

PROJECT MANUAL

Renovations to First Baptist Church on the Square

Project 0714
LaGrange, Georgia

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PART 1-SECTION A-INVITATION TO BID

Sealed proposals from invited general contractors will be received by First Baptist Church on the Square, in the Board Room of Smith Design Group, Inc., LaGrange, Georgia, until 2:00 pm at the time prevailing in LaGrange, Georgia on January 15, 2008 for the Renovation for First Baptist Church in the Pre-School wing area The Owner and Architect will review bids and notify successful contractor within 7 days.

Drawings and Specifications are open to public inspection at www.smithdesigngroup.net.

Copies of the Drawings may be obtained from Smith Design Group, 307 Church Street, LaGrange, Georgia, upon receipt of the following amounts:

Plans and Specifications.....\$150.00
Refundable to \$75.00

Upon receipt of all documents in undamaged conditions within thirty (30) days after the date of opening of bids, one-half of the deposit will be refunded.

The difference between the deposit and the amount refunded represents the cost of reproduction. No refund will be made for documents received after thirty (30) days or in damaged condition.

The contract, if awarded, will be on a lump sum basis. No bid may be withdrawn for a period of 45 days after time has been called on the date of the opening. Bids must be accompanied by a Bid Bond in an amount not less than 5% of the total sum. Both a Performance Bond and a Payment Bond will be required in the amount equal to 100% of the contract price.

The project is to be substantially complete within 120 consecutive calendar days.

Criteria for judging completion of the project shall be the sole responsibility of the Architect.

The Owner reserves the right to reject any or all bids and to waive technicalities and informalities.

Anticipated construction start date is February 15, 2008

RENOVATIONS FOR FIRST BAPTIST CHURCH ON THE SQUARE

BY: _____
Anthony Criswell

SECTION B - PROPOSAL FORM

Date: _____

RENOVATION FOR FIRST BAPTIST CHURCH ON THE SQUARE
100 BROAD STREET
LAGRANGE, GEORGIA

PROJECT NO. 0714

Gentlemen:

B-01 Having carefully examined the Project Manual entitled, "RENOVATION FOR FIRST BAPTIST CHURCH ON THE SQUARE", located at 100 Broad Street in LaGrange, Georgia and the Drawings similarly entitled, and numbered

_____, and all dated 21 Dec 2007 and Addendum(a) No.(s) _____

as well as the premises and conditions affecting the work, the undersigned proposes to furnish all services, labor, and material called for by them for the entire work in accordance with said document for the TOTAL SUM OF

_____ DOLLARS (\$ _____),

B-02 The undersigned further proposes that, should any of the following alternatives be accepted and be incorporated in the Contract, the TOTAL SUM will be altered in each case as follows:

2.1 Deductive Alternatives: No Items Included.

2.2 Additive Alternatives: No Items Included.

2.2.1. Additive Alternate No. 1

To sprinkler the existing chapel with NFPA 13 System

\$ _____

2.2.2. Additive Alternate No. 2

To install thin set ceramic tile floor and base in this space in lieu of resilient tile and resilient base

\$ _____

2.2.3. Additive Alternate No. 3

To install vinyl wall covering in lieu of paint in this space.

\$ _____

- B-03 For and in consideration of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, the undersigned agrees that this proposal may not be revoked, or withdrawn for a period of forty-five (45 days) from and including the date of the Bid Opening.
- B-04 The undersigned agrees to execute a contract (AIA Document, A101), no later than ten (10) days from and including date of notification of acceptance of this proposal in writing, by mail, telegraph, facsimile transmission, or delivery and at the same time to furnish and deliver to the Owner a Performance Bond and a Labor and Material Payment Bond (AIA Document A312), both in an amount equal to 100% of the Base Bid Sum.
- B-05 The undersigned agrees to commence actual physical work on the site with an adequate force and equipment within ten (10) days from and including a date to be specified in a written order of the Owner and be substantially complete within 120 consecutive calendar days with the work.
- B-06 Enclosed herewith is a Bid Bond (*) in an amount of _____

Dollars (\$_____) being not less than 5% of the BASE BID. The undersigned agrees that the above-stated amount is the proper measure of liquidated damages which the Owner will sustain by failure of the undersigned to execute the Contract and to furnish the Performance Bond and the Labor and Material Payment Bond in case this proposal is accepted and further agrees to the following:

*Certified or Cashier's Check not acceptable.

- B-07 If this proposal is accepted within forty-five (45) days from and including the date of the Bid Opening and the undersigned fails to execute the Contract within ten (10) days from and including date of notice of such acceptance, or, if he fails to furnish both Performance Bond and Labor and Material Payment Bond, the obligation of the Bid Bond will remain in full force and effect, and the money payable therefore shall be paid the Owner as liquidated damage for such failure; otherwise the obligation of the Bid Bond will be null and void.
- B-08 The owner reserves the right to review subcontractors with apparent low bidder and make changes in subcontractors prior to entering into a contract with reasonable adjustments to the contract amount if the owner's best interests are served.

Respectively submitted,

Name: _____

Address: _____

By: _____

Title: _____

The full names and addresses of persons and firms interested in the foregoing bids as principals are as follows:

The legal name of the Bidder is _____

HVAC Subcontractor _____

Plumbing Subcontractor _____

Electrical Subcontractor: _____

Drywall/Ceiling Subcontractor: _____

Floor Covering Subcontractor _____

Millwork Subcontractor: _____

Roofing Subcontractor: _____

Demolition Subcontractor: _____

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SECTION C - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

- C.1-01 The following Supplementary Instructions, Articles C.1-02 thru C.0-10 inclusively, modify, change, delete from or add to the "Instructions to Bidders", AIA Document A701, 1997 Edition, which is by reference made apart of this project manual.

Upon written request, the Architect will furnish any Bidder with a copy of the "Instructions to Bidder." Where any Article, Paragraph, Subparagraph or Clause of the Instructions to Bidders is modified, change, deleted from or added to, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.

C.1-02 ARTICLE 1 DEFINITIONS

1. In the ninth line of Paragraph 1.1 immediately following the word "Specifications" insert, "the Bidder's signed Proposal Form."
2. Add to Paragraph 1.3 the following:
Post-bid Addenda are written or graphic instruments issued by the Architect after receipt of Bids, but prior to the signing of the Form of Agreement Between the Owner and Contractor, which modify the Bidding Documents and may or may not increase or decrease the Base Bid.
3. Add to Paragraph 1.7 the following:
Unit prices are net. The term "net" as used in reference to unit prices means that the net prices offered by the Bidder is inclusive of all sums for payment, repayment, reimbursement, remittance, remuneration, compensation, profit, cost, overhead, expense, loss, expenditure, allowance, charge, demand, hire, wages, salary, tax, cash, assessment, price, money, bill, statement, dues, recovery, restitution, benefit, recoupment, exaction or injury.

C.1-03 ARTICLE 2 BIDDER'S REPRESENTATIONS

There are no modifications, changes, deletions from or additions to any Article, Paragraph, Subparagraph or Clause of Article 2 of the Instructions to Bidders.

C.1-04 ARTICLE 3 BIDDING DOCUMENTS

1. Beginning in the fourth line following the word "therein", of Subparagraph 3.1.1, delete the remainder of this Subparagraph and substitute the following therefor:

Deposits will be refunded fully or in part, as designated in the advertisement or Invitation to Bid.

2. Add to subparagraph 3.3.3 the following:
The Architect's approval of the substitutions shall not relieve any Contractor of the responsibility for any deviation from the requirements of the Contract documents, nor shall the Architect's approval relieve the Contractor from responsibility for substitution, that is to say, that should the Architect give approval for a substitution and it be found at anytime that the material or equipment is not equal to that specified or that the information furnished in the request for substitution was not accurate, the Architect may require the Contractor to furnish the specified material or equipment at no additional cost to the Owner.

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C.1-05 ARTICLE 4 BIDDING PROCEDURES

Add to Subparagraph 4.1.1. the following: Bids shall be submitted in triplicate.

C.1-06 ARTICLE 5 CONSIDERATIONS OF BIDS

1. Delete Subparagraph 5.3.2 in its entirety and substitute the following therefore:

5.3.2 Alternative or Alternative Bids are both deductive and additive and :

- a.) No Deductive Alternative or Alternative Bids will be taken unless the base bid exceeds the amount of money budgeted for the project prior to the opening of the bids, and if taken will be taken in numerical sequence to the extent necessary to reduce the cost to A sum which is not in excess of the amount budgeted if possible (Deductive Alternates or Alternatives will not be used to determine the Low Bidder) and
- b.) No Additive Alternate or Alternative Bids will be taken unless the base bid is less than the amount of money budgeted for the project prior to the opening of the bids, and if taken may be taken in any sequence as the Owner desires in order to increase the cost To a sum which is equal or as close to the amount budgeted as possible. The acceptance of additive Alternates or Alternative Bids will not be used to determine the Low Bidder.

C.1-07 ARTICLE 6 POST-BID INFORMATION

There are no modifications, changes, deletions from or additions to any Article, Paragraph, Subparagraph or Clause of Article 6 of the Instructions to Bidders.

C.1-08 ARTICLE 7 PERFORMANCE AND PAYMENT BOND

Delete Subparagraph 7.1.3 in its entirety and substitute the following therefore:

- 7.1.3 The bonds shall be written by companies listed in the current issue of "Federal Register" Department of the Treasury as companies having complied with the law and regulations of the Department of the Treasury and that the companies also have a current surety license in the State of Georgia. The cost of furnishing bonds meeting the above requirements shall be included in the Bid.

SECTION D - FORM OF CONTRACT

D-01 FORM TO BE USED

- 1.1 The Agreement for the work will be written on the Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, AIA Document A101, 1997 edition, with modifications.
- 1.2 Upon written request, the Architect will furnish any bidder with a copy of the form of Agreement with modifications. A copy of the modifications is included in Section I of this Project Manual.

END OF SECTION

D - 1*

SECTION E.1 - SUPPLEMENTARY GENERAL CONDITIONS

SUPPLEMENTARY CONDITIONS

The following supplements modify the “General Conditions of the Contract for Construction”, AIA Document A201, Fourteenth Edition, 1997. Where a portion of the “General Conditions” is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

E.1-01 ARTICLE I: GENERAL PROVISIONS

- 1.1.1 Delete the second sentence and substitute the following for the second sentence:
A modification is (1) a written amendment to the Contract signed by both parties or (2) a change order, and (3) a construction change directive.

E.1-02 ARTICLE 2: OWNER

- 2.2 Information and Services required of the Owner
Delete subparagraph 2.2.5 and substitute the following:
- 2.2.5 The Contractor will be furnished free of charge ten (10) copies of drawings and project manuals. Additional sets will be furnished at the cost of reproduction, postage and handling.

E.1-03 ARTICLE 3: CONTRACTOR

- 3.4 Labor and Materials
Add the following subparagraphs 3.4.3 and 3.4.4 to 3.4:
- 3.4.3 After the contract has been executed, the owner and architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications).
- 3.4.4 By making requests for substitutions based on subparagraph 3.4.3 above, the Contractor:
- .1 represents that the contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified;
 - .2 represents that the contractor will provide the same warranty for the substitution that the contractor would for the specified;
 - .3 certifies that the cost data presented is complete and includes all related costs under this contract except the Architect’s redesign costs, and waives all claims for additional costs related to the substitution which subsequently becomes apparent; and
 - .4 will coordinate the installation of the accepted substitute, making such changes as may be required for the work to be complete in all respects.
- 3.8 Allowances
- 3.8.2.3 Add the following to the end of Clause 3.8.2.3: “except when installation is specified as part of the allowance in the General Requirements (Division 1 of the Specification).”

Contractors Construction Schedules

Delete this paragraph in its entirety by deleting subparagraph 3.10.1, subparagraph 3.10.2, and subparagraph 3.10.3, and substitute the following: The contractor, within fifteen (15) days of commencing work, shall submit to the owner and architect for their information, the contractor's schedule for completing the work. The contractor's schedule shall be revised no less frequently than monthly and shall be revised to reflect conditions encountered from time to time and shall be related to the entire project. Each such revision shall be furnished to the owner and the architect.

The contractor shall continuously maintain at the site, for the benefit of the owner and architect, one record copy of this contract marked to record on a current basis changes, selections and modifications made during construction. Additionally, the contractor shall maintain at the site for the owner and architect the approved shop drawings, product data, samples and other similar required submittals. Additionally the contractor shall maintain a record of the project by maintaining a daily project record log and shall make these records available to the owner at its requests. Upon final completion of the work, all these record documents shall be delivered to the owner.

3.18 Indemnification

Delete this paragraph in its entirety by deleting subparagraph 3.18.1, subparagraph 3.18.2, and subparagraph 3.18.3 and substitute the following: To the fullest extent permitted by law, the contractor shall indemnify and hold harmless the owner, the architect, and the architect's consultants from and against liability, claims, damages, losses, and expenses including attorney's fees, arising out of or resulting from performance of the work, provided that such liability, claims, damage, loss or expense is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting there from, but only to the extent caused in whole or in part by negligent acts or omissions of contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such liability, claim, damage, loss or expense is caused in part by a party indemnified here under.

In claims against any person or entity indemnified under this paragraph by an employee of the contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this paragraph shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the contractor or a subcontractor under worker's compensation acts, disability benefits acts or other employee benefits acts.

E.1-04 ARTICLE 4: ADMINISTRATION OF THE CONTRACT

4.1 Architect

Delete subparagraph 4.1.4

4.2 Architect's Administration of Contract

4.2.8 Delete the words. "may authorize minor changes in the work as provided in paragraph 7.4".

Add the following subparagraph 4.2.14 to paragraph 4.2:

4.2.14 Architect shall have no authority to approve or accept materials or workmanship inferior to or not in conformance with that called for by contract documents.

4.3 Claims and Disputes.

Delete the words “arbitration or” from second and third sentences.

Delete the following subparagraphs:

4.3.3

4.3.4

4.3.5

4.3.7

4.3.8

4.3.8.1

4.3.8.2

and substitute the following:

Claims by the Contractor

All contractor claims shall be initiated by written notice and claim to the owner and architect. Such written notice and claim must be furnished within twenty-one days after occurrence of the event, or the first appearance of the condition, giving rise to the claim.

Pending final resolution of any claim of the contractor, the contractor shall diligently proceed with performance of this contract and the owner shall continue to make payments to the contractor in accordance with this contract. The resolution of any claim under this paragraph shall be reflected by a change order executed by the owner, the architect, and the contractor.

Claims for Additional Costs

If the contractor wishes to make claim for an increase in the contract price, as a condition precedent to any liability of the owner therefore, the contractor shall give the architect written notice of such claim within twenty-one days after the occurrence of the event, or the first appearance of the condition, giving rise to such claim. Such notice shall be given by the contractor before proceeding to execute any additional or changed work. The failure by the contractor to give such notice and to give such notice prior to executing the work shall constitute a waiver of any claim for additional compensation.

In connection with any claim by the contractor against the owner for compensation in excess of the contract price, any liability of the owner for the contractor’s costs shall be strictly limited to direct costs incurred by the contractor and shall in no event include indirect costs or consequential damages by the contractor. The owner shall not be liable to the contractor for claims of third parties, including subcontractors, unless and until liability of the contractor has been established therefore in a court of competent jurisdiction.

Claims for Additional Time

If the contractor is delayed in progressing any task which at the time of delay is then critical or which during the delay becomes critical, as the sole result of any act or neglect to act by the owner or someone acting in the owner’s behalf, or by changes ordered in the work, unusual delay in transportation, unusually adverse weather conditions not reasonable anticipatable, fire or any causes beyond the contractor’s control, then the date for achieving Substantial Completion of the Work shall be extended upon the written notice and claim of the contractor to the owner and the architect, for such reasonable time as the architect may determine. Any notice and claim for extension of time by the contractor shall be made not more than seven (7) days after the occurrence of the event or the first appearance of the condition giving rise to the claim and shall set forth in detail the contractor’s basis for requiring additional time in which to complete the project. In the event the delay to the contractor is a continuing one, only one notice and claim for additional time shall be necessary. If the contractor fails to make such claim as required in this paragraph, any claim for an extension of time shall be waived.

In the last sentence, delete the words “subparagraphs 4.3.7 or 4.3.8” and substitute “the supplementary conditions”.

4.3 Resolution of Claims and Disputes

4.4.4 Delete the words “but subject to arbitration” from the first sentence.

4.5 Arbitration

Delete this paragraph in its entirety.

E.1-05 ARTICLE 5: SUBCONTRACTORS

5.2 Award of Subcontracts and other Contracts for Portions of the Work

5.2.1 Delete the last sentence of subparagraph 5.2.1

5.4 Contingent Assignment of Subcontractors

E.1-07 ARTICLE 7: CHANGES IN THE WORK

7.1 Changes

7.1.1 Delete the phrase “or order for a minor change in the work,” from subparagraph 7.1.1

7.1.2 Delete the phrase “an order for a minor change in the work may be issued by the Architect alone” from paragraph 7.1.2.

7.1.3 Delete the phrase “or order for a minor change in the work” from subparagraph 7.1.3.

7.3 Construction Change Directives

7.3.6 In the first sentence, delete the words “a reasonable allowance for overhead and profit” and substitute “an allowance for overhead and profit in accordance with clauses 7.3.10.1 through 7.3.10.6 below.”
Add the following subparagraph 7.3.10 to 7.3:

7.3.10 In subparagraph 7.3.6, the allowance for the combined overhead and profit included in the total cost to the owner shall be based on the following schedule:

- .1 For the contractor, the work performed by the contractor’s own forces, 15% of the cost.
- .2 For the contractor, for work performed by the contractor’s subcontractor, 7.5% of the amount due the subcontractor.
- .3 For each subcontractor or sub-contractor involved for work performed by that subcontractor’s or subcontractor’s own forces 7.5% of the cost.
- .4 For each subcontractor, for work performed by the subcontractor’s sub-sub-subcontractor, 7.5% of the amount due the sub-sub-subcontractor.
- .5 Cost to which overhead and profit is to be applied shall be determined in accordance with subparagraph 7.3.6.

E.1 – 4

- .6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are subcontracts, they shall be itemized also. In no case will a change involving over \$100.00 be approved without such itemization.

E.1-08 ARTICLE 8 TIME

8.3 Delays in Extension of Time

- 8.3.1 Delete the phrase, “or by delay authorized by the owner pending arbitration, “from subparagraph 8.3.1 and add at the end of subparagraph 8.3.1 the following: “However, the parties expressly agree that the contractor shall not be entitled to any increase in the Contract Sum or to any damages or any other additional compensation as a consequence of any such delays or disruptions.”

- .8.3.2 Delete the subparagraph 8.3.2

- .8.3.3 Delete the subparagraph 8.3.3

E.1-09 ARTICLE 9: PAYMENTS AND COMPLETION – **NOTE: The General Contractor and Sub Contactors are to plan on payments being made 20 days after the approved application of payment is submitted to the Architect**

9.3 Applications for Payment

- 9.3.1 Add the following sentence to subparagraph 9.3.1: “The form of application for payment shall be a notarized AIA Document G702, Application and Certification for Payment, supported by AIA Document G703, Continuation Sheet.

Add the following clause 9.3.1.3 to subparagraph 9.3.1:

- 9.3.1.3 Until substantial completion, the owner shall pay 90% of the amount due the contractor on account of progress payments.

9.7 Failure of Payment

- 9.7.1 Delete the phrase “...or awarded by arbitration” from the first sentence of subparagraph 9.7.1.

9.8 Substantial Completion

- 9.8.3 Add the following sentences at the end of subparagraph 9.8.3.
The payment shall be sufficient to increase the total to 100% of the contract sum, less such amounts as the architect shall determine for incomplete work and unsettled claims.

9.10 Final Completion and Final Payment

Add the following subparagraph 9.10.5 to paragraph 9.10:

- 9.10.5 As a prerequisite to final payment, the contractor shall submit the following items to the architect, properly executed:
1. AIA Document G706, “Contractor’s Affidavit of Payment of Debts and Claims.”

2. AIA Document G706A, "Contractors Affidavit of Release of Lien", conditional upon receipt of final payment.
3. AIA Document G707, "Consent of Surety to Final Payment".
4. Guarantee by contractor and each subcontractor that the work will be free of defects in materials and workmanship for a period of one (1) year, except as otherwise specified. Form of guarantee shall be as included herein.

E.1-10 ARTICLE 10: PROTECTION OF PERSONS AND PROPERTY

10.1 Safety Precautions and Programs

- 10.1.2 Delete the phrase "On which arbitration has not been demanded, or by arbitration under Article 4" from the last sentence.

Add the following subparagraph 10.1.5 to paragraph 10.1

- 10.1.5 The contractor will implement interim life safety measures to compensate for hazard posed by construction. The interim life safety measures will be maintained during the construction period so that life safety is not diminished in any occupied area; furthermore, to maintain a safe environment in the construction and adjacent areas.
Interim life safety measures will be implemented at project construction development and will be continuously enforced through construction completion.

10.2 Safety of Persons and Property

Add the following subparagraphs 10.2.4.1 and 10.2.4.2 to paragraph 10.2.4:

- 10.2.4.1 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary the contractor shall give the owner reasonable advance notice and secure owner's written approval.
- 10.2.4.2 Contractor shall comply with OSHA Hazardous Communication Standard as described in the Code of Federal Regulations 29, part 1910.1200, effective May 23, 1988.

E.1-11 ARTICLE 11: INSURANCE AND BONDS

11.1 Contractor's Liability Insurance

- 11.1.1.1 Delete the semicolon at the end of Clause 11.1.1.1 and add: "including private entities performing work at the site and exempt for the coverage on account of number of employees or occupation, which entities shall maintain voluntary compensation coverage at the same limits specified for mandatory coverages for the duration of the project."
- 11.1.1.2 Delete the semicolon at the end of clause 11.1.1.2 and add: "or persons or entities excluded by statute from the requirements and clause 11.1.1.1 but required by the contract documents to provide the insurance required by that clause."

Add the following clauses 11.1.1.8 and 11.1.1.9 to 11.1.1:

- 11.1.1.8 Liability insurance shall include all major divisions of coverage and be on a comprehensive basis including:
1. Premises Operations (including X, C, U, coverages as applicable)
 2. Independent Contractor's Protective
 3. Products and Completed Operations
 4. Personal Injury Liability with Employment Exclusion deleted
 5. Contractual, including specified provision for contractor's obligation under paragraph 3.18
 6. Owned, non-owned and hired motor vehicles.
 7. Broad Form Property Damage including Completed Operations.
- 11.1.1.9 If the general liability coverage are provided by a commercial general liability policy on a claims-made basis, the policy date or retroactive date shall predate the contract, the termination date of the policy or applicable extended reporting period shall be no earlier than the termination date of coverages required to be maintained after final payment, certified in accordance with subparagraph 9.10.2.

Add the following clause 11.1.2.1 to subparagraph 11.1.2:

- 11.1.2.1. The insurance required by subparagraph 11.1.1 shall be written for not less than the following limits, or greater if required by law:
1. Workers' Compensation:
 - a. State: Statutory
 - b. Applicable Federal (i.e. Longshoremen's): Statutory
 - c. Employer's Liability \$500,000 per accident; \$500,000 Disease Policy Limit; 500,000 Disease each employee
 2. Comprehensive or Commercial General Liability (including premises operations, independent contractor's protective, products and completed operations, broad form property damage)
 - a. Bodily Injury
\$1,000,000 each occurrence
\$1,000,000 aggregate
 - b. Property Damage
\$1,000,000 each occurrence
\$1,000,000 aggregate
 - c. Products and Completed Operations to be maintained for 7 years after final payment.
 - d. Property Damage Liability Insurance shall provide X, C, and U coverage.
 - e. Broad Form Property Damage Coverage shall include completed operations.
 3. Contractual Liability:
 - a. Bodily Injury:

E.1 - 7

- \$1,000,000 each occurrence
 - \$1,000,000 aggregate
 - b. Property Damage
 - \$1,000,000 each occurrence
 - \$1,000,000 aggregate
- 4. Personal Injury with Employment Exclusion deleted:
 - \$1,000,000 aggregate
- 5. Business Auto Liability (including owned, non-owned and hired vehicles):
 - a. Bodily Injury:
 - \$1,000,000 each occurrence
 - \$1,000,000 aggregate
 - b. Property Damage:
 - \$1,000,000 each occurrence
- 6. If the general liability coverages are provided by a commercial liability policy, the:
 - a. General aggregate shall be not less than \$1,000,000 and it shall apply, in total, to this project only.
 - b. Fire damage limit shall be not less than \$100,000 on any one fire.
 - c. Medical expense limit shall be not less than \$5,000 on any one person.
- 7. Umbrella Excess Liability:
 - \$1,000,000 over primary insurance

11.1.3 Add the following sentence to subparagraph 11.1.3:
 If this insurance is written on the Comprehensive General Liability policy form, the certificates shall be AIA Document G705, Certificate of Insurance. If this insurance is written on a commercial general liability policy form, ACORD form 25S will be acceptable.

11.2 Owner's Liability Insurance

11.2.1 Delete the last two sentences of subparagraph 11.2.1 and substitute the following: "The contractor shall purchase and maintain insurance covering the owner's contingent liability for claims which may arise from operations under the contract."

11.3 Property Insurance- The general contractor is to provide Builder's Risk Insurance in the amount of \$2 Million dollars.

11.3.1 Modify the first sentence of subparagraph 11.3.1 as follows: Delete "Unless otherwise provided, the owner" and substitute "the Contractor".

Add the following sentences:

The form of policy for this coverage shall be completed value. If the owner is damaged by the failure of the contractor to maintain such insurance, then the contractor shall bear all reasonable cost properly attributable thereto.

11.3.1.2 Delete clause 11.3.1.2

11.3.1.3 Delete clause 11.3.1.3

11.3.4 Delete subparagraph 11.3.4

11.3.5 Delete subparagraph 11.3.5
 Delete subparagraph 11.3.6 and substitute the following:

11.3.6 Before an exposure to loss may occur, the contractor shall file with the owner two certified copies of the policy or policies providing this property insurance coverage, each containing those endorsements specifically related to the project. Each policy shall contain a provision that the policy will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the contractor.

11.3.8 Modify subparagraph 11.3.8 by substituting “Contractor” for “Owner” as fiduciary; except that the first reference to “Owner” in the first sentence, the word “this” should be substituted for “Owner’s”.

11.3.9 Modify subparagraph 11.3.9 by substituting “Contractor” for “Owner” each time the latter word appears.

Delete the phrase “, or in accordance with an arbitration award in which case the procedure shall be as provided in paragraph 4.5” from the third sentence.

11.3.10 Modify subparagraph 11.3.10 by substituting “Contractor” for “Owner” each time the latter word appears.

Delete the following text: “; if such objection be made, arbitrators shall be chosen...arbitrators will direct such distribution.”

11.4 Performance Bond and Payment Bond
Delete subparagraph 11.4.1 and substitute the following:

11.4.1 The contractor shall furnish bonds covering faithful performance of the contract and payment of obligations arising there under. Bonds may be obtained through the contractor’s usual source and the cost there of shall be included in the contract sum. The amount of each bond shall be equal to 100% of the contract sum.

11.4.1.1 The contractor shall deliver the required bonds to the owner not later than 3 days following the date the agreement is entered into, or if the work is to be commenced prior thereto in response to a letter of intent, the contractor shall, prior to the commencement of the work, submit evidence satisfactory to the owner that such bonds will be furnished.

11.4.1.2 The contractor shall require the attorney-in-fact who executed the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

E.1-13 ARTICLE 13: MISCELLANEOUS PROVISIONS

13.5 Test and Inspections

13.5.1 Modify the last sentence of subparagraph 13.5.1 by deleting the word “Owner” and substituting “Contractor” in its place.

Add the following paragraph 13.8 to Article 13:

13.8 Equal Opportunity

13.8.1 The contractor shall maintain policies of employment as follows:

13.8.1.1 The contractor and contractor's subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, sex, national origin, age, veteran's status, or handicapped (when otherwise qualified). The contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, religion, sex, national origin, age, veteran's status, or handicap (when otherwise qualified). Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of nondiscrimination.

13.8.1.2 The contractor and the contractor's subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state consideration for employment without regard to race, religion, sex, national origin, age, veteran's status or handicap (when otherwise qualified).

13.9 CODES

13.9.1 INTERNATIONAL BUILDING CODE

The 2006 Edition of the International Building Code with all amendments including State of Georgia amendments as of date of opening of bids shall govern the construction of this project and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: That the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the International Building Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the International Building Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the International Building Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the International Building Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the International Building Code shall be adjusted as provided in the contract for changes in the work.

13.8.2 INTERNATIONAL PLUMBING CODE

The 2006 Edition of the International Plumbing Code with all amendments and State of Georgia Amendments as of date of opening of bids shall govern the installation of all work and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: that the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the International Plumbing Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the International Plumbing Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the International Plumbing Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the International Plumbing Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the International Plumbing Code shall be adjusted as provided in the contract for changes in the work.

13.8.3 INTERNATIONAL FUEL GAS CODE

The 2006 Edition of the International Fuel Gas Code with all amendments and State of Georgia Amendments as of date of opening of bids shall govern the construction of this project and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: That the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the International Fuel Gas Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the International Fuel Gas Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the International Fuel Gas Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the International Fuel Gas Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the Standard Fuel Gas Code shall be adjusted as provided in the contract for changes in the work.

13.8.4 NATIONAL ELECTRICAL CODE

The 2005 Edition of the National Electrical Code with all amendments as of date of opening of bids shall govern the construction of this project and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: That the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the National Electrical Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the National Electrical Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the National Electrical Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the National Electrical Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the National Electrical Code shall be adjusted as provided in the contract for changes in the work.

13.8.5 LIFE SAFETY CODE

The 2003 Edition of the Life Safety Code, NFPA 101 shall govern the construction of this project and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: That the drawings and specifications shall be adhered to in all cases where they call for quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the Life Safety Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the Life Safety Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the Life Safety Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the Life Safety Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the Life Safety Code shall be adjusted as provided in the contract for changes in the work.

13.8.6 INTERNATIONAL MECHANICAL CODE

The 2006 Edition of the International Mechanical Code with all amendments and State of Georgia Amendments as of date of opening of bids shall govern the construction of this project and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: That the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is

equal to or in excess of the quality required by the International Mechanical Code, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the International Mechanical Code. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the International Mechanical Code. If there are any expressed requirements in the plans and/or specifications which are at variance to the International Mechanical Code, all changes in the work, necessary to eliminate the said requirements and make the work conform to the International Mechanical Code shall be adjusted as provided in the contract for changes in the work.

13.8.7 AMERICANS WITH DISABILITIES ACT OF 1990

The American With Disabilities Act Of 1990 with all amendments as of the date of the opening of bids shall govern the installation of all work and is adopted and incorporated into the Contract Documents and is made a part thereof by reference, provided, however: that the drawings and specifications shall be adhered to in all cases where they call for quality of materials, quality of workmanship, or quality of construction which is equal to or in excess of the quality required by the Americans With Disabilities Act Of 1990, and provided also; that there shall be no variances from the plans and specifications except to the extent that the said variances shall be necessary in order to comply with the Americans With Disabilities Act Of 1990. It shall be the responsibility of the contractor to familiarize himself or herself with the requirements of the Americans With Disabilities Act Of 1990. If there are any expressed requirements in the plans and/or specifications which are at variance to the American With Disabilities Act Of 1990, all changes in the work, necessary to eliminate the said requirements and make the work conform to the Americans With Disabilities Act Of 1990 shall be adjusted as provided in the contract for changes in the work.

E.1-14 ARTICLE 14: TERMINATION OR SUSPENSION OF THE CONTRACT

Add the following paragraph 14.4 to Article 14:

14.4 Termination by the Owner for Convenience

14.4.1 The owner may, at any time, terminate the contract for the owner's convenience and without cause.

14.4.2 Upon receipt of written notice from the owner of such termination for the owner's convenience, the contractor shall:

- .1 cease operations as directed by the owner in the notice;
- .2 take actions necessary, or that the owner may direct for the protection and preservation of the work; and
- .3 except the work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

14.4.3 In case of such termination for the owner's convenience, the contractor shall be entitled to receive payment from the owner on the same basis provided in subparagraph 14.1.2.

END OF SECTION

E.1 - 12*

SECTION F - SPECIAL CONDITIONS

1. OWNER'S REPRESENTATIVE

- A. The Owner's Representative shall be Anthony Criswell
All documentation required by the specifications to be submitted to the "Owner" shall be submitted to the Architect for transmittal to the Owner.
- B. All instructions and requests for changes from the Owner to the contractor will be issued through the "Architect" PROVIDED: that the Engineer shall not have the authority to authorize changes in the work which shall mean changes to the contract sum. PROVIDED FURTHER: that the "Engineer" will request and review Contractor's proposal for such changes and will submit recommendations to the owner for issuance for change orders.
- C. Changes in the contract sum shall be authorized in writing solely by the Owner.
- D. Except as provided herein above, the contractor shall disregard any instructions from persons other than "Architect".
- E. Should a situation arise, in conflict with these requirements, the contractor shall notify the "Architect" immediately.
- F. The Contractor shall bear all costs incurred by his failure to follow the instructions contained in paragraphs A, B, C, D, and E above.

2. UTILITIES: SEE SECTION 01501 - Temporary Facilities and Controls

3. STORAGE AREAS

- A. Location: Space for materials storage at the site is limited. Storage of all items shall be at the discretion of the contractor as designated by the Owner. Provide storage trailers as required. At completion of the work, material and debris shall be removed.
- B. Storage: All materials not used at the end of the day shall be returned to the designated storage areas.

4. EXISTING CONDITIONS: The Contractor, in undertaking the work under this contract, is assumed to have visited the premises and to have taken into consideration all conditions which might affect his work. No consideration will be given any claim based on lack of knowledge of existing conditions except where the contract documents make definite provisions for adjustment of cost or extension of time due to existing conditions which cannot be readily ascertained.

Existing utilities shall not be interrupted or disturbed in any way without the written approval of the Owner of the utility in question. All liability shall be borne by the Contractor and he or she shall save the Owner and the Architect and their agents and employees harmless from all claims arising out of the unauthorized interruption or disturbance of any existing utility.

All workers shall be expected to exhibit acceptable behavior and dress.

5. EARLY ENTRY FOR INSTALLATION OF FF&E AND INITIAL PARTIAL OCCUPANCY.

The Owner, Owner's Lessee, vendor or outside contractors under separate contract(s)

with the Owner, or Owner's Lessee shall have the right to enter the Building ("Early Entry") at least 45 days prior to the Substantial Completion Deadline.

Corridors and other exit-ways shall remain in use and kept passable and free of debris and stored material at all times. All fire exits shall not be impaired, if it becomes necessary during the course of construction to alter an exit route, 24 hour notice shall be provided the Owner and adequate signage shall be posted directing persons to the temporary safe exit. Adjacent parking areas shall remain usable by the Owner or Owner's Lessee except as otherwise arranged with the Owner's representatives. When work is not physically being performed, these areas shall be free of material, equipment, and debris of the Contractor. Interruption to business functions shall be kept to a minimum. Contractor to maintain adequate air conditioning, heating and lighting in all occupied spaces except as agreed upon with the Owner's representative.

6. ACTS AND EXECUTIVE ORDERS: The contractor, by signing the contract, acknowledges that he or she is aware of and familiar with the contents and requirements of the following acts and executive orders:
 - A. High Voltage Act
 - B. Underground Gas Pipe Law - Georgia law 1969, PP.50-57.
 - C. Williams Steiger Occupational Safety and Health Act of 1970.
 - D. The non-discrimination clause contained in Section 202 Executive Order 11246 as amended by Executive order 11375 relative to Equal Opportunity for all persons without regard to race, color, religion, sex or national origin and the implementing rules and regulations described by the Secretary of Labor are incorporated.
 - E. Public Employee Hazardous Chemical Protection and Right To Know Act: O.C.G.A. Sec. 45.22 (1988 H.B.No.503).3.
 - F. Drug Free Workplace Act - O.C.G.A. Sec.50-24 (1990 H.B.No.9).
 - G. State of Georgia "Call-Before-You-Dig-" Law. Requirements following:
 1. Notification must be made to the Utilities Protection Center 1990 Lakeside Parkway, Tucker, Georgia 30084. Telephone No. 800-282-7411 during UPC business days Monday through Friday (excluding holidays), during business hours of 7:00a.m. to 4:00 p.m.
 2. The call must be made 72 hours prior to excavation and must include location of excavation, name, address, and phone number of the company or person excavating, type of excavation and start date.
 3. If the excavation is not finished in 17 days, additional notice must be given no later than 14 days from the day of the first notification.
 4. If blasting is required after notice is given, Contractor must call back to update location request or "ticket".
 5. This law applies to all mechanized equipment, from drag lines to pile drives.

6. All electric, gas, telephone, and cable TV utilities in the state are required to be members of the UPC. If underground facilities are cut that belong to a utility that is required to be UPC member, but is not, the Contractor is not liable.
7. Violators can be fined from \$1,000 to \$3,000 plus the cost of replacing or repairing damaged facilities and any injury to persons or property.
7. ACCESS TO PREMISES: Ingress and egress shall be limited to the construction entrance as shown on the drawings to the subject work areas. Any debris dropped or tracked outside of areas in which work is being done, shall be immediately cleaned up.
8. SUBMITTALS: The Contractor agrees that submittals of equipment and material and submittals of shop drawings of equipment and materials layouts required from the Contractor under provisions of these specifications and processed by the Architect are not Change Orders and that the purpose of the said submittals by the Contractor is to demonstrate the Contractor understands the design concept of the project by indicating which equipment and materials he or she intends to furnish and install and by detailing the installation he or she intends to achieve.
9. SHOP DRAWINGS:
 - A. General: The contractor shall check data to ensure compliance with specifications and check and verify field measurements, and shall review, approve and stamp each copy submitted with date and name of person making review before submitting them to the Architect. Six copies of all shop drawings shall be submitted to the Architect, four (4) of which will be returned to the Contractor and one (1) copy to the Owner's Representative. Where additional copies are required by the Contractor, the extra copies shall be furnished accordingly. Sufficient copies for maintenance manuals shall be submitted.
 - B. Identification: All submittal data shall be identified to show project name, specification section, drawing or detail number, room number, date, revision date, contractor and subcontractor's name, and the model, style and size of item being submitted. Manufacturer's standard drawings shall be modified by deletions or additions to show clearly only items applicable to this project.
 - C. Review.
 1. The Contractor agrees that submittals of equipment and material and shop drawings of equipment and material layouts required under provisions of these specifications and processed by the Architect are not Change Orders. The purpose of submittals is to demonstrate that the Contractor understands the design concept of the project by indicating the equipment and materials he or she intends to furnish and install, and by detailing the installation he or she intends to achieve.
 2. The Contractor shall conform to the requirements of the Contract Documents unless a change order or a specific letter of clarification is issued. The Contractor shall identify on each submittal and in letter form to the Architect any and all deviations from the contract documents.
 3. Any submittal or shop drawings not conforming to the contract documents without this identification and notification shall be assumed to be marked

"Revise and Resubmit", and the contractor shall promptly re-submit said submittal so as to be in full compliance with the contract documents.

4. Failure of the Contractor to provide this information during the shop drawings phase shall make the Contractor responsible for all changes to achieve compliance with the contract documents.

10. **SCHEDULING AND PHASING OF WORK:** After award of contract, a pre-construction meeting shall be held at the site between the Owner's representative, representative of the Contractor, and representatives of the Architect to review the project and set up the approximate work schedule. With ten (10) days of this meeting, the Contractor shall submit five (5) typed copies of the work sequence schedule, showing proposed dates of beginning completion milestones and completing work, to the Architect for approval. A CPM schedule will also be required, subject to Architect's approval. All new construction work must be substantial complete and owner occupied prior to beginning work on renovation phases of the existing building.

11. **VANDALISM**

The Contractor shall take every precaution not to leave equipment and materials where they can be reached and used for defacing new or existing work at any time and in particular at night and on the weekends.

12. **PROGRESS REPORTS:**

- A. Prior to submitting the first periodical estimate, the contractor shall have furnished to the Owner and the Architect, a construction progress schedule that outlines each phase of work. The Contractor shall adhere to the schedule and update it prior to each subsequent request for payment. Failure to adhere to the schedule shall be admittance on the part of the Contractor that he or she is behind schedule and corrective steps, at no cost to the Owner, must be taken to bring the job back on schedule.
- B. **Cost Breakdown:** Contractor shall furnish a complete cost breakdown for all materials installed and for each phase of the work. The cost of breakdown will be furnished prior to the first request for payment. This cost breakdown will reflect the Project Schedule and illustrate the estimated monthly Request for Payment.

13. **COMMUNICATIONS.**

- A. All notices, demands, requests, instructions, approvals, proposals and claims must be in writing. Requests for clarifications and instruction concerning the drawings or specifications shall be submitted to the Architect by mail or facsimile transmission on the Request For Information form in Sect. I. Only written and signed instructions will be considered binding and a part of the Construction Documents.
- B. Any notice to demand, request instruction to, proposal to, or claim upon the Contractor shall be sufficiently given if delivered at the office of the Contractor stated in Owner-Contractor Agreement (or at such office as he may designate in writing to the Owner), or deposited in the United States mail in a sealed, postage paid envelope, or if delivered with charges prepaid to any telegraph company or transmission, in each case addressed to said office.
- C. All papers required to be delivered to the Owner shall, unless otherwise specified in writing to the Contractor, be delivered to:

FIRST BAPTIST CHURCH ON THE SQUARE
100 BROAD STREET
LAGRANGE, GEORGIA 30240
ATTENTION: ANTHONY CRISWELL

and any notice to, demand, request, instruction, approval, proposal, or claim upon the Owner shall be sufficiently given if delivered, or deposited in the United States mail in a sealed, postage paid envelope, or delivered charges prepaid to any telegraph company for transmission to said individual at said address or such other representatives of the Owner may subsequently specify in writing to the Contractor for such purpose.

- D. All papers required to be delivered to the Architect shall be delivered to:

SMITH DESIGN GROUP, INC.
307 CHURCH STREET
SUITE B
LAGRANGE, GEORGIA 30240

and any notice to, demand, request, proposal, or claim upon the Architect shall be sufficiently given if delivered, or deposited in the United States mail in a sealed, postage paid envelope, or delivered charges prepaid to any telegraph company for transmission to said Architect at said address.

- E. Any notice, demand, request, instruction, approval, proposal, or claim shall be deemed to have been given as of the time of actual delivery or (in case of mailing) when the same should have been received in due course of post, or in the case of telegrams, at the time of actual receipt, as the case may be.

14. LAYING OUT WORK:

The Contractor shall verify all existing conditions and contiguous work and lay out his or her work therefrom, providing for himself all other necessary measurements, lines and levels, and shall assume the responsibility for the correctness of the laying out of the work.

15. EXISTING PLANTING:

Construct protective tree fencing as described in the construction documents as indicated around tree save area. Storage or parking in the areas is not allowed.

16. SIGNS:

The Contractor shall cause no signs to be displayed at the site unless specifically authorized in writing by the Owner, except however, the Contractor shall furnish, erect and maintain such signs required by safety regulation to safeguard life and property.

17. NOTIFICATION TO OWNER WHEN CONTRACTOR VISITS SITE AFTER FINAL INSPECTION:

- A. When the Contractor's representative visits the job site after the final inspection to perform specific work such as maintenance service, seasonal balance, or to correct a deficiency, the Contractor shall notify the Owner not less than 48 hours prior to the date on which they will visit the site, except under an emergency condition.

- B. The Contractor shall visit the designated office of the Owner to notify the Owner that the Contractor is on the site prior to visiting the site, thereby enabling the Owner representative to accompany the Contractor, should they so desire while the Contractor is on the project site.
- C. An exact copy of the notification shall be provided to the Architect with the intent of the site visit. After the Contractor has completed the site visit, the Contractor shall give a written report of the action taken and any incomplete work yet to be performed to the Architect within five (5) days.

18. FIRE MARSHAL DRAWINGS:

- A. The Architect will deliver to the Contractor the set of drawings approved by the Fire Marshal. The Contractor shall maintain custody of these documents in a clean, unmarked condition at the job site for ready reference by the Fire Marshal during job visits.
- B. This set of documents shall be returned to the Architect with the Final Request for Payment and the Certificate of Occupancy by the Fire Marshal or receipt for same.
- C. The Contractor is subject to a fine of \$1500 by the State Fire Marshal if a Fire Marshal representative visits the job site and the Fire Marshal approved plans and specifications are not available.

19. ALL GLASS - FIBER PRODUCTS, INCLUDING INSULATION

All Glass-Fiber products, including insulation are to carry carcinogen warning labels as required by the Department of Labor.

20. HAZARDOUS MATERIALS:

- A. A/E's Responsibility: Plans and specification have been prepared by the A/E for the Owner without the A/E having conducted investigation as to the presence of asbestos or hazardous waste on the project. Not being a part of this contract, the A/E has not charged any fees and has not and will not advise the Owner with regard to the detection and/or removal of asbestos or hazardous waste. the Owner is aware that asbestos or hazardous waste could be present and will make all decisions with regard to its removal. The removal of all hazardous materials and encapsulation of remaining surfaces is the sole responsibility of the Owner.
- B. Friable Materials: If the Contractor observes the existence of friable materials which must be disturbed during the course of his work, Contractor shall promptly notify Owner and Architect. Owner shall make all arrangements regarding testing and removal or encapsulation of asbestos materials if present. The Contractor shall not perform any work pertinent to the friable material prior to receipt of special instructions from the Owner through the Architect. "Friable Material" is any material which can be crumbled, pulverized or reduced to a powder by hand pressure when dry.

21. ASBESTOS (ACBM):

- A. Specifications written for equipment and materials in the specifications are intended to eliminate any asbestos containing substance. The Contractor and his suppliers are hereby notified that **NO ASBESTOS CONTAINING PRODUCT IS PERMITTED**. If a product is listed in these specifications which contain asbestos, the Contractor and his or her supplier shall so inform the A/E immediately and shall not deliver such product to the project site until additional written instructions are received.
- B. Upon completion of construction, and prior to final inspection, the Contractor(s) for work performed under this division of the specifications shall be required to provide a certificate to the A/E in the following form.

CERTIFICATION FOR ASBESTOS CONTAINMENT

I / we _____
(Sub-contractor)

certify that there is no asbestos contained in materials provided and/or installed by us in

(Project / Building)

WITNESS: _____ DATE: _____
(Notary Public)

CONTRACTOR: _____

BY: _____

TITLE: _____

22. NOTIFICATION OF JOB SITE OBSERVATIONS

Recommended observations by Mechanical / Electrical Engineers at the following stages of construction for a Mechanical / Electrical design project. General contractor to notify Architect 48 hours prior to each of the following:

- A. Plumbing:
 - 1. First major portion of underfloor piping before being covered.
 - 2. Roughing of water, waste and vent piping for first major toilet battery.
 - 3. All overhead piping upon completion of pipe insulation and prior to insulation of ceiling.
- B. Air Conditioning:
 - 1. First major portion of ductwork prior to being insulated.
 - 2. First major portion of piping prior to being insulated.
 - 3. All overhead ductwork and piping upon completion of insulation but prior to installation of ceiling.
- C. Electrical:
 - 1. Substantially completed conduit system prior to wire pulling.
 - 2. Completion of major wire pulling and energizing of distribution panels.

3. Substantially completed installation of lighting fixtures prior to installation of ceiling.
- D. Fire Protection: All overhead piping prior to installation of ceiling.
- E. All Systems:
1. Upon written notification of the contractor that the installation is 100% complete.
 2. A second inspection to insure that all items noted at final inspections have been corrected.

END OF SECTION

F - 8*

SECTION G - STATEMENT OF WORK

G-01 WORK TO BE DONE

The work covered by this contract consists of furnishing all plant, labor, equipment, and materials and performing all operations required to accomplish all the work required by the Project Manual entitled, "RENOVATION FOR FIRST BAPTIST CHURCH ON THE SQUARE", located in LaGrange, Georgia, and the Drawings similarly entitled, all dated 21 December 2007 in strict accordance therewith and subject to the terms and conditions of the Contract.

G-02 DESCRIPTION AND LOCATION OF SITE:

1. The site of this work is located at 100 Broad Street, LaGrange, Georgia.
2. The General Contractor or Sub Contractors will not be allowed to have storage trailers on site. All storage areas must be inside the existing building renovation zone. The contractor is to provide construction toilet facilities for construction personnel.
3. The general contractor is to replace any damaged grass due to construction with permanent grass sod to match existing.

G-03 ACCESS TO PROPERTY:

Access to the property is to be **from West Haralson Street only**.

END OF SECTION

G - 1*

SECTION H - PROJECT CLOSE-OUT

H-01 GENERAL:

In order to insure an orderly and efficient transfer of the project to the Owner, prepare, assemble and transmit to the Architect the closing documents hereinafter described.

H-02 TIME OF TRANSMITTAL:

After receiving the Certificate of Substantial Completion and in no case, not later than the date of the Contractor's request for Final Inspection, the Contractor shall transmit to the Architect the closing documents. Final inspection will not take place until all required closing documents have been received by the Architect.

H-03 NUMBER OF COPIES:

Unless specifically noted otherwise hereinafter, three copies of all closing documents shall be submitted.

H-04 IDENTIFICATION:

All bound documents shall be identified by the use of an embossed plastic tape on the front cover, showing the project name and number, the nature of the information contained in the document (i.e. A/C Maintenance Manual for Roof Mounted Units, A/C1, A/C2, etc.), name of General Contractor and name of Subcontractor who made the installation.

H-05 REQUIRED PRIOR TO FINAL PAYMENTS

1. "Fire Marshal" Approved Set of Architectural Plans - **One Set**
2. Fire Sprinkler Plans as approved by GA State Fire Marshall & City of LaGrange Fire Marshall - **One Set**
3. "As-Built Plans" - **One Set**
4. "As-Built Specifications" with addenda & Change Orders - **One Set**
5. Fire Sprinkler As-Built Drawings - - **Three Copies**
6. Electrical As-Built Drawings - **One Set**
7. List of Subcontractors and Suppliers - **Three Copies**
8. Warranty by General Contractor - **Three Copies**
9. Contractor's Affidavit of Payment of Debts and Claims - **Three Copies**
10. Contractor's Affidavit of Release of Liens - **Three Copies**
11. Statutory Affidavit - **Three Copies**
12. Non-Influence Affidavit - **Three Copies**
13. Millwork Warranty - **Three Copies**

14. Sealants Five Year Warranty - **Three Copies**
 15. Roof System Warranty - **Three Copies**
 16. Receipt of Keys - **Three Copies**
 17. Metal Stud/Drywall/Acoustical Ceilings/Insulation Warranty Three Copies
 18. Painting Warranty -**Three Copies**
 19. Wood Gym Floor - **Three Binders**
 20. Kitchen Equipment – Binder of Warranties and Operation & Maintenance Manual - **One Copy**
 21. Stage Curtain Warranties and Operation & Maintenance Manual - **Four Copies**
 22. Pews – Warranties and Maintenance Data - **Three Binders**
 23. HVAC – Test and Balance Reports - **Three Copies**
 24. Plumbing – Warranty - **Three Copies**
 25. Fire Sprinkler – Warranty - **Three Copies**
 26. Fire Sprinkler – Backflow Test Reports - **Three Copies**
 27. Electrical Warranty - **Three Copies**
- H-06 REQUIRED CLOSING DOCUMENTS:
- 5.1 Warranty by General Contractor: Sample form is included in Section I of this project manual.
 - 5.2 Statutory Affidavit by General Contractor: Sample form is included in Section I of this project manual.
 - 5.3 Non-influence Affidavit by General Contractor: Sample form is included in Section I of this project manual.
 - 5.4 Inspection Reports: The Contractor shall contact each of the agencies to set up inspections. The Contractor shall secure and submit to the Owner, a Certification from the local Governmental Agency or Agencies that the construction has been inspected as required by laws or ordinances and that the building (buildings) is (are) acceptable to the following authorities:
 - a. Local Building Inspector (where applicable)
 - b. Local Plumbing Inspector (where applicable)
 - c. Local Electrical Inspector (where applicable)
 - d. Local Fire Marshal w / occupancy permit
 - e. State Elevator Inspector (where applicable)
 - f. State Health Department (where applicable)

g. State Fire Marshal w / occupancy permit.

5.5 Project Record Documents: (one copy)

Contractor's attention is called to Section 01502 of this project manual for a complete description of the required documents.

5.6 Maintenance and Operation Manuals & Parts List:

Contractor's attention is called to the fact that various sections of this project manual require that maintenance manuals, operation manuals and parts list are to be furnished.

5.7 Warranties for Items Beyond One Year Limit:

The following items generally require a warranty in excess of the normal "one year" guarantee and are so described in various sections of this project manual; this list is not necessary all inclusive and should any warranties called for in a section of this project manual be omitted from the following list, the section requirement shall govern:

- a. Hot water heaters
- b. Electric water coolers
- c. Residential appliances (omitted)
- d. Commercial appliances
- e. Air conditioning compressors

5.8 Extra Stock:

The following "extra stock" is required as described in various sections of this project manual.

- a. Ceramic tile (each type, size and color)
- b. Ceiling tile (each type, size and color)
- c. Resilient tile flooring (each type, size and color)
- d. Resilient base (each type, size and color)

H-07 CHECK - OFF LIST:

General Contractor is to submit all close-out documents in bound and permanently labeled 3-ring notebooks and as-built drawings together at one time prior to Architect's approval of release of any retainage. Please see Section H-05 "Required for Final Payment" for check off list. Additional items may be required due to job specific requirements.

END OF SECTION

H - 3*

SECTION I - SAMPLE FORMS

I-01 GENERAL

The Bidding Documents make reference to various forms that are required to be executed as a part of work of the project.

I-02 FORMS

1. The specimen forms are included hereinafter for the bidders information only:
 - a. Statutory Affidavit
 - b. Warranty by General Contractor
 - c. Non-Influence Affidavit
 - d. Certificate of Final Completion
 - e. Change Order Form
 - f. Modification to Standard Form of Agreement
 - g. Progress Schedule (example) (not included)
 - * h. Certificate of the Contractor of his duly authorized representative, DE Form 0263, revised Jan. 1990 (not included)
 - * i. Summary of Materials Stored, DE Form 0264 (not included)
 - * j. Schedule of Change Orders, DE Form 0265 (not included)
 - k. Request For Information
 - l. Subcontractor / Vendor Directory
 - * Indicates that these forms are to be used with Application and Certificate for Payment, AIA Document G702 (See also Article 1-02, .2, e and f of this section).

2. The following documents are not bound herein, however upon written request, the Architect will furnish any Bidder a copy of any of the documents listed:
 - a. Bid Bond, AIA Document A310, February 1970 Edition.

 - b. Standard Form of Agreement between Owner and Contractor where the Basis of Payment is a Stipulated Sum, AIA Document A101, 1997 Edition.

 - c. Performance Bond and Payment, AIA Document A312, December 1984 Edition.

 - d. Certificate of Insurance, AIA Document G705, November 1978 Edition.

 - e. Application and Certificate for Payment, AIA Document G702, 1992 Edition.

 - f. Continuation Sheet, AIA Document G703, 1992 Edition.

 - g. Certification of Substantial Completion, AIA Document G704, 1992 Edition.

 - h. Contractor's Affidavit of Release of Lien's, AIA Document G706, April 1970 Edition.

 - i. Consent of Surety to Final Payment. AIA Document G707, April 1970 Edition.

STATUTORY AFFIDAVIT

specimen a.

COUNTY OF _____

STATE OF _____

FROM _____
(contractor)

To: (insert name of Owner), Owner

RE: Contract entered into the ____ day of _____, 2____, between
the above-mentioned parties for the construction of a _____
at _____

KNOW ALL MEN BY THESE PRESENTS:

1. The undersigned hereby certifies that all work required under the above contract has been performed in accordance with the terms thereof, that all materialmen, subcontractors, mechanics, and laborers have been paid and satisfied in full, and that there are no outstanding claims of any character (including disputed claims or any claims to which the contractor has or will assert any defense) arising out of the performance of the contract which have not been paid and satisfied in full,

2. The undersigned further certifies that to the best of his knowledge and belief there are no unsatisfied claims for damages resulting from injury or death to any employees, subcontractors, or the public at large arising out of the performance of the contract, or any suits or claims for any other damage of any kind, nature, or description which might constitute a lien upon the property of the owner.

3. The undersigned makes this affidavit for the purpose of receiving final payment in full settlement of all claims against the owner arising under or by virtue of the contract, and acceptance of such payment is acknowledged as a release of the owner from any and all claims arising under or by virtue of the contract.

This _____ day of _____, _____

Signature

Title

Firm

COUNTY OF _____

STATE OF _____

Personally before me, the undersigned authority, appeared _____,
who is known to me to be an official of the firm of _____,
who, after being duly sworn, stated on his or her oath that he or she had read the above statement and that the same is true and correct.

Notary Public

My commission expires _____

This ____ day of _____, _____.

**WARRANTY BY
GENERAL CONTRACTOR**

specimen b.

PROJECT:
(name,address)

ARCHITECT: Smith Design Group, Inc.

TO (Owner)

ARCHITECT'S PROJECT NUMBER:

**CONTRACTOR:
CONTRACT FOR:**

DATE OF ISSUANCE:

CONTRACT DATE:

_____, as General Contractor on the above job do hereby guarantee that all work executed under the Plans and Specifications will be free from defects of materials and/or workmanship for a period of ONE YEAR, beginning _____ and ending _____ and that all defects occurring within the warranty period shall be replaced or repaired at the expense of the Contractor to the Owner.

This guarantee covers all work as shown on the Plans and specified in the Specifications and Contract Documents.

Nothing in the above shall be deemed to imply that this guarantee shall apply to any work which has been abused or neglected by the Owner.

Legal Name of Contractor

BY: _____

TITLE: _____

Notary Public

This _____ day of _____, 20____.

NON-INFLUENCE AFFIDAVIT

specimen c.

COUNTY OF _____

STATE OF _____

FROM _____

(Contractor)

To: (insert name of owner), Owner

Re: Contract entered into the _____ day of _____, 2007, between the above-mentioned part
for the construction of a _____
at _____

KNOW ALL MEN BY THESE PRESENTS:

I do solemnly swear on my oath that as to the contract dated _____, 19__
between _____ and the _____
I have no knowledge of the exertion of any influence or the attempted exertion of any influence on the firm
behalf of which this affidavit is made in any way, manner, or form in the purchase of materials, equipment
other items involved in construction, manufacture, or employment of labor under the aforesaid contract by
Owner or any employee of the Owner, or any person connected with the Owner in any way whatsoever.

In witness whereof, the undersigned has signed and sealed this instrument

This _____ day of _____, 2007.

(L.S.)
Signature
Title
Firm

COUNTY OF _____

STATE OF _____

Personally before me, the undersigned authority, appeared _____
who is known to me to be an official of the firm of _____, who,
after being duly sworn, stated on his oath that he had read the above statement and that the same is true and

Notary Public
My commission expires _____

This _____ day of _____, _____.

CERTIFICATE OF FINAL COMPLETION

Distribution to:

specimen d.

OWNER
ARCHITECT
CONTRACTOR
FIELD
OTHER

PROJECT:
(name,address)

ARCHITECT:

ARCHITECT'S PROJECT NUMBER:

TO (Owner):

CONTRACTOR:

CONTRACT FOR:

DATE OF ISSUANCE:

CONTRACT DATE:

In accordance with the Contract documents and to the best of his or her knowledge, information and belief, on the basis of his observations, on-site observation and final observation held on _____ the Architect certifies to the Owner that the work has been completed in accordance with the terms and conditions of the Contract Documents; and that the Contractor is entitled to Final Payment as certified by him in Contractor's Application for Payment.

Acceptance of this Certificate of Final Completion by the Owner and the Contractor shall in no way waive or modify the terms or conditions of the Contract Documents.

SMITH DESIGN GROUP, INC.

By: _____
Project Architect

APPROVED AND AGREED:

CONTRACTOR

By: _____

OWNER

By: _____

**** CHANGE ORDER ****

specimen e.

SMITH DESIGN GROUP, INC.

307 Church Street
LaGrange, GA 30241
(706) 882-5511
Fax# (706) 883-7777

DATE: _____

CHANGE ORDER: _____

JOB NO.: _____

CONTRACT FOR: _____

CONTRACT DATE: _____

To: (Contractor)

You are directed to make the following changes in this contract:

Description	Unit Price	Total

Original Contract sum: \$ _____

Net(Addition)(Deduction)of all approved change orders: \$ _____

Total Adjusted Contract Price prior to this change order: \$ _____ 0.00

 This Change Order No. _____ (Add)(Deduct): \$ _____ 0.00

Total Current Adjusted Contract Price: \$ _____ 0.00

Recommended For Owner's Acceptance:

Approved And Agreed:

SMITH DESIGN GROUP, INC.

Contractor

By: _____
project architect/administrator

By: _____

Owner: _____
Architect: _____
Contractor: _____
Other: _____

Owner

By: _____

**MODIFICATION to STANDARD FORM
OF AGREEMENT BETWEEN OWNER AND
CONTRACTOR where the basis of
payment is a STIPULATED SUM -
1997 Edition AIA Document A101**

The following Modifications change, modify, delete from or add to the "Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum", 1997 Edition, AIA Document A101, hereinafter referred to as the "Agreement". Where any Article, Paragraph, Subparagraph or Clause of the "Agreement" is changed, modified, deleted from or added to, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.

ARTICLE 5 PROGRESS PAYMENTS

Articles 5.1 through 5.8 inclusive, are deleted in their entirety and the following substituted therefor:

5.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect to the Owner, the Owner shall make progress payments on account of the Contract as follows:

.1 On or about the 15th day of each month 90 percent of the value, based on the contract prices, of labor and materials incorporated in the work and of materials suitably stored at the site thereof up to the 1st day of that month, as estimated by the Architect, less the aggregate of previous payments, until one-half of the Contract Sum is due. If the work is

(a) on or ahead of the construction schedule; and

(b) there are no breaches of Orders of Rejections; and

(c) there is no delinquency in the filing of the final breakdown and accounting, together with appropriate supporting data on the work performed under Subparagraph 7.3.6 of the General Conditions when one-half of the Contract Sum is due no further retainage will be withheld by the Owner from payments to the Contractor unless

Event (a) The percentage of the work complete falls behind the percentage required by the construction schedule by as much as 15 percent; or

Event (b) The Contractor breaches an Order of Rejection; or unless

Event (c) The Contractor becomes delinquent in regard to filing the final breakdown and accounting together with appropriate supporting data, on work performed under Subparagraph 7.3.6 of the General Conditions,

in which event or events the Owner shall reinstate the 10 percent retainage on all progress payments due to be paid while one or more of the events continues to exist. The Contractor will be given written notice of the reinstatement of the retainage. If the Contractor

(a) Recovers all lost time and puts the work back on schedule; and

(b) Remedies all breaches of Orders of Rejections; and

(c) Supplies a proper breakdown and accounting on work performed under Subparagraph 7.3.6 of the General Conditions

The sums withheld while either or all of the events existed will be converted to a additional lump sum and held by the Owner until final completion, and no further retainage will be withheld unless

- (1) Event (a) recurs, or
- (2) Event (b) recurs, or
- (3) Event (c) recurs

In which event or events the Owner shall reinstate the 10 percent retainage on all subsequent payments to the Contractor. At the discretion of the Owner, the retainage of each Subcontractor may be released separately as he or she completes his or her work. An application for release of a Subcontractor's retainage shall bear the certificates of the Subcontractor, the Contractor and the Architect that the Subcontractor's work has been fully performed and that the sum for which payment is requested is due by the Contractor to the Subcontractor. Checks releasing a Subcontractor's retainage shall be made payable to the Contractor, the Contractor's surety and the Subcontractor and shall be mailed to the Contractor's surety. This article does not create any contractual relationship between the Owner and the Subcontractor or any duty of the Owner to any Subcontractor. All warranties shall run from the date of the final certificate of the Architect unless otherwise expressly provided in the Contract. Payments pursuant to this article shall in no way diminish, change, alter or affect the right of the Owner under Contract Documents.

This Modification agreed to as of the ____ day of _____ in the year Two Thousand.

Owner

Contractor

By: _____ By: _____
(Signature) (Signature)

(Printed Name & Title) (Printed Name & Title)

REQUEST FOR INFORMATION

specimen k.

TO:	Smith Design Group, Inc. 307 Church Street, Suite B LaGrange, GA 30240	REQUEST FOR INFORMATION # _____
ATTENTION:		DATE: _____ JOB# _____
PROJECT:		REFERENCE SHEET NO.: _____ DETAIL: _____
		VIA: _____ FAX: _____ MAIL: _____
QUESTION:		
SIGNED: _____ DATE: _____		
ANSWER REQUIRED BY (DATE): _____		
ATTACHMENTS: YES () NO () COPIES TO: _____		
ANSWER:		
SIGNED: _____ DATE: _____		
THIS REQUEST FOR INFORMATION RESULTED IN PROPOSED CHANGE NUMBER _____		
SMITH DESIGN GROUP, INC.		

**SUBCONTRACTOR / VENDOR
DIRECTORY**

PROJECT:	specimen L.
DATE:	JOB NO.:
BY:	PAGE: OF

#	COMPANY NAME ADDRESS	CONTACT NAME PHONE / FAX	DIV. #	WORK DESCRIPTION

SECTION 01021 - CASH ALLOWANCES

PART 1.00 - GENERAL

1.01 Quality Assurance:

Quality assurance for items furnished under "Cash Allowances" is described in sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance established.

1.02 Definitions:

See Article 3.8 of General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition.

1.03 Submittals:

Submittals pursuant to items furnished under "Cash Allowances" are described in sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

1.04 Product Handling:

Product handling of items furnished under "Cash Allowances" are described in sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

1.05 Job Conditions:

Job conditions affecting the installations of items furnished under "Cash Allowances" are described in sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

PART 2.00 - PRODUCTS

2.01 Materials:

Items required will be furnished under "Cash Allowances" as follows:

- A. Cash Allowances: The Contractor shall allow cash allowances for the purchase and installation of items as follows:
 - 1. Cash allowance of \$400.00 per new door with a door mark for purchase and installation of door hardware.
 - 2. Construction Plaque: \$1,000 for purchase and installation.
 - 3. Landscaping and Irrigation: \$40,000 for purchase and installation.
 - 4. Carpet – Purchase, delivery and installation to be \$40.00 S.Y.
 - 5. Brick - \$500 a thousand of a brick which may be a mixture of several different brick that will have to be hand mixed in the field.

- B. Contract Adjustment: The contract sum will be adjusted by change order based on the actual cost of the items purchased.

2.02 Fabrication:

Fabrication of items furnished under "Cash Allowances" is described in sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

PART 3.00 – EXECUTION

3.01 Inspection:

Inspection pursuant to commencing installation of items furnished under "Cash Allowances" is described in other sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

3.02 Installation:

Installation of items furnished under "Cash Allowances" is described in other sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

3.03 Field Quality Control:

Field quality control of the installation of items furnished under "Cash Allowances" is described in other sections of this project manual as referenced in Article 2.01 of this section for each specific cash allowance.

END OF SECTION

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SECTION 01101 - ALTERNATES / APPROVED MANUFACTURERS

PART 1.00 - GENERAL

1.01 Quality Assurance:

- A. Work Included: To enable the owner to compare total costs where alternate materials and methods might be used. Alternates have been established as shown on the drawings or described hereinafter in this section.

- B. Related Work Described Elsewhere:
 - 1. Materials and methods to be used in the Base Bid and in the Alternates as shown on the drawings or described in pertinent sections of this project manual or hereinafter in this section.
 - 2. Method for stating the alternates is described in Section B - Proposal Form, of this project manual.

1.02 Definitions: Omitted

1.03 Submittals:

All Alternates described hereinafter are required to be reflected on the Proposal Form submitted by bidders.

1.04 Product Handling:

Alternates are additive and may be accepted by the owner as he or she may choose and in any sequence that he or she may choose.

1.05 Job Conditions:

Job conditions pursuant to the installation of the various products or materials of each alternate will be as described in pertinent other sections of this project manual and in accordance with the published specifications of the manufacturer of the product or material being installed as a part of each alternate.

PART 2.00 - PRODUCTS

2.01 Alternates:

- A. Deductive Alternates: None

- B. Additive Alternates:
 - Additive Alternative No. One:** To sprinker the existing chapel with NFPA 13 System

 - Additive Alternative Two:** To install thin set ceramic tile floor and base in this space in lieu of resilient tile and resilient base

 - Additive Alternative No. Three:** To install vinyl wall covering in lieu of paint in this space.

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PART 3.00 - EXECUTION

3.01 Inspection:

Prior to beginning installation of any alternates, the contractor shall examine the areas and conditions under which the work is to be carried out; notify the Architect in writing of conditions detrimental to the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

- A. Advance Coordination: Immediately after award of the contract, thoroughly and clearly advise all necessary personnel and suppliers as to the nature and extent of alternates selected by the owner. Use all means necessary to alert those personnel and suppliers involved as to all changes in the work caused by the owner's selection or rejection of alternates.
- B. Alternates: Selected alternates will be incorporated into the building with installation being in conformance with the drawings, pertinent other sections of this project manual and the published instructions of the manufacturers whose products are being installed as a part of each alternate.

3.03 Field Quality Control:

- A. General: Field quality control pursuant to the installation of the various products or materials of each alternate is described in pertinent other sections of this project manual and in accordance with the published specifications of the manufacturer of the products or materials being installed as a part of each alternate.
- B. Inspection: Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

PART 4.00 - APPROVED MANUFACTURERS:

4.01 In addition to the manufacturers and products named or described in the project manual, the manufacturers and products listed hereinafter are acceptable provided they meet the requirements of each respective section of the project manual as well as the requirements of the drawings. All coordination and compatibility with other work necessitated by proposed substitution will be accomplished in complete and proper fashion at no cost to the owner.

4.02 Section 04201 - Unit Masonry

Brick

- 1. Boral (to match existing)

Block (Regular)

- 1. Williams Bros.
- 2. Bickerstaff
- 3. Solite

Block (Splitt - Face) (Not Used) Blocks (Acoustical) (Not Used)

- 1. Masonry Products
- 2. Williams Bros.
- 3. Nat'l. Concrete Masonry

- 1. Proudfoot
- 2. Williams Bros.
- 3. Acousta - Wal Association

Mortar

- 1. Medusa
- 2. Blue Circle
- 3. Solomon Grind-Chem Serv.

Reinforcing

- 1. Dur-O-Wal
- 2. Ileckman Bldg. Prod.
- 3. Masonry Reinf Corp. of America

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Mortar

1. Medusa
2. Blue Circle
3. Solomon Grind-Chem Serv.

Reinforcing

1. Dur-O-Wal
2. Ileckman Bldg. Prod.

4.03Section 05512 - Metal Spiral Stairs (Not Used)

4.04Section 05521 - Pipe and Tube Handrails and Railings

1. Julius Blum & Co.
2. T. G. Braun
3. Lawler Machine & Foundry Co., Inc.

4.05Section 05723 - Safety Nosings

1. Wooster Products
2. American Safety Tread
3. Armstrong Products, Inc.

4.06Section 05800 - Expansion Control Devices

1. Metalines
2. The C/X Group
3. MM Systems
4. Balco, Inc.

4.07Section 07114 - Below Grade Membrane Waterproofing

1. Sealtight "Melnar" by W.R. Meadows
2. Royston Waterproofing
3. America Colloid Co. (volclay)

4.08Section 07210 - Building Insulation

1. Owens Corning
2. CertainTeed
3. Manville

4.09Section 07535 - Reinforced Flexible Sheet Roofing System (**Not Used**)

1. Bondcote

4.10Section 07620 - Metal Flashing and Trim (To Match Existing)

1. AEP SPAM
2. ASC Pacific, Inc.
3. Berridge Manufacturing Co.
4. MM Systems

4.11 Section 07812 - Structural Skylights (not used)

4.12Section 07900 - Sealants

1. Dow Corning
2. G.E. Silicones
3. Sonneborn

4.13Section 08363 - Rolling Counter Doors

4.14Section 08401 - Aluminum Entrance & Storefronts

1. Kawneer
2. PPG
3. YKK
4. EFCO Corp.

4.15Section 08522 - Aluminum Windows

1. Kawneer
2. EFCO Corp.
3. Traco (min.3-7/8" frame depth)
4. Alenco (min. 3-7/8" frame depth)

4.16Section 08711 - Finish Hardware

Locksets & Cylinders

1. Schlage Lock Co.
2. Corbin
3. Yale
4. Best

Surface Closers

1. LCN Closers
2. Corbin
3. Norton

Push / Pull Plates

1. Triangle Brass
2. Quality
3. Ives

Silencers

1. Triangle Brass
2. Glyn-Johnson
3. Ives

Threshold

1. Zero International
2. National Guard
3. Hager
4. Pemko

Weather stripping

1. Zero International
2. National Guard
3. Pemko
4. Hager

Butts

1. Stanley
2. Hager Hinge Co.
3. H. Soss & Co.

Flush Bolts

1. Triangle Brass
2. Ives
3. Stanley

Surface Bolts

1. Triangle Brass
2. Ives
3. Stanley

Panic Devices

1. Von Duprin

Kick Plates

1. Quality
2. Bladwin
3. Ives

Stop / Bumpers / Holders

1. Triangle Brass
2. Glyn-Johnson
3. Ives

4.17Section 09553 - Strip Wood Flooring System (not used)

4.18Section 09660 - Resilient Tile Flooring

1. Armstrong (asbestos free)
2. Azrock (asbestos free)
3. Amitco Duravinyll Tile (asbestos free)

4.19Section 09680 - Floor Carpeting

1. Interface
2. Milliken

4.20Section 10441 - Building Identification Letters

1. Andco
2. Leeds
3. Matthews

4.21Section 10500 - Metal Lockers (not used)

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4.22Section 10800 - Rest Room, Shower Room, & Locker Room Accessories

1. Bradley
2. Bobrick
3. A & J

4.23Section 10900 - Wardrobe & Closet Specialties

1. Parker/Nutone, Inc.
2. Stanley
3. REI

4.24Section 11050 - Library Equipment (not used)

4.25Section 11181 - Dark Room Equipment (not used)

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4.26Section 11400 - Commercial Food Service Equipment (not used)

4.27Section 11461 Unit Kitchen (not used)

4.28Section 11873 - Dock Bumpers (not used)

1. Dura - Lock
2. Pawling Corp.
3. Serco Corp.

END OF SECTION

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SECTION 01301 - ADVANCE SUBMITTALS

PART 1.00 - GENERAL

1.01 Quality Assurance:

In order to insure that the minimum acceptable quality of workmanship and materials is adhered to and that all specified products are furnished and installed in accordance with the contract documents, the requirements of this section shall be strictly followed.

1.02 Definitions:

- A. Shop Drawings: See Article 3.12.1 of General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition.
- B. Product Data: See Article 3.12.2 of General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition.
- C. Samples: See Article 3.12.3 of General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition.
- D. Sepia Reproducible: A transparent copy of an original drawing, capable of being reproduced, maximum size 24 " x 36".

1.03 Submittals:

Make all submittals to the Architect in strict accordance with the provisions of this section.

1.04 Product Handling:

The Contractor shall be responsible for obtaining and distributing required submittals until final review, with or without exceptions, has been obtained from the Architect, or as the case may be, the Architect's consultant.

1.05 Job Conditions:

- A. Timing of Submittals:
 - 1. Make submittals far enough in advance of scheduled dates of installation to provide all required time for reviews, for securing necessary approvals, for possible revision and resubmittal, and for placing orders and securing delivery.
 - 2. In scheduling, allow at least twenty full working days for review following Architect's receipt of submittal.
- B. Delays: Costs of delays occasioned by tardiness of submittals may be back-charged as necessary and shall not be born by the Owner.

PART 2.00 - PRODUCTS

2.01 Drawings:

- A. Sheet Format: Drawings shall be prepared in accordance with the sheet format shown in Illustration SF-1 of this section.
- B. Type of Print Required: Sepia reproducible.

2.02 Manufacturers' Printed or Published Material:

01301 – 1

Printed or Published material shall be manufacturers' standard.

2.03 Samples:

Unless specifically noted otherwise in pertinent other sections of this project manual, all samples shall be the actual item proposed to be furnished and installed in the work.

PART 3.00 - EXECUTION

3.01 Contractor's Review:

The Contractor shall review all submittals and affix his or her signature and stamp of approval to same prior to submitting same to Architect.

- A. Items not approved by the Contractor shall not be submitted to the Architect and items submitted which do not bear the Contractor's stamp of approval will not be reviewed by the Architect.
- B. The Contractor's approval stamp must represent that the item(s) comply (complies) with the requirements of this project manual and has (have) been checked and coordinated with all parts of the work. Suggested wording of Contractor's approval stamp is shown in Illustration SF-3 of this section. (See Article 3.03 of this section).

3.02 Identification of Submittals:

Completely identify each submittal and resubmittal by showing at least the following:

- A. Name and address of submitter, plus name and telephone number of the individual who may be contacted for further information.
- B. Name of project and Architect as they appear on the cover of this project manual.
- C. Sheet number and project manual section number to which the submittal applies.
- D. Whether this is an original submittal or resubmittal.

3.03 Coordination of Submittal:

Prior to submittal for Architect's review, use all means necessary to fully coordinate all material, including but not limited to the following procedures:

- A. Determine and verify all field dimensions, quantities and conditions, materials, catalog numbers, and similar data.
- B. Coordinate as required with all trades and with all public agencies involved.
- C. Secure all necessary approvals from public agencies and others and signify by stamp, or other means, that they have been secured.
- D. Clearly indicate all deviations from the contract documents.

3.04 Grouping of Submittals:

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Unless otherwise specifically permitted by the Architect, make all submittals in groups containing all associated items; the Architect may reject partial submittals as not complying with the provisions of the contract documents.

3.05 Submitting Drawings:

- A. Scale Required: Unless otherwise specifically directed by the Architect, make all drawings accurately to a scale sufficiently large to show all pertinent features of the item and its method of connecting to the work.
- B. Number and Type of Prints Required:
 - 1. Submit on sepia reproducible of each sheet to be reviewed and 2 (two) blue line prints, maximum size 24" x 36" sheets.
 - 2. After the Architect has reviewed the submittal, it will be returned to the Contractor with the Architect's appropriate stamp affixed thereto, or as the case may be, the appropriate stamp of the Architect's consultant.
- C. Job Use Prints: After final review has been obtained from the Architect, or as the case may be, the Architect's consultant, and all corrections have been made, furnish the Architect with three "job use prints", in blue or black line on white background.

3.06 Submitting Manufacturer's Printed or Published Material:

Manufacturer's printed and published material which can not be reproduced on sepia reproduces shall be submitted in sufficient number as to allow the Architect to retain three copies of submitted material.

3.07 Submitting Samples:

- A. Number Required: Samples shall be submitted in sufficient number as to allow the Architect to retain two samples of each item submitted.
- B. Ownership:
 - 1. Unless specifically noted otherwise in pertinent other sections of this project manual, ownership of the submitted samples remains with the supplier of the same and may be reclaimed by him within thirty-five days after completion of the project.
 - 2. If the samples are not reclaimed by their supplier within thirty-five days after completion of the project, the Architect will dispose of said samples.

3.08 Submitting Color and Pattern Samples:

- A. General: Whenever a choice of color and/or pattern is available in a specified product and where a precise color and/or pattern is not specifically described for a product in pertinent other sections of this project manual, submit accurate color samples and/or pattern samples in sufficient number as to allow the Architect to retain two samples of each item submitted.
- B. Comparative Analysis: Unless all available colors and/or patterns have identical costs and wearing capabilities and are identically suited for the installation, completely describe the costs, capabilities and limitations of each color and/or pattern.

3.09 Schedule of required Submittals:

As an aid to and upon written request by the Contractor, the Architect will prepare a "Schedule of Required Submittals" and furnish such schedules to the Contractor.

END OF SECTION

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SECTION 01501 - TEMPORARY FACILITIES AND CONTROLS

PART 1.00 - GENERAL

1.01 Quality Assurance:

Temporary facilities and controls shall comply with laws, codes and regulations of the place where the project is located.

1.02 Definitions: Omitted

1.03 Submittals: Omitted

1.04 Product Handling:

- A. Use all means necessary to maintain temporary facilities and controls in proper and safe condition throughout the progress of the work.
- B. Replacements. In the event of loss or damage, immediately make all replacements and repairs necessary to the approval of the Architect and at no additional cost to the Owner.

1.05 Job Conditions:

Make all required connections to existing utility systems necessary to provide temporary utility services described hereinafter in accordance with provisions of this project manual.

PART 2.00 - PRODUCTS

2.01 Temporary Facilities:

A. Field Offices and Sheds:

- 1. Furnish, install and maintain throughout the work in this project, a field office building adequate in size and accommodation for all of Contractor's offices, superintendent's office, supply and tool room.
- 2. The field office shall be available to the Architect and /or his representative, the Owner and/or his representative and cooperating agencies throughout the work in this project.
- 3. The Contractor and his subcontractors may maintain such other offices and storage facilities as may be necessary to the proper conduct of the work in this project.

- B. Toilet Facilities: Furnish, install and maintain in a clean and sanitary condition throughout the work in this project, adequate enclosed toilet and washing facilities for use by persons employed on this project.

2.02 Temporary Enclosures and Controls:

Furnish, install and maintain, throughout the work in this project, all required scaffolds, tarpaulins, barricades, canopies, warning signs, steps, bridges, platforms and other temporary construction necessary for the proper and safe execution of the work in this project in compliance with all pertinent safety codes and other regulations.

2.03 Temporary Utilities:

A. Water and Sewer:

1. Furnish, install and maintain all necessary temporary water lines, sewer lines and service throughout the work in this project.
2. Cost of furnishing, installing and maintaining temporary water and sewer lines and services shall be paid for by the Contractor.

B. Gas:

1. Furnish, install and maintain all necessary temporary gas service throughout the work of this project.
2. Cost of furnishing, installing and maintaining temporary gas service shall be paid for by the Contractor.

C. Electricity:

1. Furnish, install and maintain all necessary temporary electrical lines and service throughout the work of this project.
2. Furnish and install area distribution boxes so located that individual trades may use 100 feet maximum length extension cords to obtain adequate power and artificial lighting at all points where required for the work, for inspection and for safety.
3. Cost of furnishing, installing and maintaining temporary electrical services shall be paid for by the Contractor.

D. Telephone and Fax (on separate lines):

1. Make all necessary arrangements and pay all costs for installation and operation of telephone service and fax service to the Contractor's field office throughout the work in this project.
2. This telephone and fax shall be made available for use by the Architect or his representative and the Owner or his representative.
3. The Contractor and his or her subcontractors may have other telephones as may be necessary to the proper conduct of the work of this project, making all arrangements for and paying all costs for said additional telephones and service.

E. Heat:

1. Provide, maintain and pay all costs for, throughout the work of this project, temporary heat as necessary to protect all work and materials from damage due to cold or dampness.
2. Fuel, equipment and heating shall not constitute a non-insurable fire hazard and shall be approved by the Architect prior to use.

2.04 Fencing of Construction Area: **Provide a 6' high temporary galvanized chain link fence around construction storage area; size to be determined by contractor.**

2.05 Haul Roads: Omitted

PART 3.00 - EXECUTION

3.01 Inspection: Omitted

3.02 Installation:

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Install (locate) field offices, storage sheds, toilet facilities and all other temporary facilities as directed or approved by the Architect.

3.03 Field Quality Control:

- A. Maintenance: Maintain all temporary facilities and controls and pay all costs related thereto, in a safe, functioning and sanitary condition throughout work in this project.

- B. Removal:
 - 1. Field offices, sheds, toilet facilities, temporary enclosures and controls shall be removed only after approval of their removal by the Architect.

 - 2. Temporary utilities may be removed as soon as permanent utility services are provided and are properly working; cost for maintaining permanent utility service shall be paid by the Contractor until date as determined at time of issuing of the Architect's Certificate of Substantial Completion.

END OF SECTION

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SECTION 01502 - PROJECT RECORD DOCUMENTS

PART 1.00 - GENERAL

1.01 Quality Assurance:

- A. Qualifications of Workmen: The contractor shall designate one workman in his employ who is thoroughly trained in maintaining project records and who is completely familiar with the requirements of this work, who shall maintain all project record documents and who shall record all pertinent changes.
- B. Identification of Documents: All project record documents shall be clearly marked "Project Record Copy", not used for construction purposes and available to the Architect and/or his representative at all times.

1.02 Definitions: Omitted

1.03 Submittals:

At least ten days prior to the date of Final Inspection, and as a condition of acceptance of the work, submit all project record documents to the Architect.

1.04 Product Handling:

- A. Protection: Use all means necessary to protect the project record documents from damage.
- B. Replacements: In the event of damage, the Architect will replace copies of the documents and charge the Contractor for the replacement cost; however, it shall be the Contractor's responsibility to transfer recorded information from the damage documents to the replacement documents.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Project Record Documents:

Project record documents include, but are not necessarily limited to:

- A. Drawings.
- B. Project Manual.
- C. Addenda.
- D. Approved Shop Drawings.
- E. Change Orders.
- F. Field Orders.
- G. Construction drawings and other documents furnished to the Contractor by the Architect.
- H. Approved documents submitted by the Contractor in compliance with pertinent other sections of this project manual.
- I. Other Contract Modifications.

PART 3.00 - EXECUTION

3.01 Inspection: Omitted

3.02 Marking Project Record Documents:

- A. General: Mark the most appropriate document within 24 hours of receipt of information, to show:
 - 1. Significant changes made during construction.

2. Significant details not shown in the original Contract Documents.
- B. Information to be Recorded: The information recorded on the documents shall include, but not be limited to:
1. Location of all underground utilities and appurtenances referenced to permanent surface improvements.
 2. Location of all internal utilities and appurtenances concealed in the building structures, referenced to visible and accessible features of the structures.
- C. Method of Marking and Recording:
1. Using colored pencils for graphic work, conform to the following color code:
 - a. Red for architectural work.
 - b. Brown for structural work.
 - c. Green for mechanical work.
 - d. Yellow for electrical work.
 2. Use a red pen for all written work.
- 3.03 Field Quality Control:
- A. General: Project record documents shall be kept current and no work shall be concealed until all required information has been recorded.
- B. Accuracy of Entries: Use all means necessary, including, but not necessarily limited to, the proper tools for measurement, to determine the exact locations of installed items.
- C. Inspection: As a prerequisite to the Architect's approval of request for progress payments and request for final payment, the Architect will, by inspection of the project record documents, determine if same are current; progress payments nor final payment will not be made until the Architect has approved the current status of the project record documents.

END OF SECTION

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SECTION 02110 - DEMOLITION

PART 1.00 - GENERAL

1.01 Quality Assurance:

- A. **Qualifications of Workmen:** Provide at least one person who shall be present at all times during demolition operations and who shall be thoroughly familiar with the requirements of this portion of the work and the methods by which the same is accomplished.
- B. **Codes and Standards:** In addition to complying with all pertinent codes and regulations, comply with the requirements of those insurance carriers providing coverage for this work.
- C. **Contractor's Responsibility:** It shall be the Contractor's responsibility to protect all existing construction designated to remain and to provide for the public safety during all demolition operations.

1.02 Definitions: Omitted

1.03 Submittals: Omitted

1.04 Product Handling:

- A. **Damage to Existing Construction:** In the event of damage to any construction and/or equipment not scheduled to be demolished or removed, the Contractor shall immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner. The Contractor is to provide all necessary barricades, coverings, floor protection, wall protection, door and frame protection to prevent damage to any construction that is to remain.

1.05 Job Conditions:

- A. **Dust Control:** Use all means necessary to prevent the spread of dust during the performance of the work of this section.
- B. **Burning:** On-site burning will not be permitted.
- C. **Hazardous Materials:** Should, during the course of demolition, any suspect hazardous materials be encountered, stop work in suspect area and immediately notify the Architect. See Section F. Items 19 & 20 for additional information.

PART 2.00 - PRODUCTS

2.01 Materials:

- A. **Barricades:** Use only new and solid lumber and plywood of utility grade or better for construction of all temporary barricades.
- B. **Other Materials:** All other material, not specifically described but required for the proper execution of the work of this section shall be selected by the Contractor, subject to approval by the Architect.

PART 3.00 - EXECUTION

3.01 Inspection:

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The Contractor shall examine the areas and conditions under which the demolition operations are to be carried out; notify the Architect in writing of conditions detrimental to the completion of the demolition; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preparation:

1. Notification: Notify the Architect at least two full working days prior to commencing the work of this section.
2. Site Inspection: Prior to all work of this section, carefully inspect the entire site and all objects designated to be removed and to be preserved.
3. Clarification: The drawings show generally all existing construction that is to be removed; however,
 - a. Remove existing ceilings as shown on the drawings.
 - b. Removal of various mechanical and electrical items as shown.
 - c. Removal of existing walls, doors, windows, frames, millwork, concrete slabs and floor finishes as shown. **Do not remove any structural columns in walls.**
 - d. Before commencing the work of this section, verify with the Architect all construction that is to be removed.
4. Scheduling:
 - a. Schedule all work in a careful manner with all necessary consideration for neighbors and the public.
 - b. Avoid interference with the use of and passage to and from adjacent buildings and facilities.

3.03 Field Quality Control:

- A. Temporary Barricade: Construct temporary barricades to protect existing construction and the public from damage or harm caused by the work of this section; barricades shall be constructed in accordance with all pertinent codes and regulations.
- B. Disconnection of Utilities: Before starting site operations, disconnect or arrange for disconnection of all utility services designated to be removed, performing all such work in accordance with the requirements of the utility company or agency involved.
- C. Protection of Utilities: Preserve in operating condition all active utilities traversing the site. all active utilities designated to remain, and make all necessary temporary connections to maintain all utilities to existing building at all times.
- D. Demolition: Demolish existing construction designated to be removed on the drawings or as determined under Article 3.02, A, 3, in their entirety.
- E. Disposal of Debris: Remove from the site all debris resulting from the demolition operations; burning of debris on site will not be permitted; place of disposal for demolished items shall be the Contractor's responsibility.

END OF SECTION

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SECTION 05501 - METAL FABRICATIONS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Industry Standards:

1. Some products and execution are specified in this section by reference to published specifications or standards (with respective abbreviations used); these referenced publications may be subject to special conditions or limitations where specified hereinafter.
2. Reference Publications:
 - a. The American Society for Testing & Materials (ASTM).
 - b. Federal Specifications (FS).
 - c. Code for "Welding in Building Construction" by American Welding Society (AWS).

B. Qualifications of Fabricator:

The fabricator of the products of this section shall have been engaged in the business of metal fabrication for a period of not less than five years immediately prior to commencing fabrication of the items hereinafter described or shown on the drawings.

C. Qualifications of Welders:

All welding shall be done only by welders certified in accordance with the procedures of Standard B 3.01 of AWS.

1.02 Definitions: Omitted.

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit one set of sepias and two sets of bluelines in accordance with section 01301.

C. Manufacturer's Data:

Accompanying the shop drawing submittal, submit to the Architect for review, manufacturer's descriptive and specification data for each manufactured item shown on the drawings or described hereinafter.

D. Certificate of Welders:

Prior to commencing installation of any work of this section, furnish an affidavit to the Architect stating that all welders employed in the execution of this portion of the work have been previously qualified in accordance with Article 1.01 of this section.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Structural Steel:

1. Shapes, Bars and Plates:

All structural steel shapes, bars and plates shall meet requirements of ASTM A36-84.

2. Tubing:

All structural steel tubing shall meet requirements of ASTM A500-84.

B. High Strength Bolts, Nuts and Washers:

All high strength bolts, nuts and washers shall meet requirements of ASTM A325-84.

C. Other Bolts, Nuts and Washers:

All other bolts, nuts and washers shall meet requirements of ASTM A449-84.

D. Expansion Shields:

Expansion shields shall be of the sizes shown on the drawings and meet the requirements of federal specification FF-S-325.

E. Toggle Bolts:

Toggle bolts shall be of the sizes shown on the drawings and meet the requirements of federal specification FF-B-588.

F. Checkered Plate: **(NOT USED)**

Checkered plate shall be 14 gauge steel.

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G. Electrodes:

1. Electrodes shall be mild steel arc welded electrodes conforming to requirements of ASTM A233.
2. Electrodes for manual shielded arc welding shall be E70.18, subject to provisions as hereinafter described.
3. Electrodes for automatic inert gas shielded arc welding shall be No. 70.
4. Electrodes for automatic submerged arc welding shall SAW-2.
5. Electrodes used in both shop and field shall be kept warm and dry after the seal is broken on the original container and shall not be used if exposed to atmospheric conditions for more than one hour.

H. Pipe: shall be standard weight of diameters shown on the drawings.

I. Anchoring Grout:

All anchoring grout shall be "Por-Rok" as manufactured by Sterling Drug, Inc., Montvale, NJ.

J. Shop and Field Primer Paint:

All shop and field primer paint shall be one of the following:

1. Tnemec 99 red metal primer as manufactured by Tnemec Company.
2. Rust-Oleum 769 damp-proof red primer as manufactured by Rust-Oleum Corp.
3. Southern Coatings RIP476 as manufactured by Southern Coatings and Chemical Company.

2.02 Fabrication:

A. General:

Fabricate all metal items, including but not necessarily limited to angle brackets for counters and strap anchors for masonry to the designs shown on the drawings and from the materials indicated thereon; all welds shall be ground smooth.

B. Shop Cleaning and Priming:

1. All ferrous metal items shall be thoroughly cleaned at the shop after fabrication and given one shop coat of paint.
2. Dry film thickness of shop paint shall be two mils.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. General:

1. Work shall be erected plumb and true in relation to adjoining work unless otherwise shown.
2. The setting of items to be built into concrete or masonry work is included in their respective sections; the erection of all other items are included herein.
3. Fastening shall be concealed where shown on the drawings.
4. Joints exposed to weather shall be formed to exclude water.
5. Provide holes and connections for the work of all other trades.
6. Use toggle bolts for anchoring into concrete masonry unless noted otherwise.
7. Use metal shields for expansion bolts and screws; steel drive bolts of same size as noted for expansion bolts, with split shank, closed ends, with threads at one end may be substituted for expansion bolts into concrete.

B. Welding:

All welding shall be done in accordance with the referenced standards using shielded arc electrodes.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Touch-Up Priming:

After installation is complete, touch-up all shop priming coats damaged during transportation and installation and prime all field welds, using the priming paint specified for shop painting.

END OF SECTION

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SECTION 05521 - PIPE AND TUBE HANDRAILS AND RAILINGS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Industry Standards:

1. Some products and execution are specified in this section by reference to published specifications or standards (with respective abbreviations used); these referenced publications may be subject to special conditions or limitations where specified hereinafter.

2. Reference Publications:

- a. The American Society for Testing & Materials (ASTM).
- b. Federal Specifications (FS).
- c. Code for "Welding in Building Construction" by American Welding Society (AWS).

- B. Qualifications of Fabricator: The fabricator of the products of this section shall have been engaged in the business of metal fabrication for a period of not less than five years immediately prior to commencing fabrication of the items hereinafter described or shown on the drawings.

- C. Qualifications of Welders: All welding shall be done only by welders certified in accordance with the procedures of Standard B 3.01 of AWS.

1.02 Definitions: Omitted.

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit to the Architect for review fabricator's shop drawings for each fabricated metal item shown on the drawings or described hereinafter.

C. Manufacturer's Data:

Accompanying the shop drawing submittal, submit to the Architect for review, manufacturer's descriptive and specification data for each manufactured item shown on the drawings or described hereinafter.

D. Certificate of Welders:

Prior to commencing installation of any work of this section, furnish an affidavit to the Architect stating that all welders employed in the execution of this portion of the work have been previously qualified in accordance with Article 1.01 of this section.

1.04 Product Handling:

- A. Protection: Protect the products of this section from damage during delivery, storage and after installation.
- B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

PART 2.00 - PRODUCTS

2.01 Materials:

- A. Steel Pipe: Standard weight of the outside diameter (O.D.) as indicated on the drawings or described hereinafter.
- B. Steel Tube: Size and gauge as indicated on the drawings or described hereinafter.
- C. Aluminum Pipe: 1-1/4" nominal size, wall thickness of 0.140 inch and weighing 0.785 pound per lineal foot with clear anodized finish.
- D. Wall Brackets:
 - 1. Steel:

Design is based on No. 306, Malleable Iron, as manufactured by Julius Blum & Co., Inc., Carlstadt, NJ
 - 2. Aluminum:

Design is based on No. 321, to receive paint, as manufactured by Julius Blum & Co., Inc., Carlstadt, NJ, with clear anodized finish.
- E. Woven Wire Mesh: shall be not less than 10 gauge in 1-1/2" diamond pattern.
- F. Accessories: Provide matching end terminals, as shown on the drawings, for all rails.
- G. Bolts: Sizes as required in material compatible with items with which used.
- H. Expansion Shields: Sizes as required for bolt with which they are used and meeting the requirements of Federal Specification FF-S-325.
- I. Anchoring Grout: "Por-Rok" as manufactured by Sterling Drug, Inc., Montvale, NJ.
- J. Shop and Field Primer Paint:

All shop and field primer paint shall be one of the following:

 - 1. Tnemec 99 red metal primer as manufactured by Tnemec Company.
 - 2. Rust-Oleum 769 damp-proof red primer as manufactured by Rust-Oleum Corp.
 - 3. Southern Coatings RIP476 as manufactured by Southern Coatings and Chemical Company.

2.02 Fabrication:

- A. General: Fabricate all handrails and railings to the designs shown on the drawings and from the materials indicated thereon; all welds shall be ground smooth.

- B. Shop Cleaning and Priming:
 - 1. All ferrous metal items shall be thoroughly cleaned at the shop after fabrication and given one shop coat of paint.

 - 2. Dry film thickness of shop paint shall be two mils.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

- A. General:
 - 1. Work shall be erected plumb and true in relation to adjoining work unless otherwise shown.

 - 2. The setting of items to be built into concrete or masonry work is included in their respective sections; the erection of all other items are included herein.

 - 3. Fastenings shall be concealed where shown on the drawings.

 - 4. Bolts or nuts exposed to view is finish work shall be hex.

- B. Post Mounted Handrails: Install in the locations shown on the drawings and in accordance with the details shown thereon.

- C. Wall Mounted Handrails: Install in the locations shown on the drawings, using wall brackets as shown; space brackets as shown on the drawings, but in no case more than 48 inches on centers; attach handrail to brackets as indicated with screws from under side.

- D. Welding: All welding shall be done in accordance with the referenced standards using shielded arc electrodes.

3.03 Field Quality Control:

- A. Inspection: Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Touch-Up Priming:

After installation is complete, touch-up all shop prime coats damaged during transportation, storage and installation and prime all field welds, using the prime paint specified for shop priming.

END OF SECTION

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SECTION 06101 - ROUGH CARPENTRY

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Industry Standards:

1. Some products and execution are specified in this section by reference to published specifications or standards (with respective abbreviations used); these referenced publications may be subject to special conditions or limitations where specified hereinafter.
2. Referenced Publications:
 - a. Southern Pine Inspection Bureau (SPIB).
 - b. Federal Specifications (FS).
 - c. American Wood Preservers Association (AWPA).
 - d. American Plywood Association (APA).

B. Grade Mark:

All lumber and plywood shall bear the grade mark as described hereinafter.

1.02 Definitions: Omitted.

1.03 Submittals: Omitted.

1.04 Product Handling:

A. Protection:

1. Protect materials and products of this work from damage before, during and after delivery to the project site, and after installation into the work.
2. Deliver the materials to the project site and store in a safe area, out of way of traffic and shored up off the ground surface.
3. Store materials in such a manner as to insure proper ventilation and drainage and to protect against damage from weather.
4. Store lumber that has been treated with fire retardant chemical in a housed, dry and ventilated area.
5. Identify all framing lumber as to grades and store all grades separately from other grades.
6. Keep all material clearly identified with all grade marks legible; keep all damaged material clearly identified as damaged, and separately store to prevent its inadvertent use.
7. Do not allow installation of damage or otherwise non-complying material.
8. Protect all metal products with adequate water proof outer wrappings.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted.

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PART 2.00 - PRODUCTS

2.01 Materials:

- A. Framing Lumber: All framing lumber shall be SPIB grade marked No. 2 Southern Yellow Pine, kiln dried, with not more than 19 percent moisture content.
- B. Insulated Sheathing: Omitted.
- C. Miscellaneous Lumber: Lumber for blocking, furring, roof curbs, roof edges and other miscellaneous items shall be SPIB grade marked No. 2 Southern Yellow Pine, kiln dried, with not more than 19 percent moisture content.
- D. Plywood:
 - 1. Exterior:
Unless otherwise shown on the drawings, exterior plywood shall be AWI 200G10 fabricated with type 1 adhesives, softwood veneer surfaces, (AWI 200S-5, grade A-C); plywood shall be thickness shown on the drawings.
 - 2. Subfloor:
Plywood used for subflooring shall be C-C EXT-APA, group 1, tongue and grooved long edges and shall be 3/4" thick.
 - 3. Underlayment:
Plywood used for underlayment for carpet or resilient floor covering shall be C-C EXT-APA, UNDERLAYMENT, group 1, tongue and grooved long edges and shall be 3/4" thick.
- E. Nails:
 - 1. For application to wood, nails shall be annular thread, coated steel of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
 - 2. For application to concrete or masonry, nails shall be smooth shank, hardened steel, with counter-sunk heads, of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
- F. Bolts and Screws: shall be of the sizes and types shown on the drawings.
- G. Framing Accessories: Omitted.
- H. Wood Preservative: Wood preservative used for chemically treating lumber used in this portion of the work shall be "Osiose K-33" as manufactured by Osiose, Buffalo, NY.
- I. Fire Retardant: Fire retardant chemical used for treating lumber in this portion of the work shall be "Osiose Flame Proof" as manufactured by Osiose, Buffalo, NY.

2.02 Fabrication:

- A. Rough Carpentry: Fabricate all framing, furring, blocking, roof curbs, roof edges and other miscellaneous items from lumber as described hereinbefore and to the designs shown on the drawings.
- B. Chemical Treatment of Lumber:

All lumber and fabricated wood items that will be in contact with concrete slabs on grade, masonry or used in conjunction with the roofing systems, shall be treated with the specified chemical in strict accordance with AWPA Standard P-5; retention shall be in accordance with AWPA Standards C1, C2 and C9; after treatment and before delivering of any treated materials or products to the project site, reduce moisture content of the treated material to a maximum of 19 percent.

C. Fire Retardant Treatment:

All wood noted on the drawings as "fire treated" shall be treated with the specified chemical and shall bear UL FR-S labels indicating that the treated products meet the following as determined by ASTM E-84:

1. Flame Spread: 25 or less
2. Fuel Contributed: 25 or less
3. Smoke Developed: 25 or less

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Workmanship:

All rough carpentry shall produce joints that are true, tight, well fastened and with all members assembled in accordance with the drawings.

B. Selection of Lumber Pieces:

1. Carefully select all members; select individual pieces so that knots and obvious defects will not interfere with placing bolts or proper nailing or making proper connections.
2. Cut out and discard all defects which will render a piece unable to serve its intended function; lumber may be rejected by the Architect, whether or not it has been installed, for excessive warp, twist, or bow, crook, mildew, fungus, or mold, as well as for improper cutting and fitting.

C. Shimming: Do not shim sills, joists, short studs, trimmers, headers, lintels or other framing components.

D. General Framing:

1. In addition to all framing operations normal to the fabrication and erection indicated on the drawings, install all backing required for the work of other trades.
2. Set all horizontal or sloped members with crown up.
3. Do not notch, bore or cut members for pipes, ducts, conduits or other reasons except as shown on the drawings or as specifically approved in advance by the Architect.

4. Install miscellaneous items for which the rough carpenter trade is customarily responsible, such as "Template" setting of anchor bolts, providing frames for openings through concrete and/or masonry, insertion of hangers for suspended ceilings and like items.
5. Make all bearings full unless otherwise indicated on the drawings.
6. Finish all bearing surfaces on which structural members are to rest so as to give sure and even support; where framing members slope, cut or notch ends as required to give uniform bearing surface.
7. Install all blocking, furring plaster grounds and similar items as shown on the drawings.
8. Install roof edges and curbs in the locations shown on the drawings and in accordance with the details shown thereon.

E. Insulated Sheathing: Omitted.

F. Laying of Subfloors and Underlayments:

Subfloors and underlayments should be installed in locations shown on the drawings in strict accordance with the standard specifications of American Plywood Association's publication: "Plywood, Commercial / Industrial Construction Guide"; November, 1976 edition.

G. Nailing:

Using only the specified nails; do all nailing without splitting wood members, preboring as required; replace all split members.

H. Bolting:

1. Drill holes 1/16" larger in diameter than the bolts being used; drill straight and true from one side only.
2. Bolt threads must not bear on wood; use washers under head and nut where both bear on wood; use washers under all nuts.

I. Screws:

1. For lag screws and wood screws, prebore holes same diameter as root of thread; enlarge holes to shank diameter for length of shank.
2. Screw, do not drive, all lag screws and wood screws.

3.03 Field Quality Control:

A. Chemical Treatment of Lumber:

Apply two brush coats of the specified chemical to all field cuts of chemically treated lumber.

B. Clean Up:

1. At the end of each working day, or more often if necessary, thoroughly sweep all surfaces where refuse from this portion of the work has settled.
2. Remove the refuse to the area of the job site set aside for its storage.

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3. Upon completion of this portion of the work, thoroughly broom clean all surfaces.

C. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 06221 - FINISH CARPENTRY AND MILLWORK

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Fabricator:

The fabricator of the products of this section shall have been successfully engaged in the fabrication of millwork for a period of not less than five years immediately prior to furnishing the products of this section and shall have successfully completed projects of similar size.

B. Qualifications of Installers:

1. Finish carpentry and millwork shall be installed only by skilled journeymen finish carpenters who are familiar with the materials involved and the manufacturer's recommended methods of installations and who are thoroughly familiar with the requirements of this work.
2. In acceptance or rejection of the work of this section, no allowance will be made for lack of skill on the part of installers.

C. Industry Standards:

1. Finish carpentry and millwork shall be in accordance with "Architectural Woodwork Quality Standards and Guide Specifications", Seventh Edition, version 1.0, 1997, as published by The Architectural Woodwork Institute (AWI) to the extent of the references made hereinafter thereto.
2. Plywood shall be in accordance with the American Plywood Association (APA) standards to the extent of the references made hereinafter thereto.

1.02 Definitions: Omitted.

1.03 Submittals:

- A. Proof of Compliance: Prior to commencing any work of this section, submit in triplicate to the Architect:
1. a certified statement of qualifications and
 2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit manufacturer's shop drawings to the Architect for review, fully dimensioned, showing actual field measurements and showing method of installation and anchorage.

1.04 Product Handling:

- A. Protection: Protect the products of this section from damage during delivery, storage and after installation.
- B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

For a period of not less than ten days prior to commencing installation of products of this section, throughout installation and until date of Architect's final certificate, provide heat to maintain a temperature of not less than 50 degrees Fahrenheit.

B. Humidity:

In spaces where the products are being installed, throughout installation and until date of Architect's final certificate, maintain relative humidity of not more than 60%.

C. Lighting:

Maintain lighting of not less than three watts per square foot of floor area in spaces where installation of products is in progress.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Exterior Wood Columns: (Not Used)

B. Exterior Molded Millwork: Omitted.

C. Interior Wood:

1. Solid Wood (Opaque Finish):

Interior solid wood scheduled to receive an opaque finish shall be AWI section 100, grade II, ponderosa pine, plain cut, kiln dried, with a moisture content of not more than 11%.

2. Solid Wood (Transparent Finish-Stained or Natural):

All solid wood scheduled to receive an transparent finish (stained or natural) shall be AWI section 100, grade I, white birch, plain cut, kiln dried, with a moisture content of not more than 11%.

3. Plywood (Opaque Finish):

Interior plywood scheduled to receive an opaque finish shall be AWI section 200, grade II, face grade A, white or red birch, veneer core, rotary sawn exposed to view faces.

4. Plywood (Transparent Finish Stained or Natural): Omitted

D. Nails:

1. For application to wood, nails shall be annular thread, coated steel of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-101.

2. For application to concrete or masonry, nails shall be smooth shank, hardened steel with counter sunk heads of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-101.

3. Finish nails shall be helical thread, hardened steel, bright finish, except coated nails shall be used in exterior work, and meet the requirements of Federal Specification FF-N-101.

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- E. Bolts: shall be of the sizes and types for the particular use intended, except where used in exposed to view work heads shall be round.
- F. Glue: shall meet the requirements of CS-35, type 1 and be fully waterproof.
- G. Preservative: Omitted.
- H. Insect Screen: Omitted.

2.02 Fabrication:

A. General:

1. All work shall be fabricated in strict accordance with the referenced standards hereinafter described for each specific item and the original design.
2. All items shall be shop sanded.
3. All nails shall be set and left ready to putty.

B. Standing and Running Trim:

Fabricate all standing and running trim in strict accordance with AWI Section 300, Premium Grade, for opaque or transparent finish as indicated on the drawings or in the schedules; wood species shall be as indicated on the drawings.

- C. Paneling: Omitted
- D. Wood Handrails: Omitted.
- E. Wood Frames: Omitted.
- F. Wood Louvers: Omitted.
- G. Chemical Treatment: Omitted.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. General:

1. Finish carpentry and millwork items shall be installed in the locations shown on the drawings and in compliance with the details shown thereon.
2. All work shall be plumb, true to line, level and accurately fitted together with joints mitered and glued, except interior corners may be coped.
3. Where work abuts other surfaces or materials, it shall be accurately scribed to such surfaces or materials.

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4. Where blocking or backing is required, coordinate as necessary with other trades to ensure placement of all required blocking and backing in a timely manner.

5. Unless otherwise shown on the drawings, wood shall be attached to wood with nails, using only finishing nails in exposed to view work and wood shall be attached to concrete and masonry with nails, expansion bolts, bolts and expansion shields, or toggle bolts as the situation dictates.

B. Standing and Running Trim:

Install all standing and running trim in lengths as long as possible, nailing to blocking or backing material with finishing nails at 12" on centers, maximum; all joints shall be staggered, mitered and glued.

C. Frames: Omitted.

D. Plywood:

Install plywood in the locations shown on the drawings in accordance with the details shown thereon, nailing to blocking or backing material at 12" on centers, maximum.

E. Louvers: Omitted.

3.03 Field Quality Control:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 06410 – CABINETWORK

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Fabricator:

The fabricator of the products of this section shall have been successfully engaged in the fabrication of cabinetwork for a period of not less than five years immediately prior to furnishing the products of this section and shall have successfully completed projects of similar size.

B. Industry Standards:

Cabinetwork shall be fabricated in accordance with "Architectural Woodwork Quality Standards and Guide Specifications", Seventh Edition, version 1.0, 1997, as published by The Architectural Woodwork Institute (AWI) to the extent of the references made hereinafter thereto.

1.02 Definitions: Omitted.

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit manufacturer's shop drawings to the Architect for review, fully dimensioned, showing actual field measurements and showing method of installation and anchorage.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

For a period of not less than ten days prior to commencing installation of products of this section, throughout installation and until date of Architect's final certificate, provide heat to maintain a temperature of not less than 50 degrees Fahrenheit.

B. Humidity:

In spaces where the products are being installed, throughout installation and until date of Architect's final certificate, maintain relative humidity of not more than 60%.

C. Lighting:

Maintain lighting of not less than three watts per square foot of floor area in spaces where installation of products is in progress.

D. Coordination With Other Trades:

Because equipment and fixtures scheduled to be installed in cabinetwork are furnished under other sections of this project manual as is utility hookups, cooperate as necessary with all other trades to ensure proper and adequate provisions for installation and anchorage of the equipment and fixtures and to insure proper and adequate provisions for the required utility sizing and locations.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Solid Wood:

1. Exposed to View (includes inside & outside cabinets, drawers):

All solid wood exposed to view in the finished work, shall be AWI section 100, grade 1, white birch, plain cut, kiln dried, with moisture content of not more than 8%.

2. Unexposed to View:

All solid wood which will not be exposed to view in the finished work, such as web frames, shall be AWI section 100, grade III, southern yellow pine, plain cut, kiln dried, with moisture content of not more than 11%.

B. Plywood:

1. Exposed to View (includes inside & outside cabinets, drawers):

All plywood exposed to view in the finished work, shall be AWI section 300, grade A, white birch, veneer core, plain cut face veneers on all exposed to view faces.

2. Underlayment:

All plywood used as underlayment for laminated plastic shall be AWI section 200, backing grade, mill option face veneer.

C. Particle Board:

All particle board shall meet requirements of CS 236-66, type 1-B-2.

D. Laminated Plastic:

1. All laminated plastic shall be 1/16" thick and meet the requirements of NEMA LC1-1964, type 1, class 1, and Federal Specification LP508F, type 1, HP grade, class 1.

2. Colors will be as described in Section 09999 of this project manual.

E. Glue:

All glue shall meet the requirements of CS-35, type 1, and be fully waterproof.

F. Nails:

1. For application to wood, nails shall be annular thread, coated steel of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
2. For application to concrete or masonry, nails shall be smooth shank hardened steel with countersunk heads with the of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
3. Finish nails shall be helical thread, hardened steel, bright finish except coated nails shall be used in exterior work and meet the requirements of Federal Specification FF-N-105.

G. Bolts: All bolts shall be of the types and sizes shown on the drawings.

2.02 Fabrication:

A. General:

1. All cabinetwork shall be fabricated in strict accordance with the referenced standards hereinafter described for each specific item and to the sizes and design shown on the drawings.
2. All items shall be shop sanded, with all nails set and left ready to putty.
3. All shelf standards shall be recessed.

B. Detail Requirements:

1. All cabinetwork shall be fabricated from the materials shown on the drawings.
2. Fabrication shall be in strict accordance with AWI section 400, premium grade for transparent finish without regard to the Finish Schedule or called for on the drawings or described elsewhere.
3. Cabinet hardware shall be installed at the fabricator's shop; installation of hardware:
 - a. Door and Drawer Pulls: To be chrome wire pulls.
 - b. Hinges - 2 per leaf, 4 for tall doors: To be snap-on type as manufactured by Grass America, Inc. and distributed by Morrison Supply Co., Inc. Chamblee, GA (404) 455-8244
 - c. Recessed Shelf Standards: No. 255 with No. 256 Supports, Knappe & Vogt Mfg. Co.
 - d. Drawer Guides: No. 1300, Knappe & Vogt Mfg. Co.
 - e. Catches: No. 46, Stanley Hardware

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Cabinetwork:

All cabinetwork shall be installed in the proper locations as shown on the drawings, true to line, plumb, square and level; cabinetwork shall be anchored in place.

B. Cut-outs For Other Trades:

Cut-outs for items described in other sections of this project manual to be built-in to the cabinets or counters shall be made by the cabinetwork fabricator at the project site only after the cabinetwork has been installed.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Adjustment:

Upon completion of the installation of the cabinetwork, inspect all cabinet hardware and adjust for proper operation.

END OF SECTION

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SECTION 06411 - COUNTERS AND SHELVES

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Fabricator:

The fabricator of the products of this section shall have been successfully engaged in the fabrication of cabinetwork for a period of not less than five years immediately prior to furnishing the products of this section and shall have successfully completed projects of similar size. All counters to be casework.

B. Industry Standards:

Cabinetwork shall be fabricated in accordance with "Architectural Woodwork Quality Standards and Guide Specifications", Seventh Edition, version 1.0, 1997, as published by The Architectural Woodwork Institute (AWI) to the extent of the references made hereinafter thereto.

1.02 Definitions: Omitted.

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit manufacturer's shop drawings to the Architect for review, fully dimensioned, showing actual field measurements and showing method of installation and anchorage.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

For a period of not less than ten days prior to commencing installation of products of this section, throughout installation and until date of Architect's final certificate, provide heat to maintain a temperature of not less than 50 degrees Fahrenheit.

B. Humidity:

In spaces where the products are being installed, throughout installation and until date of Architect's final certificate, maintain relative humidity of not more than 60%.

C. Lighting:

Maintain lighting of not less than three watts per square foot of floor area in spaces where installation of products is in progress.

D. Coordination With Other Trades:

Because equipment and fixtures scheduled to be installed in cabinetwork are furnished under other sections of this project manual as is utility hookups, cooperate as necessary with all other trades to ensure proper and adequate provisions for installation and anchorage of the equipment and fixtures and to insure proper and adequate provisions for the required utility sizing and locations.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Solid Wood:

1. Exposed to View:

All solid wood exposed to view in the finished work, shall be AWI section 100, grade 1, white birch, plain cut, kiln dried, with moisture content of not more than 8%.

2. Unexposed to View:

All solid wood which will not be exposed to view in the finished work, such as web frames, shall be AWI section 100, grade III, southern yellow pine, plain cut, kiln dried, with moisture content of not more than 11%.

B. Plywood:

1. Exposed to View:

All plywood exposed to view in the finished work, shall be AWI section 300, grade A, white birch, veneer core, plain cut face veneers on all exposed to view faces.

2. Underlayment:

All plywood used as underlayment for laminated plastic shall be AWI section 200, backing grade, mill option face veneer.

C. Particle Board: All particle board shall meet requirements of CS 236-66, type 1-B-2.

D. Laminated Plastic:

1. All laminated plastic shall be 1/16" thick and meet the requirements of NEMA LC1-1964, type 1, class 1, and Federal Specification LP508F, type 1, HP grade, class 1.

2. Colors will be as described in Section 09999 of this project manual.

E. Glue:

All glue shall meet the requirements of CS-35, type 1, and be fully waterproof.

F. Nails:

1. For application to wood, nails shall be annular thread, coated steel of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
2. For application to concrete or masonry, nails shall be smooth shank hardened steel with countersunk heads with the of the sizes and types for the particular use intended and meet the requirements of Federal Specification FF-N-105.
3. Finish nails shall be helical thread, hardened steel, bright finish except coated nails shall be used in exterior work and meet the requirements of Federal Specification FF-N-105.

G. Bolts: All bolts shall be of the types and sizes shown on the drawings.

2.02 Fabrication:

A. General:

1. All products shall be fabricated in strict accordance with the referenced standards hereinafter described for each specific item and to the sizes and design shown on the drawings.
2. All items shall be shop sanded, with all nails set and left ready to putty.
3. All shelf standards shall be recessed.

B. Detail Requirements:

1. All products shall be fabricated from the materials described hereinbefore or as shown on the drawings.
2. Fabrication shall be in strict accordance with AWI section 400, premium grade for transparent finish without regard to the finish scheduled or called for on the drawings or described elsewhere, except towel rack shall be fabricated in accordance with AWI Section 300, premium grade for transparent finish.
3. Hardware shall be installed under pertinent other sections of this project manual.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Counters: All counters to be laminated plastic.

B. Janitor's Shelves:

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Install janitor's shelves in locations shown on the drawings, true to line, plumb, square and level and securely anchored in place.

C. Towel Rack:

Install towel racks in locations shown on the drawings, true to line, level and securely anchored in place.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 07210 - BUILDING INSULATION

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Industry Standards:

1. Some products and executions are specified in this section by reference to published specification or standards (with respective abbreviations used); these referenced publications may be subject to special conditions or limitations where specified hereinafter.
2. Referenced Publications:
 - a. Federal Specifications (Fed. Spec.).
 - b. American Society for Testing and Materials (ASTM).

1.02 Definitions: Omitted.

1.03 Submittals:

A. Manufacturer's Data:

Before any products are delivered to the project site, submit to the Architect for review, manufacturer's detailed descriptive and specification data for the products described hereinafter.

B. Samples:

Accompanying the data submittal, furnish samples, not less than 6" x 6", for each type of insulation required.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Batt Insulation:

Batt insulation shall be glass fiber batts, kraft faced one side, complying with Federal Specification HH-1521E, type III, density of not less than 1.5 lbs. per cubic foot, flame spread of not more than 25; fuel contribution and smoke developed of foil facing 0; size shall be manufacturer's standard thicknesses shown on the drawings.

B. Fasteners:

Fasteners for all insulation shall be as recommended by the manufacturer of the insulation being installed for each particular condition.

2.02 Fabrication:

Insulation shall be manufactured to meet the requirements as described hereinbefore.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

Install insulation above ceiling in locations shown on the drawings, tightly fitting around penetrations and abutting surfaces.

3.03 Field Quality Control:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 07900 - SEALANTS

PART 1.00 - GENERAL

1.01 Quality Assurance:

For actual caulking operations (installation of sealants and fillers) use only thoroughly trained and experienced mechanical who are completely familiar with the materials selected and the manufacturers recommended methods of installation and the requirements of this work.

1.02 Definitions:

A. Sealant:

A weatherproof elastomer used in filling and sealing joints, having properties of adhesion, cohesion, extensibility under tension, compressibility and recovery.

B. Caulk:

Term used to denote the process of filling and sealing the joints, without regard to type of material.

1.03 Submittals:

A. Manufacturer's Data:

1. Before any products are delivered to the project site, submit to the Architect for review, manufacturer's detailed descriptive and specification data for each type of sealant and joint filler described hereinafter.
2. Accompanying the data submittal, furnish manufacturer's installation instructions.

B. Samples:

Accompanying the data submittal, submit samples of each type and color of sealant required and samples of the joint filler.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

Do not caulk if the ambient temperature is below 32 degrees Fahrenheit.

PART 2.00 - PRODUCTS

2.01 Materials:

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A. Sealants:

1. Type 1:

Design is based on "790 Building Sealant" as manufactured by Dow Corning Corporation, Midland, MI. Colors as selected by the Architect from manufacturer's standard colors.

2. Type 2:

Sealant type 2 shall be an oleo-resinous compound, gun grade, non-staining, non-shrinking, and non-sagging plastic compound meeting or exceeding Federal Specification TT-C-598b.

3. Type 3:

Design is based on "795 Building Sealant" as manufactured by Dow Corning Corporation, Midland, MI. Colors as selected by the Architect from manufacturer's standard colors.

4. Type 4:

Design is based on "786 Building Sealant" as manufactured by Dow Corning Corporation, Midland, MI. Colors as selected by the Architect from manufacturer's standard colors.

B. Primer:

All primer shall be as recommended by the manufacturer of the sealant being installed for the particular condition.

C. Joint Filler:

Unless otherwise shown or recommended by the manufacturer of the sealant being installed, joint filler shall be polyethylene foam rod, approved by the manufacturer of the sealant material, sized to require 20% to 50% compression upon insertion.

D. Application Equipment:

Sealant application equipment shall be only such equipment as is specifically recommended by the manufacturer of the sealant being installed.

PART 3.00 - EXECUTION:

3.01 Inspection:

The Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preliminary Requirements:

1. Surface Preparation:

- a. Surfaces to be sealed shall be sound, clean, dry, frost free and free of contamination by laitance, form release agents, concrete curing compounds or other surface treatments.
- b. Masonry and concrete surfaces shall be wire brushed.
- c. Metal, glass and wood surfaces shall be wiped with methyl ethyl ketone.

2. Masking:

Surfaces adjacent to joints shall be masked to obtain a neat sealant line.

3. Joint Filler:

Joints exceeding the maximum allowable depth as hereinafter described shall be filled to within the allowable depth with the specified joint filler.

4. Primer:

Apply primer to surfaces to be caulked as recommended by the manufacturer of the sealant being installed.

B. Locations:

1. As the work progresses caulk and seal all joints subject to movement or subject to passage of air or moisture.
2. Type 1 Sealant: Install all exterior locations where sealant or caulking is called for on the drawings.
3. Type 2 Sealant: Set all metal thresholds in type 2 sealant unless specifically noted otherwise on the drawings.
4. Type 3 Sealant: Install in all interior locations where sealant or caulking is called for on the drawings except where type 4 sealant is called for.
5. Type 4 Sealant: Install in all interior locations where type 4 sealant is called for on the drawings and where sealant is called for in the ceramic tile work described in Section 09310 of this project manual and where sealant is required around plumbing fixtures.

C. Application of Sealant:

1. Install sealant under pressure to fill joint, taking care to produce beads of proper width and depth; tool as recommended by the manufacturer; immediately remove all surplus sealant.
2. Width and depth of sealed joint shall not exceed the proportions of 1/2" width x 1/2" diameter and 3/4" width x 1/4" diameter, except that metal thresholds shall be set in full bed of specified sealant.

3.03 Field Quality Control:

A. Protection:

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To insure proper curing, sealing joints shall not be touched, washed or otherwise disturbed for 48 hours after installation unless specifically recommended otherwise by the sealant manufacturer.

B. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 08112 - HOLLOW METAL FRAMES

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Non-Labeled Frames:

Manufacture non-labeled frames in accordance with Standard CHM-1-74 of the National Association of Architectural Metal Manufacturers, except as modified hereinafter.

B. Labeled Frames:

Manufacture labeled frames in accordance with Standard NFPA No. 80 of the National Fire Protection Association and the requirements of Underwriters' Laboratories, Inc. (UL).

1.02 Definitions: Omitted

1.03 Submittals:

A. Shop Drawings:

Submit manufacturer's shop drawings to the Architect for review prior to commencing fabrication of products of this section.

B. Hardware Templates:

In order that custom hollow metal door frames may be prepared to receive finish hardware as described in section 08711 of this project manual, the Contractor shall obtain templates from the manufacturers of the finish hardware and furnish them along with one copy of the approved "Schedule of Finish Hardware" to the manufacturer of the custom metal frames.

C. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section and the requirements of the Americans

With Disabilities Act of 1990 with all amendments as of the date of opening bids.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Materials:

A. Exterior Hollow Metal Frames:

Frames for exterior openings shall be made of commercial grade cold rolled steel conforming to ASTM Designation A366-72, not less than 14 gauge and shall have a zinc coating of not less than 0.60 ounces per square foot.

B. Interior Hollow Metal Frames:

1. Frames for interior openings shall be either commercial grade cold rolled steel conforming to ASTM Designation A366-72.
2. Metal thickness for frames 4'-0" or less in width shall be not less than 16 gauge; for frames over 4'-0" wide, not less than 14 gauge.

2.02 Fabrication:

A. Custom Hollow Metal Frames:

1. All frames shall be custom made welded units with integral trim, of the sizes and shapes shown on the drawings; knocked-down frames will not be accepted.
2. All finished work shall be strong and rigid, neat in appearance, square, true and free of defects, warp or buckle and moulded members shall be clean cut, straight and of uniform profile throughout their lengths.
3. Jamb depths, trim profile and backbends shall be as shown on the drawings.
4. Corner joints shall have all contact edges closed tight, with trim faces mitered and continuously welded, and stops mitered and welded; all welds shall be ground smooth; the use of gussets will not be permitted.
5. Depth of stops shall be 5/8 inch as shown on the drawings.
6. When shipping limitations so dictate, frames for large openings shall be fabricated in sections designed for splicing in the field, splices shall be field welded and ground smooth.
7. Frames for multiple or special openings shall have mullion and/or rail members which are closed tubular shapes having no visible seams or joints; all joints between faces of abutting members shall be securely welded and ground smooth.
8. Hardware Reinforcements for Door Frames:
 - a. Frames shall be mortised, reinforced, drilled and tapped at the factory for fully templated mortised hardware only, in accordance with approved hardware schedule and templates provided by the Contractor; where surface-mounted hardware is to be applied, frames shall have reinforcing plates only; all drilling and tapping shall be done at the project site under section 08711 of this project manual.
 - b. Minimum thickness of hardware reinforcing plates shall be as follows:

Hinge and pivot reinforcements:	8 gauge, 1-1/2" x 9-1/8" min. size
Strike reinforcements:	12 gauge
Flush bolt reinforcements:	12 gauge
Reinforcements for surface mounted hardware:	12 gauge

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9. Floor Anchors:

- a. Floor anchors shall be adjustable type, providing not less than 2" height adjustment, with two holes provided at each jamb for floor anchorage.
- b. Minimum thickness of floor anchors shall be 14 gauge.

10. Jamb Anchors:

Masonry anchors shall be attached at the factory and made to allow the passage of grout throughout frame. Frames shall be provided with suitable anchors, standard with the frame manufacturer, for the type wall construction in which they are to be installed and in the numbers as follows:

Frames under 7'-6" height:	3 anchors per jamb
Frames 7'-6" to 8'-0" height:	4 anchors per jamb
Frames over 8'-0" height:	1 anchor per jamb for each 2' or fraction thereof

11. Frames over 4'-0" wide shall have an angle or channel stiffener, not less than 12 gauge and not longer than the opening width, welded into the head at the factory; such stiffeners shall not be used as lintels or load-carrying members.

12. Dust cover boxes (or mortar guards) of not thinner than 26 gauge steel shall be provided at all hardware mortises on frames to be set in masonry or plaster partitions.

13. All door frames shall be provided with a steel spreader temporarily attached to the feet of both jambs to serve as a brace during shipping and handling.

14. Door frame stops shall be punched on the strike side to receive rubber silencers (3 per frame for single doors and 4 per frame for double doors).

15. Loose glazing stops shall be cold rolled steel, not less than 20 gauge thickness, butted at corner joints and secured to the frame with countersunk cadmium or zinc-plated screws.

B. Labeled Custom Hollow Metal Frames:

Labeled frames shall be fabricated in strict accordance with the specifications and procedures of NFPA Standard No.80 hereinbefore referenced and shall bear the UL label called for on the drawings or in the schedule.

C. Factory Priming:

After manufacture, all tool marks and surface imperfections shall be dressed, filled and sanded to make all surfaces smooth, level and free of all irregularities and then chemically treated, to insure maximum paint adhesion, and coated with a rust inhibitive primer, standard with the manufacturer of the custom hollow metal frame.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. General:

1. Except for frames located at in-place concrete or steel, place frames prior to construction of enclosing walls and ceilings; set frames in position; plumb, align and brace until permanent anchors are set.
2. In masonry construction, locate wall anchors per jamb at hinge and strike levels; building in of anchors and grouting of frames is described in section 04200 of this project manual.
3. At in-place concrete, or steel construction, set frames and secure to adjacent construction as shown on the drawings.
4. After wall construction is complete, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
5. All cut-outs shall have pressed steel cover boxes in place.

B. Labeled Frames:

Set label frames in position; plumb, align and brace until permanent anchors are set; installation shall be in accordance with NFPA Standard No. 80.

3.03 Field Quality Control:

Immediately after installation, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

END OF SECTION

SECTION 08113 - HOLLOW METAL DOORS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Non-Labeled Frames:

Manufacture non-labeled doors in accordance with Standard CHM-1-74 of the National Association of Architectural Metal Manufacturers, except as modified hereinafter.

B. Labeled Frames:

Manufacture labeled doors in accordance with Standard NFPA No. 80 of the National Fire Protection Association and the requirements of Underwriters' Laboratories, Inc. (UL).

1.02 Definitions: Omitted

1.03 Submittals:

A. Shop Drawings:

Submit manufacturer's shop drawings to the Architect for review prior to commencing fabrication of custom hollow metal doors.

B. Hardware Templates:

In order that custom hollow metal door may be prepared to receive finish hardware as described in section 08711 of this project manual, the Contractor shall obtain templates from the manufacturers of the finish hardware and furnish them along with one copy of the approved "Schedule of Finish Hardware" to the manufacturer of the custom hollow metal doors.

C. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Materials:

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A. Exterior Hollow Metal Doors:

Doors for exterior openings shall be made of commercial quality, cold rolled steel conforming to ASTM Designation A366-72, free of scale, pitting or other surface defects and shall have face sheets not less than 16 gauge and shall have a zinc coating of not less than 0.60 ounces per square foot.

B. Interior Hollow Metal Doors:

Doors for interior openings shall be made from commercial quality, cold rolled steel conforming to ASTM Designation A366-72, free of scale, pitting or other surface defects and shall have face sheets of not less than 18 gauge.

2.02 Design and Construction:

A. Hollow Metal Doors:

1. All doors shall be custom made, of the type and sizes shown on the drawings and shall be fully welded seamless construction with no visible seams or joints on their faces or vertical edges. Interlocked and seam filled vertical edges are acceptable.
2. All doors shall be strong, rigid and neat in appearance, free from warpage or buckle and corner bends shall be true and straight and of minimum radius for the gauge of metal used.
3. Face sheets shall be stiffened by a honeycomb core. Face sheets shall be free of any visible weld marks or imperfections. The door shall be beveled lock edge. The inside of the door shall be coated with a waterproof adhesive. Minimum crush strength of 45 PSI.
4. Door faces shall be joined at their vertical edges by a continuous weld extending the full height of the door; all such welds shall be ground, filled and dressed smooth to make them invisible.
5. Top and bottom edges shall be closed with a continuous recessed steel channel of not less than 16 gauge, extending the full width of the door and spot welded to both faces; exterior doors shall have an additional flush closing channel at their top edges and, where required for the attachment of weather stripping, a flush closure also at their bottom edges; openings shall be provided in the bottom closure of exterior doors to permit the escape of entrapped moisture.
6. Edge profiles shall be provided on both vertical edges of doors as follows:
 - a. Single-acting swing doors: bevel 1/8" in 2"
 - b. Double-acting swing doors: rounded on 2-1/2" radius
7. Hardware Reinforcements:
 - a. Frames shall be mortised, reinforced, drilled and tapped at the factory for fully templated hardware only, in accordance with approved hardware schedule and templates provided by the Contractor; where surface-mounted hardware is to be applied doors shall have reinforcing plates only; all drilling and tapping shall be done at the project site under Section 08711 of this project manual.

- b. Minimum thickness of hardware reinforcing plates shall be as follows:

Hinge and pivot reinforcements: 7 gauge

Reinforcement for lock face, flush bolts, concealed holders, concealed or surface-mounted closers: 12 gauge

Reinforcements for all other surface-mounted hardware: 16 gauge

8. Glass Mouldings and Stops:

- a. Where scheduled, doors shall be provided with hollow metal mouldings to secure to secure glazing.
- b. Fixed mouldings shall be securely welded to the door on the security side.
- c. Loose stops shall be not less than 20 gauge cold rolled steel, mitered at corner joints and secured to framed opening with countersunk cadmium or zinc-plated screws; snap on attachments will not be permitted.

9. Louvers:

Where scheduled, doors shall be provided with welded blade type louvers of not less than 18 gauge commercial quality, level, cold rolled steel.

B. Labeled Hollow Metal Doors:

Labeled doors shall be fabricated in strict accordance with the specifications and procedures of NFPA Standard No.80 hereinbefore referenced, and shall bear the UL label called for on the drawings or in the schedule.

C. Factory Priming:

After fabrication, all tool marks and surface imperfections shall be dressed, filled and sanded as required to make all faces and vertical edges smooth, level and free of all irregularities and then chemically treated, to insure maximum paint adhesion, and coated with a rust inhibitive primer, standard with the manufacturer of the custom hollow metal doors.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. General:

Install custom hollow metal doors in the locations shown on the drawings, true to line, level and plumb with clearances as described in NAAMM Standard CHM-1-74, hereinbefore referenced.

B. Labeled Doors:

Install labeled doors in locations shown on the drawings with clearances as described in NFPA Standard No. 80, hereinbefore referenced.

3.03 Field Quality Control:

Immediately after installation, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

END OF SECTION

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SECTION 08202 - SOLID CORE FLUSH WOOD DOORS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Manufacturer:

1. The manufacturer of the solid core flush wood doors shall have not less than five years continuous experience in the manufacture of solid core flush wood doors immediately prior to performing the work of this section.
2. All solid core flush wood doors shall be the product of the same manufacturer.

B. Industry Standards:

All solid core flush wood doors shall be manufactured in accordance with "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" published by Architectural Woodwork Institute (AWI), Seventh Edition, version 1.0, 1997.

1.02 Definitions:

Definitions and terms shall be as described in the referenced standards.

1.03 Submittals:

A. Shop Drawings:

Submit shop drawings to the Architect for review prior to commencing fabrication of the products of this section.

B. Manufacturer's Data:

Accompanying the shop drawing submittal, furnish Architect manufacturer's detailed materials and fabrication specifications and installation instructions.

C. Certification:

Upon completion of the work, and as a condition of its acceptance, furnish the Architect with a certification from the manufacturer of the solid core flush wood doors, signed by an officer of the manufacturing firm, properly attested, certifying that all solid core flush wood doors comply in all respects to the requirements of this project manual.

D. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Environmental Requirements:

For a period of ten days prior to the installation of any interior solid core flush wood doors, throughout the installation, and until date of Architect's Final Certificate, provide heat to maintain a temperature of not less than 50° F.

B. Glazing:

All glazing of exterior openings shall be complete before beginning installation of any interior solid core flush wood doors.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Face Veneers:

Face veneers for all solid core flush wood doors shall be "A" Grade, White Birch, rotary cut, meeting the requirements of 200-S-7 of section 200 of the referenced standard.

B. Core:

1. Core for all solid core flush wood doors shall be PC-5 as defined in section 1300 of the referenced standard, except
2. Labeled flush wood doors shall have non-combustible core in compliance with 1300-G-4 of section 1300 of the referenced standard for the label required on the drawings or in the schedules and except
3. Acoustical flush wood doors shall have cores in compliance with 1300-G-5 of the referenced standard for the STC rating of 40 or greater.

C. Vertical Edges: Vertical edges shall be Grade "1" White Birch.

D. Top and Bottom Edges: Top and bottom edges shall be mill option hardwood.

E. Cross Bands: Cross bands shall be mill option hardwood.

F. Glue: All glue shall be type 1, fully waterproof and withstand bond test described in ANSI/NWMA 1.S-1 Series.

G. Stops:

1. Wood stops shall be Grade "1" White Birch.
2. Metal stops shall meet requirements of Underwriter's Laboratories, Inc. for the door label required on the drawings or in the schedules, except where called for to be used in non-labeled doors the metal stops shall meet Underwriters' Laboratories, Inc. for 1 hour "B" label.

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2.02 Fabrication:

A. Non-Labeled, Solid Core Flush Wood Doors:

Except as modified hereinbefore, manufacture non-label doors in accordance with section 1300, custom grade, of the referenced standard, for transparent finish.

B. Labeled, Solid Core Flush Wood Doors:

1. Except as modified hereinbefore, manufacture labeled doors in accordance with section 1300, custom grade, of the referenced standards to meet the label requirements indicated on the drawings or in the schedules.
2. All labeled doors shall bear UL label for the rating called for.

C. Acoustical Doors:

Except as modified hereinbefore, manufacture acoustical doors (sound retardant) in accordance with section 1300, custom grade of the referenced standard to meet the STC rating and UL label called for on the drawings or in the schedules. STC rating of 40 or greater.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Non-Labeled, Solid Core Flush Wood Doors:

Install in frames, in the locations shown on the drawings or called for in the schedules, hanging square, plumb and level.

B. Labeled, Solid Core Flush Wood Doors:

Install in labeled hollow metal frames, in the locations shown on the drawings or called for in the schedules and in accordance with National Fire Protection Association's publication NFPA 80, hanging square, level and plumb.

C. Acoustical Doors:

1. Install in hollow metal frames called for in the locations shown on the drawings or called for in the schedules, hanging square, level and plumb.
2. Acoustical doors requiring UL label shall be installed in accordance with Article 3.02, B of this section.

3.03 Field Quality Control:

Materials and workmanship at all times shall be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 08305 - ACCESS PANELS

PART 1.00 - GENERAL

1.01 Quality Assurance: Omitted

1.02 Definitions: Omitted

1.03 Submittals:

A. Shop Drawings:

Before any products are delivered to the project site, submit to the Architect for review, manufacturer's shop drawings for all access panels.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Materials:

A. Ceiling Access Panels:

Gypsum Board Ceilings & EFIS Ceilings (*Not Used*)

1. Manufacturer:

a. Design is based on Style LWT, as manufactured by Cesco Products, Minneapolis, MN; size(s) as shown on the drawings; furnish with screwdriver cam lock, aluminum frame, aluminum door panel frame and aluminum door panel. Two 30"x 30" access doors to be provided; field verify locations.

2. Products of the following manufacturer's are acceptable:

a. Karp Associates, Inc., Maspeth, NY.
b. Milcor Incorporated, Lima, OH.

B. Ceiling Access Panel:

Gypsum Board Ceiling:

1. Manufacturer: Provide 2 doors, locate as instructed:

a. Design is based on Style Milcor at access doors, as manufactured by Milcor Limited Partnership of Lima, OH; furnish with screwdriver cam lock, steel frame, door panel, continuous hinge. Provide 1-24"x 24" and 1-8"x 8" access doors, field verify locations.

2.02 Fabrication:

Fabricate all access panels to the sizes called for on the drawings in accordance with and from materials as specified in the manufacturer's published data.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Coordination:

Coordinate installation of access panels with installation of ceiling systems in which they are installed.

B. Access Panels:

Install access panels where shown on the drawings, and in accordance with details shown thereon.

3.03 Field Quality Control:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 08711 - FINISH HARDWARE
PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualification of Supplier:

1. The supplier of this section shall have been successfully engaged in the business of distributing contract hardware for a period of not less than five years immediately prior to furnishing the products of this section.

2. Hardware schedule requested hereinafter shall be prepared by a member in good standing of the American Society of Architectural Hardware Consultants.

B. Qualifications of Installers:

For actual preparation and installation of finish hardware, use only skilled personnel who are thoroughly familiar with the products, the manufacturer's published installation recommendations and the requirements of this work.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance

Prior to commencing any work of this section, submit in triplicate to the Architect, a certified statement to the effect that all products proposed to be used in this portion of the work meet requirements of this section. Prior to commencing any work of this section, submit in triplicate to the Architect, a certified statement to the effect that all products proposed to be used in this portion of the work meet requirements of the Americans with Disabilities Act of 1990 with all amendments as of the date of opening bids.

B. Hardware Schedule:

Prior to delivery of any items of finish hardware to the project site, submit to the Architect for review, an itemized schedule of finish hardware.

C. Manufacturer's Data:

Accompanying the hardware schedule, furnish manufacturer's descriptive and specification data for each item described hereinafter, in the form of a cut sheet for each item of hardware to be provided.

D. Samples: If requested by the Architect, submit samples, all samples will be returned and approved samples may be incorporated in the work.

E. Templates. Furnish templates as required in order that all members receiving finish hardware may be properly prepared.

F. Report of Inspection and Adjustment: Submit to the Architect in triplicate, the inspection and adjustment report described hereinafter.

1.04 Product Handling:

A. Packaging:

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Furnish all items of finish hardware with each unit clearly marked or numbered in accordance with the Schedule of Finish Hardware and labeled to show the specific door to receive each item.

B. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

C. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Finish Hardware:

A. Manufacturers:

1. Manufacturers of finish hardware items shall be as listed hereinafter in the "Schedule of Finish Hardware Manufacturers" for each specific item. See Section 01101 (Alternates / Approved Manufacturers) for other approved manufacturers.

SCHEDULE OF FINISH HARDWARE MANUFACTURERS

<u>ITEM</u>	<u>MANUFACTURER / SPECIFIED (also approved)</u>
Butts	Stanley Hardware, New Britain, CT
Surface Closers	LCN Closers, Princeton, IL
Push, Pull & Plates	Triangle Brass Co.
Silencers	Triangle Brass Co.
Stops, Bumpers, Holders	Triangle Brass Co.
Thresholds	Zero International Inc., Bronx, NY
Weather-stripping	Zero International Inc., Bronx, NY
Flush Bolts, and Strikes	Hager Hinge Co., St. Louis, MO
Coordinators	Hager Hinge Co., St. Louis, MO
Panic Devices	Von Duprin, Inc., Indianapolis, IN
Kickplates	Quality Hardware Mfg. Co. Inc., Hawthorne, CA
Locksets, Cylinders	Schlage Lock Co., San Francisco, CA
Roller Latches	Hager Hinge Co., St. Louis, MO

B. Lockset Design: Except as otherwise noted in the "Schedule of Hardware Sets" design is based on "SPARTA", "D" Series (lever handle) of Schlage Lock Co. **(Levers and locksets) (To match existing).**

C. Finish: Unless otherwise shown in the Hardware Sets finishes shall be: **to match existing finish.**

D. Rated: All hardware to be rated the same as the door or doors it is being installed on.

2.02 Fabrication: Omitted

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PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed: notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Construction Keying: Provide a method independent of the final keying system for securing the building during construction.

B. Application of Hardware:

1. General: Items of finish hardware shall be installed in accordance with the hardware manufacturer's printed instructions contained within the material packaging.

2. Mounting Heights:

Unless specifically noted otherwise on the drawings or in the hardware schedule, mount hardware units at the following locations on each door.

- a. Top Butt: 5" below top of door to top of butt.
- b. Bottom Butt: 10" above bottom of door to bottom of butt.
- c. Intermediate Butt: Equally spaced between the top and bottom butt.
- d. Locksets: Knobs centered 38" above finish floor.
- e. Dead Lock: Cylinder center 60" above finish floor.
- f. Dummy Knobs: Knobs centered 38" above finish floor; at bi-folding doors, center knob 38" above finish floor and on centerline of lead.
- g. Push Plate: Centerline of plate 45" above finish floor and 5" from door edge.
- h. Push and Pull Plate: Centerline of plate and pull 40" above finish floor and 5" from door edge.
- i. Panic Device: Operating bar centered 42 inches above finish floor.
- j. Flush Bolts:
 - (1) Head: Operating device centered not more than 74" above finish floor.
 - (2) Sill: Operating device centered not more than 12" above finish floor.
- k. Surface Bolts:
 - (1) Head: Operating device centered not more than 74" above finish floor.
 - (2) Sill: Operating device centered not more than 12" above finish floor.

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1. Thresholds: Set all thresholds in bed of type 2 sealant as described in Section 07900 of this project manual.

3. Final Keying System:

- a. Just prior to final inspection, install final keying system in the presence of a representative of the Owner.
- b. Final keying systems shall be as follows:
 - (1) Grand Master Key to existing system
 - (2) Master key all locks in one (1) set
 - (3) Key locks alike where two (2) or more doors enter same space or area
 - (4) Stamp all keys "DO NOT DUPLICATE"
- c. Furnish the following keys:
 - (1) Six (6) master keys
 - (2) Three (3) keys per lock
- d. After final keying system is installed and the above keys have been delivered to the Owner, furnish the Architect with a written receipt for the same, signed by the Owner and the installer and further stating that no keys to the permanent system are outstanding.

C. Finish Hardware Sets:

Furnish finish hardware for each door in sets as shown in the following schedule:

See drawings for cash allowance for door hardware. Submit detailed hardware submittal to Architect.

See Drawings for cash allowance for purchase and installation of door hardware for each new door.

3.03 Field Quality Control

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Adjustment:

After all hardware has been installed, the supplier of the finish hardware shall inspect and adjust all items for proper operation and shall deliver to the Architect as hereinbefore described a written report of the inspection and adjustment certifying that all hardware is properly installed and operating correctly.

C. Cleaning:

Just prior to final inspection, remove all masking and clean all items of finish hardware as recommended by their manufacturer, leaving all products in a spotless condition.

END OF SECTION

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SECTION 08800 - GLASS AND GLAZING

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Installer:

The installer of the products described hereinafter shall have been successfully engaged in the business of glazing a for a period of not less than five years immediately prior to performing work of this section.

B. Codes and Standards:

Comply with the requirements of the Safety Glass Act and regulations issued thereto by the Georgia State Department of Labor.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Samples:

Prior to commencing fabrication, submit samples of each type of glass described hereinafter to Architect for review; samples shall be full thickness and not less than 12" x 12".

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Exterior: Do no glazing when the ambient temperature is below 40°F.

B. Interior:

Interior glazing shall be commenced only after all exterior glazing is complete and building is dry; maintain temperature during and after glazing at 40°F or higher.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Glass:

1. Type 1:

Design is based LOF Tuf-Flex FT Tempered Safety Glass as manufactured by Libby-Owens-Ford Co., Toledo, OH; clear float, glazing quality q³, 1/4" thick.

2. Type 2:

Design is based on Polished Misco Wire Glass as manufactured by Hordis Brothers, Inc., Pennsauken, NJ, 1/4" thick.

3. Type 3:

Design is based LOF Tempered Thermopane Insulating Glass as manufactured by Libby-Owens-Ford Co., Toledo, OH (overall glass unit 1"). Tinted with shading coefficient of 0.57. (Note: tinting of exterior glass to match existing.)

4. Type 4:

Design is based on LOF Thermopane Insulating Glass as manufactured by Libby-Owens-Ford Co., Toledo, OH; (overall glass unit 1"). Tinted with shading coefficient of 0.57. (Note: tinting of exterior glass to match existing.)

5. Type 5:

Design based on LOF Mirropane Tuf-flex tempered transparent mirror (one-way viewing), clear glass, 1/4" thick as manufactured by Libby-Owens-Ford Company, Toledo, OH.

B. Glazing Compound: shall be a one-part silicone construction sealant meeting Federal Specifications TT-S-00230C (COM-NBS) type II, Class A.

C. Setting Blocks shall be neoprene with a Shore A durometer hardness of 80 to 90.

D. Edge Blocks shall be neoprene with a Shore A durometer hardness of 60 to 70.

E. Face Shims (Continuous Spacer) shall be neoprene with a Shore A durocell hardness of 40 to 50.

F. Filler Tape: shall be medium density polyethylene or polyurethane foam.

G. CCN-Sponge: shall be closed-cell neoprene sponge with adhesive.

H. Arrow Shim: Arrow shim shall be extruded EPDM rubber.

2.02 Fabrication:

Fabricate all glass to the sizes required by the drawings, and in accordance with their manufacturer's published specifications.

PART 3.00 - EXECUTION

3.01 Inspection:

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Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Glazing:

Glaze openings with glass types as indicated on the drawings and in accordance with the details shown thereon.

B. Aluminum Windows: Glazing is described in section 08524 of this project manual.

C. Metal Frames (Custom Hollow Metal and Drywall): Glaze metal frames using setting blocks, spacers and glazing compound; hold glass in place with loose stops furnished with the custom hollow metal frames.

D. Custom Hollow Metal Doors: Glaze metal doors, using setting blocks, spacers and glazing compound; hold glass in place with loose stops furnished with the custom hollow metal doors.

E. Wood Doors: Wood doors, labeled, non-labeled and acoustical shall be glazed in accordance with Standard NFPA No. 80 of the National Fire Protection Association, unless specifically shown otherwise on the drawings.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning:

Prior to final inspection, remove all maskings and labels (do not remove labels until they have been inspected and approved by the Architect) and then clean and polish all glass.

END OF SECTION

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SECTION 09260 - GYPSUM WALLBOARD SYSTEMS

PART 1.00 - GENERAL

1.01 Quality Assurance:

The installer of the products of this section shall have been successfully engaged in the business of erecting and finishing gypsum wallboard for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Manufacturer's Data:

Before any products are delivered to the project site, submit to the Architect for review, manufacturer's detailed descriptive and specification data for the products described hereinafter.

C. Materials List:

Prior to delivery of any materials to the project site, submit to the Architect for review, a complete list of all materials to be used in the project as described hereinafter.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

Maintain a constant temperature between 55°F and 70°F in all areas where wallboard is being installed, cured or finished.

PART 2.00 – PRODUCTS

2.01 Materials:

- A. Wood Framing: Wood framing, including but not necessarily limited to wood studs, blocking and furring is furnished in section 6110 of this project manual.

B. Metal Framing:

1. Metal Studs:

SEE SHEETS A9-4, A9-5 AND A9-6 FOR METAL STUD REQUIREMENTS AND FRAMING.

2. Track: Provide slip track at the top of all metal stud walls that seal tight to the bottom of floor or roof deck to allow for deflection of the building structure. See Drawings for slip track detail.
3. Main Runners: shall be 1-1/2" cold rolled steel, not less than 20 gauge.
4. Screw Furring Channels: Screw furring channels shall be galvanized steel with face width of 1-3/8" x 7/8" furring depth and weighing not less than 292 pounds per MLF.
5. Hanger Wire: Hanger wire shall be 9 gauge, galvanized.
6. Tie Wire: Tie wire shall be 16 or 18 gauge, galvanized.

C. Gypsum Wallboard:

Gypsum wallboard shall be of the types and thickness as shown on the drawings, tapered edge and meeting the following requirements for each type:

1. Type "X": meet the requirements of ASTM C36-84a and fire endurance test as outlined in ASTM C473-84a.
2. Moisture Resistant: meet requirements of ASTM C630-84a.
3. Type "X"-Moisture Resistant: meet the requirements of ASTM C630-84a.
4. Cement board: meet the requirements of ASTM C627 and C947.
5. Non-rated: meet requirements of ASTM C36-84a.

D. Fasteners:

1. For attaching 1/2" gypsum wallboard to wood framing, fasteners shall be 1-1/4", type W, bugle head screws, cadmium plated.
2. For attaching 5/8" gypsum wallboard to wood framing, fasteners shall be 1-7/8" wallboard nail, cement coated.
3. For attaching 1/2" and 5/8" gypsum wallboard to metal framing, fasteners shall be 1", type S, bugle head screws, cadmium plated.

4. For attaching hanger wire to wood frames, fasteners shall be 7d x 2-1/4" annular threaded nails.
5. For attaching screw furring channels to main runners, fasteners shall be manufacturer's standard drywall furring channel clip.
6. For attaching face layer of wallboard to wood framing in double layer construction shall be 2-1/4", 7d wallboard nail, cement coated.
7. For attaching face layer of wallboard to metal framing in double layer construction shall be 1-5/8", type S, bugle head screws.
8. For attaching metal runners and furring channels to concrete or masonry shall be power actuated type capable of withstanding 192 pounds of single shear and 200 pounds bearing force without exceeding allowable stress design of fastener or member being fastened.
9. For attaching framing members together shall be type S, pan-head screws in sizes recommended by the metal stud manufacturer for applications required.
10. For attaching metal runners to structural steel shall be power actuated type as recommended by the metal stud manufacturer for applications required.
11. For attaching screw furring channels to main runners shall be manufacturer's standard drywall furring channel clip.

E. Accessories:

1. Outside corner beads shall be all metal, hot dipped galvanized, 1"x 1" and weighing not less than 114 pounds per MLF.
2. Casing beads shall be all metal, hot dipped galvanized, 7/8" flanges, "C" shaped, capable of being tapped and finished and weighing not less than 165 pounds per MLF.
3. Inside corner reinforcement shall be perforated tape as described hereinafter.

F. Tape: shall be 2-1/16" wide, perforated, meeting requirements of ASTM C475-74.

G. Joint Compound: shall be ready mixed, meeting requirements of ASTM C475-64.

H. Sealant:

Unless specifically noted otherwise on the drawings, sealant shall be type 3 as described in section 07900 of this project manual.

2.02 Fabrication: Omitted.

PART 3.00 - EXECUTION

3.01 Inspection:

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Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Wood Framing:

Wood framing, including but not necessarily limited to wood studs, blocking and furring shall be installed under section 06110 of this project manual.

B. Suspended Ceiling System:

1. Main Runners:

- a. Install main runners at 24"o.c., at right angle to structural members above.
- b. Suspend main runners from structural system above with hanger wire spaced not more than 48"o.c.; securely anchor to structure and to runner.

2. Suspended Screw Furring Channels:

- a. Install screw furring channels at 24"o.c. and at right angle to main runners.
- b. Anchor screw furring channels to main runners with specified clips at 24"o.c..

3. Splices:

At splices in main runners and in suspended screw furring channels make laps not less than 6 inches and tie each end of lap with specified tie wire.

C. Installation of Metal Tracks:

1. Attach lower tracks (floor) with specified fasteners spaced not less than 24" on centers.
2. Attach upper tracks (ceiling) with the specified fasteners at not less than 24" on centers and in conformance with the details shown on the drawings.

D. Installation of Metal Studs:

1. Position full length studs vertically, spaced not more than 16" on centers, except partitions above ceilings shall have studs spaced at 16" on centers, engaging floor and ceiling runners. Attach with specified fasteners, two each at top and bottom runners.
2. Provide double studs at interior and exterior corners, expansion joints, partition terminations and within 2" of door, borrowed lite and other openings in partitions. Locate next stud not more than 6" from double studs.
3. Secure abutting and intersecting walls with fasteners through stud flanges.
4. For horizontal reinforcement between studs and at openings, install cut-to-length runner sections with slit flanges secured to studs.

E. Installation of Gypsum Wallboard:

1. Install wallboard in accordance with manufacturer's printed installation and instructions, except where more stringent requirements are specified.
2. Use wallboards of maximum lengths to minimize end joints.
3. Stagger end joints when they occur.
4. Abut wallboards without forcing. Fit ends and edges of wallboard. Do not place butt ends against tapered edges.
5. Support ends and edges of wallboard panels on framing or furring members.
6. At ceilings, apply wallboard with long dimension at right angles to framings.
7. At walls, apply wallboard horizontally, attaching upper board first.
8. Fasten wallboard to framing members, using the specified fasteners spaced as recommended by the manufacturer of the wallboard being installed for the specific installation.
9. Install wallboard accessories in accordance with wallboard manufacturer's printed instructions and as follows:
 - a. Corner Bead: Install at all outside corners.
 - b. Metal Trim Shapes: At exposed edge of wallboard at door and window openings, at intersections with other materials and at intersection of walls with ceilings.
10. Caulk all perimeter joints, electrical boxes and all other penetrations with specified sealant.
11. Install metal frames where called for on the drawings, securely anchored in place, level plumb and true to line.
12. Install cement board in all walls to be covered with ceramic tile.
13. At top of walls that seal tight to floor or roof, allow for deflection of the building structure. Caulk joint from top of gypsum board to floor or roof deck; at rated partition use rated caulk.

F. Finishing:

1. Taping or Embedding Joints:
 - a. Apply compound to this uniform layer to all joints and angles. Center tape over joint and set tape into compound; leave approximately 1/64" to 1/32" compound under tape to provide bond.
 - b. Apply skim coat following tape embedment, but not to function as fill or second coat; fold tape and embed in angles to provide true angle. Dry embedding coat prior to application of fill coat.
2. Filling:
 - a. Apply joint compound over embedding coat to cover tape. Feather out fill coat beyond tape and previous joint compound line, use 12" finishing knife.
 - b. Do not apply fill coat on interior angles.

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c. Allow fill coat to dry prior to application of finish coat.

3. Finishing:

a. Spread joint compound over and beyond fill coat on all joints. Feather to smooth uniform finish, use 12" finishing knife.

b. Apply finish coat to taped angles to cover tape and taping compound.

c. Sand final application of compound to provide surface ready for decoration.

4. Finishing Beads and Trim:

a. First Fill Coat:

Apply joint compound to beads and trim. Feather out from ground to plane of the surface; dry compound prior to application of second fill coats.

b. Second Fill Coat:

Apply joint compound in same manner as the first fill coat. Extend beyond first coat onto face of wallboard; dry compound prior to application of finish coat.

c. Finish Coat:

Apply joint compound to bead and trim; extend beyond second fill coat; feather finish coat from ground to plane of surface; sand finish coat to provide flat surface ready for decoration.

5. Filling and Finishing Depressions:

a. Apply joint compound as first coat to fastener depressions; apply at least two additional coats of compound after first coat is dry.

b. Leave filled and finished depressions level with plane of wallboard.

G. Installation of Sheathing:

1. Install 1/2" thick, exterior type, gypsum sheathing for all areas to receive E.F.I.S. on the project. Verify sheathing type with E.F.I.S. manufacturer used.

3.03 Field Quality Control:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

END OF SECTION

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SECTION 09310 - CERAMIC TILE –THIN SET (PART OF ADDITIVE ALTERNATIVE NO. 2)

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Industry Standards:

1. Some products and execution are specified in this section by reference to published specifications or standards (with respective abbreviations used); these referenced publications may be subject to special conditions or limitations where specified hereinafter.
2. Referenced Publications:
 - a. American Society for Testing and Materials (ASTM)
 - b. American National Standards Institute (ANSI)
 - c. Tile Council of America (TCA)

B. Qualifications of Installer:

The installer of the products of this section shall have been successfully engaged in the business of installing ceramic tile for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Manufacturer's Data:

Before any products are delivered to the project site, submit to the Architect for review, manufacturer's detailed descriptive and specification data for the products described hereinafter.

C. Samples:

1. After review of manufacturer's data, but before any products are delivered to the project site, submit to the Architect for review, samples consisting of not less than four tiles each, for each color, type and pattern of tile required.
2. Accompanying the sample submittal, submit parts list with drawings for each type or piece of trim or accessory required.

D. Extra Stock: After completion of the work, deliver to the project site not less than 2% replacement material for each 2,000 square feet (or fraction thereof) of each color, type and pattern installed, including one trim and accessory for each type and color installed; extra stock shall be from same manufactured lot as the material installed, boxed and labeled.

1.04 Product Handling:

- A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

- B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

- A. Temperature:
 - 1. Maintain temperature at no less than 50°F throughout setting operations and for at least seven days after completion of tile work.

 - 2. If temporary heaters are used, they shall be vented to the outside.

- B. Ventilation: Where natural ventilation is questionable, provide ventilation by use of sparkproof fans.

- C. Lighting: Maintain lighting of not less than three watts per square foot of floor area in all areas where setting and grouting operations are in progress.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Ceramic Tile:

- 1. Floor Tile: Design is based on standard grade, unglazed ceramic mosaics, impervious porcelain type, integral color, all-purpose edges, on back mounted sheets; face size of tile 12" x 12"; manufactured to meet ANSI A137.1-1980; furnish with 7-1/2 % abrasive grain in shower and drying areas.

- 2. Base Tile:

- a. Type 1:

- Design is based on Standard Grade, matte glazed, bullnose top, coved bottom, 4-1/4" high x 6" long; in-corners to be square; out-corners to be bullnose; manufactured to meet ANSI A137.1 - 1980.

- b. Type 2:

- Design is based on Standard Grade, matte glazed, integral type for use with wall tile, square top, coved bottom, 4-1/4"high x 4-1/4" long; in-corners to be square; out-corners to be bullnose; manufactured to meet ANSI A137.1-1980.

- 3. Wall Tile:

- Design is based on Standard Grade, matte glazed, cushioned edges, on back mounted sheets; face size 4-1/4" x 4-1/4"; in-corners to be square; out-corners to be bulnose; manufactured to meet A137.1-1980.

- 4. Trim Tile:

- a. Ceramic tile trim shall be full size, Standard Grade, matte glazed, manufactured to meet ANSI A137.1-1980.

- b. Observe the following:
 - (1) Curbs: Bullnose and cove to provide smooth rounded surface.
 - (2) Jambs and Heads: Bulnose.

5. Accessories:

Ceramic accessories shall be by same manufacturer of ceramic tile and shall be of the types and sizes shown on the drawings or in the schedules, matte glazed; manufactured to meet ANSI A137.1- 1980.

- 6. Colors: shall be as described in Section 09999 of this project manual.

B. Setting Materials:

- 1. Portland Cement: ASTM C-150 Type 1
- 2. Hydrated Lime: ASTM C-206 or ASTM C-207, Type S
- 3. Sand: ASTM C-144
- 4. Water: Clean and potable.
- 5. Metal Lath: ANSI A42.4, self-furring galvanized weighing not less than 2.5 pounds per square yard.
- 6. Cleavage Membrane: 10 mil polyethylene meeting ANSI A37.77
- 7. Reinforcement: 2" x 2" X 16/16 gauge welded wire mesh.
- 8. Grout:
 - a. Floors: Commercial Portland Cement, grey
 - b. Walls and Base: Commercial Portland Cement, white
 - c. Accessories: Commercial Portland Cement, white

- C. Sealant: Type 4 as described in Section 07900 of this project manual.

2.02 Fabrication: Omitted.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preliminary Requirements:

- 1. Surface Variations: to receive ceramic tile shall be within the allowable variations of 1/8" in 6'.
- 2. Layout:
 - a. Determine location of all movement joints.
 - b. Layout all tile work so as to minimize cuts less than 1/2 tile in size.

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- c. Locate both cuts in walls and floors so as to be least conspicuous.
- d. Align all floor joints to give uniform grout lines parallel to walls.
- e. Align all wall, base, and trim joints to give uniform grout lines plumb and level.

B. Setting Tile:

1. Floor Tile - concrete subfloor, cement mortar, cleavage membrane:

Install floor tile in accordance with TCA Standard F111-87.

2. Floor Tile - concrete subfloor, cement mortar, bonded:

Install floor tile in accordance with TCA Standard F112-87.

3. Base and Wall Tile - masonry back-up, cement mortar, bonded:

Install wall and base tile in accordance with TCA Standard W211-87.

4. Base and Wall Tile - masonry back-up, cement mortar, metal lath:

Install wall and base tile in accordance with TCA Standard W221-87.

5. Trim and accessories shall be installed in accordance with the requirements for the particular wall tile installation with which they are used.

C. Cleaning:

After grout has stiffened, sponge and wash ceramic tile with clear water, then rub with damp cloth or sponge and then polish with dry cloth.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Protection:

1. Foot Traffic: After completion of the installation, prohibit all foot traffic for a period of not less than seven days.
2. Protective Covering: Cover all ceramic tile floors with a non-staining construction paper, masked in place; remove just prior to final inspection, rinse floor and wall tile with clear water and polish with clean dry cloth.

END OF SECTION

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SECTION 09342 - MARBLE THRESHOLDS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Fabricator:

Fabricator of products described hereinafter shall have been successfully engaged in the business of marble fabrication for a period of not less than five years immediately prior to performing the fabrication of the products of this section.

B. Qualifications of Installer:

The products of this section shall be installed by the installers of the ceramic and quarry tile.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing work of this section, submit in triplicate to the Architect a certified statement of qualifications.

B. Shop Drawings:

Submit fabricator's shop drawings to the Architect for review prior to commencing fabrication of marble thresholds.

C. Samples:

Accompanying the shop drawing submittal, furnish samples not less than 3 inches x 3 inches x 3/4 inch for each color of marble required; the samples shall be representative of the color range.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

1. Maintain temperature at not less than 50 degrees Fahrenheit throughout setting operations and for at least seven days after completion of marble work.
2. If temporary heaters are used, they shall be vented to the outside.

B. Ventilation: Where natural ventilation is questionable, provide ventilation by use of sparkproof fans.

- C. Lighting: Maintain lighting of not less than three watts per square foot of floor area in all areas where setting and grouting operations are in progress.

PART 2.00 - PRODUCTS

2.01 Materials:

- A. Marble: Marble shall be White Georgia.
- B. Setting Materials: Setting bed shall be cement mortar, as described in section 09310 of this project manual.
- C. Dowels: shall be 3/8" diameter x 3" long, non-corrosive metal alloy.

2.02 Fabrication:

Marble thresholds shall be fabricated to the sizes and designs shown on the drawing with honed finish on all exposed to view surfaces.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Surface Variations:

Surface to receive marble thresholds shall be within the allowable variations of 1/8 inch in 6 feet.

B. Setting Marble:

Set marble threshold in full bed of cement mortar, level and true to line; dowel into concrete subfloor with concealed dowels (3 per threshold).

C. Cleaning:

After grout has stiffened, sponge and wash marble with clean water, then rub with damp cloth or sponge and then polish with dry cloth.

3.03 Field Quality Control:

- A. Inspection: Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Protection:

1. Foot Traffic: After completion of the installation, prohibit all foot traffic for a period of not less than seven days.
2. Protective Covering: Cover all marble with a non-staining construction paper, masked in place; remove just prior to final inspection, rinse with clear water and polish with clean dry cloth.

END OF SECTION
09342 - 2*

SECTION 09510 - ACOUSTICAL TILE CEILINGS

PART 1.00 - GENERAL

1.01 Quality Assurance:

The installer of the products of this section shall have been successfully engaged in the business of erecting acoustical tile ceilings for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing installation of the products of this section, submit shop drawings to the Architect for review, fully dimensioned and superimposed over duct work; show locations of all mechanical and electrical items located in the ceiling tile.

C. Samples:

Accompanying the shop drawing submittal, furnish samples of each type of ceiling tile and suspension system described hereinafter; ceiling tile samples shall be not less than 12" x 12".

D. Manufacturer's Data:

Accompanying the shop drawing submittal, furnish manufacturer's detailed material and fabrication specifications and installation instructions for each type of acoustical tile for each suspension system described hereinafter.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Environmental Requirements:

For a period of ten days prior to and throughout the installation of acoustical tile and until date of Architect's Final Certificate, maintain a temperature of not less than 50 degrees Fahrenheit and a relative humidity of not more than 60 percent.

B. Glazing:

All glazing of exterior openings shall be complete and exterior doors shall be in place before beginning installation of any work under this section.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Acoustical Tiles:

1. Type 1:

Acoustical ceiling tile shall be 24" x 24" x 5/8" thick, reveal edge for installation in Type 1 suspension system described hereinafter; tile shall be non-directional fissured, manufactured to meet requirements of Federal Specification SS-S-118a, have an STC rating of 35 to 39, with min. density of 16 lbs. per cubic foot, with light reflectance of "A" and have a flame spread of 0-25 (ASTM E84).

Note: All light fixtures are to be directly supported on all 4 (four) corners with No. 9 gauge wire attached to structure above.

2. Type 2:

Design is based on vinyl covered, waterproof gypsum board panels as manufactured by United States Gypsum, 24" x 24" x 1/2". **Install in all toilet rooms and janitor's rooms even if not called for in the Drawings.**

3. Type 3: Ceiling (NOT USED)

Ceiling to be Rock Face Clima Plus, 24" x 24" x 5/8", square edge in Donn DX Suspension System with Rock Face Impaction Clima Plus Spring Assembly Clips, one clip per panel, as manufactured by USG Interiors, Inc., phone (770) 396-9022.

B. Suspension Systems:

1. Type 1: Design is based on DX exposed grid system as manufactured by Donn Corp., Westlake, OH, in manufacturer's standard white finish.
2. Type 2: See Acoustical Tile Type 2 for grid requirements for wet locations.
3. Type 3: To be Donn DX exposed grid system with 1-1/2" cross tees as required by manufacturer for Rock Face Tile. (NOT USED)

C. Tile Markers:

1. Rosettes: Rosettes shall be 2" diameter x 1/16" thick aluminum with white baked enamel finish. Locate on ceiling tiles at all valves above ceiling.
2. Adhesive: Coordinate locations with mechanical. Adhesive to be an epoxy compatible with the ceiling tile with which used.

2.02 Fabrication: Omitted

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this
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section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Layout:

1. Acoustical tile ceilings shall be centered within areas, producing no tile less than 1/2 size, unless specifically shown otherwise on the drawings.
2. Lines shall be established by the Contractor and maintained by him or her throughout the work and all trades shall work to these lines.

B. Erection of Suspension Systems:

1. Type 1: Erect in accordance with the manufacturer's published literature producing:
 - a. a 24" x 24" grid for installation of Type 1 acoustical tile and
 - b. a 24" x 24" grid for installation of Type 2 acoustical tile and
2. Type 2: Erect in accordance with the manufacturer's published literature producing a 24" x 24" grid for installation of Type 3 acoustical tile.

C. Installation of Acoustical Tiles:

Acoustical tiles shall be installed in their respective suspension systems in accordance with the tile manufacturer's installation procedures and recommendations.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning:

Upon completion of work, clean all spots and leave ceiling tile and trim in a clean and spotless condition.

END OF SECTION

09510 - 3*

SECTION 09660 - RESILIENT TILE FLOORING

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Manufacturers:

Resilient tiles, divider strips, edging strips and adhesives shall be the products of the same manufacturer.

B. Qualifications of Installer:

The installer of the products of this section shall have been successfully engaged in the business of installing resilient tile floor covering for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance: Prior to commencing work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Manufacturer's Data:

1. Before any products are delivered to the project site, submit to the Architect for review, the manufacturer's detailed descriptive and specification data for the products described hereinafter.
2. Accompanying the data submittal, furnish the manufacturer's installation instructions.

C. Samples: After review of manufacturer's data, but before any products are delivered to the project site, submit to the Architect for review, full sized samples of the resilient tile for each type and color required; the samples shall be representative of the color range and pattern variation of the tile.

D. Maintenance Guides: Furnish manufacturer's printed maintenance instructions for the resilient flooring.

E. Extra Stock: After completion of the work, deliver to the project site not less than 2 percent replacement material for each 2,000 square feet (or fraction thereof) of each tile color and pattern installed; extra stock shall be from same manufactured lot as the material installed, boxed and labeled.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

- A. Temperature: For a period of at least 24 hours before commencing installation, during installation and for at least 48 hours after installation is complete, maintain a temperature of not less than 70 degrees Fahrenheit.
- B. Ventilation: Where natural ventilation is questionable, provide ventilation by use of sparkproof fans.
- C. Lighting: Maintain lighting of not less than three watts per square foot of floor area in all areas where products of this section are being installed.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Resilient Tiles: **(note: all colors from same color group)**

1. Type 1: Tiles shall be composed of vinyl resins and mineral fibers, 12" x 12" x 1/8" thick, thru chip, free of physical defects and meeting Federal Specifications SS-T-312 B, type IV.
2. Type 2: Same as type 1, except for difference in color; see drawings.
3. Type 3: Same as type 1, except for difference in color, see drawings.

B. Neutral Dividing Strips:

Neutral dividing strips shall be composed of vinyl resins and mineral fibers, 2" wide x 1/8" thick, unless otherwise specifically noted, in lengths as required by the drawings and meeting Federal Specifications SS-T-312 B, type W.

C. Neutral Edging Strips:

Neutral edging strips shall be composed of vinyl resins and mineral fibers, 2 inches wide x 1/8 inch thick, unless otherwise specifically noted, in lengths as required by the drawings, bullnose one edge and meeting Federal Specifications SS-T-312 A, type IV.

D. Adhesive:

Adhesives shall be only that which is recommended by the manufacturer of the resilient material being installed in the work.

E. Colors:

1. Resilient Tiles: Colors for resilient tile shall be as described in section 09999 of this project manual.
2. Neutral Dividing Strips: Black
3. Neutral Edging Strips: Black

2.02 Fabrication: Omitted

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preliminary Requirements:

1. Surface Variations: Surfaces to receive resilient tile shall be within the allowable variations of 1/8" in 6 feet and 1/16 inch in 1 foot.
2. Locations:
 - a. Type 1 resilient tile shall be installed in all locations shown on the drawings or in the schedules where "resilient tile" is called for except
3. Layout: Fields, patterns and borders shall be centered on applied areas. See drawings for designs of different colored resilient tile.

B. Application of Adhesives:

Apply adhesive in accordance with manufacturer's instructions contained in the adhesive packaging material.

C. Laying Resilient Tiles:

Unless otherwise specifically shown on the drawings, lay tiles square with room axes, in patterns and with borders as shown on the drawings; surfaces shall be smooth and even, joints shall be tight and accurately aligned; lay full tile at center of space and partial tiles at walls.

D. Laying Neutral Divider Strip:

Lay neutral dividing strip directly beneath all doors in areas receiving resilient tile; where cased openings occur, dividing strip shall be full depth of cased opening frame.

E. Laying Neutral Edging Strip:

Where resilient tile terminates at a point higher than contiguous flooring and where carpet surfacing abuts resilient tile, lay edging strip.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning and Protection:

Upon completion of the installation, remove excess adhesive and blemishes from tile and adjacent surfaces, using a neutral type cleaner and then provide a non-staining paper pathway taped to the tile in direction of foot traffic; remove just prior to final inspection and then clean tile and related items and buff with a mechanical buffer.

3.04 Contractor Cleaning Instructions To Owner:

A. Prior to occupancy of the Owner, floor covering subcontractor to submit written detailed cleaning and sealing requirement for the upkeep of the resilient tile floor. Floor covering subcontractor to demonstrate to Owner's Representative proper cleaning and sealing procedure and submit signed letter from Owner's Representative stating instructions were given to Architect.

Floor covering subcontractor is to clean all resilient tile floors and install a minimum of four coats of sealer with 24 hours between coats and buff each coat prior to substantial completion.

END OF SECTION

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SECTION 09661 - RESILIENT BASE

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Manufacturers:

Resilient base and adhesives shall be the products of the same manufacturer.

B. Qualifications of Installer:

The installer of the products of this section shall have been successfully engaged in the business of installing resilient tile floor covering for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Manufacturer's Data:

1. Before any products are delivered to the project site, submit to the Architect for review, the manufacturer's detailed descriptive and specification data for the products described hereinafter.
2. Accompanying the data submittal, furnish the manufacturer's installation instructions.

C. Samples:

After review of manufacturer's data, but before any products are delivered to the project site, submit to the Architect for review, samples 6" long for each type and color required; the samples shall be representative of the color range.

D. Maintenance Guides:

Furnish three copies of manufacturer's printed maintenance instructions for the resilient base.

E. Extra Stock:

After completion of the work, deliver to the project site not less than 15 linear feet of base for each color and type of resilient base installed; extra stock shall be from same manufactured lot as material installed, boxed and labeled.

1.04 Product Handling:

A. Protection:

Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements:

In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

For a period of at least 24 hours before commencing installation, during installation and for at least 48 hours after installation is complete, maintain a temperature of not less than 70 degrees Fahrenheit.

B. Ventilation:

Where natural ventilation is questionable, provide ventilation by use of sparkproof fans.

C. Lighting:

Maintain lighting of not less than three watts per square foot of floor area in all areas where products of this section are being installed.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Resilient Base:

Resilient base shall be set on type, cove, 4" x .080" thick, fabricated from homogeneous vinyl and conforming to Fed. Specifications SS-W-40A, type II.

B. Adhesive:

Adhesive shall be only that which is recommended by the manufacturer of the base being installed.

C. Colors:

Colors for resilient base shall be as described in section 09999 of this project manual. 3 colors from the same color group will be used.

2.02 Fabrication: Omitted

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preliminary Requirements: Surfaces to receive resilient base shall be within the allowable variations of 1/8 inch in 6 feet and 1/16 inch in 1 foot.

B. Application of Adhesives:

Apply adhesive in accordance with manufacturer's instructions contained in the adhesive packaging material. Apply 3 beads of adhesive to surfaces receiving resilient base.

C. Resilient Base:

Apply resilient base in all areas as shown on the drawings, in as long lengths as practicable, tightly bonding base to backing throughout the length of each piece, with continuous contact at horizontal and vertical surfaces; do not stretch base; tightly wrap corners with a continuous piece of resilient base with the nearest seam not less than 18" from the corner.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning:

Upon completion of the installation, remove excess adhesive and blemishes from the base and adjacent surfaces using a neutral type cleaner; just prior to final inspection clean base with soap and water and buff with dry cloth.

END OF SECTION

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SECTION 09900 - PAINTING & WALL COVERING

PART 1.00 - GENERAL

1.01 Quality Assurance:

The applicator of the products described hereinafter shall have been successfully engaged in the business of painting for not less than five years immediately prior to performing the work of this section.

1.02 Definitions:

- A. Paint: Term used in a general sense and has reference to sealers, primer, stains, oils, alkyd, latex, epoxy and enamel type paints.
- B. Painting: Term used in a general sense and has reference to the application of "paint", without regard to the type of material to an item.
- C. Back Prime: Term used in a general sense and has reference to the application of "paint" (first coat), without regard to the type of material, to the back side (unexposed to view) of an item.

1.03 Submittals:

- A. Proof of Compliance: Prior to commencing work of this section, submit in triplicate to the Architect:
 - 1. a certified statement of qualifications and
 - 2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.
- B. Materials List: Prior to delivery of any paint materials to the project site, submit to the Architect for review, a complete list of all paint materials to be used in this project as described hereinafter.
- C. Manufacturer's Data: Accompanying the materials list, furnish the paint manufacturer's detailed descriptive and specification data and application instructions for each type of paint required.
- D. Color Samples:
 - 1. After review of the material list and manufacturer's data, but prior to delivery of any paint to the project site, submit color samples, not less than 12" x 12" each, for each type and color of finish required.
 - 2. Wherever possible, the material upon which the sample colors are applied shall be the same material as that on which the paint will be applied in the project.

1.04 Product Handling:

- A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

Maintain a constant temperature of not less than 50⁰ F. during painting and drying operations and until date of Architect's Final Certificate.

B. Ventilation:

Provide ventilation to allow for the proper drying of the paint materials by using either of the following:

1. temporary air circulators (sparkproof).
2. air conditioning system.

C. Lighting:

Maintain lighting of not less than three watts per square foot of floor area in all areas where painting operations are in progress.

PART 2.00 - PRODUCTS

2.01 Materials:

A. Paint:

1. All paints selected for the coating system for each type of surface shall be the product of a single manufacturer and as described hereinafter.
2. Thinners, when used, shall be only those thinners recommended for that purpose by the manufacturer of the material to be thinned.
3. Colors shall be as specified in Section 09999 of this project manual.

B. Equipment:

1. Application Equipment:

Brushes, rollers, spray apparatus and like application equipment are not required to be new, but they shall be capable of producing the required results specified hereinafter.

2. Accessory Equipment:

Ladders, scaffolding, drop cloths, scrapers, dusters, and like items are not required to be new, but they shall be safe, adequate and capable of producing the results for which they are intended.

2.02 Fabrication: Omitted.

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PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Preliminary Requirements:

1. Surface Preparation:

a. Protection:

Prior to all surface preparation and painting operations, completely mask, remove or otherwise adequately protect all hardware, accessories, machined surfaces, plates, lighting fixtures, and similar items in contact with painted surfaces, but not scheduled to receive paint. All locksets, surface mounted closers, push and pull plates, kick plates, panic devices, door and drawer pulls and similar items shall be removed prior to commencing painting operations.

b. Priming:

Spot prime all exposed nails and other metals which are to be painted with emulsion paints, using a primer recommended by the manufacturer of the coating system.

c. Cleaning:

- (1) Before applying paint or other surface treatment, thoroughly clean all surfaces involved.
- (2) Schedule all cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

2. Mildew:

- a. Remove and neutralize mildew by scrubbing affected areas thoroughly with a solution made by adding 2 oz. Trisodium Phosphate type cleaner and 8 oz. Sodium Hypochloride to 10 gal. of warm water.
- b. Use a scouring powder if necessary to remove mildew spores.
- c. Rinse with clear water and allow to dry thoroughly before painting.

3. Efflorescence:

Scrub off with a commercial lime solvent or one part commercial muriatic acid to five parts water and then rinse with clear water and allow surface to thoroughly dry before painting.

4. Wood:

- a. Sandpaper to smooth and even surface, then dust off.
- b. Before priming coat is applied, touch up all knots, pitch streaked and resinous sapwood with shellac, four pound cut.

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- c. After priming coat has dried, putty all nail holes, cracks, open joints and other defects.
 - d. Putty shall be colored to match stain or paint.
 - e. Prior to installation, painted wood trim shall be back-primed and stained wood trim shall be back-sealed.
5. Plaster (Gypsum):
- a. Rake small cracks, scratches and abrasions deeply.
 - b. Undercut large crack edges, coat with shellac and fill with prepared patching plaster.
 - c. Spot coat patches with prime coat when dry and prior to applying specified prime coat.
 - d. Do not use sandpaper on plaster surfaces to be painted.
 - e. Before painting any plaster, surfaces shall be tested with a moisture testing device.
 - f. No paint or sealer shall be applied on plaster when moisture content exceeds 20%, except as may otherwise be required by the manufacturer of the paint materials to be used.
6. Gypsum Wallboard:

Fill all minor irregularities with spackling compound and sand to a smooth, level surface, exercising care to avoid raising nap of paper.

7. Concrete, Unit Masonry and Exterior Plaster (Portland Cement):
- a. Patch large openings and holes with Portland cement mortar and finish flush with adjacent surface.
 - b. After priming, fill any remaining small holes with Swedish putty made by mixing dry whiting with prime coat of paint.
 - c. Remove form-oil from poured-in-place concrete by washing concrete with Xylol.
 - d. Surfaces shall be allowed to dry completely, usually 60 to 90 days in moderate weather, before painting.
 - e. No painting shall be done until surfaces are tested by moisture meter and shown to be within the acceptable limits of the specified manufacturer and safe to paint.
8. Ferrous Surfaces:
- a. Remove dirt and grease with mineral spirits and wipe dry with clean cloths.
 - b. Remove rust, mill scale and defective paint down to bare metal, using scraper, sandpaper or wire brush as necessary.

- c. Grind if necessary to remove shoulders at edge of sound paint to prevent flaws from photographing through finish coats.
 - d. Touch up all bare metal and damaged shop coats with specified rust inhibitive primer.
9. Galvanized Surfaces:
- a. Remove dirt and grease with mineral spirits and dry with clean cloth.
 - b. All galvanized steel surfaces shall be pretreated with proprietary acid-bound resinous or crystalline zinc phosphate preparation prior to painting.
10. Lead Coated Copper: Remove dirt and grease with mineral spirits and wipe dry with clean cloth.
- B. Paint Application:
- 1. General:
 - a. Paint all surfaces except aluminum, glass, face brick and prefinished items unless otherwise shown on the drawings.
 - b. Paint all access panels, registers and grilles to match the color of the adjacent walls or ceilings.
 - c. Prime coated butts shall be painted the same color as the door trim.
 - d. Exposed piping, conduit, ductwork, and hangers, generally in finished areas, shall be painted to match the walls or ceilings adjacent to them; where adjacent surfaces are unpainted these items will be painted black.
 - e. The top and bottom edges of all wood and metal doors shall be finished with two coats of paint or varnish as used for finished coat, applied after fitting but before faces are painted.
 - f. The interior of all cabinets, including drawers and shelves, shall be finished the same as in the exterior surfaces.
 - g. Where aluminum materials are placed in contact with or fastened to dissimilar metals, with the exception of stainless steel or galvanized metals, the contact surfaces shall be given a heavy brush coat of zinc chromate primer made with a synthetic resin vehicle, followed by two coats of aluminum metal and masonry paint.
 - h. Where aluminum materials are placed in contact with, or built into masonry or plaster, they shall be given a heavy brush coat of methacrylate lacquer.
 - i. Where aluminum materials are placed in contact with green or wet wood, or any absorptive material subjected to repeated wetting, or wood treated with a non-compatible preservative, the contact surfaces shall be given a heavy brush coat of aluminum pigmented bituminous paint.

- j. Dissimilar metals shall be painted if drainage from them passes over aluminum work.
2. Drying:
 - a. Allow sufficient drying time between coats.
 - b. Modify the period as recommended by the material manufacturer to suit adverse weather conditions.
 - c. Oil-base and oleo-resinous solvent type paints shall be considered dry for re-coating when the paint feels firm, does not deform or feel sticky under moderate pressure of the thumb, and the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
 3. Environmental Conditions:
 - a. Comply with the manufacturer's recommendation as to environmental conditions under which the coating systems may be applied.
 - b. Do not apply paint in areas where dust is being generated.
 4. Moisture Content:
 - a. Use a moisture meter approved by the Architect to test surfaces.
 - b. Do not apply the initial coating until moisture meter reading is within limits recommended by the paint materials manufacturer.
 5. Defects: Sand and dust between coats to remove all defects visible to the unaided eye from a distance of five feet.
 6. Color of Undercoats: Slightly vary the color of succeeding coats.
- C. Inspection:
1. General: Do not apply additional coats until completed coat has been inspected and approved by the Architect.
 2. Number of Coats: Only inspected and approved coats of paint will be considered in determining the number of coats applied.

D. Reinstallation of Removed Items:

Following completion of painting in each area, promptly reinstall all items removed for painting, using only workmen skilled in the particular trade.

E. Painting Systems Schedule:

1. Exterior:
 - a. Exterior Gypsum Wallboard: shall be painted with one of the following:
 - (1) Sherwin-Williams Company
 - 1 coat A-100 Exterior Latex Primer
 - 2 coats Tile Clad II Enamel B-62 Series
 - (2) PPG Industries
 - 1 coat Pit Glaze Pigmented Sealer
 - 2 coats Pit Glaze
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- (3) Glidden
 - 1 coat Spred Primer Sealer No. 3416
 - 2 coats Glid-Tile Epoxide

- b. Ferrous Metal: shall be painted with one of the following:
 - (1) Sherwin-Williams Company
 - 1 coat Kem Kromik Primer
 - 2 coats Industrial Primer

 - (2) PPG Industries
 - 1 coat 54-208 Rust Control Primer
 - 2 coats Quick Drying Exterior Enamel

 - (3) Glidden
 - 1 coat 4570 Red Oxide Primer
 - 2 coats Glid-Guard Alkyd Enamel

- c. Galvanized Metal; Lead Coated Copper:
All galvanized metal shall be painted with one of the following:
 - (1) Sherwin-Williams Company
 - 1 coat Galvite
 - 2 coats Industrial Enamel

 - (2) PPG Industries
 - 1 coat 6-209 Galvanized Iron Primer
 - 2 coats Quick Drying Exterior Enamel

 - (3) Glidden
 - 1 coat #5229 Galvanized Iron Primer
 - 2 coats Glid-Guard Alkyd Enamel

- d. Cast-In-Place Concrete:
All exposed to view Cast-In-Place Concrete to receive paint coating except sidewalk and stairs. Where called for on the drawings, cast-in-place concrete shall be painted with one of the following:
 - (1) Sonneborn Building Products
 - 2 coats (10 mil film thickness each coat)
 - Hydrocide Super Color Coat

 - (2) Tnemec
 - 1 coat (7.8 mil film thickness) System 52-1

- e. Wood (Painted):
Where called for on the drawings; wood shall be painted with one of the following:
 - (1) Sherwin-Williams Company
 - 1 coat A-100 Alkyd Primer Y24W20
 - 2 coats SWP Gloss Paint A2 Series

 - (2) PPG Industries
 - 1 coat Sun-Proof Universal Primer
 - 2 coats Sun-Proof House and Trim Paint

- (3) Glidden
 - 1 coat Y-1951 Base Coat
 - 2 coats Y-1901 House and Trim Paint
- 2. Interior:
 - a. Concrete:

Interior concrete exposed to view, except floors, shall be painted with one of the following systems:

 - (1) Sherwin-Williams Company
 - 2 coats Pro Mar 200 Latex Semi Gloss B31W200
 - (2) PPG Industries
 - 2 coats No. 6-510 Latex Semi Gloss
 - (3) Glidden
 - 2 coats Spred Low Lustre Latex Enamel No. 3700
 - b. Hollow Concrete Masonry - Special Coating:
 - (1) Sherwin-Williams Company
 - 1 coat H.D. Block Filler B42W46
 - 2 coats Tile Clad II Epoxy
 - (2) PPG Industries
 - 1 coat Pit Glaze Block Filler 16-9
 - 2 coats Pit Glaze
 - (3) Glidden
 - 1 coat 5512 Glid-Tile Block Filler
 - 2 coats 5550/5552 Glid-Tile Epoxide
 - c. Hollow Concrete Masonry:

Interior hollow concrete masonry not scheduled to receive special coating shall be painted with one of the following:

 - (1) Sherwin-Williams Company
 - 1 coat Block Filler B25W25
 - 2 coats Pro Mar 200 Latex Semi Gloss B31W200
 - (2) PPG Industries
 - 1 coat Speedhide Masonry Block Filler 6-7
 - 2 coats No. 6-510 Latex Semi Gloss
 - (3) Glidden
 - 1 coat 581-W-8101 Block Filler
 - 2 coats Spread Low Lustre Latex Enamel No. 3700
 - d. Plaster (Gypsum): Omitted.
 - e. Plaster - Special Coating: Omitted.
 - f. Ferrous Metal:

Ferrous metal exposed to view, including but not limited to all mechanical piping, structural steel and air conditioning ducts, shall be painted with one of the following systems:

 - (1) Sherwin-Williams Company
 - 1 coat Kem Kromik Primer
 - 2 coats Industrial Enamel B54 Series

- (2) PPG Industries
 - 1 coat 54-208 Primer
 - 2 coats Speedhide Semi Gloss Enamel

- (3) Glidden
 - 1 coat 4520 Glide Guard Red Oxide Primer
 - 2 coats Spred Lustre 4600 Series

g. Gypsum Wallboard: (Eggshell Finish)

Gypsum wallboard scheduled to receive paint (not special coatings) shall be painted with one of the followings systems:

- (1) Sherwin-Williams Company
 - 2 coats Pro Mar 200 Latex Eg-Shel B20W200

- (2) PPG Industries
 - 1 coat 6-2 Emulsion Sealer
 - 1 coat Wall Hide No. 80-6

- (3) Glidden
 - 1 coat PVA Primer Sealer (tinted to 1/2 wall color)
 - 1 coat Spread Stain No. 3400

h. Gypsum Wallboard - Special Coating:

Gypsum wallboard scheduled to receive special coating shall be painted with one of the following systems:

- (1) Sherwin-Williams Company
 - 1 coat Pro Mar 200 Primer B28W200
 - 2 coats Tile Clad II Epoxy B62 Series

- (2) PPG Industries
 - 1 coat Pit Glaze Pigmented Sealer
 - 2 coats Pit Glaze

- (3) Glidden
 - 1 coat Spred Primer Sealer No. 3416
 - 2 coats Glid-Tile Epoxide

i. Wood (Stained): All wood scheduled to be stained shall be painted with one of the following:

- (1) Sherwin-Williams Company
 - 1 coat Interior Oil Stain A48 Series
 - 1 coat Oil Base Varnish A66V91 Gloss
 - 1 coat Oil Base Varnish Stain

- (2) PPG Industries
 - 1 coat Rez Stain
 - 2 coats Rez Varnish Satin Finish

- (3) Glidden
 - 1 coat 200 Series Spred Wood Stain
 - 2 coats Spred Urethane Stain Varnish 10

j. Wood (Painted):

All wood scheduled to be painted shall be painted with one of the following systems:

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- (1) Sherwin-Williams Company
 - 1 coat Wall and Wood Primer B49W2
 - 1 coat Pro Mar 200 Alkyd Semi Gloss
- (2) PPG Industries
 - 1 coat 6-6 Enamel Undercoat
 - 1 coat 27-109 Semi Gloss Enamel
- (3) Glidden
 - 1 coat Spred Wood Y-555, Enamel Undercoat
 - 1 coat Spred Lustre 4600 Series Semi Gloss Enamel

k. Vinyl Wall Covering – **(Part of Additive Alternative No. 3)**

- (1) Design is based on Desert Sand, 54” contract vinyl wall covering as manufactured by Koroseal Wallcoverings, phone (800) 828-4556, meeting the following specifications other manufacturers may be used.

<u>Physical Properties</u>	<u>U.S. Units</u>	<u>Metric Units</u>
Total Weight	21 oz. ply 14 oz. psy	651 g. plm 475 g. psm
Roll Width	53/54 inch	135/137 cm
Thickness	.009 inch	0.23 mm
Fabric	Osnaburg	
Fed Spec	CCC-W-408A, Type II	
CCFA Spec	CCFA-W-101, Type II, Class A	
Fire Testing	NFPA 101 Life Safety Code	
	*NFPA 255 (ASTM E84, CAN S102M, Tunnel Test ¹ , Class A rating	
	*NFPA 286 Corner Burn Test ² meets requirements for flame spread, smoke developed, and flashover.	
	*UL labeled and listed	
Repeat	Horizontal N/A Vertical N/A Random Match	

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Clean Up:

1. During progress of the work, do not allow the accumulation of empty containers or other excess items except in areas specifically set aside for that purpose.
2. Prevent accidental spilling of paint materials and, in event of such spill, immediately remove all spilled material and the waste or other equipment used to clean up the spill, and wash the surfaces to their original undamaged condition.
3. Upon completion of this portion of the work, visually inspect all surfaces and remove all paint and traces of paint from surfaces not scheduled to be painted.

END OF SECTION

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SECTION 09999 - COLOR SCHEDULE

PART 1.00 - GENERAL

1.01 Quality Assurance:

Quality assurance is described in pertinent other sections of this project manual.

1.02 Definitions:

Definitions are listed in pertinent other sections of this project manual.

1.03 Submittals:

A. Samples, Color Charts, Manufacturer's Data: Samples, color charts, manufacturer's data and other submittals are described in pertinent other sections of this project manual.

B. Color Schedule:

1. Upon written request from the Contractor and after receipt and review of all samples, color cards, and manufacturer's data pursuant to color and finishes, the Architect will prepare for the Contractor's use, a color schedule for each space scheduled to receive any finish material and a color board illustrating each color described in the color schedule. Colors may vary from space to space.

2. The color board and/or copy of the color schedule shall be kept at the project site until date of Architect's Final Certificate and at that time it shall be returned to the Architect.

1.04 Product Handling:

Product handling is described in pertinent other sections of this project manual.

1.05 Job Conditions:

Job conditions are described in pertinent other sections of this project manual.

PART 2.00 - PRODUCTS

2.01 Materials:

Materials and manufacturers are described in pertinent other sections of this project manual.

2.02 Fabrication:

Fabrication, measurement and mixing of products and materials are described in pertinent other sections of this project manual.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

Installation of various finish materials and products is described in pertinent other sections of this project manual.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Protection and Cleaning:

Protection and cleaning of the various finishes are described in pertinent other sections of this project manual.

END OF SECTION

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SECTION 09680 - FLOOR CARPETING

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualifications of Manufacturers:

Manufacturers of the products of this section shall have been successfully engaged in the manufacture of the specific item to be furnished by them for a period of not less than five years immediately prior to furnishing the products for this work.

B. Qualifications of Installer:

The installer of the products of this section shall have been successfully engaged in the business of installing carpet floor covering and related items for a period of not less than five years immediately prior to performing the work of this section.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance: Prior to commencing work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Samples: Furnish samples to the Architect for review as follows:

1. Floor Carpet: 18" x 18" for each type and color described hereinafter.
2. Carpet Cushion: 18" x 18".
3. Accessories: full size x 12" long for each accessory described hereinafter.

C. Shop Drawings: Accompanying the sample submittal, submit shop drawings to the Architect for review, showing locations of all seams and accessory items.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

A. Temperature:

1. Maintain temperature at not less than 50°F. throughout installation operations and for at least seven days after completion of carpet work.
2. If temporary heaters are used, they shall be vented to the outside.

B. Ventilation: Where natural ventilation is questionable, provide ventilation by use of sparkproof fans.

C. Lighting: Maintain lighting of not less than three watts per square foot of floor area in all areas where installation operations are in progress.

PART 2.00 - PRODUCTS

2.01 Materials: **NOTE: Provide \$55 S.Y. Cash Allowance for Purchase, Installation, and Delivery of carpet**

- A. Adhesive: Carpet adhesive shall be release type which will allow removal of carpet without damage, comply with flame spread and smoke density requirements of Type 1 carpet and be only that which is recommended by the manufacturer of the carpet being installed.
- B. Accessories: Reducers: shall be fabricated from homogeneous vinyl and of the types shown on the drawings; color shall be as selected by the Architect to complement color of carpet with which it is used.

2.02 Fabrication: Omitted.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

- A. Preliminary Requirements: Surfaces to receive carpet shall be within the allowable variations of 1/8" in 6' and 1/16" in 1', dry and broom clean.
- B. Laying:
 - 1. Test Sample: In the presence of the Architect, install a test sample not less than 10' x 10' to demonstrate adhesion and removal capability of the bonding system.
 - 2. Reducers: Install reducers where carpet terminates higher than contiguous abutting floor finish, applying adhesive in accordance with the manufacturer's instructions contained in the adhesive packaging material; reducers shall be accurately aligned, with tight joints at abutting surfaces; intermediate joints in reducers will not be permitted.
 - 3. Carpet:
 - a. Prior to application of adhesive, cut and fit carpet for each area.
 - b. Apply adhesive in accordance with manufacturer's instructions contained in the adhesive packaging material.
 - c. Install carpet with tightly butted seams and edges true to line; roll to a uniform bond, eliminating all air pockets.
 - 4. Carpet:
 - a. Install in locations shown on the drawings using continuous lengths and as broad width as possible to minimize seams.
 - b. Cut edges shall be trued and appropriately treated to form invisible and non-ravelling joints where exposed.
 - c. Carpet shall be installed in accordance with manufacturer's recommendations for seam technique and for proper amount of stretch in width and length.

d. Transition material shall be installed in the locations shown on the drawings and shall be exposed to view type or concealed type as shown thereon; installation shall be in accordance with manufacturer's recommendations contained in the material packaging.

e. Reducers shall be installed in the locations shown on the drawings and shall be of the designs shown thereon; installation shall be in accordance with manufacturer's recommendations contained in the material packaging.

3.03 Field Quality Control:

A. Inspection:

1. Materials and workmanship at all times will be subject to inspection by the Architect or his representative.
2. Installed carpet shall be free of spots, dirt, soil, and shall be without tears, frays or pulled tufts.

B. Cleaning:

1. Reducers: Upon completion of the installation, remove excess adhesive and blemishes from the reducers and adjacent surfaces using a neutral type cleaner.
2. Carpet: Upon completion of the installation, remove adhesive from face of carpet and adjacent surfaces; vacuum all carpets with a commercial machine with rotating agitator or beater in nozzle; remove soiled spots using only cleaner which is recommended by the manufacturer of the carpet installed; remove blemishes from adjacent surfaces.

- C. Protection: Cover carpet and accessories with a non-staining paper, masked in place, remove just prior to final inspection, vacuum carpet and clean all exposed to view accessories as recommended by their manufacturers.

END OF SECTION

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SECTION 10001 - FIRE EXTINGUISHERS AND CABINETS

PART 1.00 - GENERAL

1.01 Quality Assurance: The products of this section shall be the same manufacturer.

1.02 Definitions: Omitted

1.03 Submittals:

A. Manufacturer's Data:

Before any products of this section are delivered to the project site, submit to the Architect for review, manufacturer's detailed descriptive and specification data for the products described hereinafter.

B. Shop Drawings:

After review of the manufacturer's data, but prior to delivery of the products of this section to the project site, submit manufacturer's shop drawings to the Architect for review.

1.04 Product Handling:

A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted.

PART 2.00 - PRODUCTS

2.01 Fire Extinguishers and Cabinets:

(Prior to ordering, verify type and size with local Building Official.)

A. Fire Extinguishers:

1. Type 1: to be 4A60BC. (See Drawing for locations.)

a. Design is based on Cosmic, as manufactured by J.L. Industries, Bloomington, MN for cabinet mounting.

b. The following are acceptable (or equal):

(1) _____ as manufactured by Larsen's Manufacturing Company, Minneapolis, MN for cabinet mounting.

(2) _____ as manufactured by Potter-Roemer

(3) _____ as manufactured by Amerex.

2. Type 2: To be 40 B:C Regular Dry Chemical

Fire extinguisher type 2 shall be the same MFS as type 1.

B. Fire Extinguisher Cabinets: (Note: Semi-recessed cabinets acceptable.)

1. Manufacturer:

Design is based on Clear Vu Model 1525 with Style F25 door and glazing, as manufactured by J.L. Industries, Bloomington, MN.

2. The following are acceptable:

- a. Cameo series model ALC2409-R as manufactured by Larsen's Manufacturing Company, Minneapolis, MN.
- b. Bubble cabinet model no. 118 Al-Alum, full bubble, as manufactured by Muckle Manufacturing, Owatonna, MN.
- c. Bubble cabinet, model no. 7340-BA as manufactured by Potter-Roemer of Cerritos, CA.

C. Wall Mounting Brackets: shall be manufacturer's standard for fire extinguishers being installed.

D. Colors:

1. Fire Extinguisher Cabinets:

- a. Interior of Cabinet: white baked enamel.
- b. Trim: aluminum.
- c. Vision Panel: clear.

2. Wall Mounting Brackets: manufacturer's standard bracket.

E. Anchors: shall be manufacturer's standard for each particular installation.

2.02 Fabrication: Omitted.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Cabinets and Wall Brackets:

Install cabinets and wall brackets in the locations and at the heights shown on the drawings, anchoring securely in accordance with the details of the manufacturer of the products being installed.

B. Fire Extinguishers:

After cabinets and wall brackets are in place install one fire extinguisher in each cabinet and each wall bracket.

C. Filling and Servicing:

All fire extinguishers shall be filled and tagged according to NFPA 10 Guidelines and federal, state and local codes.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning:

Upon completion of the installation, clean all surfaces as recommended by the manufacturer of the products installed.

END OF SECTION

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SECTION 10260 - WALL AND CORNER GUARDS

PART 1.00 - GENERAL

1.01 Quality Assurance:

A. Qualification of Manufacturer:

The manufacturer of the products of this section shall have been successfully engaged in the business of manufacturing and fabricating plastic laminate toilet partitions for a period of not less than five years immediately prior to furnishing the products of this section.

B. Special Warranty:

As a condition of acceptance, furnish a written warranty agreeing to replace products found to be defective as a result of inferior grade of materials or inferior workmanship within ten years of date of Architect's Final Certificate.

1.02 Definitions: Omitted

1.03 Submittals:

A. Proof of Compliance:

Prior to commencing any work of this section, submit in triplicate to the Architect:

1. a certified statement of qualifications and
2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.

B. Shop Drawings:

Prior to commencing fabrication of the products of this section, submit shop manufacturer's shop drawings to the Architect for review, fully dimensioned, showing actual field measurements and showing method of installation and anchorage.

C. Manufacturer's Data:

Accompanying the shop drawing submittal, furnish the Architect for review, manufacturer's detailed materials and fabrication specifications and installation recommendations; include catalogue cuts of all hardware, anchors and accessories.

D. Color Card:

In addition to the above submittals and accompanying same, furnish Architect manufacturer's standard color cards.

E. Samples:

After review of the above submittals, but prior to commencing fabrication, submit to the Architect for review, samples for each color required; samples shall be representative of color, texture and surface reflectivity.

F. Templates: Prior to commencing installation, the Contractor shall be furnished setting drawings and templates by the manufacturer of the products of this section.

G. Special Warranty: Submit as hereinbefore described in triplicate.

1.04 Product Handling:

- A. Protection: Protect the products of this section from damage during delivery, storage and after installation.

- B. Replacements: In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions:

Prior to commencing installation of the products of this section, all finish flooring, wall finishes and plumbing fixtures shall be in place.

PART 2.00 - PRODUCTS

2.01 Materials:

- A. Door Frame Guards: (Not used)
 - 1. Design is based on "Pro-Tek", model DFG-30 by Pawling Corporation, Wassaic, New York.

 - 2. The following are acceptable:
 - a. Door frame guard model #1700 by IPC, Muskego, WI.
 - b. Door frame guard model #CG-2164 by American Floor Products Co., Rockville, MD.

- B. Corner Guards:
 - 1. Design is based on "Pro-Tek", model CG-10/TC-10 (4') by Pawling Corporation, Wassaic, New York.

 - 2. The following are acceptable:
 - a. Corner guards model #150 by IPC, Muskego, WI.
 - b. Corner guards model #CG-2157 by American Floor Products Co., Rockville, MD.

- C. Wall Guards: (Not used)
 - 1. Design is based on "Pro-Tek", model WG-8 by Pawling Corporation, Wassaic, New York.

 - 2. The following are acceptable:
 - a. Wall guards model #1650 by IPC, Muskego, WI.
 - b. Wall guards model #WG-2181 by American Floor Products Co., Rockville, MD.

- D. Colors: shall be as selected by the Architect and may differ from space to space.

- E. Hardware and Accessories: As supplied by manufacturer.

- F. Anchorage and Fasteners:

All anchorages and fasteners shall be manufacturer's standard; use theft-resistant type where heads or nuts are exposed to view in finished works.

2.02 Fabrication:

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Fabricate all door frame guards, corner guards and wall guards to the sizes shown on the drawings and in accordance with the standards and specifications contained in the published literature of their manufacturer.

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 Installation:

A. Door Frame Guards, Corner Guards and Wall Guards:

Door frame guards, corner guards and wall guards shall be installed in the locations shown on the drawings, and in accordance with the details shown thereon, straight, plumb and with all horizontal lines level and rigidly secured in place. Provide in wall blocking at all wall anchor points.

3.03 Field Quality Control:

A. Inspection:

Materials and workmanship at all times will be subject to inspection by the Architect or his representative.

B. Cleaning:

Just prior to final inspection, remove maskings and labels; clean all surfaces as recommended by their manufacturer.

END OF SECTION

SECTION 10800 - REST ROOM ACCESSORIES

PART 1.00 - GENERAL

1.01 Quality Assurance:

- A. **Qualifications of Manufacturer:** The manufacturer of the products of this section shall have been successfully engaged in their manufacture for a period of not less than five years immediately prior to furnishing the products of this section.
- B. **Special Requirement:** Unless specifically noted otherwise, all accessories shall be the products of the same manufacturer.

1.02 Definitions: Omitted

1.03 Submittals:

- A. **Proof of Compliance:** Prior to commencing any work of this section, submit in triplicate to the Architect:
 - 1. a certified statement of qualifications and
 - 2. a certified statement to the effect that all products proposed to be used meet the requirements of this section.
- B. **Manufacturer's Data:** Prior to delivery of any products of this section to the project site, submit to the Architect for review, proposed manufacturer's detailed descriptive and specification data and installation instructions for each accessory described hereinafter.

1.04 Product Handling:

- A. **Protection:** Protect the products of this section from damage during delivery, storage and after installation.
- B. **Replacements:** In the event of damage, immediately make all repairs and replacements as directed by the Architect.

1.05 Job Conditions: Omitted

PART 2.00 - PRODUCTS

2.01 Materials:

- A. **Materials:**
 - 1. Accessory marked 1, Roll Paper Holder (with theft resistant spindle):
One of the following:
 - a. Bradley, No. 5241-52
 - b. Bobrick, No. B-27460
 - c. ASI, No. 7305-2-R009
 - 2. Accessory marked 2, Towel Dispenser with Waste Receptacle:
One of the following:
 - a. Bradley, No. 237-10 (semi-recessed)
 - b. Bobrick, No. B-3942 (semi-recessed)
 - c. ASI No. 0469-2 (semi-recessed)

3. Accessory marked 3, Mirror Type 1:
One of the following:
 - a. Bradley, No. 700, 18" x 24"
 - b. Bobrick, No. B-165 x 1824
 - c. A&J, No. U-710, 18" x 24"

4. Accessory marked 4, Mirror Type 2:
One of the following:
 - a. Bradley, Model 740, 16" x 30"
 - b. Bobrick, No. B-293, 16" x 30"
 - c. A & J, No. U-704, 16" x 30"

5. Accessory marked 5, Soap Dispenser (in counter top):
 - a. Bobrick, No. B-8816

6. Accessory marked 6, Napkin Disposal:
One of the following:
 - a. Bradley, No. 4722-15
 - b. Bobrick, No. B-254

7. Accessory marked 7, Towel Rack Type 1: **(Not Used)**
 - a. Bobrick No. B7676

8. Accessory marked 8, Grab Bar Type 1:
One of the following:
 - a. Bradley, No. 8122-00242
 - b. Bobrick, No. B-6206.99 x 42"
 - c. A & J, No. UG30A x 42"

9. Accessory marked 9, Grab Bar Type 2:
One of the following:
 - a. Bradley, No. 8122-00236
 - b. Bobrick, No. B-6206.99 x 36"
 - c. A & J, No. UG30A x 36"

10. Accessory marked 10, Mop Holder with Shelf:
(Provide one; locate in Space 116)
 - a. Bradley, No. 9984, 36" long
 - b. Bobrick, No. B-224 x 36" long
 - c. ASI, No. 1315

11. Accessory marked 11, Diaper Changer: **(Not Used)**
One of the following:
 - a. Koala Bear Kare-Horizontal
 - b. Baby Quick Change, No. 100E
 - c. ASI, No. 9010

12. Accessory marked 11, Shower Curtain Rod: **(Not Used)**
 - a. Bobrick No. B-6047

13. Accessory marked 13, Unframed Mirror:
 - a. Unframed mirror width of vanity x 4' high.

14. Accessory marked 14, Shower Grab Bar: **(Not Used)**
 - a. ASI No. 3200

15. Accessory marked 15, Toothbrush Holder
One of the following:
 - a. ASI No.
 - b. Bradley No.
 - c. Bobrick No. B7679

16. Accessory marked 16, Recessed Soap Dish: **(Not Used)**
 - a. Bobrick No. B4390

17. Accessory marked 17, Towel Dispenser: Locate as directed by owner next to sinks.
One of the following:
 - a. Bradley, No. 252
 - b. Bobrick, No. B-2621
 - c. ASI, No. 215

18. Accessor marked 18, Medicine Cabinet.
 - a. Bobrick, No. 398

19. Accessory marked 19, Robe Hook
One of the following:
 - a. Bradley, Model
 - b. Bobrick, No. B7671
 - c. ASI, No. 1204

20. Accessory marked 20, Flip Down Shower Seat: **(Not Used)**
One of the following: Provide blocking in wall.
 - a. ASI No.
 - b. Bradley No.
 - c. Bobrick No. B5181

21. Accessory marked 21, Soap Dispenser: **(Surface mounted)**
One of the following:
 - a. Bobrick No. B-2111; with 2111-79 Sureflo Valve
 - b. ASI

22. Accessory marked 22, Circular Waste Chute:
One of the following:
 - a. Bradley No.
 - b. Bobrick No. B-529
 - c. ASI No.

B. Fastenings: Anchors and fastenings shall be manufacturer's standard unless otherwise shown on the drawings.

2.02 Fabrication: Omitted

PART 3.00 - EXECUTION

3.01 Inspection:

Contractor shall examine the areas and conditions under which the products of this section are to be installed; notify the Architect in writing of conditions detrimental to the installation of the products of this section and the completion of the work; do not proceed with the work until unsatisfactory conditions have been corrected.

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3.02 Installation:

Install accessories in the locations shown on the drawings and at the heights shown hereon and in accordance with the manufacturer's instructions contained in the product packaging.

3.03 Field Quality Control:

- A. Inspection: Materials and workmanship at all times will be subject to inspection by the Architect or his representative.
- B. Cleaning: Prior to final inspection, remove maskings and labels, clean all accessories as recommended by their manufacturer.

END OF SECTION

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