



**CITY OF CAMPBELL**  
Community Development Department

August 10, 2018

**NOTICE OF ADMINISTRATIVE PLANNED DEVELOPMENT PERMIT**

Notice is hereby given that the Planning Division of the Community Development Department of the City of Campbell has received an application for an Administrative Planned Development Permit for the following project proposal:

**File No.:** PLN2018-233  
**Applicant:** Jennette Holzworth  
**Project Address:** 471 E. Campbell Ave.  
**Property Owner:** KYW Properties, LLC  
**Zoning District:** P-D (Planned Development)  
**General Plan:** Central Commercial/East Campbell Avenue Master Plan  
**Project Description:** Establishment of a fitness studio in an existing commercial building.

This project will be decided by the Community Development Director and you have the opportunity to provide comment prior to the Director's decision. The ten-day comment period for this application begins on August 10, 2018 and ends on August 20, 2018. Any comments regarding this application must be submitted in writing (including email) to the Planning Division before 5:00 p.m. on **August 20, 2018**. The Director will then consider all comments submitted within this time period prior to a decision. No additional notice will be provided. Please contact the project planner in a timely manner to determine what decision was reached.

Decisions by the Community Development Director are final in 10 calendar days following the date of approval, unless an appeal is received in writing at the City of Campbell Community Development Department, 70 N. First Street, Campbell, prior to the end of the appeal period. A written appeal must be accompanied with the required \$750 appeal filing fee. Plans and architectural drawings may be viewed at the Planning Division office during normal business hours (8:00 AM – 5:00 PM) and on the City's 'Public Notices' web page (<http://www.cityofcampbell.com/501/Public-Notices>) under 'Administrative Decisions'. Questions or comments regarding this application may be addressed to Naz Pouya, Acting Assistant Planner, in the Community Development Department, at (408) 866-2144 or by email [nazp@cityofcampbell.com](mailto:nazp@cityofcampbell.com).

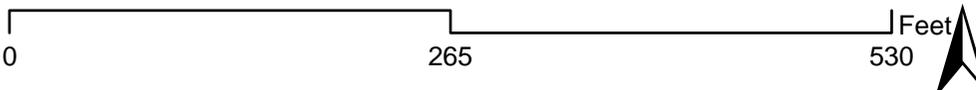
# Project Location Map



**Project Location:** 471 E. Campbell Ave

**Application Type:** Admin. P-D Permit for new fitness studio

**Planning File No.:** PLN2018-233



Community Development Department  
Planning Division



## GENERAL NOTES

- THE FOLLOWING NOTES SPECIFY THE GENERAL STANDARDS AND REQUIREMENTS FOR INSTALLATION AND MATERIALS OF WORK AS APPLICABLE IN THE SCOPE OF WORK. REFER TO CONSTRUCTION DOCUMENTS OF OTHER APPLICABLE DISCIPLINES, INCLUDING AND NOT LIMITING TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LANDSCAPE FOR SPECIFIC REQUIREMENTS AND STANDARDS FOR THE PROJECT.
- GENERAL NOTES ARE TYPICAL FOR ALL, THROUGHOUT THE ENTIRE PROJECT.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF BUILDING CODES AS ADOPTED BY AUTHORITIES HAVING JURISDICTION AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS. GENERAL NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ARCHITECT/ENGINEER OF ANY OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SCHEDULES, SPECIFICATIONS & NOTES, AND REQUESTING INTERPRETATION, CLARIFICATION AND/OR DIRECTIONS FROM ARCHITECT/ENGINEER PRIOR TO ORDERING MATERIAL AND COMMENCING WORK. INCLUDING BUT NOT LIMITED BY DETAILION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, UTILITIES SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDUMS, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT/ENGINEER AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON, NOR PROVIDE DIRECTION, AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING, AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT(S).
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF LOAD IMPOSED ON THE STRUCTURAL FRAMING AND STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT. THE CONTRACTOR SHALL ALSO RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FRAMING, BACKING, HANGERS, BLOCKING OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE FIRE MARSHAL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
- ALL DEBRIS AND REFUGE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN ROOM FINISHED CONDITION AT ALL TIMES.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTION OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID. THIS INCLUDES THAT THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY DEVIATION FROM THE PLANS BY THE PROFESSIONAL'S OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION IN WRITING AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- ANY REFERENCE TO THE WORDS "APPROVED" OR "APPROVAL" IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
- ANY WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DRAWINGS, WITHOUT THE PRIOR APPROVAL OF THE OWNER AND THE ARCHITECT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- WHEN PROPRIETARY ITEMS ARE SHOWN OR WHEN ITEMS ARE MANUFACTURED OFF SITE, MANUFACTURER'S DETAILS, EXECUTION, AND INSTALLATION INSTRUCTIONS SHALL BE FOLLOWED.
- ANY DETAILS, SYSTEMS, MATERIALS, I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, ETC., WHICH THE CONTRACTOR PROPOSES TO CHANGE, MUST FIRST BE REVIEWED BY THE ARCHITECT, ENGINEER, AND OWNER PRIOR TO THE PREPARATION OF SHOP DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN THE PROPOSAL ALL DATA AND A TECHNICAL COMPARISON PROVING THAT THE PROPOSED DETAIL, MATERIAL, AND SYSTEM

COMPLY WITH THE DESIGN CONCEPT AND CODE REQUIREMENTS.

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES DRAWINGS, AND DOCUMENTS PERTAINING TO THIS CONTRACT.
- PARTITIONS AND WALLS ARE DIMENSIONED TO THE UNFINISHED FACE OF THE MASONRY, CONCRETE, FACE OF STUD; TYPICAL THROUGHOUT THE ENTIRE PROJECT, UNLESS NOTED OTHERWISE.
- PARTITIONS AND WALLS SHOWN CENTERED ON COLUMN CENTER, COLUMN/GRID LINES, OR FLUSH FACE WITH STRUCTURAL COLUMNS ARE NOT DIMENSIONED.
- FOR DIMENSIONS & LOCATIONS OF ALL STRUCTURAL MEMBERS, REFER TO STRUCTURAL DRAWINGS, DISCREPANCIES ARE TO BE BROUGHT TO THE NOTICE OF THE ARCHITECT AND ENGINEER TO PROVIDE CLARIFICATION.
- ALL FLOOR LEVELS SHOWN ON ARCHITECTURAL BUILDING ELEVATIONS & SECTIONS ARE FINISH FLOOR LEVELS UNLESS NOTED OTHERWISE.
- DETAILS NOT SHOWN BUT SIMILAR IN CHARACTER TO THOSE DETAILED SHALL BE APPLIED, WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR THE ENGINEER BEFORE PROCEEDING WITH WORK.
- LEVELS SHOWN FOR TOP OF PARAPETS & WALLS ARE TO TOP OF STRUCTURE DO NOT ALLOW FOR FINISHES UNLESS OTHERWISE NOTED.
- DIMENSIONS DO NOT INCLUDE FINISHES UNLESS OTHERWISE INDICATED.

- CONTRACTOR SHALL PROVIDE THE NECESSARY BACKING FOR DIFFERENT ACCESSORIES AND FIXTURE FIXATIONS PER STRUCTURAL DRAWINGS AND WEIGHT LIMITS. MAJOR FIXTURES AND ACCESSORIES REQUIRING SPECIAL STRUCTURAL CALCULATIONS AND INPUT SHALL BE RAISED BY THE CONTRACTOR FOR THE ENGINEER'S CLARIFICATION.
- LEVELS OF EXTERNAL FLOOR FINISHES ARE SHOWN AS NOMINAL FINISHES ADJACENT TO BUILDING, AND SHALL BE LAID TO SLOPE AWAY FROM THE BUILDING OR AS INDICATED OTHERWISE.
- WHERE WATERPROOFING IS PUNCTURED BY FIXATIONS, OR OTHER ELEMENTS, CONTRACTOR SHALL ENSURE THEIR WATERPROOF SEAL IS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

## FIRE, LIFE AND SAFETY

- FIRE RATING INDICATION ON A WALL SHALL MEAN THAT THE ENTIRE LENGTH AND HEIGHT OF THE WALL TO THE UNDERSIDE OF THE ROOF STRUCTURE AND/OR EXTENDED PARAPETS SHALL BE FIRE RATED. ANY PENETRATIONS SHALL BE FIRE RATED/SEALED AS PER CODE REQUIREMENTS.
- ALL WALLS HAVING A FIRE RATED AND SMOKE STOP DOOR SHOULD BE SMOKE SEALED THROUGHOUT FULL LENGTH AND HEIGHT TO UNDERSIDE OF STRUCTURE. ALL PENETRATIONS THROUGH THESE WALLS ABOVE AND BELOW CEILING SHALL BE TREATED TO MAINTAIN THE FIRE RATING INTEGRITY IDENTIFIED BY THE DOOR FIRE RESISTANCE RATING.
- INDICATION OF "FIRE RATED ROOM" MEANS THAT ALL THE ROOM'S WALLS, DOORS, WINDOWS, OR ANY PENETRATIONS ABOVE OR BELOW THE FALSE CEILING (IF EXISTING) SHALL BE PROPERLY FIRE RATED AND SEALED.
- FIRE RATED ASSEMBLIES: WHERE THE WORK OF THIS SECTION IS A COMPONENT OF ASSEMBLIES INDICATED TO BE FIRE RATED, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE UNITS APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION.
- MEANS OF EGRESS ILLUMINATION: ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT THE WALKING SURFACE. LIGHTING SHALL BE POWERED BY PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE ILLUMINATION SHALL BE AUTOMATICALLY POWERED FROM AN EMERGENCY SYSTEM.
- PROVIDE EXIT SIGNS THROUGHOUT THE ENTIRE PROJECT. THE EXIT SIGNS ALONG THE PATH OF TRAVEL SHALL BE LOCATED SO THEY ARE READILY VISIBLE FROM ANY DIRECTION OF APPROACH. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. (GRAPHIC SYMBOLS SHALL BE USED THAT ARE NOT MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN, LOCATED EXIT SIGNS PER PLAN AND INSTALL ADDITIONAL SIGNS PER THE AUTHORITY HAVING JURISDICTION.
- EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. ELECTRONICALLY POWERED, SELF-LUMINOUS AND PHOTOLUMINESCENCE EXIT SIGNS SHALL COMPLY WITH UL 924 AND BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND CURRENT BUILDING CODE. WHEN THE FACE OF AN EXIT SIGN IS ILLUMINATED FROM AN EXTERNAL SOURCE, IT SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
- EXTINGUISHER LOCATIONS SHOWN ON PLANS ARE AN ESTIMATION. THE EXACT NUMBER, LOCATION AND TYPE OF EXTINGUISHER SHALL BE DETERMINED BY LOCAL FIRE AUTHORITY HAVING JURISDICTION. FIRE EXTINGUISHERS SHALL HAVE A MINIMUM RATING OF 2A:10-B. THEY SHALL BE INSTALLED AT 100 FEET INTERVALS. DO THAT THERE IS AN AVAILABLE EXTINGUISHER WITHIN 75 FEET OF TRAVEL FROM ANY POINT OF THE BUILDING AND/OR NO LESS THAN ONE EXTINGUISHER PER 3,000 SQUARE FEET.
- THE MAXIMUM FLAME SPREAD CLASSIFICATION OF FINISH MATERIAL USED ON INTERIOR WALLS AND CEILINGS SHALL NOT EXCEED THAT SET FORTH IN THE CURRENT BUILDING CODE, FLAME SPREAD PROVISIONS.
- PROVIDE FIRE STOPPING TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AT 10' 0" O.C., EACH WAY.
- ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ONLY THE MAIN EXIT DOOR MAY HAVE KEY OPERATED HARDWARE AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" IN BLOCK LETTERS A MINIMUM OF 1" HIGH ON CONTRASTING BACKGROUND. EFFORT TO OPERATE INTERIOR AND EXTERIOR DOORS IS NOT TO EXCEED 5 LBS. AND 15 LBS. FOR FIRE RATED DOORS.
- WITHIN A STRUCTURE MAINTAIN AISLES LEADING TO REQUIRED EXITS CONTINUOUSLY TO A PUBLIC WAY OR APPROVED REFUGE AREA.
- MAINTAIN A EXTERIOR WALKWAYS WITH A MINIMUM WIDTH OF 48" TO A PUBLIC WAY.
- PROVIDE FIRE DAMPERS WHERE DUCTWORK PENETRATES A FIRE RATED WALL OR CEILING ASSEMBLY.
- PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIAL TO THE PROJECT SITE, THE SITE WATER SYSTEM SHALL PASS ALL REQUIRED TESTS AND BE CONNECTED TO THE PUBLIC WATER SUPPLY SYSTEM. IN ADDITION, AN APPROVED ALL WEATHER ROAD SHALL BE IN PLACE TO PROVIDE ADEQUATE AND PERMANENT ACCESS FOR EMERGENCY VEHICLES.
- MAINTAIN GOOD HOUSEKEEPING AT ALL TIMES. ACCUMULATION OF COMBUSTIBLE WASTE MATERIALS IN THE BUILDING IS NOT ALLOWED.
- PROTECT ABOVE GROUND GAS METERS, REGULATORS, SWITCHGEAR AND PIPING EXPOSED TO VEHICULAR TRAFFIC IN AN APPROVED MANNER.
- ALL INSULATION MATERIAL, INCLUDING FACINGS, SUCH AS VAPOR BARRIERS OR BREATHER PAPERS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS SHALL HAVE A FLAME-SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT THE EXCEED 450.
- FIRE ALARM PLANS SHALL BE SUBMITTED, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION. PLANS SHALL BE DESIGNED BY A QUALIFIED PERSON, AND REVIEWED BY A REGISTERED FIRE PROTECTION ENGINEER AND/OR ELECTRICAL ENGINEER WITH REVIEW COMMENTS SUBMITTED. DEFERRED SUBMITTAL OF DESIGN DOCUMENTATION PRIOR TO INSTALLATION OF ANY COMPONENTS IS ACCEPTABLE. PLEASE PROVIDE PLANS IN ELECTRONIC FORM. PLEASE PROVIDE ACKNOWLEDGEMENT OF THESE REQUIREMENTS.
- OCCUPANT LOAD SIGNS SHALL BE POSTED IN ASSEMBLY AREAS, EVERY ROOM OR SPACE THAT IS ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD SIGN OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE APPROVED LEGIBLE PERMANENT DESIGN AND BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. PROVIDE ACKNOWLEDGEMENT OF THESE REQUIREMENTS.

## SUBSTITUTIONS

- SUBSTITUTION PROCEDURES
  - INSTRUCTIONS TO BIDDERS SPECIFY TIME RESTRICTIONS FOR SUBMITTING REQUESTS FOR SUBSTITUTIONS DURING THE BIDDING PERIOD. COMPLY WITH REQUIREMENTS SPECIFIED IN THIS SECTION.
  - DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS.
  - A REQUEST FOR SUBSTITUTION CONSTITUTES A REPRESENTATION THAT THE SUBMITTER:
    - HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF THE SPECIFIED PRODUCT.
    - WILL PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED PRODUCT.
    - WILL COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK THAT MAY BE REQUIRED FOR THE WORK TO BE COMPLETE WITH NO ADDITIONAL COST TO OWNER.
    - WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION THAT MAY SUBSEQUENTLY BECOME APPARENT.
  - SUBSTITUTION SUBMITTAL PROCEDURE:
    - SUBMIT THREE COPIES OF REQUEST FOR SUBSTITUTION FOR CONSIDERATION. LIMIT TO ONE REQUEST TO ONE PROPOSED SUBSTITUTION.
    - SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND CERTIFIED TEST RESULTS ATTESTING TO THE PROPOSED PRODUCT EQUIVALENCE. BURDEN OF PROOF IS ON PROPOSER.
    - THE ARCHITECT/ENGINEER WILL NOTIFY CONTRACTOR IN WRITING OF DECISION TO ACCEPT OR REJECT REQUEST.

## SAMPLES

- APPLY SPECIFIED FINISH TO SAMPLES APPLIED IN STEP FASHION SHOWING UNFINISHED SURFACE AND EACH APPLIED COATING.
- A SAMPLE IS A SEPARATED PART OF A PRODUCT OR A PRODUCT AND IS AN ILLUSTRATIVE OR TYPICAL EXAMPLE OF THAT PRODUCT.
- THE CONTRACTOR SHALL SUBMIT AT LEAST TWO (2) SAMPLES FOR THE FINISH PRODUCTS REQUIRED PER ARCHITECT AND/OR OWNER'S REQUEST. ONE (1) SAMPLE SHALL BE RETURNED TO THE CONTRACTOR AND THE REMAINING SAMPLE WILL BE AVAILABLE WITH THE ARCHITECT OR OWNER FOR REFERENCE AND RECORD.
- THE PURPOSE OF SAMPLES IS TO ESTABLISH AN ACCEPTABLE QUALITY OR QUALITY RANGE FOR THE PRODUCTS TO BE INCORPORATED INTO THE WORK.
- THE ARCHITECT/ENGINEER'S REVIEW IS FOR CONFORMITY TO THE DESIGN CONCEPT ONLY. THE ENGINEER'S REVIEW DOES NOT MEAN THE ARCHITECT/ENGINEER ACCEPTS RESPONSIBILITY FOR THE DETAIL DESIGN INHERENT WITHIN THE SAMPLES.

## PERMITS, AND INSPECTIONS

- CONTRACTOR TO OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- INSPECTIONS BY REGULATORY AUTHORITIES:
  - HAVE ACCEPTANCE INSPECTION REQUIRED BY LOCAL AUTHORITY PERFORMED BY ENFORCING AGENCY.
  - IN ADDITION TO INSPECTIONS AND TEST REQUIRED BY LOCAL AUTHORITY, PERFORM ALL APPLICABLE INSPECTIONS AND TEST CONTAINED IN PART 1 AND 1 OF ANSI A17.2.
  - SCHEDULE TESTS WITH AGENCIES AND ARCHITECT, OWNER'S REPRESENTATIVE, AND CONTRACTOR PRESENT.

## QUALITY ASSURANCE

- THE CONTRACTOR SHALL ENSURE THAT QUALITY ASSURANCE AND QUALITY CONTROL ACTIVITIES ARE MAINTAINED TO MEET THE OWNER'S GOALS AND FINAL PRODUCT EXPECTATIONS AND SATISFACTION. THE CONTRACTOR SHALL IMPLEMENT THE PROGRAM SO THAT THE WORK IS INSPECTED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL MANUFACTURERS REFERRED TO IN THE MATERIAL SELECTION ARE PROVIDED TO ESTABLISH A MINIMUM LEVEL OF QUALITY REQUIRED FOR THE PROJECT. CONTRACTOR TO PROVIDE THE SAME OR APPROVED EQUAL WHERE NOTED.
- DESIGN DRAWINGS INDICATE DESIRED, DESIGN INTENT AND SPECIFY THE MINIMUM DESIGN CRITERIA.
- FABRICATOR/INSTALLER QUALIFICATIONS DOCUMENTED EXPERIENCE IN FABRICATION AND INSTALLATION OF SYSTEMS AND MATERIALS INDICATED FOR THIS PROJECT, AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- UNIFORMITY: OBTAIN ALL MATERIALS AND PRODUCTS USED FOR THE PROJECT FROM THE SAME MANUFACTURER.
- INSTALL IN ACCORDANCE WITH THE CONTRACT DRAWINGS, THE MANUFACTURER'S RECOMMENDATIONS, THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND THE FOLLOWING.
  - STRUCTURAL FRAMING AND ACCESSORIES WHERE REQUIRED.
  - MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR MANUFACTURED PRODUCTS TO BE USED IN THE FABRICATION OF WORK.

## TESTING

- OWNER WILL SELECT AN INDEPENDENT TESTING AGENCY TO PERFORM THE INSPECTIONS, TESTS AND PREPARE TEST REPORTS WHERE REQUIRED AND REQUESTED.
- TESTING AGENCY: CONDUCT AND INTERPRET TESTS AND STATE IN WRITTEN REPORTS WHETHER TEST SPECIMENS COMPLY WITH REQUIREMENTS AND SPECIFICALLY STATE ANY DEVIATIONS THERE FROM.
- PERFORM TESTS AS REQUIRED BY LEGAL REQUIREMENTS, REGULATORY AGENCIES, AND OWNER.

## SHOP DRAWINGS

- THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER. THE CONTRACTOR REPRESENTS BY THIS REVIEW: THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CONDITIONS, PRODUCT REQUIREMENTS, CATALOGUE NUMBERS, AND SIMILAR DATA. THE CONTRACTOR HAS CHECKED AND COORDINATED EACH SHOP DRAWING WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CONFIRM THIS REVIEW OF EACH SHOP DRAWING BY STAMP, DATE, AND SIGNATURE OF THE PERSON RESPONSIBLE. THE ENGINEER WILL REJECT WITHOUT REVIEW, ANY AND ALL SHOP DRAWINGS NOT STAMPED AND SIGNED AND MAY REQUIRE THEM TO BE RESUBMITTED.
- AT THE TIME OF EACH SUBMISSION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATIONS IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, A GENERAL STATEMENT TO THE EFFECT THAT THERE ARE OR MAY BE DEVIATIONS WILL NOT BE REGARDED AS NOTIFICATION OF DEVIATIONS. CHANGES TO THE WORK SHALL NOT BE MADE THROUGH THE PROCESS OF REVIEWING SHOP DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER IN AN ORDERLY SEQUENCE AND SUFFICIENTLY IN ADVANCE TO PREVENT ANY DELAYS TO THE WORK OR TO THE WORK OF OTHER CONTRACTORS. UPON REQUEST OF THE CONTRACTOR OR THE ENGINEER, THEY JOINTLY SHALL PREPARE A SCHEDULE OF THE DATES FOR SUBMISSION AND RETURN OF SHOP DRAWINGS. ALLOW TIME FOR RE-SUBMISSIONS OF SHOP DRAWINGS, SHOP DRAWINGS, WHICH REQUIRE APPROVAL OF ANY LEGALLY CONSTITUTED AUTHORITY HAVING JURISDICTION SHALL BE SUBMITTED TO SUCH AUTHORITY BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE FORM SPECIFIED OR AS THE ENGINEER MAY DIRECT. THE ENGINEER WILL REVIEW AND RETURN SHOP DRAWINGS IN ACCORDANCE WITH THE SCHEDULE AGREED UPON, OR OTHERWISE WITH REASONABLE PROMPTNESS. THE ENGINEER'S REVIEW IS FOR CONFORMITY TO THE DESIGN CONCEPT AND FOR GENERAL ARRANGEMENT ONLY. THE ENGINEER'S REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS OR THE MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. UPON THE ENGINEER'S REQUEST, THE CONTRACTOR SHALL REVISE AND RESUBMIT SHOP DRAWINGS, WHICH THE ENGINEER REJECTS AS INCONSISTENT WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY REVISIONS TO THE RESUBMISSION OTHER THAN THOSE REQUESTED BY THE ENGINEER. A GENERAL STATEMENT TO THE EFFECT THAT THERE ARE OR MAY BE DEVIATIONS WILL NOT BE CONSIDERED AS NOTICE.
- WHEN TECHNICAL BROCHURES, CATALOGUE CUTS, SCHEDULES AND PERFORMANCE CHARTS ARE PROVIDED AS SHOP DRAWINGS, THE CONTRACTOR SHALL CROSS OUT ALL NON-RELEVANT DATA PRIOR TO PASSING THEM ON TO THE ENGINEER.
- IF THE ENGINEER REQUESTS DETAILS OF ITEMS ON SHOP DRAWINGS WHICH THE CONTRACTOR BELIEVES ARE SCOPE CHANGES OR REQUIRE AN EXTENSION TO CONTRACT TIME, THE CONTRACTOR SHALL NOTIFY THE EMPLOYER AND THE ENGINEER FORTHWITH AND RECEIVE ACCEPTANCE BY THE EMPLOYER BY WAY OF WRITTEN INSTRUCTION PRIOR TO PROCEEDING WITH FABRICATION.
- THE CONTRACTOR SHALL PROVIDE THE ADEQUATE COORDINATION OF MATERIALS, SYSTEM AND SERVICES AND SUBMIT COORDINATED SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW WHEN REQUIRED.
- SHOP DRAWINGS BY TRADE AS APPLICABLE TO THIS PROJECT:
  - SUBMIT LARGE SCALE, DIMENSIONED DRAWINGS SHOWING PROFILES, MATERIALS, MEMBER SIZES, DIMENSIONS AND HARDWARE.
  - INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF ALL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS. NO FABRICATION OR INSTALLATION IS TO BE DONE WITHOUT SHOP DRAWINGS REVIEW AND COMMENT.
  - SHOW REQUIRED FIELD MEASUREMENTS AND INTERFACE WITH WORK OF OTHER TRADES.

- SHOW SECTION PROFILES, TRIM, SIZES, AND MATERIAL THICKNESS/GAGE.
- SHOW CONNECTIONS TO ADJACENT CONSTRUCTION. FURNISH ISOMETRIC DRAWINGS FOR CONDITIONS TOO DIFFICULT TO ILLUSTRATE IN 2 DIMENSIONS.
- COORDINATE THE SHOP DRAWINGS WITH THE WORK OF OTHER TRADES THAT ARE PART OF OR WILL BE INCORPORATED INTO THE WORK OF THIS PROJECT. INDICATE WORK TO BE PERFORMED BY OTHER TRADES, INCLUDING ADJACENT AND ABUTTING MATERIALS TO WHICH THIS WORK IS TO BE SECURED.
- INDICATE ALLOWABLE STRUCTURAL DESIGN LOADING FOR SPECIFIC PRODUCT COMPONENTS TO MEET DESIGN CRITERIA AND/OR MINIMUM CODE REQUIREMENTS.
- INDICATE TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, ORIENTATION, AND LOCATION OF DIFFERENT PRODUCT COMPONENTS.
- PRODUCE SHOP DRAWINGS FOR ALL CUSTOM FABRICATED ITEMS.

## EXECUTION AND CLOSEOUT ITEMS

- PATCHING MATERIALS
  - NEW MATERIALS: AS SPECIFIED IN PRODUCT SECTIONS; MATCH EXISTING PRODUCTS AND WORK FOR PATCHING AND EXTENDING WORK.
  - TYPE AND QUALITY OF EXISTING PRODUCTS: DETERMINE BY INSPECTING AND TESTING PRODUCTS WHERE NEARLY IDENTICAL TO EXISTING WORK AS A STANDARD.
  - PRODUCT SUBSTITUTION: FOR ANY PROPOSED CHANGE IN MATERIALS, SUBMIT REQUEST FOR SUBSTITUTION DESCRIBED IN SECTION "SUBSTITUTIONS."
- EXAMINATION
  - VERIFY THAT EXISTING SITE CONDITIONS & SUBSTRATE SURFACES ARE ACCEPTABLE FOR SUBSEQUENT WORK. START OF WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS.
  - VERIFY THAT EXISTING SUBSTRATE IS CAPABLE OF STRUCTURAL SUPPORT OR ATTACHMENT OF NEW WORKING APPLIED OR ATTACHED.
  - EXAMINE AND VERIFY SPECIFIC CONDITIONS DESCRIBED IN INDIVIDUAL SPECIFICATION SECTIONS.
  - TAKE FIELD MEASUREMENTS BEFORE CONFIRMING PRODUCT ORDERS OR BEGINNING FABRICATION, TO MINIMIZE WASTE DUE TO OVER-ORDERING OR MIS-FABRICATION.
  - VERIFY THAT UTILITY SERVICES ARE AVAILABLE, OF THE CORRECT CHARACTERISTICS.
  - PRIOR TO CUTTING: EXAMINE EXISTING CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING.
  - AFTER UNCOVERING EXISTING WORK, ASSESS CONDITIONS AFFECTING PERFORMANCE OF WORK. BEGINNING OF CUTTING OR PATCHING MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- PREPARATION
  - CLEAN SUBSTRATE SURFACES PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE.
  - SEAL CRACKS OR OPENINGS OF SUBSTRATE PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE.
  - APPLY MANUFACTURER REQUIRED OR RECOMMENDED SUBSTRATE PRIMER, SEALER, OR CONDITIONER PRIOR TO APPLYING ANY NEW MATERIAL OR SUBSTANCE IN CONTACT OR BOND.
- GENERAL INSTALLATION REQUIREMENTS
  - INSTALL PRODUCTS AS SPECIFIED IN INDIVIDUAL SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, AND SO AS TO AVOID WASTE DUE TO NECESSITY FOR REPLACEMENT.
  - MAKE VERTICAL ELEMENTS PLUMB AND HORIZONTAL ELEMENTS LEVEL, UNLESS OTHERWISE INDICATED.
  - INSTALL EQUIPMENT AND FITTINGS PLUMB AND LEVEL, NEATLY ALIGNED WITH ADJACENT VERTICAL AND HORIZONTAL LINES, UNLESS OTHERWISE INDICATED.
  - MAKE CONSISTENT TEXTURE ON SURFACES, WITH SEAMLESS TRANSITIONS, UNLESS OTHERWISE INDICATED.
  - MAKE NEAT TRANSITIONS BETWEEN DIFFERENT SURFACES, MAINTAINING TEXTURE AND APPEARANCE.
- CUTTING AND PATCHING
  - WHENEVER POSSIBLE, EXECUTE THE WORK BY METHODS THAT AVOID CUTTING OR PATCHING.
  - PERFORM WHATEVER CUTTING AND PATCHING IS NECESSARY TO:
    - COMPLETE THE WORK.
    - FIT PRODUCTS TOGETHER TO INTEGRATE WITH OTHER WORK.
    - PROVIDE OPENINGS FOR PENETRATION OF MECHANICAL, ELECTRICAL, AND OTHER SERVICES.
    - MATCH WORK THAT HAS BEEN CUT TO ADJACENT WORK.
    - REPAIR AREAS ADJACENT TO CUTS TO REQUIRED CONDITION.
    - REPAIR NEW WORK DAMAGED BY SUBSEQUENT WORK.
    - REMOVE SAMPLES OF INSTALLED WORK FOR TESTING WHEN REQUESTED.
    - REMOVE AND REPLACE DEFECTIVE AND NON-CONFORMING WORK.
  - COMPLETE EXISTING WORK TO REMAIN.
  - PERFORM APPROPRIATE SURFACES TO RECEIVE PATCHING AND FINISHING. IN EXISTING WORK, MINIMIZE DAMAGE AND RESTORE TO ORIGINAL CONDITION.
  - EMPLOY ORIGINAL INSTALLER TO PERFORM CUTTING FOR WEATHER EXPOSED AND MOISTURE RESISTANT ELEMENTS, AND SIGHT EXPOSED SURFACES.
  - CUT RIGID MATERIALS USING MASONRY SAW OR CORE DRILL. PNEUMATIC TOOLS NOT ALLOWED WITHOUT OWNER APPROVAL.
  - RESTORE WORK WITH NEW PRODUCTS IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.
  - FIT WORK AIR TIGHT TO PIPES, SLEEVES, DUCTS, CONDUIT, AND OTHER PENETRATIONS THROUGH SURFACES.
  - H. AT PENETRATIONS OF FIRE RATED WALLS, PARTITIONS, CEILING, OR FLOOR CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE RATED MATERIAL IN ACCORDANCE WITH SECTION 07 84.00, TO FULL THICKNESS OF THE PENETRATED ELEMENT.
- PATCHING:
  - FINISH PATCHED SURFACES TO MATCH FINISH THAT EXISTED PRIOR TO PATCHING. ON CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT.
  - MATCH COLOR, TEXTURE, AND APPEARANCE.
  - REPAIR PATCHED SURFACES THAT ARE DAMAGED, LIFTED, DISCOLORED, OR SHOWING OTHER IMPERFECTIONS DUE TO PATCHING WORK, IF DEFECTS ARE DUE TO CONDITION OF SUBSTRATE, REPAIR SUBSTRATE PRIOR TO REPAIRING FINISH.
- PROGRESS CLEANING
  - MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION.
  - REMOVE DEBRIS AND RUBBISH FROM PIPE CHASES, PLENUMS, ATTICS, CRAWL SPACES, AND OTHER CLOSED OR REMOVE SPACES, PRIOR TO ENCLOSING THE SPACE.
  - BROOM AND VACUUM CLEAN INTERIOR AREAS PRIOR TO START OF SURFACE FINISHING, AND CONTINUE CLEANING TO ELIMINATE DUST.
  - COLLECT AND REMOVE WASTE MATERIALS, DEBRIS, AND TRASH/RUBBISH FROM SITE PERIODICALLY AND DISPOSE OFF-SITE; DO NOT BURN OR BURY.
- PROTECTIVE COVERINGS AND WORK
  - PROTECT INSTALLED WORK FROM DAMAGE BY CONSTRUCTION OPERATIONS.
  - PROVIDE SPECIAL PROTECTION WHERE SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS.
  - PROVIDE TEMPORARY AND REMOVABLE PROTECTION FOR INSTALLED PRODUCTS. CONTROL ACTIVITY IN IMMEDIATE WORK AREA TO PREVENT DAMAGE.
  - PROVIDE PROTECTIVE COVERINGS AT WALLS, PROJECTIONS, JAMBS, SILLS, AND SOFFITS OF OPENINGS.
  - PROTECT FINISHED FLOORS, STAIRS, AND OTHER SURFACES FROM TRAFFIC, DIRT, WEAR, DAMAGE, OR MOVEMENT OF HEAVY OBJECTS, BY PROTECTING WITH DURABLE SHEET MATERIALS.
  - PROHIBIT TRAFFIC OR STORAGE UPON WATERPROOFED OR ROOFED SURFACES. IF TRAFFIC OR ACTIVITY IS NECESSARY, OBTAIN RECOMMENDATIONS FOR PROTECTION FROM WATERPROOFING OR ROOFING MATERIAL MANUFACTURER.
  - REMOVE PROTECTIVE COVERINGS WHEN NO LONGER NEEDED; REUSE OR RECYCLE PLASTIC COVERINGS IF POSSIBLE.
- ADJUSTING
  - ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE SMOOTH AND UNHINDERED OPERATION.
- FINAL CLEANING
  - USE CLEANING MATERIALS THAT ARE NON-HAZARDOUS.
  - CLEAN INTERIOR AND EXTERIOR GLASS, SURFACES EXPOSED TO VIEW; REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES, POLISH TRANSPARENT AND GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES.
  - REMOVE ALL LABELS THAT ARE NOT PERMANENT, DO NOT PAINT OR OTHERWISE COVER FIRE TEST LABELS OR NAMEPLATES ON MECHANICAL AND ELECTRICAL EQUIPMENT.
  - CLEAN EQUIPMENT AND FIXTURES TO A SANITARY CONDITION WITH CLEANING MATERIALS APPROPRIATE TO THE SURFACE AND MATERIAL BEING CLEANED.
  - CLEAN FILTERS OF OPERATING EQUIPMENT.
  - CLEAN DEBRIS FROM ROOFS, GUTTERS, DOWNSPOUTS, AND DRAINAGE SYSTEMS.
  - CLEAN SITE: SWEEP PAVED AREAS, RAKE CLEAN LANDSCAPED SURFACES.
  - REMOVE WASTE, SURPLUS MATERIALS, TRASH/RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE; DISPOSE OF IN LEGAL MANNER; DO NOT BURN OR BURY.
- CLOSEOUT PROCEDURES
  - MAKE SUBMITTALS THAT ARE REQUIRED BY GOVERNING OR OTHER AUTHORITIES.
  - NOTIFY ARCHITECT/ENGINEER WHEN WORK IS CONSIDERED READY FOR SUBSTANTIAL COMPLETION.
  - SUBMIT WRITTEN CERTIFICATION THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED, WORK HAS BEEN INSPECTED, AND THAT WORK IS COMPLETE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND READY FOR ARCHITECT/ENGINEER'S REVIEW.

- CORRECT ITEMS OF WORK LISTED IN EXECUTED CERTIFICATES OF SUBSTANTIAL COMPLETION AND COMPLY WITH REQUIREMENTS FOR ACCESS TO OWNER-OCCUPIED AREAS.
- NOTIFY ARCHITECT/ENGINEER WHEN WORK IS CONSIDERED FINALLY COMPLETE.
- COMPLETE ITEMS OF WORK DETERMINED BY ARCHITECT/ENGINEER'S FINAL INSPECTION.

## DEMOLITION

- GENERAL PROCEDURES AND PROJECT CONDITIONS
  - COMPLY WITH APPLICABLE CODES AND REGULATIONS FOR DEMOLITION OPERATIONS AND SAFETY OF ADJACENT STRUCTURES AND THE PUBLIC.
  - OBTAIN REQUIRED PERMITS.
  - TAKE PRECAUTIONS TO PREVENT CATASTROPHIC OR UNCONTROLLED COLLAPSE OF STRUCTURES TO BE REMOVED; DO NOT ALLOW WORKER OR PUBLIC ACCESS WITHIN RANGE OF POTENTIAL COLLAPSE OF UNSTABLE STRUCTURES.
  - CONDUCT OPERATIONS TO MINIMIZE EFFECTS ON AND INTERFERENCE WITH ADJACENT STRUCTURES AND OCCUPANTS.
  - DO NOT CLOSE OR OBSTRUCT ROADWAYS OR SIDEWALKS WITHOUT PERMIT.
  - CONDUCT OPERATIONS TO MINIMIZE OBSTRUCTION OF PUBLIC AND PRIVATE ENTRANCES AND EXITS; DO NOT OBSTRUCT REQUIRED EXITS AT ANY TIME; PROTECT PERSONS USING ENTRANCES AND EXITS FROM REMOVAL OPERATIONS.
  - OBTAIN WRITTEN PERMISSION FROM OWNERS OF ADJACENT PROPERTIES WHEN DEMOLITION EQUIPMENT WILL TRAVERSE, INFRINGE UPON OR LIMIT ACCESS TO THEIR PROPERTY.
  - DO NOT BEGIN REMOVAL UNTIL RECEIPT OF NOTIFICATION TO PROCEED FROM OWNER.
  - PROTECT EXISTING STRUCTURES AND OTHER ELEMENTS THAT ARE NOT TO BE REMOVED.
    - PROVIDE BRACING AND SHORING.
    - PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES.
    - STOP WORK IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER.
- EXISTING UTILITIES
  - COORDINATE WORK WITH UTILITY COMPANIES; NOTIFY BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS; OBTAIN REQUIRED PERMITS.
  - PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE.
  - DO NOT DISRUPT PUBLIC UTILITIES WITHOUT PERMIT FROM AUTHORITY HAVING JURISDICTION.
  - DO NOT CLOSE, SHUT OFF, OR DISRUPT EXISTING LIFE SAFETY SYSTEMS THAT ARE IN USE WITHIN AT LEAST 7 DAYS PRIOR WRITTEN NOTIFICATION TO OWNER.
  - DO NOT CLOSE, SHUT OFF, OR DISRUPT EXISTING UTILITY BRANCHES OR TAKE-OFFS THAT ARE IN USE WITHOUT AT LEAST 3 DAYS PRIOR WRITTEN NOTIFICATION TO OWNER.
  - LOCATE AND MARK UTILITIES TO REMAIN; MARK USING HIGHLY VISIBLE TAGS OR FLAGS, WITH IDENTIFICATION OF UTILITY TYPE; PROTECT FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION, USING SUBSTANTIAL BARRICADES IF NECESSARY.
  - REMOVE EXPOSED PIPING, VALVES, METERS, EQUIPMENT, SUPPORTS, AND FOUNDATIONS OF DISCONNECTED AND ABANDONED UTILITIES.
- SELECTIVE DEMOLITION FOR ALTERATIONS
  - DRAWINGS SHOWING EXISTING CONSTRUCTION AND UTILITIES ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AS-BUILT DOCUMENTS ONLY.
    - VERIFY THAT CONSTRUCTION AND UTILITY ARRANGEMENTS ARE AS SHOWN.
    - REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
    - BEGINNING OF DEMOLITION WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS THAT WOULD BE APPARENT UPON EXAMINATION PRIOR TO STARTING DEMOLITION.
  - REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
    - REMOVE ITEMS INDICATED ON DRAWINGS.
  - SERVICES INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TELECOMMUNICATIONS; REMOVE EXISTING SYSTEMS AND EQUIPMENT AS INDICATED.
    - MAINTAIN EXISTING ACTIVE SYSTEMS THAT ARE TO REMAIN IN OPERATION; MAINTAIN ACCESS TO EQUIPMENT AND OPERATIONAL COMPONENTS.
    - WHERE EXISTING ACTIVE SYSTEMS SERVE OCCUPIED FACILITIES BUT ARE TO BE REPLACED WITH NEW SERVICES, MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR SERVICE.
    - VERIFY THAT ABANDONED SERVICES SERVE ONLY ABANDONED FACILITIES BEFORE REMOVAL.
    - REMOVE ABANDONED PIPE, DUCTS, CONDUITS, AND EQUIPMENT, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS; REMOVE BACK TO SOURCE OF SUPPLY WHERE POSSIBLE, OTHERWISE CAP STUD AND TAG WITH IDENTIFICATION.
  - PREVENT MOVEMENT OF STRUCTURE; PROVIDE SHORING AND BRACING IF NECESSARY.
    - PERFORM CUTTING TO ACCOMPLISH REMOVALS NEATLY AND AS SPECIFIED FOR CUTTING NEW WORK.
    - REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING REMOVAL WORK.
    - PATCH AS SPECIFIED FOR PATCHING NEW WORK.
  - DEBRIS AND WASTE REMOVAL
    - REMOVE DEBRIS, JUNK, AND TRASH FROM SITE.
    - LEAVE SITE IN CLEAN CONDITION, READY FOR SUBSEQUENT WORK.
    - CLEAN UP SPILLAGE AND WIND-BLOWN DEBRIS FROM PUBLIC AND PRIVATE LANDS.

## COLD-FORMED STEEL FRAMING

STEEL FRAMING COMPONENTS:

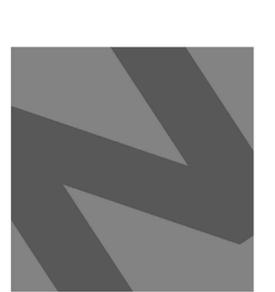
- RECYCLED CONTENT OF STEEL PRODUCTS: POSTCONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRECONSUMER RECYCLED CONTENT NOT LESS THAN 25 PERCENT.
- STUDS: CHANNEL-SHAPED WITH LIPPED FLANGES, PUNCHED WEB, SIZE (DEPTH) AS SHOWN ON DRAWINGS, THICKNESS AND GRADE REQUIRED BY STRUCTURAL DESIGN CALCULATIONS.
- STUDS: SAME DESIGNATION, COATING, AND THICKNESS AS STUDS EXCEPT AS OTHERWISE NOTED. CHANNEL-SHAPED, SOLID WEB, UN-PUNCHED, DEPTH COMPATIBLE WITH STUDS, SIZE, THICKNESS AND GRADE REQUIRED BY STRUCTURAL DESIGN CALCULATIONS.
- ACCESSORIES: MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES FOR APPLICATIONS INDICATED, AS NEEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.
  - COLD-ROLLED CHANNEL: 1-1/2 BY 1/2 INCH BY 54 MIL THICK.
  - BRIDGING CLIP: BRIDGE CLIP BY THE STEEL NETWORK, OR EQUAL, PROVIDE ATTACHMENT THROUGH STUD PUNCH-OUT CLAMPING ONTO STUD WEB AND WRAPPING AROUND BRIDGING CHANNEL. PROVIDE HOLES FOR SCREW ATTACHMENT TO STUD WEB AND CHANNEL.
  - FLANGE STRIPS: SAME THICKNESS REQUIRED BY STRUCTURAL DESIGN CALCULATIONS. RIGID ATTACHMENT TO STUD FLANGE.
  - SOLID BRIDGING: CHANNEL-SHAPED BRIDGING WITH LIPPED FLANGES AND INTEGRAL FORMED CLIPS, BRIDGE-BAR BY THE STEEL NETWORK, OR EQUAL, SCREW ATTACHMENT TO STUD, 33-MIL MINIMUM THICKNESS, SIZE AS REQUIRED BY STRUCTURAL DESIGN CALCULATIONS.
- PROVIDE ENGINEERING CALCULATIONS FOR COLD FORMED STEEL ASSEMBLIES THAT ARE DESIGN/BUILD, IF REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. SUBMIT SHOP DRAWINGS AND CALCULATIONS, OBTAIN APPROVAL, AND PAY FEES INCURRED THEREBY BEFORE START OF INSTALLATION.
- STRUCTURAL DRAWINGS ONLY INDICATE THE LOAD BEARING METAL JOISTS, AND LOAD BEARING METAL STUD WALLS AND EXTERIOR FACADE WALLS. ALL OTHER METAL STUD FRAMING/ASSEMBLIES NOT SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS SHALL BE DESIGN/BUILD AND THE CONTRACTOR IS RESPONSIBLE FOR THE ENGINEERING TO WITHSTAND LOADS PRESCRIBED BY CODE, INDICATED, OR SPECIFIED.
- LIMIT METAL FRAMING SYSTEMS DEFLECTION UNDER LOAD TO THE FOLLOWING (THE MOST RESTRICTIVE CONDITION APPLIES WHEN ASSEMBLIES SUPPORTS MORE THAN ONE MATERIAL):
  - NON-BEARING WALLS:
    - 1/240 WHERE SUPPORTING GYPSUM BOARD ONLY.
    - 1/360 WHERE SUPPORTING PLASTER OR CERAMIC TILE.
  - CEILING JOISTS: VERTICAL DEFLECTION OF 1/360 OF THE SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF SPANS.

MATERIALS:

- GENERAL: ASTM A 1003, STRUCTURAL GRADE, TYPE H, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ASTM 1011 GRADE 50 OR ASTM A653 GRADE 50 FOR 54-MIL AND THICKER MATERIALS UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ASTM A653 GRADE 1011 GRADE 33 OR ASTM A653 GRADE 33 FOR 43-MIL AND THINNER MATERIALS UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ASTM A924 FOR GALVANIZING. FINISH: GENERAL: METAL FRAMING SHALL BE GALVANIZED WITH A G90 ZINC COATING.

FASTENERS:

- SCREWS: CORROSION-RESISTANT COATED, SELF-DRILLING, PAN OR HEX WASHER HEAD COMPLYING WITH ASTM C 1513.
- ANCHOR BOLTS AND STUDS: ASTM A 307, GRADE A, CARBON STEEL, WITH HEX-HEAD



**NATIONAL**  
ENGINEERING &

CARBON STEEL NUTS AND FLAT STEEL WASHERS. HOT-DIP ZINC COATED IN ACCORDANCE WITH ASTM A 153.

3. WELDING ELECTRODES: COMPLY WITH AWS CODE AND AS RECOMMENDED BY STUD MANUFACTURER.

#### GALVANIZING REPAIR:

- WHERE GALVANIZED SURFACES ARE DAMAGED, PREPARE SURFACES AND REPAIR THEM IN COMPLIANCE WITH PROCEDURES SPECIFIED IN ASTM A 780 USING ZINC-RICH PAINT.
  - GALVANIZING REPAIR (ZINC-RICH) PAINT: INEME-ZINC 90-97 BY INEMEC CO., CATHA-COAT 303H DEVOLVE COATINGS OR AMERCOAT 68HS BY PPG, ZRC BY ZRC WORLDWIDE OR EQUAL.

#### INSTALLATION:

- GENERAL:
  - INSTALL METAL FRAMING SYSTEMS IN COMPLIANCE WITH THEIR MANUFACTURER'S INSTRUCTIONS, ASTM C 1007, AND THESE GENERAL NOTES
  - FIELD CUTTING IS ALLOWED WITH SAWS OR SHEARS, BUT NOT TORCH CUTTING. RESTORE DAMAGED ZINC COATINGS AS PER THESE GENERAL NOTES.
  - REINFORCE HOLES CUT THROUGH THE STUDS.
- RUNNER TRACKS:
  - INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS.
  - ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS.
- STUDS:
  - SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES, AS ACCEPTED ON SHOP DRAWINGS.
  - INSTALL MEMBERS IN SINGLE PIECE LENGTHS EXCEPT THAT TRACKS MAY BE SPLICED, BUT WELDED, OR EACH LENGTH ANCHORED TO A COMMON BUILDING FRAME ELEMENT.
  - SET STUDS PLUMB WITHIN THE TOLERANCE SPECIFIED, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR OUT-OF-PLUMB WALLS OR WARPED SURFACES AND SIMILAR REQUIREMENTS.
  - WOOD STUD SYSTEM ABUTS STRUCTURAL COLUMNS OR WALLS, ANCHOR ENDS OF STIFFENERS TO SUPPORTING STRUCTURE.
  - WHERE COMPONENTS ARE BOXED TO FORM CLOSED TUBES, FILL THESE AREAS WITH INSULATION THAT OTHERWISE REMAIN UNINSULATED AFTER ASSEMBLY OF THE FRAMING MEMBERS.
  - INSTALL INSULATION IN FRAMING SPACES OF INSULATED ASSEMBLIES MADE INACCESSIBLE AFTER ERECTION.
- SUPPLEMENTARY FRAMING:
  - INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALLS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICES, CASEWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL.
  - COMPLY WITH STUD MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.
- FRAME WALL OPENINGS LARGER THAN 2 FEET SQUARE WITH DOUBLE STUD AT EACH JAMB OF FRAME EXCEPT WHERE MORE THAN TWO FEET ARE INDICATED.
  - INSTALL RUNNER TRACKS AND JACK STUDS ABOVE AND BELOW WALL OPENINGS.
  - ANCHOR TRACKS TO JAMB STUDS WITH SHOES OR BY WELDING, AND SPACE JACK STUDS SAME AS FULL-HEIGHT STUDS OF WALL.
  - SECURE STUD SYSTEM WALL OPENING FRAME IN MANNER INDICATED.
- FRAME BOTH SIDES OF EXPANDED CONTROL JOINTS WITH SEPARATE STUDS; DO NOT BRIDGE THE JOINT WITH SYSTEM COMPONENTS OR ACCESSORIES.
- INSTALL HORIZONTAL STIFFENERS IN STUD SYSTEM, SPACED (VERTICAL DISTANCE) AT NOT MORE THAN 54 INCHES O.C.
- WELDING: PERFORM WELDING IN COMPLIANCE WITH AWS RECOMMENDATIONS BY WELDERS QUALIFIED TO WELD LIGHT GAGE METAL. PROVIDE STITCH PLATES WHERE STUDS ARE BURNED THROUGH.
- ERECTION TOLERANCES:
  - BOLT OR WELD WALL PANELS (AT BOTH HORIZONTAL AND VERTICAL JUNCTURES) TO PRODUCE FLUSH, EVEN, TRUE-TO-LINE JOINTS.
  - SET EXTERIOR EDGE OF STUDS WITHIN 1/8 INCH IN OR OUT OF THE THEORETICAL PLANE OF THE WALL.
  - MAXIMUM VARIATION IN PLANE AND TRUE POSITION SHALL NOT EXCEED L/960 FROM PLUMB AND LEVEL.

#### JOIST INSTALLATION:

- INSTALL PERIMETER JOIST TRACK SIZED TO MATCH JOISTS, ALIGN AND SECURELY ANCHOR OR FASTEN TRACK TO SUPPORTING STRUCTURE AT CORNERS, ENDS, AND SPACING INDICATED OR AS RECOMMENDED BY MANUFACTURER.
- INSTALL JOISTS BEARING ON SUPPORTING FRAMING, LEVEL, STRAIGHT, AND PLUMB, ADJUST TO FINAL POSITION, BRACE, AND REINFORCE, ALL TRACKS SHOULD BE UN-PUNCHED WITH THICKNESS TO MATCH JOIST THICKNESS AS A MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS, CONNECTION OF JOISTS TO TRACK SHOULD BE USING CLIPS UNLESS SHOWN OTHERWISE, WHERE CLIP IS NOT REQUIRED PER STRUCTURAL DESIGN, FASTEN JOISTS TO BOTH FLANGES OF JOIST TRACK, PROVIDE COMPLETE BEARING OF JOISTS ON TRACK.
- INSTALL JOISTS OVER SUPPORTING FRAMING WITH MINIMUM END BEARING OF 1-1/2 INCHES.
- REINFORCE ENDS OF JOISTS WITH WEB STIFFENERS, END CLIPS, JOIST HANGERS, STEEL CLIP ANGLES, STEEL-STEEL SECTIONS, OR AS OTHERWISE RECOMMENDED BY MANUFACTURER.
- SPACE JOISTS NOT MORE THAN TWO INCHES FROM ABUTTING JOISTS.
- FRAME OPENINGS WITH BUILT-UP JOIST HEADERS CONSISTING OF JOIST AND JOIST TRACK, NESTING JOISTS, OR ANOTHER COMBINATION OF CONNECTED JOISTS WHERE INDICATED.
- ALIGN JOISTS OVER STUDS, WHERE JOISTS CANNOT BE ALIGNED, CONTINUOUSLY REINFORCE TRACK TO TRANSFER LOADS.

#### TOUCH UP

- SAND OR GRIND DAMAGED ZINC COATING TO BRIGHT METAL AND APPLY ZINC-PAINT, TO A MINIMUM DFT OF 2 MILS, OVERLAPPING UNDAAGED AREA AT LEAST 2 INCHES, COMPLY WITH ASTM A 780.

#### ROUGH CARPENTRY

ROUGH CARPENTRY INCLUDES THE REQUIREMENTS OF THE FOLLOWING:

#### MATERIALS:

- FRAMING LUMBER: UNLESS OTHERWISE INDICATED, PROVIDE S4S, GRADE-MARKED DOUGLAS FIR/LARCH, AND GRADED ACCORDING TO WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) RULES, OF THE SIZES AND GRADES INDICATED.
  - SIZES: SIZES INDICATED ARE NOMINAL. ACTUAL SIZES SHALL CONFORM TO AMERICAN LUMBER STANDARD COMMITTEE (ALSC) PUBLICATION DOC PS 20.
  - GRADING: PROVIDE EACH PIECE OF LUMBER FACTORY-MARKED WITH GRADE STAMP OR INSPECTION AGENCY EVIDENCING COMPLIANCE WITH GRADING RULE REQUIREMENTS: GRADING AGENCY, GRADE, SPECIES, MOISTURE CONTENT AT TIME OF SURFACING, AND MILL.
    - FOR LUMBER THAT WILL REMAIN EXPOSED, FURNISH PILES WITH GRADE STAMP APPLIED TO ENDS OR BACK OF EACH PIECE, OR OMIT GRADE STAMP ENTIRELY AND PROVIDE CERTIFICATES OF GRADE COMPLIANCE ISSUED BY INSPECTION AGENCY.
  - SEASON LUMBER UP TO 2 INCHES THICK TO A MOISTURE CONTENT OF 19 PERCENT OR LESS AND STAMP "S-DRY". LUMBER GREATER THAN 2 INCHES THICK MAY BE SHIPPED UNSEASONED AND STAMPED "S-GREEN".
- PLYWOOD: UNLESS OTHERWISE INDICATED, PROVIDE GRADE-STAMPED DOUGLAS FIR PLYWOOD, OF THE SIZES AND GRADES INDICATED, COMPLYING WITH AMERICAN PLYWOOD ASSOCIATION (APA) PUBLICATION US PRODUCT STANDARD PS 1, OSB FOR EXTERIOR SHEATHING AND COVERED FLOORS.

#### ACCESSORIES:

- METAL FRAMING ACCESSORIES: PROVIDE STANDARD GALVANIZED OR CADMIUM-PLATED STEEL JOIST HANGERS, FRAMING ANCHORS, FASTENERS AND OTHER SUCH CONNECTION DEVICES INDICATED THAT ARE ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. USE OFFSET AND SKEWED HANGERS, AS REQUIRED.
- BUILDERS' ROUGH HARDWARE: USE FASTENERS TO ATTACH PRESSURE-TREATED WOOD THAT WILL NOT CORRODE DUE TO TREATMENT MATERIALS USED IN THE MANUFACTURE, PRESENT AT TIME OF USE OR WHEN IN THE PRESENCE OF MOISTURE. USE HOT-DIP GALVANIZED FASTENERS COMPLYING WITH ASTM A 153, OR STAINLESS STEEL FASTENERS, WHERE CARPENTRY WILL REMAIN EXPOSED TO THE WEATHER AND WHERE USED IN ROOFING ASSEMBLIES.
  - NAILS AND STAPLES:
    - SIZE AND TYPE COMPLYING WITH THE AUTHORITIES HAVING JURISDICTION, UNLESS OTHERWISE INDICATED. USE ANNULAR RING OR SCREW NAILS FOR FLOOR SHEATHING.
    - NAILS TO BE USED WITH FRAMING ACCESSORIES SHALL BE THOSE FURNISHED BY THE MANUFACTURER WITH THE FRAMING ACCESSORIES.
  - BOLTS, WASHERS, LAG BOLTS AND WOOD SCREWS:
    - GALVANIZED OR CADMIUM-PLATED STEEL OF STANDARD MANUFACTURE.

- ANCHOR BOLTS: ASTM A 307, NON-HEADED TYPE.
- ADHESIVE: BASIS OF DESIGN IS FOR PRODUCTS.
  - CONSTRUCTION ADHESIVE: TITEBOND PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE.
  - SUBFLOOR ADHESIVE: TITEBOND SOLVENT-FREE SUBFLOOR ADHESIVE.
- BUILDING PAPER: RHOSIN-BOND BUILDING PAPER 0.010-INCH THICK, OR 15-POUND UNSATURATED FELT.

#### PRESERVATIVE TREATED WOOD:

- PRESERVATIVE TREATMENT BY PRESSURE PROCESS FOR ABOVE GROUND USE:
  - COMPLY WITH AWP A U1 AND T1 STANDARD FOR ALL TIMBER PRODUCTS AND COMMODITY STANDARDS FOR WATERBORNE PRESERVATIVES.
  - RETENTION: 0.25 POUNDS PER CUBIC FOOT FOR LUMBER, TIMBER, AND PLYWOOD ABOVE GROUND USE AND NOT IN CONTACT WITH THE GROUND, AND CONTINUOUSLY PROTECTED FROM LIQUID WATER.
  - KILN DRY AFTER TREATMENT TO 19 PERCENT MAXIMUM MOISTURE CONTENT.
  - APPLICATION: TREAT WOOD IN THE FOLLOWING LOCATIONS:
    - WOOD CANTS, NAILERS, CURBS, EQUIPMENT SUPPORT BASES, BLOCKING, STRIPPING, AND SIMILAR MEMBERS IN CONTACT WITH ROOFING AND METAL FLASHING, VAPOR BARRIERS OR WATERPROOFING.
    - WOOD SILLS, SLEEPERS, BLOCKING, FURRING, STRIPPING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH CONCRETE OR MASONRY.
    - WOOD FLOOR JOISTS THAT ARE INSTALLED OVER CONCRETE SLABS DIRECTLY IN CONTACT WITH EARTH.
    - WOOD WITHIN 18 INCHES OF GRADE.
    - DECKING, FENCE BOARDS AND OTHER WOOD EXPOSED TO WEATHER.
- TREATMENT OF WOOD NAILERS USED IN CONJUNCTION WITH BUILT-UP ROOFING SHALL BE COMPATIBLE WITH THE ROOFING BITUMEN; OIL-BASED PRESERVATIVES ARE NOT ACCEPTABLE.

#### FIRE-RETARDANT-TREATED MATERIALS:

- GENERAL: WHERE FIRE-RETARDANT-TREATED MATERIALS ARE INDICATED, USE MATERIALS COMPLYING WITH REQUIREMENTS IN THIS ARTICLE, THAT ARE ACCEPTABLE TO BUILDING DEPARTMENT, AND WITH FIRE-TEST-RESPONSE CHARACTERISTICS SPECIFIED AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER TEST METHOD INDICATED BY A QUALIFIED TESTING AGENCY.
- FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS: PRODUCTS WITH A FLAME SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E 84, AND WITH A NOT END EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WITH THE TEST IS EXTENDED AN ADDITIONAL 20 MINUTES, AND WITH THE FLAME FRONT NOT EXTENDING MORE THAN 10.5 FT. BEYOND THE CENTERLINE OF THE BURNERS AT ANY TIME DURING THE TEST.
  - USE TREATMENT THAT DOES NOT PROMOTE CORROSION OF METAL FASTENERS.
  - EXTERIOR TYPE: TREATED MATERIALS SHALL COMPLY WITH REQUIREMENTS SPECIFIED ABOVE FOR FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS AFTER BEING SUBJECTED TO ACCELERATED WEATHERING ACCORDING TO ASTM D 2898, USE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
- INTERIOR TYPE: TREATED MATERIALS SHALL HAVE A MOISTURE CONTENT OF 28 PERCENT OR LESS WHEN TESTED ACCORDING TO ASTM D 3201 AT 92 PERCENT RELATIVE HUMIDITY, USE WHERE EXTERIOR TYPE IS NOT INDICATED.
- DESIGN VALUE ADJUSTMENT FACTORS:
  - TREATED LUMBER SHALL BE TESTED ACCORDING ASTM D5664 AND DESIGN VALUE ADJUSTMENT FACTORS SHALL BE CALCULATED ACCORDING TO ASTM D 6841.
  - FOR ENCLOSED ROOF FRAMING, FRAMING IN ATTIC SPACE, AND WHERE HIGH TEMPERATURE FIRE-RETARDANT TREATMENT IS INDICATED, PROVIDE MATERIAL WITH ADJUSTMENT FACTORS OF NOT LESS THAN 0.85 MODULUS OF ELASTICITY AND 0.75 FOR EXTREME FIBER IN BENDING FOR PROJECT'S CLIMATOLOGICAL ZONE.
- KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, KILN-DRY PLYWOOD AFTER TREATMENT TO MAXIMUM MOISTURE CONTENT OF 15 PERCENT.
- IDENTIFY FIRE-RETARDANT-TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF QUALIFIED TESTING AGENCY.
  - FOR EXPOSED LUMBER INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, MARK END OR BACK OF EACH PIECE
  - FOR EXPOSED ITEMS INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, USE CHEMICAL FORMULATIONS THAT DO NOT BLEED THROUGH, CONTAIN COLORANTS, OR OTHERWISE ADVERSELY AFFECT FINISHES.
- APPLICATION: TREAT ALL ROUGH CARPENTRY AS INDICATED ON ARCHITECTURAL DRAWINGS.

#### INSTALLATION:

- NAILING:
    - FASTEN FRAMING ANCHORS AND STEEL BRIDGING WITH GALVANIZED SPECIAL NAILS FURNISHED WITH HARDWARE IN EVERY NAIL HOLE, EXCEPT WHERE NOTED TO BE WELDED TO STRUCTURAL STEEL SUPPORTS IN WHICH CASE COMPLY WITH AWS REQUIREMENTS.
    - WHERE POSSIBLE, NAILED JOINTS SHALL BE ASSEMBLED SUCH THAT LOAD IS ACTING AT RIGHT ANGLE TO THE NAIL (SHEAR).
      - WHERE RIGHT ANGLE IS IMPOSSIBLE, TOE-NAILING AT AN ANGLE APPROXIMATELY 30DEGREE TO THE WOOD GRAIN IS AN ACCEPTABLE METHOD OF FASTENING WOOD MEMBERS TOGETHER.
    - PENETRATED NAIL POINTS ARE NOT ALLOWED IN EXPOSED CONSTRUCTION.
  - SCREW FASTENERS: INSTALL WOOD SCREWS AND LAG BOLTS WITH COMPLETE PENETRATION UP TO HEAD, BORE LEAD HOLES APPROXIMATELY 3/4-DIAMETER AND SAME DEPTH AS SHANK, CONTINUE HOLES TO A DEPTH EQUAL TO LENGTH OF THE SCREW BUT WITH DIAMETER APPROXIMATELY 3/4-THIRD ROD.
  - DRILL HOLES IN PIECES WHERE SPLITTING MAY OCCUR.
  - REMOVE SPLIT LUMBER AND REPLACE WITH NEW MEMBERS.
  - BOLTED CONNECTIONS:
    - MAKE BOLT HOLES IN WOOD THE SAME DIAMETER AS THE BOLT. AFTER TIGHTENING, NICK BOLT THREADS TO PREVENT NUT LOOSENING.
  - PROVIDE BOLTS AND LAG SCREWS WITH WASHERS UNDER HEADS AND NUTS THAT BEAR ON WOOD.
  - WHERE A FINISH MATERIAL WILL BE INSTALLED OVER THE BOLT, RECESS THE BOLT HEAD OR THE NUT SO THAT THEY ARE RECESSED OR FLUSH WITH THE FACE OF THE MEMBER BEING BOLTED.
  - TIGHTEN BOLTS AND RE-TIGHTEN SHORTLY BEFORE BEING COVERED.
- TREAT FIELD CUTS AND PENETRATION IN PRESSURE-TREATED LUMBER IN COMPLIANCE WITH AWP A M4.

#### FRAMING MEMBERS:

- ERECT FRAMING NEATLY AND SUBSTANTIALLY TO BEST TRADE STANDARDS, INCLUDING PREPARATORY WORK FOR SUBSEQUENT TRADES AND CONDITIONS NOT ACTUALLY DETAILED.
- DO NOT CUT OR NOTCH STRUCTURAL MEMBERS, EXCEPT AS INDICATED OR DIRECTED BY THE ARCHITECT.
  - SPLICES ARE PERMITTED IN STRUCTURAL MEMBERS.
  - REINFORCE INTERRUPTED MEMBERS AS DETAILED.
- ON FRAMING AND FURRING MEMBERS TO RECEIVE A FINISHED WALL OR CEILING, ALIGN THE FINISH FRAMING SO THAT FINISH SURFACE WILL NOT VARY NOT MORE THAN 1/8-INCH FROM A THEORETICAL PLANE OR SURFACES OF THE ROOM OR SPACE, UNLESS MORE STRINGENT TOLERANCE IS SPECIFIED. MAKE CORNERS SQUARE.
- INSTALL JOISTS, LINTELS, BEAMS AND RAFTERS WITH CROWN UP, UNLESS OTHERWISE NOTED WITH CUT MEMBERS MAKING STRUCTURAL CONTACT WITH BEARINGS OR EACH OTHER FOR FULL BEARING.
  - ANCHOR SILLS WITH FASTENERS OF THE SIZE AND SPACING SHOWN.
  - PROVIDE 2 FASTENERS PER PIECE MINIMUM.
  - INSTALL SILL PLATES ON CONTINUOUS LAYER OF SILL SEALER.
  - BED SILL ON CEMENT/SAND DRY-PACK (1:3 MIX) FOR FULL BEARING WHERE THE FLOOR IS IRREGULAR.
- EXTEND WALL AND PARTITION STUDS AND MULLIONS CONTINUOUSLY FROM SILL TO PLATE, UNLESS OTHERWISE INDICATED. PROVIDE DOUBLE PLATES UNLESS A LINTEL REPLACES THE LOWER MEMBER. STAGGER PLATE JOINTS AT LEAST 4 FEET.
  - WHERE 2 OR MORE STUDS ARE CUT, PROVIDE HEADER BEAMS OVER THE OPENING.
  - IN STUD WALLS AND PARTITIONS, EXTEND AT LEAST ONE STUD FROM SILL TO PLATE ON EACH SIDE OF INTERIOR OPENINGS AND 2 STUDS ON EACH SIDE OF EXTERIOR OPENINGS. IN ADDITION, PLACE ONE STUD TRIMMER TO SUPPORT EACH END OF LINTELS OVER OPENINGS.
- FRAME WALLS AND PARTITIONS AT CORNERS AND INTERSECTIONS SO THAT WALL MATERIAL CANNOT EXTEND FROM ONE ROOM TO ANOTHER.
- CUT LET-IN BRACING ACCURATELY INTO STUDS TO MAINTAIN FULL BEARING VALUES.
- FRAME STUD PARTITIONS, FURRING OR WALLS CONTAINING ELECTRICAL PANELS, PLUMBING, OR OTHER PIPES TO GIVE REQUIRED CLEARANCE FOR PIPING AND FIXTURES.
  - PLACE APPROVED PIPING IN CENTER OF PLATES USING A NEAT HOLE, NOTCHING IS NOT PERMITTED.
  - DO NOT PLACE PIPES EXCEEDING 1/3 THE PLATE WIDTH IN PARTITIONS USED AS BEARING OR SHEAR WALLS.
  - PIPES SHALL NOT PASS THROUGH PLATES LESS THAN 5/16-INCH WIDE.
  - DO NOT SHIM SILLS, JOISTS, SHORT STUDS, TRIMMERS, HEADERS, LINTELS AND OTHER

- FRAMING MEMBERS.
  - MAKE JOINTS ACCURATELY AND NEATLY FOR A SQUARE, TIGHT FIT. REMOVE AND REPLACE DEFECTIVE WORK.

#### INSULATION

BATT INSULATION MATERIALS SHALL BE AS FOLLOWS:

- WHERE BATT INSULATION IS INDICATED, EITHER GLASS FIBER OR MINERAL FIBER BATT INSULATION MAY BE USED, AT CONTRACTOR'S OPTION.
- GLASS FIBER BATT INSULATION: FLEXIBLE PERFORMED BATT OR BLANKET, COMPLYING WITH ASTM C665 FRICTION FIT.
- FLAME SPREAD INDEX: 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- SMOKE DEVELOPMENT INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- COMBUSTIBILITY: NON-COMBUSTIBLE, WHEN TESTED IN ACCORDANCE WITH ASTM E136, EXCEPT FOR FACING, IF ANY.
- THERMAL RESISTANCE: R-VALUE SHALL MEET THE MINIMUM REQUIREMENTS PER LOCAL AUTHORITY HAVING JURISDICTION CODES.
- FACING: ALUMINUM FOIL, FLAME SPREAD 25 RATED; ONE SIDE.
- INSTALL INSULATION AND VAPOR RETARDER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- TRIM INSULATION NEATLY TO FIT SPACES. INSULATE ECCENTRIC GAPS AND VOIDS.
- FIT INSULATION TIGHTLY IN CAVITIES AND TIGHTLY TO EXTERIOR SIDE OF MECHANICAL AND ELECTRICAL SERVICES WITHIN THE PLANE OF THE INSULATION.
- INSTALL WITH FACTORY APPLIED VAPOR RETARDER MEMBRANE FACING WARM SIDE OF BUILDING SPACES. LAF ENDS AND SIDE FLANGES OF MEMBRANE OVER FRAMING MEMBERS.
- STAPLE OR NAIL FACING FLANGES IN PLACE AT MAXIMUM 6 INCHES ON CENTER.
- TAPE SEAL BUTT ENDS, LAPPED FLANGES, AND TEARS OR CUTS IN MEMBRANE.
- AT WOOD FRAMING, PLACE VAPOR RETARDER ON WARM SIDE OF INSULATION BY STAPLING AT 6 INCHES ON CENTER. LAP AND SEAL SHEET RETARDER JOINTS OVER MEMBER FACE.
- TAPE SEAL TEARS OR CUTS IN VAPOR RETARDER.

#### MINERAL FIBER BATT INSULATION:

- FLEXIBLE OR SEMI-RIGID PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM C665; FRICTION FIT; UNFACED FLAME SPREAD INDEX OF 0 (ZERO) WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- WHERE INDICATED, PROVIDE FOIL FACING ON ONE SIDE; WITH FLAME SPREAD INDEX OF 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- SMOKE DEVELOPED INDEX: 0 (ZERO), WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- THERMAL RESISTANCE: R-VALUE.

#### JOIST SEALERS

- SEALANTS SHALL COMPLY WITH THE FOLLOWING STANDARDS:
  - ASTM C834 - STANDARD SPECIFICATION FOR LATEX SEALANTS
  - ASTM C919 - STANDARD SPECIFICATION FOR USE OF SEALANT IN ACOUSTICAL APPLICATIONS
  - ASTM C920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
  - ASTM C8131 - STANDARD SPECIFICATION FOR SOLVENT RELEASE SEALANTS
  - ASTM D1056 - STANDARD SPECIFICATION FOR FLEXIBLE CELLULAR MATERIALS - SPONGE OR EXPANDED RUBBER
  - ASTM D1647 - STANDARD SPECIFICATION FOR FLEXIBLE CELLULAR MATERIALS - POLY (VINYL CHLORIDE) FOAM (CLOSED-CELL)
- SUBMIT PROJECT DATA INDICATING SEALANT CHEMICAL CHARACTERISTICS, VOC CONTENT DOCUMENTATION FOR ALL NON-PREFORMED SEALANTS AND PRIMERS, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL RESTRICTIONS OF VOLATILE ORGANIC COMPOUND CONTENT OF PRODUCTS, INDOOR EMISSION STANDARDS AND TEST METHOD.
- ALL VOC RESTRICTED PRODUCTS SHALL HAVE VOC CONTENT OF TYPES AND VOLUME NOT GREATER THAN THOSE SPECIFIED IN THE MOST STRINGENT FEDERAL, STATE AND LOCAL REQUIREMENTS AND REGULATIONS.
- CONTRACTOR SHALL PROVIDE WARRANTY INCLUDING COVERAGE FOR INSTALLED SEALANTS AND ACCESSORIES WHICH FAIL TO ACHIEVE AIRTIGHT SEAL, EXHIBIT LOSS OF ADHESION OR COHESION, OR DO NOT CURE, CORRECT DEFECTIVE WORK WITHIN A FIVE YEAR PERIOD AFTER DATE OF SUBSTANTIAL COMPLETION.
  - GENERAL PURPOSE EXTERIOR SEALANT: POLYURETHANE: ASTM C920, GRADE NS, CLASS 25 MINIMUM; USES M, G, AND A; SINGLE COMPONENT.
  - COLOR: MATCH ADJACENT FINISHED SURFACES.
  - APPLICATIONS: USE FOR:
    - CONTROL EXPANSION, AND SOFT JOINTS IN MASONRY.
    - JOINTS BETWEEN CONCRETE AND OTHER MATERIALS.
    - JOINTS BETWEEN METAL FRAMES AND OTHER MATERIALS.
    - OTHER EXTERIOR JOINTS FOR WHICH NO OTHER SEALANT IS INDICATED.
- EXTERIOR METAL LAP JOINT SEALANT: BUTYL OR POLYISOBUTYLENE, NONDRYING, NONSKINNING, NONCURING.
  - APPLICATIONS: USE FOR:
    - CONCEALED SEALANT BEAD IN SHEET METAL WORK.
    - CONCEALED SEALANT BEAD IN SIDING OVERLAPS.
- GENERAL PURPOSE INTERIOR SEALANT: ACRYLIC EMULSION LATEX: ASTM C834, TYPE OP, GRADE NF SINGLE COMPONENT, PAINTABLE.
  - COLOR: MATCH ADJACENT FINISHED SURFACES.
  - APPLICATIONS: USE FOR:
    - INTERIOR WALL AND CEILING CONTROL JOINTS.
    - JOINTS BETWEEN DOOR AND WINDOW FRAMES AND WALL SURFACES
    - OTHER INTERIOR JOINTS FOR WHICH NO OTHER TYPE OF SEALANT IS INDICATED.
- NON-SAG TAMPER-RESISTANT SEALANT: ASTM C920, GRADE NS, CLASS 12-1/2, USES M, G, AND A; SINGLE OR MULTI-COMPONENT.
  - TYPE: POLYURETHANE.
  - COLOR: MATCH ADJACENT FINISHED SURFACES.
  - APPLICATIONS: USE FOR THE FOLLOWING JOINTS IN SECURE AREAS.
    - INTERIOR WALL AND CEILING CONTROL JOINTS.
    - JOINTS BETWEEN DOOR AND WINDOW FRAMES AND WALL SURFACES
    - OTHER INTERIOR JOINTS FOR WHICH NO OTHER TYPE OF SEALANT IS INDICATED.
- WEATHER/TILE SEALANT: WHITE SILICONE: ASTM C920, USES I, M AND A; SINGLE COMPONENT, MILDEW RESISTANT.
  - APPLICATIONS: USE FOR:
    - JOINTS BETWEEN PLUMBING FIXTURES AND FLOOR AND WALL SURFACES.
    - JOINTS BETWEEN KITCHEN AND BATH COUNTERTOPS AND WALL SURFACES.
- ACOUSTICAL SEALANT FOR CONCEALED LOCATIONS:
  - COMPOSITION: ACRYLIC LATEX EMULSION SEALANT.
  - APPLICATIONS: USE FOR CONCEALED LOCATIONS ONLY:
    - SEALANT BEAD BETWEEN TOP STUD, RUNNER AND STRUCTURE AND BETWEEN BOTTOM STUD TRACK AND FLOOR.
- CONCRETE FLOOR JOINT FILLER: SELF-LEVELING, POURABLE, SEMI-RIGID SEALANT INTENDED FOR FILLING CRACKS AND CONTROL JOINTS NOT SUBJECT TO SIGNIFICANT MOVEMENT; RIGID ENOUGH TO SUPPORT CONCRETE EDGES UNDER TRAFFIC.
  - COMPOSITION: SINGLE OR MULTI-PART, 100 PERCENT SOLIDS BY WEIGHT.
  - PERFORM INSTALLATION IN ACCORDANCE WITH ASTM C1193.
  - SHORE A.
  - COLOR: TO BE SELECTED BY ARCHITECT/ OWNER.
  - JOINT WIDTH: 1/8 INCH.
  - JOINT DEPTH: TO BE SELECTED BY ARCHITECT/ OWNER.
  - JOINT DEPTH: PROVIDE PRODUCE PRODUCT SUITABLE FOR JOINTS FROM 1/8 INCH TO 2 INCHES IN DEPTH INCLUDING SPACE FOR BACKER ROD.
- APPLICATIONS: USE FOR:
  - CONTROL JOINTS IN CONCRETE SLABS AND FLOORS NOT FILLED WITH FILLER PLACED IN FORM.
  - JOINTS IN CONCRETE SLABS AND FLOORS

- PERFORM WORK IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS FOR PREPARATION OF SURFACES AND MATERIAL INSTALLATION INSTRUCTIONS.
- PERFORM INSTALLATION IN ACCORDANCE WITH ASTM C1193.
- PERFORM ACOUSTICAL SEALANT APPLICATION WORK IN ACCORDANCE WITH ASTM C919.
- MEASURE JOINT DIMENSIONS AND SIZE JOINT BACKERS TO ACHIEVE THE FOLLOWING, UNLESS OTHERWISE INDICATED:
  - WIDTH/DEPTH RATIO 2:1.
  - NECK DIMENSION NO GREATER THAN 1/3 OF THE JOINT WIDTH.
  - SURFACE BOND AREA ON EACH SIDE NOT LESS THAN 75 PERCENT OF JOINT WIDTH.
- INSTALL BOND BREAKER WHERE JOINT BACKING IS NOT USED.
- INSTALL SEALANT FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS.
- APPLY SEALANT WITHIN RECOMMENDED APPLICATION TEMPERATURE RANGES, CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN THESE TEMPERATURE RANGES.
- PRECOMPRESSED FOAM SEALANT: DO NOT STRETCH; AVOID JOINTS EXCEPT AT CORNERS, ENDS, AND INTERSECTIONS; INSTALL WITH FACE 1/8 TO 1/4 INCHES BELOW ADJOINING SURFACE.
- COMPRESSION GASKETS: AVOID JOINTS EXCEPT AT ENDS, CORNERS, AND INTERSECTIONS; SEAL ALL JOINTS WITH ADHESIVE; INSTALL WITH FACE 1/8 TO 1/4 INCHES BELOW ADJOINING SURFACE.

- CONCRETE FLOOR JOINT FILLER: INSTALL CONCRETE JOINT FILLER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. AFTER FLOOR JOINT FILLER IS FULLY CURED, SHAVE JOINT FILLER FLUSH WITH TOP OF CONCRETE SLAB.
- SEALANT PRODUCTS USED ARE TO BE COMPATIBLE WITH THE MATERIALS THEY ARE TO BOND WITH AND REMAIN FLEXIBLE. CONTRACTOR TO VERIFY COMPARABILITY OF ALL SEALANTS, MEMBRANE FLASHING, AND WEATHER-RESISTIVE BARRIERS. EXPOSED SEALANT IS TO BE COMPLETELY FILL THE JOINT. THE SEALANT IS NOT TO BE SMEARED OR FEATHERED TOPICALLY BEYOND THE JOINT. ALL EXCESS SEALANT IS TO BE NEATLY REMOVED. ALL SEALANTS ARE TO BE INSTALLED OVER BACKER RODS OR BOND BREAKERS PER INDUSTRY STANDARDS.

#### GYPSUM BOARD

GYPSUM BOARD INCLUDES THE REQUIREMENTS OF THE FOLLOWING:

- NON-STRUCTURAL GYPSUM WALL BOARD.

#### MATERIALS:

- GYPSUM WALL BOARD: ASTM C1177, PER PLAN.
  - THICKNESS: 5/8 INCH, UNLESS OTHERWISE SHOWN.
  - SIZE: 4 FEET X MAXIMUM LENGTHS POSSIBLE; 8 FEET MINIMUM.
  - EDGE: SQUARE.
  - BACKING BOARD FOR WET AREAS & KITCHEN SERVICE AREA:
    - APPLICATION: SURFACES BEHIND TILE IN WET AREAS INCLUDING TILE AND FRP PANEL LOCATIONS & AS SHOWN ON DRAWINGS.
    - GLASS MAT FACED BOARD: COATED GLASS MAT WATER RESISTANT GYPSUM BACKING PANEL AS DEFINED IN ASTM C1178/C 1178M.
- FASTENERS: CORROSION-RESISTANT CONFORMING TO ASTM C954; USG "BOARD TYPE SF," OR ACCEPTED EQUAL.
- MOLD RESISTANCE: SCOPE OF WORK WHEN TESTED IN ACCORDANCE WITH ASTM D3273.
- INSTALL BOARD VERTICALLY OR HORIZONTALLY USING SPECIFIED FASTENERS IN ALL LOCATIONS WITH BOARD MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
- PROVIDE BACK BLOCKING OR SUPPLEMENTAL FRAMING WHERE RECOMMENDED BY BOARD MANUFACTURER AND WHEREVER END JOINTS DO NOT BEAR AGAINST FRAMING.
- SECURE TO FRAMING USING SPECIFIED FASTENERS
  - SECURE TO SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPACING, BUT SPACE FASTENERS NOT MORE THAN 4 INCHES ON CENTER AROUND PERIMETER AT EDGE AND END SUPPORTS AND 8 INCHES ON CENTER AT INTERMEDIATE SUPPORTS.
  - INSTALL FLUSH WITH FACE OF BOARD; DO NOT CENTER/SINK.
  - KEEP PERIMETER FASTENERS 3/8 INCH FROM EDGES AND ENDS OF BOARD UNITS.

#### GYPSUM BOARD ASSEMBLY

- STANDARDS:
  - WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS:
    - ANSI 108.11 - INTERIOR INSTALLATION OF CEMENTITIOUS BACKER UNITS
    - ANSI 118.9 CEMENT BASED BOARD; NON-GYPSUM BASED, AGGREGATED PORTLAND CEMENT PANELS WITH GLASS FIBER MESH EMBEDDED IN FRONT AND BACK SURFACES
    - ASTM C475/C475M - JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD
    - ASTM C840 - APPLICATION AND FINISHING OF GYPSUM BOARD
    - ASTM C1178/C1178M - COATED GLASS MATTED WATER-RESISTANT GYPSUM BACKING PANEL
    - ASTM C1288 - DISCRETE NON-ASBESTOS FIBER CEMENT INTERIOR SUBSTRATE SHEET
    - ASTM C1325 - NON-ASBESTOS FIBER-MAT REINFORCED CEMENT SUBSTRATE SHEET
    - ASTM C1396/C1396M - GYPSUM BOARD
    - ASTM D3273 - MOLD RESISTANCE, SCORE OF 10
    - ASTM C1581/1581M - GLASS-MAT GYPSUM PANEL
    - ASTM E415 - CLASSIFICATION FOR RATING SOUND INSULATION
    - ASTM C754 - CEILING HANGERS TYPE AND SIZE FOR SPACING
  - ASSEMBLY FRAMING:
    - ASTM C645 - NON-LOADING FRAMING SYSTEM COMPONENTS, GALVANIZED STEEL SHEET, OF SIZE AND PROPERTIES NECESSARY TO COMPLY WITH ASTM C754 FOR THE SPACING INDICATED, WITH MAXIMUM DEFLECTION OF WALL FRAMING OF L/240 AT 5 PSF.
    - STUDS: C SHAPED WITH FLAT OF FORMED WEB WITH KURLED FACE.
    - RUNNERS: U SHAPED, SIZED TO MATCH STUDS
    - CEILING CHANNELS: C SHAPED
    - SUSPENDED CEILING AND SOFFITS: LEVEL CEILING TO A TOLERANCE OF 1/1200.
    - APPLICATIONS: USE FOR:
      - WEATHER OR WATER SUSPENSION SYSTEM
      - FURRING; HAT SHAPED SECTIONS, MIN. DEPTH OF 7/8"
    - RESILIENT FURRING CHANNELS: 1/2" DEEP, FOR ATTACHMENT TO SUBSTRATE THROUGH ONE LEG ONLY
  - ASSEMBLY ACCESSORIES:
    - PLACE CONTROL JOINTS NOT MORE THAN 30 FEET APART ON WALLS AND CEILING OVER 50 FEET LONG.
    - PROVIDE CORNER BEAD AND EDGE TRIM, TYPICAL.
    - ACOUSTIC SEALANT: ACRYLIC EMULSION LATEX OR WATER-BASED ELASTOMERIC SEALANT, DO NOT USE SOLVENT-BASED NON-CURING BUTYL SEALANT.
  - BLOCKING: INSTALL MECHANICALLY FASTENED STEEL SHEET BLOCKING FOR SUPPORT OF FRAMED OPENINGS, WALL MOUNTED CABINETS, PLUMBING FIXTURES, TOILET PARTITIONS, TOILET ACCESSORIES, WALL MOUNTED DRY HARDWARE.
- ASSEMBLY FINISH:
  - FINISH GYPSUM BOARD IN ACCORDANCE WITH LEVELS DEFINED IN ASTM C840 AS FOLLOWS:
    - LEVEL 5: WALLS AND CEILING TO RECEIVE SEMI-GLOSS OR GLOSS PAINT FINISH U.N.O.; AFTER JOINTS HAVE BEEN PROPERLY TREATED, SPRAY APPLY HIGH BUILD DRYWALL SURFACER OVER ENTIRE SURFACE TO ACHIEVE A FLAT AND TOOL-MARK FREE FINISH.
    - LEVEL 4: WALLS AND CEILING TO RECEIVE PAINT FINISH OR WALL COVERINGS, U.N.O.
    - LEVEL 2: IN UTILITY AREAS, BEHIND CABINETS AND ON BACKING BOARD TO RECEIVE TILE FINISH.
    - LEVEL 1: FIRE RATED WALL AREAS ABOVE FINISHED CEILINGS, WHETHER OR NOT ASSESSABLE IN THE COMPLETED CONSTRUCTION.
- ASSEMBLY TOLERANCE:
  - MAXIMUM VARIATION OF FINISHED GYPSUM BOARD SURFACE FROM TRUE FLATNESS SHALL BE 1/8" IN 10 FEET IN ANY DIRECTION.

#### PAINTING AND COATING

- INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING PAINTING AND COATING SHALL HAVE THREE YEARS OF DOCUMENTED EXPERIENCE.
- CREASAL CS-11 CERTIFICATION
- LED REPORT: VOC CONTENT OF ALL INTERIOR OPAQUE COATINGS ACTUALLY USED.
- FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR PRODUCING BEST RESULT INCLUDING TESTING OF SUBSTRATES, MOISTURE IN SUBSTRATES, AND HUMIDITY AND TEMPERATURE LIMITATION.
- PROVIDE COATINGS THAT COMPLY WITH THE MOST STRINGENT REQUIREMENT SPECIFIED IN THE FOLLOWING:
  - 40 CFR 59, SUBPART D - NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS, U.S. ENVIRONMENTAL PROTECTION AGENCY.
  - ASTM D116 - STANDARD TERMINOLOGY FOR PAINT, RELATED COATINGS, MATERIALS AND APPLICATIONS
  - ASSIM D4442 - STANDARD TEST METHODS FOR DIRECT MOISTURE CONTENT MEASUREMENT OF WOOD AND WOOD-BASED MATERIALS.
  - GREENSEAL GS-11 PAINTS

#### CERTIFICATION:

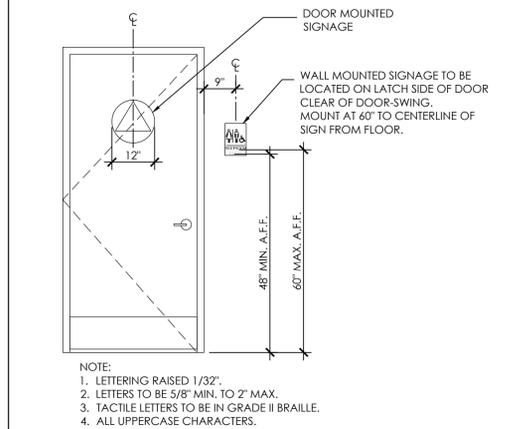
- BY MANUFACTURER THAT ALL PAINTS AND COATINGS COMPLY WITH VOC LIMITS SPECIFIED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- BY MANUFACTURER THAT ALL PAINTS AND COATINGS DO NOT CONTAIN ANY OF THE PROHIBITED CHEMICALS SPECIFIED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- GREENSEAL CS-11 CERTIFICATION
- LED REPORT: VOC CONTENT OF ALL INTERIOR OPAQUE COATINGS ACTUALLY USED.
- FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR PRODUCING BEST RESULT INCLUDING TESTING OF SUBSTRATES, MOISTURE IN SUBSTRATES, AND HUMIDITY AND TEMPERATURE LIMITATION.
- PROVIDE COATINGS THAT COMPLY WITH THE MOST STRINGENT REQUIREMENT SPECIFIED IN THE FOLLOWING:
  - 40 CFR 59, SUBPART D - NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS, U.S. ENVIRONMENTAL PROTECTION AGENCY.
  - OZONE TRANSPORT COMMISSION (OTC) MODEL RULE, ARCHITECTURE, INDUSTRIAL AND MAINTENANCE COATINGS
  - OPAQUE: FLAT 50G/L MAXIMUM
  - OPAQUE: NON-FLAT 150G/L MAXIMUM
  - OPAQUE: HIGH GLOSS 250G/L MAXIMUM
  - VARNISH: 350G/L MAXIMUM
  - ARCHITECTURAL COATINGS VOC LIMITS PER APPLICABLE CODES.
- DETERMINATION OF VOC CONTENT: TESTING AND CALCULATION IN ACCORDANCE WITH 40 CFR 59, SUBPART D (EPA METHOD 24), EXCLUSIVE OF COLORANTS ADDED TO A TINT

BASE AND WATER ADDED AT PROJECT SITE, OR OTHER METHOD ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

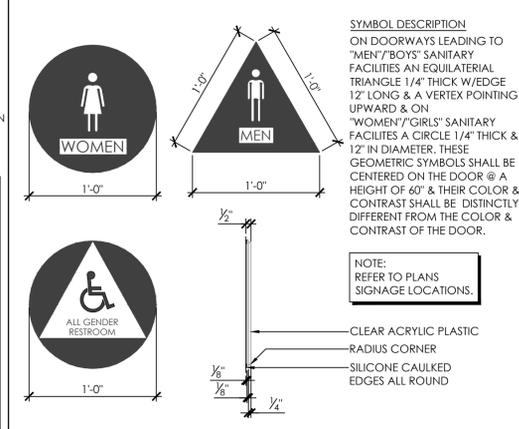
- CHEMICAL CONTENT: THE FOLLOWING COMPOUNDS ARE PROHIBITED:
  - AROMATIC COMPOUNDS: IN EXCESS OF 1.0 PERCENT BY WEIGHT OF TOTAL AROMATIC COMPOUNDS (HYDROCARBON COMPOUNDS CONTAINING ONE OR MORE BENZENE RINGS)
  - ACROLEIN, ACRYLONITRILE, ANTIMONY, BENZENE, BUTYL BENZYL PHTHALATE, 1,2-DICHLOROBENZENE, DIETHYL PHTHALATE, DIMETHYL PHTHALATE, ETHYLBENZENE, FORMALDEHYDE, HEXAVALENT CHROMIUM, ISOPHORONE, LEAD, MERCURY, METHYL ETHYL KETONE, METHYL ISOBUTYL KETONE, METHYLENE CHLORIDE, NAPHTHALENE, TOLUENE (METHYL METHYLENE), 1,1,1-TRICHLOROETHANE, VINYL CHLORIDE.
- FLAMMABILITY: COMPLY WITH APPLICABLE CODE FOR SURFACE BURNING CHARACTERISTICS.

#### INTERIOR PAINT:

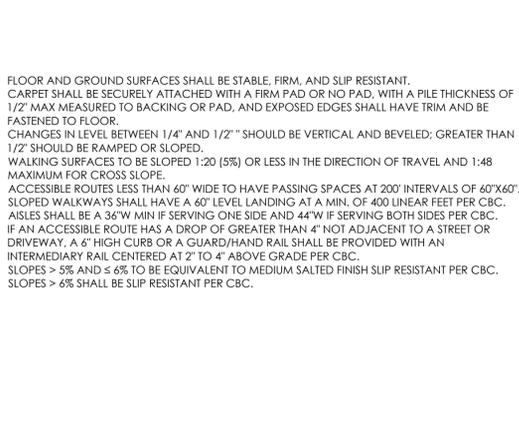
- PAINT INTERIOR SURFACES INDICATED TO BE PAINTED, UNLESS OTHERWISE INDICATED:
  - INCLUDING GYPSUM BOARD, CONCRETE, CONCRETE MASONRY, BRICK, WOOD, PLASTER, UNCOATED STEEL, SHOP PRIMED STEEL, GALVANIZED STEEL AND ALUMINUM,
    - TWO TOP COATS AND ONE COAT PRIMER.
    - TOP COAT(S): INSTITUTIONAL LOW ODOR/VOC INTERIOR LATEX; MPI #143-148.
    - FLAT: MPI GLOSS LEVEL 1; USE THIS SHEEN FOR CEILINGS AND OTHER OVERHEAD SURFACES.
    - EGG SHELL: MPI GLOSS LEVEL 3; USE THIS SHEEN AT WALLS.
    - SATIN: MPI GLOSS LEVEL 4; USE THIS SHEEN FOR ITEMS SUBJECT TO FREQUENT TOUCHING BY OCCUPANTS, INCLUDING DOOR FRAMES AND RAILINGS.
    - TOP COAT PRODUCT(S):
      - DUNN EDWARDS SPARTAWALL SWLL0, G



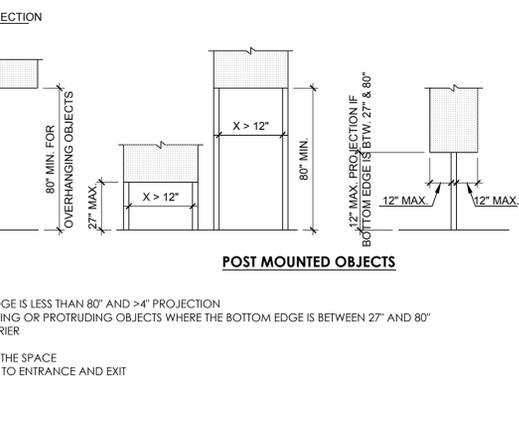
**ADA SIGNAGE MOUNTING** SCALE 1 1/2" = 1'-0" **16**



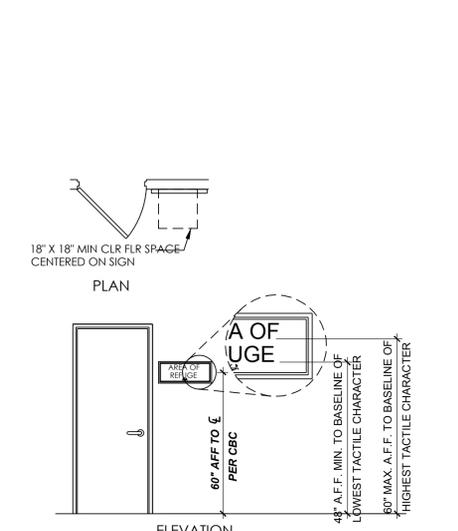
**RESTROOM SIGNAGE** SCALE 1 1/2" = 1'-0" **15**



**ACCESSIBLE ROUTE** SCALE NTS **14**



**PROTRUDING, OVERHANGING OBJECTS** SCALE NTS **13**



**PERMANENT ROOMS & SPACES**  
 PERMANENT ROOMS SHALL HAVE RAISED CHARACTERS AND BRAILLE SIGNAGE.

**EXIT DOOR SIGNS**  
 DOORS AT EXIT PASSAGEWAYS, DISCHARGE, AND STAIRWAYS SHALL HAVE RAISED CHARACTERS AND BRAIL SIGNAGE. STATING "EXIT", "EXIT STAIR DOWN", "EXIT RAMP DOWN", "EXIT ROUTE" (IF DOOR EXITS DIRECTLY TO EXTERIOR W/ NO STAIRS/RAMP), "TO EXIT" (IF DOOR EXITS THRU HORIZONTAL EXIT) ETC AS APPROPRIATE PER CBC.

**ENTRANCES**  
 WHERE NOT ALL ENTRANCES ARE ACCESSIBLE, PROVIDE ISA AT ACCESSIBLE ENTRANCES & DIRECTIONAL SIGNS LOCATING ACCESSIBLE ENTRANCES.

**INFORMATIONAL SIGNS**  
 INFORMATIONAL SIGNS (IE OCCUPANT LOAD, RULES OF CONDUCT, ETC) SHALL HAVE VISUAL CHARACTERS. BUILDING DIRECTORIES & BUILDING ADDRESSES DO NOT NEED TO COMPLY.

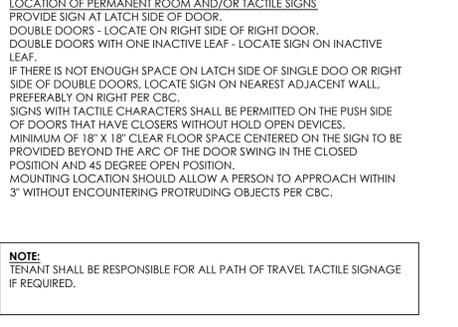
**DIRECTIONAL SIGNS**  
 DIRECTIONAL SIGNS (IE DIRECTIONS TO ROOMS OR SPACES INCLUDING IDENTIFICATION OF EGRESS ROUTES SHALL HAVE VISUAL CHARACTERS.

**RESTROOM SIGNS**  
 RESTROOM SIGNS TO HAVE RAISED CHARACTERS, BRAILLE, PICTORGRAM AND 6" MIN. ISA. ADDITIONAL RESTROOM ID SIGNS TO BE LOCATED ON DOORS PER CBC.

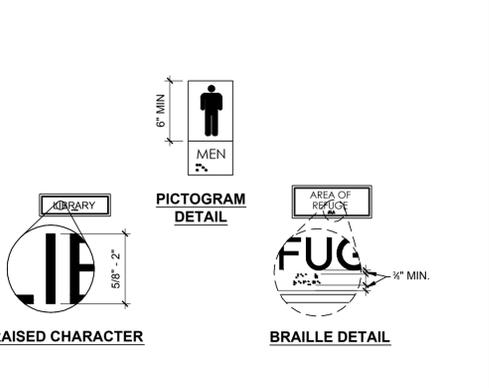
**LOCATION OF PERMANENT ROOM AND/OR TACTILE SIGNS**  
 PROVIDE SIGN AT LATCH SIDE OF DOOR. DOUBLE DOORS - LOCATE ON RIGHT SIDE OF RIGHT DOOR. DOUBLE DOORS WITH ONE INACTIVE LEAF - LOCATE SIGN ON INACTIVE LEAF. IF THERE IS NOT ENOUGH SPACE ON LATCH SIDE OF SINGLE DOOR OR RIGHT SIDE OF DOUBLE DOORS, LOCATE SIGN ON NEAREST ADJACENT WALL, PREFERABLY ON RIGHT PER CBC.

**SIGNS WITH TACTILE CHARACTERS** SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS THAT HAVE CLOSERS WITHOUT HOLD OPEN DEVICES. MINIMUM OF 18" X 18" CLEAR FLOOR SPACE CENTERED ON THE SIGN TO BE PROVIDED BEYOND THE ARC OF THE DOOR SWING IN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. MOUNTING LOCATION SHOULD ALLOW A PERSON TO APPROACH WITHIN 3" WITHOUT ENCOUNTERING PROTRUDING PER CBC.

**NOTE:**  
 TENANT SHALL BE RESPONSIBLE FOR ALL PATH OF TRAVEL TACTILE SIGNAGE IF REQUIRED.



**KNEE & TOE CLEARANCES** SCALE NTS **9**



**TACTILE - BRAILLE**  
 BRAILLE TO BE CONTRACTED GRADE 2 BRAILLE: CA CONTRACTED GRADE 2 BRAILLE PER CBC. BRAILLE DOTS SHALL HAVE ROUNDED OR DOMED SHAPE AND COMPLY WITH ADA TABLE 703.3.1. CA BRAILLE DOTS TO BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS AND RAISED 1/40" PER CBC.

**REQUIRED SIGNS TO HAVE VISUAL CHARACTERS.** VISUAL CHARACTERS DO NOT NEED TO BE USED IF THE SIGN HAS BOTH RAISED CHARACTERS AND BRAILLE. IF VISUAL ONLY, CHARACTERS CAN BE UPPER OR LOWER CASE OR COMBINATION AND CAN NOT BE ITALICS OR HIGHLY DECORATIVE. WIDTH OF UPPER CASE LETTER "O" IS 55% TO 110% OF THE UPPER CASE LETTER "I": 3:5 TO 1:1 PER CBC.

**VISUAL CHARACTER HT TO BE DEPENDENT UPON HEIGHT AFF AND VIEWING DISTANCE AND SHALL BE 40" MIN AFF.**  
 40" - 70" AFF AND < 72" VIEWING DISTANCE - 5/8" HT CHARACTERS.  
 40" - 70" AFF AND ≥ 72" VIEWING DISTANCE - 5/8" HT + 1/8"/FT OF VIEWING DISTANCE.  
 70" - 120" AFF AND < 180" VIEWING DISTANCE - 2" HT CHARACTERS.  
 70" - 120" AFF AND ≥ 180" VIEWING DISTANCE - 2" HT + 1/8"/FT OF VIEWING DISTANCE.  
 > 120" AFF & < 21' VIEWING DISTANCE - 3" HT CHARACTERS.  
 > 120" AFF & ≥ 21' VIEWING DISTANCE - 3" HT + 1/8"/FT OF VIEWING DISTANCE.

**STROKE THICKNESS SHALL BE 10%-30% OF UPPER CASE LETTER "I". WIDTH:HT RATIO OF 1.5 TO 1:10 PER CBC.**

**CHARACTER SPACING TO BE 1/8" TO 4 TIMES THE STROKE WIDTH.** LINE SPACING TO BE 35% TO 70% OF CHARACTER HEIGHT. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST (I.E. LIGHT ON DARK OR DARK ON LIGHT)

**PICTORGRAMS**  
 IF PICTORGRAMS ARE REQUIRED THEY SHALL BE LOCATED IN A SEPARATE FIELD WITH 6" MIN HT PICTORGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST (I.E. LIGHT ON DARK OR DARK ON LIGHT) PICTORGRAMS OR HAVE A TEXT DESCRIPTION DIRECTLY BELOW (IE MEN, WOMEN, UNISEX)

**SYMBOLS & THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH & SHALL CONTRAST (IE LIGHT ON DARK OR DARK ON LIGHT)**

**SYMBOLS ARE FOR INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA), INTERNATIONAL SYMBOL OF TTY, VOLUME CONTROL TELEPHONES, & ASSISTIVE LISTENING SYSTEMS**

**SYMBOLS & THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH & SHALL CONTRAST (IE LIGHT ON DARK OR DARK ON LIGHT)**

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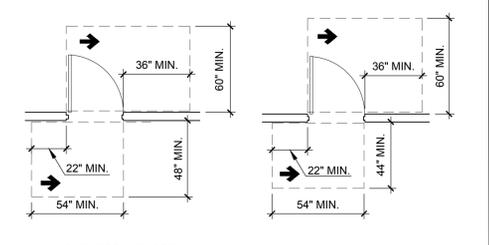
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**SYMBOLS ARE FOR INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA), INTERNATIONAL SYMBOL OF TTY, VOLUME CONTROL TELEPHONES, & ASSISTIVE LISTENING SYSTEMS**

**SYMBOLS & THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH & SHALL CONTRAST (IE LIGHT ON DARK OR DARK ON LIGHT)**

**REACH RANGES** SCALE NTS **5**



\* FOR AUTOMATIC SLIDING DOORS, USE CLEARANCES DESIGNATED FOR PUSH SIDE FRONT APPROACH FOR BOTH DIRECTIONS OF TRAVEL.

**DOOR CLEARANCES** SCALE NTS **3**

**NOTE: ALL REQUIRED CLEARANCES TO HAVE A MAXIMUM OF 1:48 SLOPE IN ANY DIRECTION.**

- CLEAR WIDTH OF 32" MIN MEASURED FROM FACE OF DOOR IN THE 90° OPEN POSITION TO THE DOOR STOP

- CLEAR WIDTH OF 36" IF OPENINGS > 24" DEEP

- DOOR CLOSERS AND STOPS SHALL BE 78" AFF MIN

- DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST

- CLOSERS, IF PRESENT, SHALL REQUIRE A CLOSING TIME OF 5 SECONDS MIN FROM 90° TO 120°, 3 SECONDS MIN FROM 70° TO 3° TO LATCH PER CBC.

- SPRING HINGES, IF PRESENT, SHALL REQUIRE A CLOSING TIME OF 1 1/2 SECONDS MIN FROM 70°

- OPERABLE DOOR HARDWARE PARTS SHALL BE 34" MIN TO 48" MAX AFF, 3 SECONDS MIN FROM 70° TO 3° TO LATCH PER CBC

- FORCE FOR PUSH OR PULL SIDE OF DOOR IS 5 LBS MAX EXCEPT ON FIRE DOORS WHICH SHALL COMPLY WITH APPROPRIATE ADMINISTRATIVE AUTHORITY, 15# MAX PER CBC

- SWINGING DOORS SHALL HAVE A SMOOTH SURFACE ON PUSH SIDE EXTENDING 10" AFF FOR THE FULL WIDTH, ANY JOINTS SHALL HAVE A 1/4" MAX DIFFERENTIAL; TEMPERED GLASS DOORS WITHOUT STILES AND WITH A BOTTOM RAIL WITH A 60° MIN TAPER ALONG TOP EDGE DO NOT NEED AN ADDITIONAL KICK PLATE; NOT REQUIRED ON AUTOMATIC OR SLIDING DOORS

- IF VISION LIGHTS ARE PRESENT IN OR NEXT TO A DOOR A MIN OF ONE PANEL SHALL HAVE THE BOTTOM AT 43" AFF MAX; NOT REQUIRED IF LOWEST PANEL IS > 66" AFF

- ALL DIRECT ENTRANCES FROM PARKING STRUCTURES TO A BUILDING SHALL BE ACCESSIBLE

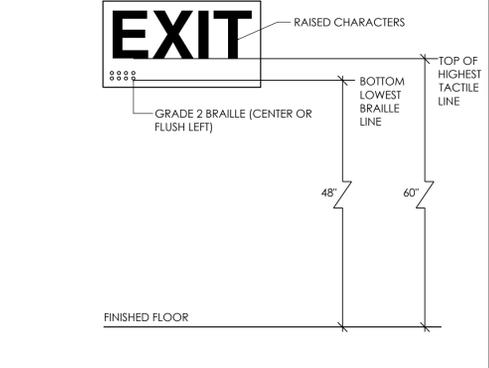
- ONE ENTRANCE MIN FROM A TUNNEL OR ELEVATED WALKWAY TO A BUILDING SHALL BE ACCESSIBLE

- ONE ENTRANCE MIN TO A TENANT SPACE SHALL BE ACCESSIBLE IN ADDITION TO ABOVE A MINIMUM OF 60% OF PUBLIC ENTRANCES SHALL BE ACCESSIBLE AND ON AN ACCESSIBLE ROUTE: 100% OF EXTERIOR GROUND FLOOR ENTRANCES TO BE ACCESSIBLE & SHALL BE ON AN ACCESSIBLE ROUTE PER CBC

- WITHIN A BUILDING, A MINIMUM OF ONE DOOR SERVING EACH ROOM SHALL BE ACCESSIBLE

- REVOLVING DOORS, GATES & TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE

**DOORS & GATES** SCALE NTS **2**



**TACTILE EXIT SIGNAGE** SCALE NTS **1**



STAMP:



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CLIENT:

**5:17 TOTAL BODY TRANSFORMATIONS**

471 E CAMPBELL AVE  
 CAMPBELL, CA 95008

**5:17 TOTAL BODY TRANSFORMATIONS TENANT IMPROVEMENT**

C-JH-GYM-001

#	DESCRIPTION	DATE
0	PLAN CHECK SUBMITTAL	07/02/2018
△	P.C. CORRECTIONS	08/06/2018

**GENERAL ACCESSIBILITY DETAILS**

SHEET NO:

**A001**



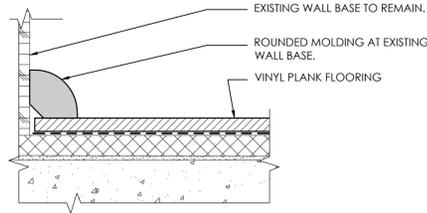
# SCHEDULES

ROOM FINISH SCHEDULE						
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	NOTES
		MATERIAL	MATERIAL	MATERIAL/ FINISH	MATERIAL/ FINISH	
101	LOBBY	EXISTING	EXISTING	P-1	EXISTING	SEE FINISH MATERIAL SCHEDULE.
102	WORKOUT AREA	F-1	B-1	P-1	EXISTING	SEE FINISH MATERIAL SCHEDULE.
103	OFFICE	EXISTING	EXISTING	P-1	EXISTING	SEE FINISH MATERIAL SCHEDULE.
104	RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	SEE FINISH MATERIAL SCHEDULE.

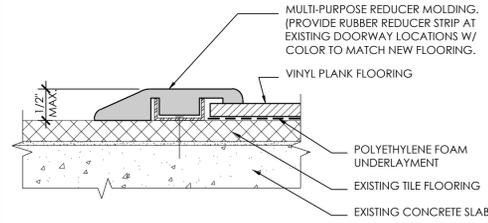
FINISH MATERIAL SCHEDULE		
TAG	FINISH MATERIAL	DESCRIPTION
B-1	ROUNDED VINYL MOLDING	ROUNDED MOLDING OVER EXISTING WALL BASE. COLOR: COORDINATE COLOR SELECTION W/ OWNER.
F-1	VINYL PLANK FLOORING	6" x 36" x 4.2MM LUXURY VINYL PLANK. HOME DECORATORS COLLECTION, MODEL # 60198. COLOR: STONY OAK GREY.
P-1	PAINT	PAINT: SHERWIN WILLIAMS "ICE CUBE". EGGHELL FINISH, TYPICAL.

DOOR & FRAME SCHEDULE										
DOOR NO.	LOCATION	SIZE	DOORS			FRAME			HDWR SET	NOTES
			TYPE	MAT.	FIN.	TYPE	MAT.	FIN.		
101	LOBBY	(E) 3'-0" X 7'-0" X 1 3/4"	(E)	(E)	(E)	(E)	(E)	(E)	(E)	EXISTING STOREFRONT DOOR TO REMAIN. GC VERIFY EXISTING HARDWARE PER CODE.
103	(E) OFFICE	(E) 3'-0" X 7'-0" X 1 3/4"	(E)	(E)	PT	(E)	(E)	PT	(E)	EXISTING FLUSH DOOR TO REMAIN. GC VERIFY EXISTING LEVER TYPE HARDWARE.
104	(E) RESTROOM	(E) 3'-0" X 7'-0" X 1 3/4"	(E)	(E)	PT	(E)	(E)	PT	(E)	EXISTING FLUSH DOOR TO REMAIN. GC VERIFY EXISTING LEVER TYPE HARDWARE W/ PRIVACY LOCK.

ABBREVIATIONS: (E) - EXISTING  
PT - PAINT IN COLOR SELECTED BY OWNER.



WALL BASE DETAIL SCALE NTS 4



FLOOR TRANSITION DETAIL SCALE NTS 3

# KEYNOTES

- EXISTING ENTRY DOOR SYSTEM TO REMAIN.
- EXISTING ALUMINUM STOREFRONT SYSTEM TO REMAIN.
- EXISTING TENANT SEPARATION WALL TO REMAIN. REMOVE ANY EXISTING DECORATIVE ACCENT TILE OR OTHER DECORATIVE FINISHES OVER EXISTING GYP BD; PATCH & REPAIR AS NEEDED. PREPARE GYP BOARD SURFACE FOR NEW PAINT. GC TO VERIFY & MAINTAIN ALL EXISTING FIRE RATING.
- EXISTING NON-BEARING PARTITION WALL TO REMAIN. REMOVE ANY EXISTING DECORATIVE ACCENT TILE OR OTHER DECORATIVE FINISHES OVER EXISTING GYP BD; PATCH & REPAIR AS NEEDED. PREPARE GYP BOARD SURFACE FOR NEW PAINT.
- EXISTING DOOR TO REMAIN. PAINT PER SCHEDULE.
- EXISTING FLOOR FINISH TO REMAIN.
- EXISTING ELECTRICAL PANEL BOARD TO REMAIN.
- PROVIDE NEW FLOOR FINISH OVER EXISTING. SEE FINISH MATERIAL SCHEDULE FOR SPECIFICATIONS. GC TO VERIFY NEW FLOORING IS LEVEL AND FLAT. (3) (4)
- INFILL OPENING AT EXISTING DEMISING WALL TO MATCH EXISTING DEMISING WALL STUD SIZES & STUD SPACING. BATT INSULATION TO MATCH EXISTING. AND MAINTAIN ALL EXISTING FIRE RATINGS. FINISH ON BOTH SIDES W/ TYPE 'X' 5/8" GYP BOARD. PAINT ON TENANT SIDE PER FINISH SCHEDULE.
- INTERNATIONAL SIGN OF ACCESSIBILITY AT ENTRY DOORS PER ADA & ACCESSIBILITY GUIDELINES. TO BE PROVIDED & INSTALLED BY GC. SEE DETAIL (19) (A001)
- G.C. TO PROVIDE RAISED CHARACTER AND BRAILLE EXIT SIGNS PER DETAIL (1) (A001)
- EXISTING CEILING GRID, EXISTING LIGHT FIXTURES, EXISTING EXIT SIGNS & EXISTING HVAC DIFFUSERS TO REMAIN, UNO.
- PROVIDE FIRE EXTINGUISHERS HAVING A RATING OF 2-A10-BC FOR EVERY 3,000 S.F. OF FLOOR AREA & TRAVEL DISTANCE TO AN EXTINGUISHER SHALL NOT EXCEED 75 FEET.
- PROVIDE 24" x 24" RETURN AIR GRILLE. REFER TO MECHANICAL DWG.
- ANY OPENING OR PENETRATIONS THROUGH THE FIRE RATED DEMISING WALL LOCATED ABOVE FALSE CEILING LEVEL SHALL BE CLOSED & PATCHED TO MATCH EXISTING DEMISING WALL STUD SIZES & STUD SPACING. BATT INSULATION TO MATCH EXISTING. AND MAINTAIN ALL EXISTING FIRE RATINGS.
- PROVIDE ALL GENDER RESTROOM SIGN AT (E) RESTROOM PER DETAIL (15) (A001) (16) (A001)
- TENANT LEASE AREA OUTLINE.

# FLOOR PLAN NOTES

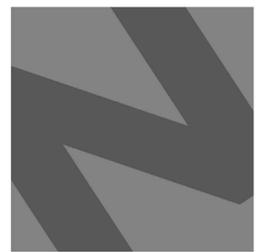
- DO NOT SCALE DRAWING.
- DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE STATE, CITY AND LOCAL CODES AND ORDINANCES AT THE LOCATION OF THE PROJECT.
- FIRE EXTINGUISHER(S) SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM STANDARDS OF NFPA-10. PLACEMENT IS SUBJECT TO LOCAL CODE. THE APPROVAL OF THE GOVERNING AUTHORITY. PROVIDE FIRE EXTINGUISHER PLACARDS ON COLUMNS. PEEL AND STICK NOT PERMITTED.
- WHERE EXISTING CONDITIONS ARE CUT OR DISTURBED TO PERMIT INSTALLATION OF NEW WORK, MATCH AND PATCH EXISTING DISTURBED CONSTRUCTION TO ORIGINAL CONDITION.
- DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR (G.C.) PRIOR TO CONSTRUCTION OR ORDER OF MATERIALS. ANY REVISIONS, CHANGES, DEVIATIONS OR INCONSISTENCIES BETWEEN THE AS-BUILT CONDITIONS AND THESE DRAWINGS SHALL IMMEDIATELY BE REPORTED TO THE OWNER BEFORE CONSTRUCTION.
- G.C. TO COORDINATE OPENING REQUIREMENTS WITH THE ROUGH OPENING SIZES. MAINTAIN 4" MINIMUM CLEAR CORRIDOR WIDTH LEADING TO ANY SPACE OR ROOM WITH AN OCCUPANT LOAD OF TEN (10) OR MORE.
- FOR TYPICAL ACCESSIBLE ROUTES, SEE ACCESSIBILITY DETAIL SHEET A001
- FOR ACCESSIBLE REACH RANGE GUIDELINES, SEE ACCESSIBILITY DETAIL SHEET A001
- FOR PROTRUDING, OVERHANGING OBJECT GUIDELINES, SEE ACCESSIBILITY DETAIL SHEET A001
- G.C. SHALL CLEAN AND MAINTAIN THE EXISTING SUPPLY AIR DIFFUSERS.
- G.C. TO CLEAN AND SERVICE THE EXISTING HVAC EQUIPMENT INCLUDING ROOF-MOUNTED AIR HANDLING UNIT AND TOILET EXHAUST FAN INCLUDING: CLEANING EXHAUST FAN; CLEANING COILS; REPLACING BELTS; CLEANING CONDENSATE PAN.
- G.C. TO PROVIDE SUFFICIENT BACKING/SUPPORT FOR ANY WALL MOUNTED EQUIPMENT PER MANUFACTURER RECOMMENDATION.
- G.C. TO CONSULT A STRUCTURAL ENGINEER TO PROVIDE ANY REQUIRED STRUCTURAL REINFORCEMENT OR MEMBERS TO SUPPORT ANY EQUIPMENT REQUESTED BY THE OWNER.
- ALL CEILING HEIGHTS ARE APPROXIMATE FOR REFERENCE.

# FINISH NOTES

- INTERIOR FINISH MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
- ALL INTERIOR FINISH MATERIALS TO COMPLY WITH CGC SECTIONS 5.504.4.1 THROUGH 5.504.4.6.
- ALL FINISHES SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THEIR USE, AS REQUIRED BY LOCAL CODES.
- TAPE, BED, FLOAT & SAND GYP BD JOINTS. FINISH TO A LITE ROLLED TEXTURE AT ALL PAINTED AREAS. PAINT (1) COAT OF PRIMER AND (2) COATS OF COLOR, AS PER PAINT MFR. RECOMMENDATION.
- G.C. SHALL PROVIDE WOOD BACKING FOR ALL WALL MOUNTED / RECESSED ITEMS (U.N.O.). ANY AND ALL WOOD USED WITHIN WALLS OR ABOVE FINISH CEILINGS SHALL BE FIRE-RETARDANT TREATED WOOD.
- G.C. SHALL PREP AND MAKE SMOOTH EXISTING FLOOR PRIOR TO NEW FLOOR FINISH INSTALLATION.
- ALL HOLLOW METAL DOORS AND FRAMES (U.N.O.), SHALL BE PRIMED & PAINTED.
- CHANGES IN LEVEL UP TO 1/4" BETWEEN DIFFERENT FLOOR FINISHES CAN BE MADE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL OF 1/4" - 1/2" SHALL BE MADE WITH A BEVELED TRANSITION OR OTHER MATERIAL WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP. CONFIRM FINISH OF TRANSITION STRIP MATERIAL WITH OWNER. SEE THRESHOLD DETAIL 1/A801.
- CONTRACTOR & MILLWORK SUBCONTRACTOR SHALL HAND SELECT WOOD & WOOD TRIM TO ENSURE MATERIAL IS FREE FROM KNOTS, WARP, CRACKS, GOUGES, SPLITS AND, IN GENERAL, IS OF EXCELLENT VISUAL QUALITY. INSTALL MATERIAL OF THE LONGEST PRACTICAL LENGTHS & SIZES TO MINIMIZE THE NUMBER OF JOINTS.
- G.C. SHALL PLACE ORDERS FOR ALL FINISHES, MATERIALS, EQUIPMENT, ETC. AT THE START OF THE PROJECT. SUBSTITUTIONS ARE NOT ACCEPTED FOR ANY ITEMS, UNLESS NOTED OTHERWISE. OWNER AND ARCHITECT MUST BE INFORMED OF LEAD TIME PROBLEMS WITHIN THE FIRST TWO WEEKS OF PROJECT.
- G.C SHALL PROVIDE SERVICES FOR FINAL CLEAN UP, PRIOR TO TURNING SPACE OVER. TO INCLUDE, MOPPING AND BROOM CLEAN UP.

# LEGEND

- LEASE LINE
- (X) EXISTING DOOR. SEE SCHEDULE.
- XXX ROOM DESIGNATION.
- EXISTING STOREFRONT.
- EXISTING WALL TO REMAIN.
- INFILL WALL AT OPENING
- EXISTING ILLUMINATED EXIT SIGN
- FIRE EXTINGUISHER
- EXISTING CEILING HEIGHT ABOVE FINISH FLOOR.
- EXISTING LIGHT FIXTURE
- EXISTING TOILET EXHAUST FAN
- EXISTING A/C SUPPLY DIFFUSER
- A/C RETURN GRILLE



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CLIENT:

**5:17 TOTAL BODY TRANSFORMATIONS**

471 E CAMPBELL AVE  
CAMPBELL, CA 95008

PROJECT:

**5:17 TOTAL BODY TRANSFORMATIONS TENANT IMPROVEMENT**

C-JH-GYM-001

#	DESCRIPTION	DATE
0	PLAN CHECK SUBMITTAL	07/02/2018
△	P.C. CORRECTIONS	08/06/2018

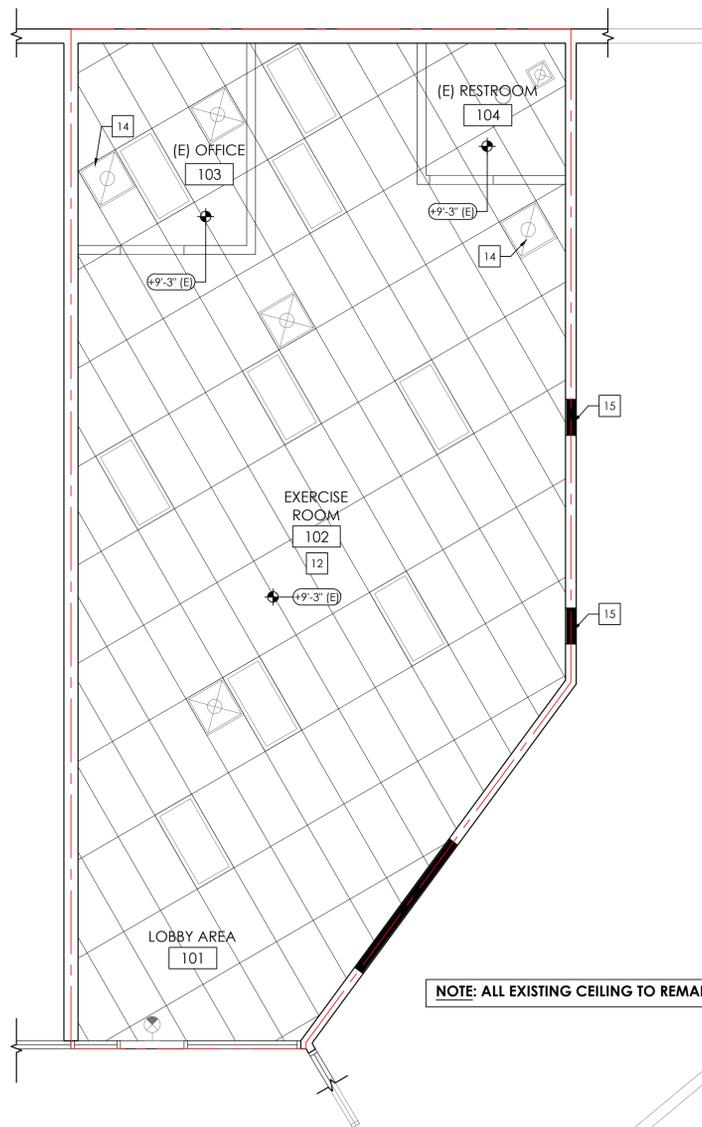
SHEET TITLE:

**FLOOR PLAN, REFLECTED CEILING PLAN & SCHEDULES**

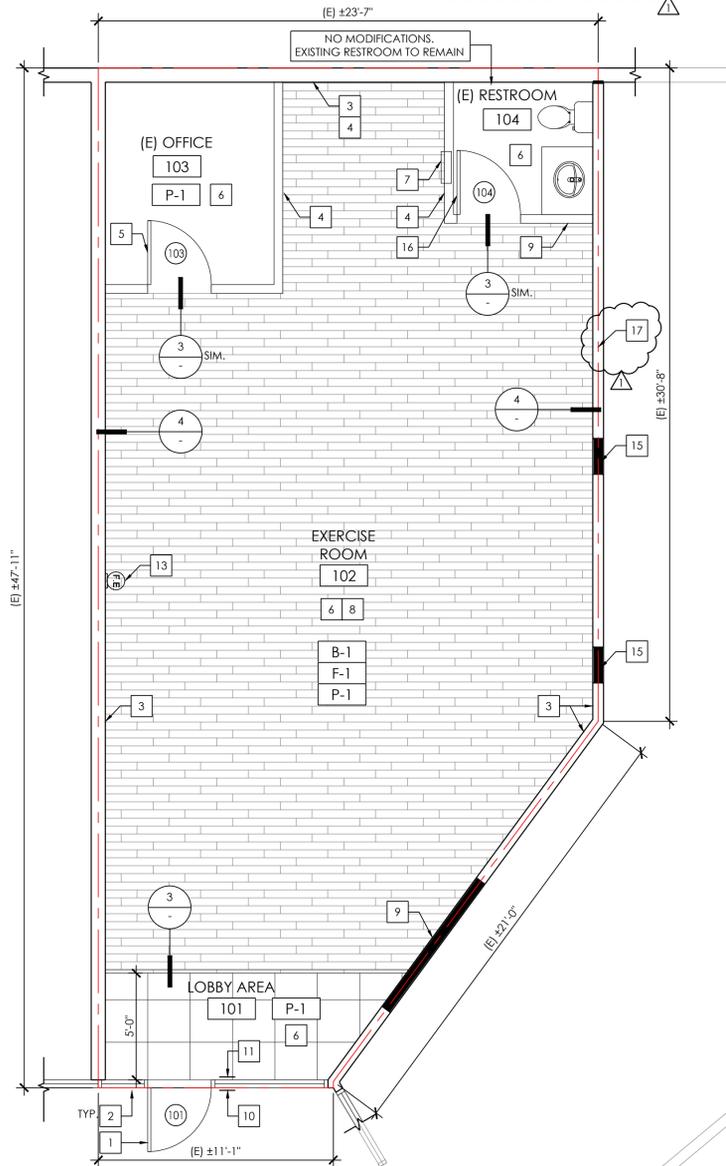
SHEET NO:

**A201**

PLAN CHECK CORRECTIONS | 08/06/2018

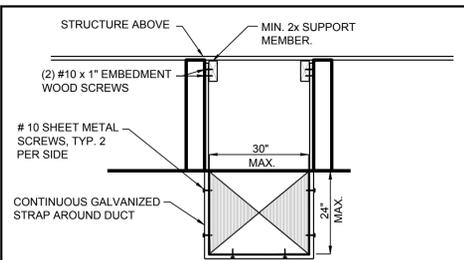


REFLECTED CEILING PLAN SCALE 1/4" = 1'-0" 2



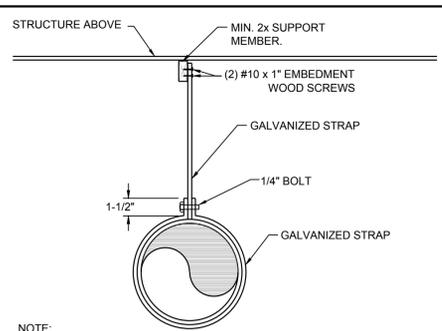
FLOOR PLAN SCALE 1/4" = 1'-0" 1





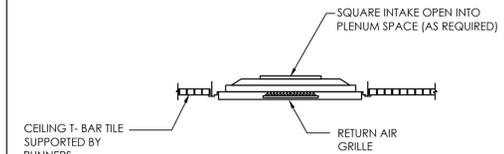
- NOTE:
1. PROVIDE SUPPORTS AT 10' ON CENTER FOR BOTH HORIZONTAL AND VERTICAL DUCTWORK, WITHIN 2 FT. OF EACH ELBOW, AND WITHIN 4 FT. OF EACH BRANCH INTERSECTION.
  2. PROVIDE 1" x 22 GA. STRAP FOR MAX. 18" x 12", 14" x 14" DUCTS.
  3. PROVIDE 1" x 18 GA. STRAP FOR MAX. 30" x 24" DUCT.
  4. REFER TO SEPARATE DETAILS FOR GREASE DUCT SUPPORTS
  5. PROVIDE 1" x 18 GA. STRAP FOR VERTICAL PLENUMS, MAX 30"x24" DUCT.

TYPICAL RECTANGULAR DUCT SUPPORT

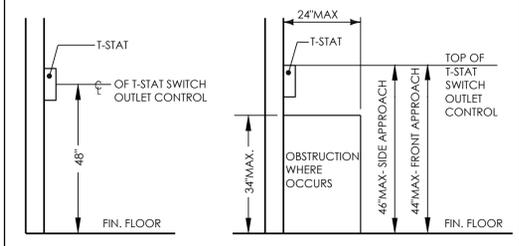


- NOTE:
1. PROVIDE SUPPORT AT 10' ON CENTER, WITHIN 2 FT. OF EACH ELBOW, AND WITHIN 4 FT. OF EACH BRANCH INTERSECTION.
  2. PROVIDE 1" x 22 GA. STRAP FOR MAX. 22" Ø DUCTS.
  3. PROVIDE 1" x 20 GA. STRAP FOR MAX. 30" Ø DUCT.
  4. REFER TO SEPARATE DETAILS FOR GREASE DUCT SUPPORTS.

TYPICAL ROUND DUCT SUPPORT



NOTE:  
INSTALLATION SIMILAR FOR GYP. BOARD CEILING



PLAN NOTES

1. EXISTING DUCT AND GRILLES IN TENANT SPACE TO REMAIN, ALL OTHER CONNECTIONS TO EXISTING ROOFTOP UNIT TO BE DISCONNECTED AND REMOVED.
2. EXISTING ROOFTOP UNIT TO BE REUSED, ENSURE OUTSIDE AIR IS SET TO 3000 CFM.
3. CONTRACTOR TO VERIFY CONDITION OF SMOKE DETECTOR AND REPLACE IF NEEDED.
4. ALL PLUMBING/ELECTRICAL DESIGN TO REMAIN UNCHANGED.
5. CHECK AND PROVIDE NECESSARY MAINTENANCE TO EXISTING ROOFTOP UNITS. MAINTENANCE TO INCLUDE AND NOT BE LIMITED TO THE FOLLOWING:
  - REPLACE FILTERS
  - REPLACE BLOWER BELT
  - WASH COND. COIL
  - WASH EVAP. COIL
  - FLUSH CONDENSATE DRAIN LINE.

DUCT SUPPORT AND ANCHORAGE DETAIL

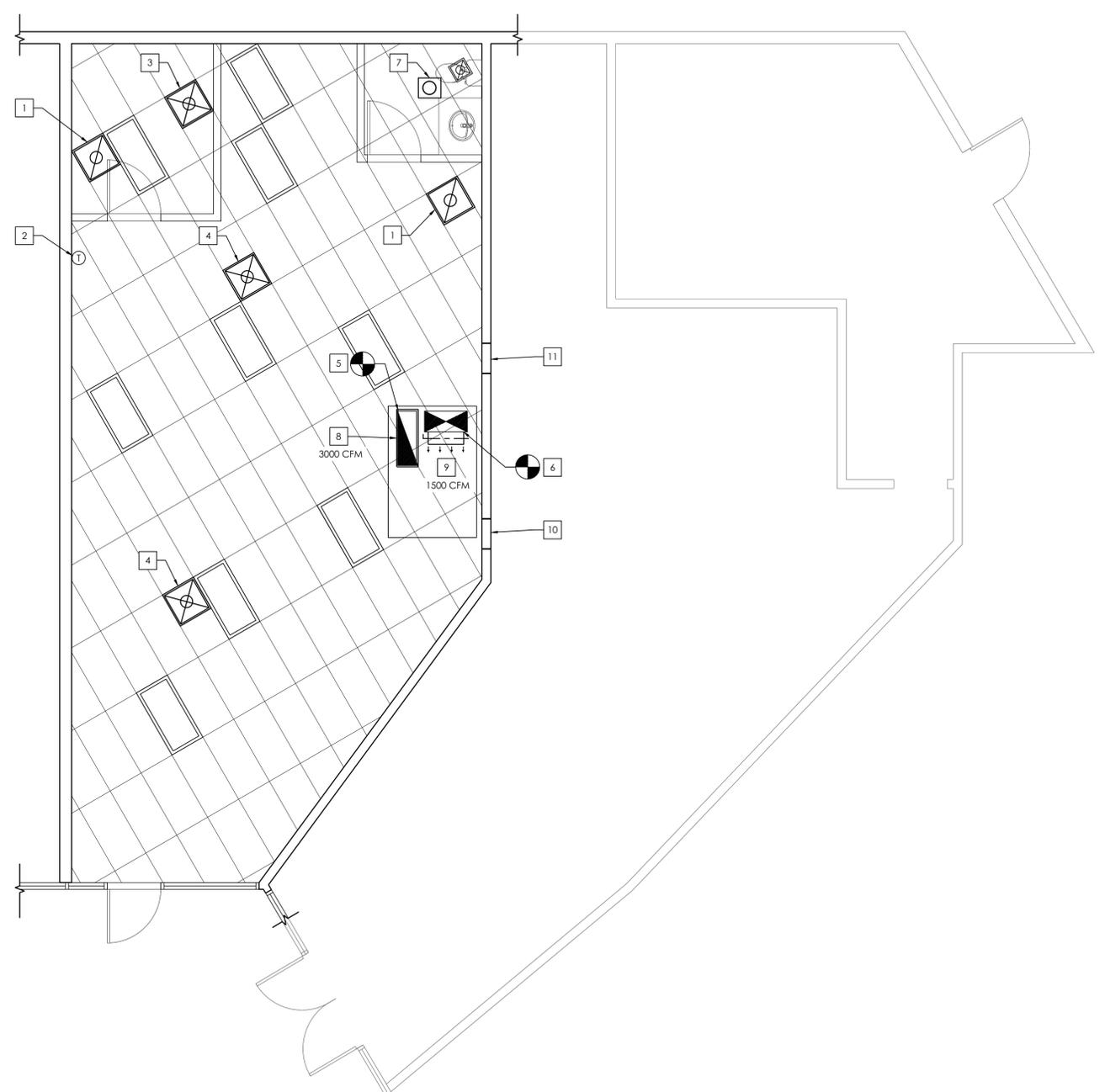
SCALE  
N.T.S. 4

RETURN AIR GRILLE DETAIL

SCALE  
N.T.S. 3

THERMOSTAT MOUNTING HEIGHT

SCALE  
NOT TO SCALE 2



MECHANICAL FLOOR PLAN

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

KEYED NOTES

1. PLACE NEW 24"x24" RETURN AIR GRILLE, TITUS 50F OR EQUAL, IN CEILING AT THIS LOCATION. SEE DETAIL #3.
2. PROGRAMMABLE THERMOSTAT, VERIFY EXACT LOCATION WITH OWNER PRIOR TO START OF WORK. FOR MOUNTING, SEE DETAIL #2.
3. EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK TO REMAIN, ADJUST TO 100 CFM.
4. EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK TO REMAIN, ADJUST TO 700 CFM.
5. POINT OF CONNECTION AT EXISTING RETURN AIR DUCT PLENUM.
6. POINT OF CONNECTION AT EXISTING SUPPLY AIR DUCT PLENUM.
7. COMPLETELY ENCLOSE EXISTING TOILET EXHAUST DUCT WITH 1 HOUR FIRE RATED GYP. ENCLOSURE TO SEPARATE POSITIVE PRESSURE TOILET EXHAUST FROM RA PLENUM.
8. RETURN AIR INTAKE WITH 1/2" x 1/2" WELDED WIRE SCREEN OVER INLET AT BOTTOM OF EXISTING RA DUCT. SET OUTDOOR AIR TO 3000 CFM.
9. 24"x12" SUPPLY AIR STUB WITH MANUAL DAMPER, ADJUST TO RELEASE 1500 CFM.
10. REMOVE EXISTING HORIZONTAL RA DUCT FROM SPACE TO DEMISING WALL AND PROVIDE FIRE RATED GYP. PATCH TO MATCH ADJACENT CONSTRUCTION. VERIFY LOCATION IN FIELD.
11. REMOVE EXISTING HORIZONTAL SA DUCT SERVING ADJACENT SPACE AND CAP DUCT AIR-TIGHT. PROVIDE FIRE RATED GYP. PATCH TO MATCH ADJACENT CONSTRUCTION. VERIFY LOCATION IN FIELD.

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0	PLAN CHECK SUBMITTAL	07/02/2018
△	P.C. CORRECTIONS	08/06/2018

SHEET TITLE:

MECHANICAL FLOOR PLAN AND DETAILS

SHEET NO:

M100

PLAN CHECK CORRECTIONS | 08/06/2018