Insulation shall have a conductivity (K) value not exceeding 0.27 BTU PER IN/H X FT SQUARED X DEGREE F. 2-11 HANGERS, ANCHORS, AND GUIDES:

A. Insulated pipe: Auto-grip Insul-speed hangers, Figure 800, by Fee and Mason Division, A-T-O, Inc., Manasquan, New Jersey or approved equal. Size to fit outside diameter of insulation.

B. Uninsulated pipe: Adjustable band, copper plated and plastic coated hanger, Figure 381, Fee and Mason Division, A-T-O, Inc., Manasquan, New Jersey or approved equal.

C. Anchors and rods: Support by approved rods and anchors from building members. Perforated metal tape is prohibited.

2-12 JOINT MATERIALS:

A. Hubless cast iron pipe joints: For above ground pipe, stainless steel couplings, per CISPI 301-82.

B. Solder: ASTM B32-83, 95-5, tin-antimony, the use of solder containing more than 0.20 percent lead will not be permitted.

2-13 PLUMBING FIXTURES:

A. General: Color shall be white. Fixtures shall be complete with all required specialties, trim, supports, and related items. Provide screwdriver operated stops and escutcheons on all piping brass P-trap with tubing drain to wall. Size to match tailpiece with chrome plated escutcheon. Products manufactured by American Standard, Kohler, or Eljer are acceptable.

B. Chair carriers and urinal supports: Provide chair carriers, Smith Figure 110-L, 110-R, 110-D, or Zurn as required for all wall hung water closets. Provide Smith #693 wall supports. Provide carriers for wall hung lavatories and drinking fountains.

C. Refer to construction documents for further specifications.

2-14 PIPE IDENTIFICATION:

A. Pipe marking:

1. All visible piping located in accessible spaces such as equipment rooms, ceiling space, under floor spaces, etc., shall be identified with all temperature pipe markers as manufactured by W.H. Brody Company, 431 West Rock Ave., New Haven, Connecticut or approved equal.

2. Pipe shall be marked as follows:

COLOR	SYSTEM
Green	Sanitary sewer
Blue	Domestic cold water
Yellow	Domestic hot water
Red	Fire protection
Yellow	Gas

PART III: EXECUTION

3-1 GENERAL:

A. Locate equipment requiring service and maintenance in fully accessible positions. furnish access doors for this purpose if required.

B. Runs and arrangement of piping shall be as shown, subject only to such changes and modifications as may be necessary to suit actual conditions at the building, to avoid interference or conflict with work of other sections. Install piping concealed in floor or in wall construction or excavations to prevent delay to other work and to allow ample time for necessary tests and approvals.

C. Carefully check installations against structural, architectural, and mechanical drawings and note where walls, ceilings, beams, and pipe shafts are furred or enclosed. Piping shall not be furred in or covered before testing, inspection and approval.

D. Hang horizontal piping runs from construction and above ceilings. Locate as closely as possible to structural members or bottom of slabs or beams to obtain maximum head room. If piping interferes with finished ceiling or wall surfaces, the Engineer shall be notified, and no work shall be installed until approved.

E. Make joints between dissimilar piping by dielectric unions or flanges.

F. Use reducing fittings wherever a change in pipe size occurs. The use of bushings will not be permitted.

3-2 INSTALLATION OF SANITARY SYSTEM:

A. Pitch cast iron pipe within the building, minimum of 1/8" per foot for piping 4" and larger and 1/4" per foot for pipe 3" and smaller, in the direction of flow. Make changes in direction of drainage lines with 45° wyes, long turn wyes, or sweep bends. Use long turn fittings wherever space conditions permit. Provide waterproofing around all lines penetrating through foundation walls and floor slabs.

B. Check and verify all inverts of lines at connection points prior to the installation of the various piping systems.

C. Install traps on fixtures and equipment requiring connection to the sanitary system. Traps shall be of same size as the pipe on which they occur. Provide clean outs for all traps. Vent traps as shown and as required by local codes.

D. Cleanouts: Provide at each change in direction and on a minimum of 75 foot centers at horizontal runs, or as stated in local code. Cleaning screws, deck plates, and other plugs shall be made up with graphite and oil only; use no grease or cement.

E. Pitch vent lines to allow for condensation drainage.

F. Where vent piping runs concealed in partitions, obtain exact dimensions and locations of partitions and use special care to ensure that lines are maintained in their proper locations and alignment.

3-3 INSTALLATION OF COLD WATER SYSTEM:

Install cold water system as shown. Piping shall traverse the building at the locations shown or as required to service fixtures requiring cold water and with the pipe sizes shown or specified. The service shall be valved at the point shown. Locate underground service a minimum of 3 feet below grade. Fit pipe connections to mechanical equipment with unions for ease of dismantling. Conceal cold water piping in finished areas.

3-4 INSTALLATION OF HOT WATER SYSTEM:

Begin the installation of the hot water piping system at the water heater and traverse the building at the locations shown or as required to service fixtures requiring hot water and with the pipe sizes indicated. Fit piping around the heater and equipment with sufficient number of unions to ensure easy dismantling for maintenance. Conceal hot water piping in finished areas.

3-5 HANGERS, ANCHORS, GUIDES:

A. Support piping to maintain required grading and pitching of lines to prevent vibration, and to secure piping in place. Arrange to provide for expansion and contraction.

B. The spacing of hangers shall not be greater than 10 feet on center for pipe larger than 1 inch; 8 feet for 1 inch pipe; 6 feet for pipe 3/4" and smaller. Same spacing shall apply to gas or other piping on roof.

C. support vertical lines at bases by an approved hanger placed in the horizontal line near the riser.

D. Do not hang piping from the ductwork or piping of other trades. A common trapeze, properly supported and pitched, may be used.

E. Make pipe sleeves watertight with 25 year siliconized sealant joints on both sides of foundation wall.

3-6 INSTALLATION OF PLUMBING FIXTURES:

A. Protect fixtures and equipment during construction. Replace if damaged.

B. Set fixtures level and square with relation to interior finish, floor, and and wall lines. Space toilet room fixtures equidistant and at the same height from floor as shown.

C. Cover metal fixture trimmings with non-corrosive grease or approved protective tape and maintain until construction work is complete. Upon completion, remove protection and labels; clean and polish fixtures and trimmings.

3-7 DISINFECTION OF WATER SYSTEM:

Disinfect all water piping and equipment upon completion of piping installation in accordance with the requirements of the AWWA and local water authority. Following disinfection, flush water from the system through its extremities. Continue flushing until samples show the quality is comparable with the public water supply and complies with requirements of the public health authority having jurisdiction.

3-8 TESTING OF PLUMBING PIPING SYSTEMS:

A. During the progress of the work and upon completion, tests shall be made as specified herein and as required by authorities having jurisdiction.

B. Tests shall be conducted as part of this work and shall include all necessary instruments, equipment, apparatus, and service as required to perform the tests with qualified personnel.

C. Tests shall be performed before piping of various systems have been covered or furred-in. For insulated piping systems testing shall be accomplished prior to the application of insulation.

D. Leaks, damage, or defects discovered or resulting from test shall be repaired or replaced to a like new condition. Leaking pipe joints, or defective pipe, shall be removed and replaced with acceptable materials. Test shall be repeated after repairs are completed and shall continue until such time as the entire test period expires without the discovery of any leaks.

E. Domestic Water

1. Pressure test at one and one half times the normal working pressure or 125 p.s.i.g. whichever is the greater, for 24 hours.

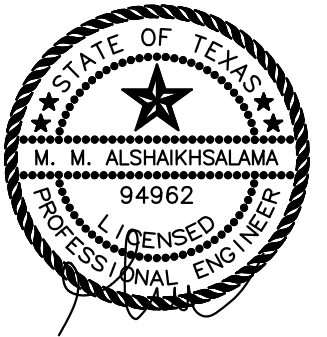
F. Sanitary soil, waste, vents

1. For pipe in ground, all joints shall be exposed and the piping system filled with water to a verifiable and visible level to 10' above the lowest portions of the system being tested.

2. Piping above grade and on multi-level buildings only one floor level shall be tested at a time. Each floor shall be tested from a level below the structure of the floor to a level of the top of the highest vent. The pipes for the level being tested shall be filled with water to a verifiable and visible uppermost level and be allowed to remain so for 24 hours. There shall be no perceptible lowering of the water level in the system being tested.

END OF SECTION

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