

ARCHITECTURAL SPECIFICATIONS:

SECTION 03300 CAST-IN-PLACE CONCRETE

QUALITY ASSURANCE
A. ALL CONCRETE SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING REFERENCES WHICH ARE HEREBY INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS:

- BUILDING CODE OF THE CITY AND STATE IN WHICH THIS DEVELOPMENT IS LOCATED.
- AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.
- AMERICAN CONCRETE INSTITUTE (ACI) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301.
- AMERICAN CONCRETE INSTITUTE (ACI) "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" ACI 302.
- AMERICAN CONCRETE INSTITUTE (ACI) "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING", ACI 308R.
- AMERICAN CONCRETE INSTITUTE (ACI) "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING", ACI 305R.
- AMERICAN CONCRETE INSTITUTE (ACI) "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE", ACI 304.
- AMERICAN CONCRETE INSTITUTE (ACI) "STANDARD PRACTICE FOR CURING CONCRETE", ACI 308.
- AMERICAN CONCRETE INSTITUTE (ACI) "RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL, HEAVYWEIGHT AND MASS CONCRETE", ACI 211.1.
- USE THESE SPECIFICATIONS IN CONNECTION WITH STRUCTURAL DRAWINGS SPECIFICATIONS.

PRODUCTS

MATERIALS
A. CEMENT SHALL BE GRAY PORTLAND CEMENT, TYPE 1, OR 1A, CONFORMING TO ASTM C-150, OR OTHER TYPES IF REQUIRED BY THE SOILS ENGINEER. USE SAME BRAND FOR ALL EXPOSED WORK.
B. WATER SHALL BE POTABLE, CLEAN AND FREE FROM IMPURITIES AFFECTING THE STRENGTH OF THE CONCRETE, IN ACCORDANCE WITH ACI AND ASTM REQUIREMENTS.

C. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. FINE AND COARSE AGGREGATES SHALL BE REGARDED AS SEPARATE INGREDIENTS AND EACH SHALL CONFORM TO THE APPROPRIATE GRADING REQUIREMENTS OF ASTM C-33.

ADMIXTURES

A. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C-260.
B. CHEMICAL ADMIXTURES CONFORMING TO ASTM C-494 USED TO RETARD OR ACCELERATE SETTING, REDUCE WATER RATIO OR PREVENT FREEZING SHALL NOT BE USED WITHOUT PRIOR APPROVAL. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE MAY BE USED.

C. FLY ASH SHALL BE A CALCINATED POZZOLAN AND SHALL CONFORM TO ASTM C-618, CLASS C OR F.
1. FLY ASH MAY BE USED TO REPLACE 25% PORTLAND CEMENT BY WEIGHT MAXIMUM.

ACCESSORIES

A. NON-SHRINK GROUT SHALL BE PREMIXED, NON-METALLIC, NON-STAINING TYPE.
B. PREFORMED EXPANSION JOINTS SHALL BE 1/2" THICK ASPHALT IMPREGNATED CANE FIBER EXPANSION JOINTS, CONFORMING TO ASTM D-1751.

C. BOND BREAKER SHALL BE NO. 15 ASPHALT SATURATED PLAIN ORGANIC FELT CONFORMING TO ASTM D-228.

D. EXPANSION JOINT SEALANT SHALL BE TRAFFIC GRADE, SELF LEVELING. COLOR SHALL BE BLACK.
1. PRODUCT/MANUFACTURER, ONE OF THE FOLLOWING:
2. PRIMER SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER.

E. WATER BASED, ACRYLIC MEMBRANE, CURING COMPOUND SHALL BE CLEAR, CONFORMING TO ASTM C-309, MINIMUM SOLIDS - 18% AND SHALL BE COMPATIBLE WITH ADHESIVES, MASTICS, ETC. SCHEDULED FOR APPLICATION TO CONCRETE SURFACE.

F. CONCRETE SEALER SHALL BE COLORLESS, ODORLESS, DEEP PENETRATING, DUST PROOF, VOC COMPLIANT MATERIAL.

G. CONSTRUCTION AND CONTROL JOINT FILLER SHALL BE A SEMI-RIGID EPOXY WITH A SHORE "A" HARDNESS OF 80+.

CONCRETE MIX

A. MIX CONCRETE IN ACCORDANCE WITH ACI 304. DELIVER CONCRETE IN ACCORDANCE WITH ADTM C-94.

B. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE CONSISTING OF A PROPORTIONED MIXTURE OF PORTLAND CEMENT, FINE AND COARSE AGGREGATE AND WATER.
1. CONCRETE PROPORTIONS SHALL BE SELECTED ON THE BASIS OF TRIAL MIXES CONFORMING TO ACI 211.1.
2. CONCRETE SHALL BE SO PROPORTIONED TO PROVIDE A WATER/CEMENT RATIO BETWEEN 0.45 AND 0.50. IN NO CASE SHALL THE WATER/CEMENT RATIO EXCEED 0.50.

C. ALL CONCRETE UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MIX DESIGN SHALL BE SO PROPORTIONED TO CONTAIN A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD.
1. 1500 PSI CONCRETE MAY BE USED FOR FILL. MIX DESIGN SHALL BE SO PROPORTIONED TO CONTAIN A MINIMUM OF 375 POUNDS OF CEMENT PER CUBIC YARD.
2. FLY ASH CONFORMING TO ASTM C-618 MAY BE SUBSTITUTED FOR UP TO 25% BY WEIGHT OF PORTLAND CEMENT.

D. ALL CONCRETE UNLESS OTHERWISE NOTED, SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4" TO 4 1/2". TOLERANCE IN SLUMP SHALL NOT EXCEED ACI RECOMMENDATIONS.
1. SLUMP FOR CONCRETE FILL MAY BE MAXIMUM.

E. ALL EXTERIOR CONCRETE, BUILDING FOUNDATIONS, PIERS AND FOUNDATION WALLS SHALL BE AIR-ENTRAINED, AIR CONTENT SHALL BE 6%+1%.

F. CHEMICAL ADMIXTURES USED TO RETARD OR ACCELERATE SETTING, REDUCE WATER/CEMENT RATIO OR PREVENT FREEZING SHALL NOT BE USED WITHOUT PRIOR APPROVAL.

G. NO ADMIXTURE CONTAINING CALCIUM CHLORIDE MAY BE USED.

H. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE FOLLOWING AND SHALL NOT EXCEED TOLERANCES ON OVERSIZE AS PER ASTM C-33.

1. SLABS ON GROUND 3/4" - 1"

EXECUTION

EXAMINATION
A. VERIFY ALL SITE CONDITIONS, FORMWORK LINES AND LEVELS, POROUS FILL, SUBGRADE LEVELS, ETC., PRIOR TO POURING CONCRETE.

PREPARATION

A. PROTECT BOTTOM OF EXCAVATION FROM FROST. DO NOT PLACE FOUNDATIONS, FOOTINGS OR SLABS ON FROZEN GROUND. KEEP EXCAVATIONS FREE OF WATER.
1. PRIOR TO PLACING CONCRETE, WATER, ICE, SNOW, LOOSE EARTH AND DEBRIS SHALL BE REMOVED FROM THE EXCAVATION.

B. FILL ALL OVER EXCAVATION WITH CONCRETE FILL, IF DIRECTED BY THE GENERAL CONTRACTOR, TO ESTABLISHED ELEVATIONS.

C. MIXING AND CONVEYING EQUIPMENT SHALL HAVE HARDENED CONCRETE AND OTHER FOREIGN MATERIALS REMOVED FROM INNER SURFACES BEFORE BEGINNING A RUN OF CONCRETE.

D. SET AND ACCURATELY PLACE ALL FRAMES, SLEEVES, ROUGH HARDWARE, THRESHOLD ANCHORS, ANCHOR BOLTS, ETC., FURNISHED BY OTHER TRADES TO BE EMBEDDED OR ENCASED IN CONCRETE.

1. ANCHOR BOLTS AND LEVELING PLATES FOR STEEL COLUMNS SHALL BE SET IN ACCORDANCE WITH APPROVED ANCHOR BOLT SETTING SHOP DRAWINGS AND SETTING TEMPLATES. LEVELING PLATES ARE TO BE SET TO ELEVATIONS INDICATED. PROVIDE SLOPE NON-SHRINKING GROUT BED.

INSTALLATION

A. PLACEMENT - GENERAL
1. DELIVER AND PLACE CONCRETE IN ACCORDANCE WITH ACI-304 AND ASTM C-94.

2. CONCRETE SHALL BE HANDLED FROM THE MIXER TO THE PLACE OF FINAL DEPOSIT AS RAPIDLY AS PRACTICABLE, BY METHODS WHICH WILL PREVENT THE SEPARATION OR LOSS OF THE INGREDIENTS. IT SHALL BE DEPOSITED AS NEARLY AS POSSIBLE IN ITS FINAL POSITION TO AVOID REHANDLING.

3. CONCRETE DURING AND IMMEDIATELY AFTER DEPOSITING SHALL BE THOROUGHLY VIBRATED BY MEANS OF SUITABLE TOOLS. THE CONCRETE SHALL BE THOROUGHLY WORKED AROUND THE REINFORCEMENT AND INTO THE CORNERS OF THE FORMS.

4. UNLESS ADEQUATE PROTECTION IS PROVIDED CONCRETE SHALL NOT BE PLACED DURING RAIN, SLEET OR SNOW. PROTECT CONCRETE FROM RAIN WATER, MAINTAIN CONCRETE WATER RATIO AND PROTECT CONCRETE SURFACE.

5. ALL CONCRETE SHALL BE ADEQUATELY PROTECTED AFTER POURING TO PREVENT DAMAGE FROM FREEZING, BY THE USE OF SUITABLE COVERS AND ADEQUATE HEATING EQUIPMENT. FROZEN AND DAMAGED CONCRETE MUST BE REMOVED AND REPLACED AT THIS CONTRACTOR'S EXPENSE. DO NOT PLACE CONCRETE ON FROZEN EARTH.
6. UTILIZE COLD WEATHER AND/OR HOT WEATHER INSTALLATION PROCEDURES AND PROTECTION AS RECOMMENDED IN ACI 308R AND ACI 305R.

B. PLACEMENT - FLOOR SLABS

1. CONCRETE FLOOR SLABS ON GRADE SHALL NOT BE POURED UNTIL ALL UNDER FLOOR CONSTRUCTION, INCLUDING MECHANICAL AND ELECTRICAL LINES ARE INSTALLED COMPLETE, BACKFILLED, INSPECTED AND APPROVED.

2. CONSTRUCTION JOINTS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE FORMED AT THE END OF EACH DAY'S POUR.

3. CONTROL JOINTS SHALL BE PLACED THROUGHOUT THE ENTIRE CONCRETE FLOOR SLAB.

4. ALIGNMENT OF CONTROL JOINTS MUST BE STRAIGHT.

5. SAW CUTTING MUST BE DONE AS SOON AS THE CONCRETE IS SET ENOUGH THAT THE CUTTING OPERATION DOES NOT DISTURB THE SURFACE MATRIX OF THE CONCRETE.
6. ALL SAW CUT JOINTS WITHIN THE SALES FLOOR SLAB TO BE COVERED WITH VINYL TILE SHALL NOT BE FILLED.

7. SAW CUTS SHALL BE 1/8" WIDE X 1" DEEP.
8. FURNISH AND INSTALL NO. 15 FELT BOND BREAKER FULL DEPTH OF SLAB WHERE SLABS ABUT VERTICAL SURFACE AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
9. SHAPE SLABS TO THE SLOPES AND ELEVATIONS INDICATED, AND ACCURATELY PITCH OR GRADE TO THE DRAINAGE FITTINGS, EQUIPMENT AND FIXTURES OCCURRING THEREIN.

C. PLACEMENT EXTERIOR CONCRETE

1. EXTERIOR SIDEWALKS, SLABS, APRONS, CURBS, COMBINATION CURB AND GUTTER, PADS, RAMPS, APPROACHES, ETC., CONNECTED TO OR ABUTTING BUILDINGS SHALL BE POURED TO SLOPES, ELEVATIONS AND PROFILES INDICATED ON DRAWINGS AND ACCURATELY PITCHED TO DRAINAGE FITTINGS OCCURRING THEREIN.

2. FURNISH AND INSTALL EXPANSION JOINTS WHERE EXTERIOR SLABS, PAVEMENTS, SIDEWALKS, ETC. ABUT VERTICAL SURFACES AND AT EVERY FEET (60") MAXIMUM ON CENTER UNLESS OTHERWISE INDICATED. JOINTS SHALL BE EQUALLY SPACED IN A REGULAR PATTERN ALONG SIDEWALK OR WITHIN ANY GIVEN SLAB. EXPANSION JOINTS IN CURB SHALL ALIGN WITH SIDEWALK AND SLAB JOINTS.

A. EXPANSION JOINTS SHALL BE 1/2" THICK, FULL DEPTH OF SLAB. SET FILL APPROXIMATELY 1" BELOW FINISHED SURFACE AND FILL WITH NON-TRAPPING RUBBER OR ELASTOMERIC SEALANT.
3. CONTROL JOINTS SHALL BE 1/8" - 1/4" TOOLED OR FORMED. SAW CUT JOINTS WILL BE PERMITTED. DEPTH OF JOINTS SHALL BE 1/8 TO 1/4 OF SLAB THICKNESS.

CONTROL JOINTS IN SIDEWALKS SHALL BE SPACED AS INDICATED ON DRAWINGS. UNBROKEN CONCRETE AREA SHALL NOT BE LESS THAN 16 SQUARE FEET AND NO MORE THAN 36 SQUARE FEET.
B. SAW CUT JOINTS SHALL BE FILLED WITH A SELF-LEVELING SILICONE POLYMER SEALANT.

4. ALL EXPOSED EDGES OF EXPANSION AND CONTROL JOINTS, ETC., SHALL BE ROUNDED WITH A 1/4" RADIUS-EDGING TOOL.

A. SAW CUT CONTROL JOINTS SHALL BE FILLED WITH A SILICONE POLYMER SEALANT.

CONCRETE FINISHES

A. "DEFINITION" OF FINISH TYPES SHALL BE AS DEFINED IN SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS ACI 301.
B. ALL FLOORS SLABS SHALL BE FINISHED AS FOLLOWS:

1. EXTERIOR SLABS, SIDEWALKS, CURBS, RAMPS, AND PADS SHALL HAVE A "BROOM OR BELT FINISH".

SECTION 05400 COLD FORMED METAL FRAMING

PRODUCTS

METAL FRAMING

A. SYSTEM COMPONENTS
1. FURNISH MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO FURNISH A COMPLETE METAL FRAMING SYSTEM.

B. MATERIALS AND FINISHES

1. FABRICATE METAL FRAMING COMPONENTS OF CORROSION RESISTANT STRUCTURAL QUALITY STEEL SHEET. STEEL STUDS SHALL CONFORM TO ASTM A446, GRADE A, WITH A MINIMUM YIELD POINT OF 33KSI FOR 18 AND 20 GAUGE; GRADE D WITH A MINIMUM YIELD POINT OF 50 KSI FOR 12, 14 AND 16 GAUGE. UNLESS SHOWN SPECIFICALLY ON DRAWINGS, ALL 20 AND 18 GAUGE STUDS TO HAVE A MINIMUM OF 1-3/8" FLANGE, ALL 16 AND 14 GAUGE STUDS TO HAVE A MINIMUM OF 1-5/8" FLANGE, AND 12 GAUGE STUDS TO HAVE A MINIMUM OF A 2" FLANGE.

C. FURNISH GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A 525 AND C-955 FOR MINIMUM G80 COATING.

D. "C" - SHAPE STUDS SHALL BE: MANUFACTURER'S STANDARD LOAD-BEARING STEEL STUDS DESIGNED TO CARRY APPROPRIATE LOADS AND BE OF SIZE, AND SHAPE, INDICATED, WITH FLANGE RETURN LIP.

1. STUDS SHALL BE THE DEPTH AND SPACING AS INDICATED ON THE DRAWINGS.
2. STUDS AT EXTERIOR CANOPY FRAMING SHALL BE DESIGNED TO MEET LOCAL CODE LOAD REQUIREMENTS.
3. BRACE FRAMING DIAGONALLY IN ACCORDANCE WITH APPLICABLE STANDARDS WITHOUT REGARD FOR FACING MATERIALS, INCLUDING TENSION STRAPS BOTH DIRECTIONS. ANCHOR TO PREVENT UPLIFT AND BRACE BACK TO STRUCTURE.
4. FURNISH BRIDGING TO COMPLY WITH APPLICABLE STANDARDS AND MANUFACTURER'S PRODUCT DATA.

MANUFACTURERS

A. "C" SHAPED STUDS
1. DALE INDUSTRIES
2. DIETRICH
3. MARINOWARE
4. UNIMAST INCORPORATED

EXECUTION

INSTALLATION
A. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.

SECTION 07200 FINISH CARPENTRY

PRODUCTS
MATERIALS
A. DIMENSION AND BOARD LUMBER SHALL BE SOUTHERN YELLOW PINE. ALL LUMBER SHALL BE "SEASONED DRY" (S-DRY), 19% OR LESS MOISTURE CONTENT.
1. SPECIES OF LUMBER OTHER THAN THAT SPECIFIED MAY BE SUBSTITUTED PROVIDING ALTERNATE SPECIES CONFORMS IN ALL RESPECTS WITH MINIMUM DESIGN VALUES SPECIFIED.
A. EXTREME FIBER STRESS IN BENDING SHALL BE 1250 P.S.I. (FB) REPETITIVE (MINIMUM).
2. LUMBER GRADES SHALL BE AS FOLLOWS:
A. BEAMS AND STRINGERS (5" AND THICKER, WIDER MORE THAN 2" GREATER THAN THICKNESS) SHALL BE SOUTHERN YELLOW PINE, S4S, NO. 1 OR BETTER.
B. STRUCTURAL JOIST AND PLANKS (2" TO 4" THICK, 5" AND WIDER) SHALL BE SOUTHERN YELLOW PINE, S4S, NO. 2 OR BETTER.
C. STRUCTURAL LIGHT FRAMING (2" TO 4" THICK, 2" TO 4" WIDE) SHALL BE SOUTHERN YELLOW PINE, S4S, NO. 2 OR BETTER.
D. LIGHT FRAMING AND STUDS (2" TO 4" THICK, 2" TO 4" WIDE) SHALL BE SOUTHERN YELLOW PINE, S4S, CONSTRUCTION OR BETTER.
E. BOARDS SHALL BE SOUTHERN YELLOW PINE, S4S, STANDARD OR BETTER.

BETTER.
3. LUMBER USED IN CONSTRUCTION UNDER ROOFING, AT EAVES, ROOF CURBS, ETC. SHALL BE TREATED WITH WOOD PRESERVATIVE.
A. PLYWOOD GRADES SHALL BE AS FOLLOWS:
1. PLYWOOD WAINSCOT OR WALLS AND BACKUP SHALL BE INT-APA
2. PLYWOOD WALLS (UNFINISHED AREAS) SHALL BE B-D INT-APA OR APA RATED SHEATHING, EXPOSURE 2.
3. PLYWOOD FLOORING SHALL BE 3/4", APA RATED STURD-1-FLOOR 24" O.C., EXPOSURE 2, T&G
4. PLYWOOD WALL SHEATHING SHALL BE C-D INT-APA WITH EXTERIOR GLUE.
5. SEE DRAWINGS FOR THE ABOVE PLYWOOD LOCATIONS AND THICKNESS.

B. JOIST HANGERS SHALL BE GALVANIZED

C. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A-307.
1. EXPANSION BOLTS, SLEEVE ANCHORS, OR EPOXY ANCHORS (WITH OR WITHOUT SCREEN TUBES DEPENDING ON APPLICATION) MAY BE UTILIZED FOR ATTACHING WOOD LEDGERS TO MASONRY PROVIDED THEY ARE CODE APPROVED WITH A CAPACITY IN EXCESS OF THAT REQUIRED.

MANUFACTURERS
A. JOIST HANGERS
1. SIMPSON COMPANY, SAN LEANDRO, CA "STRONG-TIE GALVANIZED"

B. ANCHOR BOLTS
1. HILTI CORP., TULSA, OK
2. RAMSET/REDHEAD, WOOD DALE, IL.

SECTION 06200 FINISH CARPENTRY

PRODUCTS

MATERIALS

A. DIMENSION AND BOARD LUMBER SHALL BE DOUGLAS FIR OR POPLAR. MAXIMUM ALLOWABLE MOISTURE CONTENT SHALL BE 12%.
1. APPEARANCE FRAMING (2" TO 4" THICK, 2" AND WIDER) SHALL BE DOUGLAS FIR, S4S, NO. 1/APPEARANCE.
2. BOARDS (1" THICK, 2" AND WIDER) SHALL BE DOUGLAS FIR OR POPLAR, S4S, SUPERIOR OR BETTER.

B. PLYWOOD SHELVING, COUNTER TOPS, ETC., SHALL BE 1/2" AND 3/4" GROUP 1 APA A-B, INTERIOR.

C. HARDWOOD NOSING AND TRIM SHALL BE NATURAL BIRCH OR POPLAR.

D. PREFINISHED PANELING SHALL BE 4'-0" X 8'-0" AND 9'-0" THICK FIBERGLASS REINFORCED PLASTIC (FRP) PANELS.
1. PANELS SHALL BE TEXTURED ON ONE (1) SIDE.
2. ADHESIVES SHALL BE AS RECOMMENDED BY PANEL MANUFACTURER.

E. MISCELLANEOUS HARDWARE ANCHORS, BRACKETS, FASTENERS SHALL BE COMMERCIAL QUALITY TYPE SPECIFIED FOR INTENDED USE AND PURPOSE.

F. PLASTIC LAMINATE FOR COUNTERTOPS AND BACKSLASH SHALL BE STANDARD GRADE, 1/16" THICK. LAMINATING SHALL BE LAMINATED TO PLYWOOD BACKING.
ADHESIVE TO BE NEOPRENE BASED CONTACT BOND.

MANUFACTURERS
A. FIBERGLASS REINFORCED PLASTIC PANELS (FRP)
1. MARBITE
2. KENITE (SEQUENTIA STRUCTOGLAS)

EXECUTION
A. ASSEMBLE AND FINISH MATERIAL AT THE MILL AS FAR AS FEASIBLE. MAKE ACCURATE AND TIGHT JOINTS, MITER CORNERS. USE SCREWS AND BOLTS AS REQUIRED FOR STRENGTH AND RIGIDITY AND AS INDICATED ON DRAWINGS.

B. EDGES OF PLYWOOD AND HARDWOOD TRIM (I.E. DIVIDERS, FRONTS, ETC.) SHALL BE EASED.

FINISHES
A. FIBERGLASS REINFORCED PLASTIC (FRP) PANELS.
1. COLOR: SEE FINISH SCHEDULES

B. EDGES OF PLYWOOD AND HARDWOOD TRIM (I.E. DIVIDERS, FRONTS, ETC.) SHALL BE EASED.

FINISHES
A. FIBERGLASS REINFORCED PLASTIC (FRP) PANELS.
1. COLOR: SEE FINISH SCHEDULES

SECTION 07213 BATT INSULATION

PRODUCTS

MATERIALS

A. WALL INSULATION
1. BATT INSULATION SHALL BE 3-1/2" MINIMUM THICKNESS. "R" VALUE = 19, COMPOSED OF SPUN MINERAL FIBERS OR GLASS FIBER WRAPPED ONE SIDE WITH A FLAME RESISTANT KRAFT FACING VAPOR BARRIER. BATT INSULATION SHALL CONFORM TO ASTM C685

AND ASTM E84. WIDTH OF BATT INSULATION SHALL BE SIZED TO FIT STUD SPACING.
2. SOUND ATTENUATION INSULATION SHALL BE BATT TYPE, UNFACED, GLASS FIBER OR MINERAL FIBER, 3-1/2" THICK AND SHALL CONFORM TO ASTM C685 AND ASTM E84.

MANUFACTURERS
A. WALL INSULATION
1. OWENS CORNING
2. JOHNS MANVILLE

INSTALLATION

A. WALL INSULATION
1. SECURE WALL INSULATION TO WOOD AND STEEL FRAMING. EXERCISE CAUTION TO PREVENT TEARS OR GAPS IN THE VAPOR BARRIER. INSTALL WITH VAPOR BARRIER TO THE INSIDE, LAP FLANGES FOR EFFECTIVE SEAL.
2. PACK LOOSE INSULATION IN NARROW SPACES WHERE FASTENERS CANNOT BE INSTALLED, TO INSURE COMPLETE INSULATION FROM THE EXTERIOR.

B. SOUND ATTENUATION BATTS
1. INSTALL IN PARTITIONS AND OVER CEILINGS, AS INDICATED ON THE DRAWINGS.
2. FRICTION FIT BATTS INTO STUD SPACES AND SECURE AS REQUIRED.
CUT AND FIT AROUND ALL OUTLETS, JUNCTION BOXES, ETC.

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REVISIONS	
NO.	DATE

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Project No: 1923
Scale:
Date Drawn:
Sheet Title
GENERAL SPECIFICATIONS

NOTE: SPECIFICATIONS ARE NOT APPLICABLE TO ALL PROJECTS. USE SPECIFICATIONS AS REQUIRED AND IN CONJUNCTION WITH OTHER DISCIPLINE SPECIFICATIONS.