

INVITATION TO BID

Sealed bids will be received by the City of Foley at 407 East Laurel Avenue, Foley, Alabama 36535 **or** P.O. Box 1750, Foley, Alabama 36536 until 10:00 a.m. CST on Tuesday, February 19, 2019 and then publicly opened and read in the Council Chambers for:

JUSTICE CENTER RENOVATION PROJECT ENGR-021919

Scope of work consists of the construction of additional office space in the Municipal Courtroom and staff office area of the Justice Center Building located at 200 E. Section Avenue, Foley, AL 36535. Contractors bidding this project must have a current State of Alabama General Contractors License with the proper major classifications per Section 230-X-1.27 of the State of Alabama Licensing Board for General Contractors.

A total of sixty (60) working days will be allowed for completion of work. Work can be performed Monday through Friday during the hours of 8:00 a.m. and 5:00 p.m.

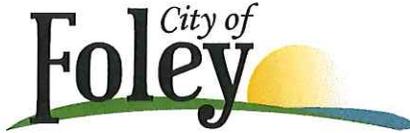
Drawings & specifications may be obtained at Foley City Hall, 407 East Laurel Avenue, Foley, Alabama, 36535 for a non-refundable fee of \$25. For more information, call (251) 943-1545.

A mandatory pre-bid meeting will be held in the Council Chambers at Foley City Hall at 10:00 a.m. CST on Tuesday, February 12, 2019. Contractors who are not in attendance will not be allowed to bid on this project. In the pre-bid meeting, the City will review the scope of work and the desired result.

To be eligible for consideration, bids must be submitted on complete original proposal forms found in the Invitation to Bid package. **The complete bid packet must be submitted in a sealed envelope, clearly marked, identifying the current State of Alabama General Contractor's license number, the Contractor's name and address, the bid name, and the date of the bid opening.** Envelopes not displaying the Contractor's license number will not be opened. It shall be the sole responsibility of the bidder to assure receipt of the bid at Foley City Hall prior to the published time for the bid opening.

The City of Foley reserves the right to accept or reject any or all bids and to waive technical errors if, in the City's judgment, the best interests of the City will thereby be promoted.

Rachel Keith
Purchasing Agent
City of Foley, Alabama



BID FORM

CITY OF FOLEY, ALABAMA
OFFICE OF PURCHASING AGENT

BID REQUISITION NO: **ENGR-021919**
BIDS TO BE OPENED AT: **10:00 A.M.**
DATE: **TUESDAY, FEBRUARY 19, 2019**

Sealed bids will be received by the City of Foley, Alabama, at its office in Foley until the above date and time, and then opened as soon thereafter as practicable.

Rachel Keith
Purchasing Agent

SPECIFICATIONS: SEE ATTACHED

If you are unable to furnish an item as specified and desire to offer a substitute, give full description of the item. No errors will be corrected after bids are opened. Substitutions will be treated as "approved equivalent or equal" which is discussed in paragraph 1.05 of the bid documents *GENERAL CONDITIONS*. Please refer to Paragraph 1.05 of the General Conditions prior to offering any substitutions. No prices shall include State or Federal Excise Tax. Tax exemption certificates furnished upon request. City reserves the right to accept or reject all bids or any portion thereof.

We are in a position to complete this project per the attached quote within _____ days after receipt of notice to proceed. Any attachment hereto is made and becomes a part of this inquiry and must be signed by Bidder.

I hereby affirm I have not been in any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid at fixed price or to refrain from bidding, or otherwise. I am not currently engaged in, nor will engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

THIS BID MUST BE NOTARIZED

Sworn to and subscribed before me
this the _____ day of
_____, 2019.

FIRM: _____

BY: _____
Signature accepted in ink only

STREET ADDRESS: _____

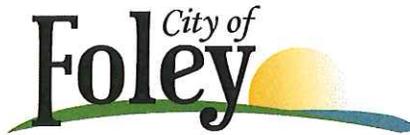
NOTARY PUBLIC

CITY: _____ STATE: _____

BIDS MADE OUT IN PENCIL WILL NOT BE ACCEPTED.

TERMS: _____
OR CASH PAYMENT WITHOUT REGARD TO DATE OF REMITTANCE

ALL BIDDERS MUST USE OUR BID FORM(S). LICENSE NUMBER, NAME AND ADDRESS, BID NAME, OPENING DATE AND TIME MUST BE PRINTED ON THE OUTSIDE OF THE SEALED ENVELOPE. EACH BID MUST BE IN SEPARATE ENVELOPES.



JUSTICE CENTER RENOVATION PROJECT

The City of Foley is soliciting proposals for the construction of additional office space in the Municipal Courtroom and staff office area of the Justice Center Building located at 200 E. Section Avenue, Foley, AL 36535. A building permit will be required for this project. Upon receipt of bids, it will be the decision of the Foley City Council to award or not award the bid.

General Requirements

All public works bidders must file with their bids either a cashier's check drawn on an Alabama bank or a bid bond executed by a surety company duly authorized and qualified to make bonds in the State of Alabama and made payable to the City of Foley in the amount of five (5%) percent of the Contractor's bid but in no event more than \$10,000.

All Contractors bidding in amounts exceeding that established by the State Licensing Board for General Contractors must be licensed under the provisions of Title 34, Chapter 8, Code of Alabama, 1975, shall have a current State of Alabama General Contractors License and must provide evidence by including a copy of his or her current license in the sealed envelope in which the proposal is delivered. Furthermore, any Contractor that desires to bid as prime Contractor must have at least one of the following major classifications of license per Section 230-X-.27 of the State of Alabama Licensing Board for General Contractors Administrative Code:

- a) Building Construction
- b) Building Construction Under Four Stories

If awarded the bid, prior to issuance of a Notice to Proceed, the following items shall be required:

- a) A current City of Foley Business License,
- b) A Certificate of Insurance showing proof of General Liability Insurance, Workers Compensation Insurance, and Automobile General Liability Insurance. Insurance Certificate provided to the City shall list the City of Foley as an additional insured.
- c) A performance bond and Payment Bond must be executed upon award of the bid with a penalty equal to one hundred (100%) percent of the amount of the contract price.
- d) If the successful bidder's award amount is \$50,000.00 or greater, a background check will be performed per City of Foley Ordinance No. 1029-08, General Conditions, Section 1.14.

Specifications

Project specifications can be found after page 10 of this bid packet.

Contract Period

The work shall be commenced within ten (10) days of the date specified in a Notice to Proceed to be issued to the Contractor by the Owner, or its authorized representative, and shall be completed within sixty (60) working days from and after the commencement date stipulated in said work order. Work days shall be Monday through Friday between the hours of 8:00 a.m. and 5:00 p.m.

It is mutually agreed between the parties hereto that time is of the essence in regards to this Contract, and in the event the construction of the Work is not completed within the time herein specified, it is agreed that from the compensation otherwise to be paid to the Contractor, the first party may retain the sum of **Three Hundred Dollars (\$300.00)** for each day thereafter, Saturdays, Sundays and holidays excluded, that the work remains uncompleted, which sum shall represent the actual damages which the Owner will have sustained per day by failure of the Contractor to complete the work within the time stipulated, and this sum is not a penalty, being the stipulated damages the first party will have sustained in the event of such default by the second party.

If a working day is lost due to inclement weather or other unforeseen event, the contractor is encouraged to submit this information at the end of each working week to the Engineering Department. These days will be taken into consideration relating to the required completion period. In the event that the contract working days are exceeded without proper notification of lost days due to inclement weather or other unforeseen event, the City may choose to enforce liquidated damages.

Upon Contractor's completion of pay items, a joint, final site inspection will be conducted between the Contractor and the Engineering Department. Any discrepancies will be addressed and resolved prior to issuing final payment.

Additional Information

The Affidavit of Alabama Immigration Compliance found in this bid packet shall be completed and submitted with bid. Proof of E-Verify documentation in the form of a copy of the signed Memorandum Of Understanding (MOU) generated upon completion of the E-Verify program should also be submitted.

All questions related to this bid must be documented through email and should be sent to Rachel Keith at rkeith@cityoffoley.org no later than 72 hours prior to the scheduled bid opening. No questions will be addressed by any means other than email. Answers will be emailed to all bidders in the event that clarification is required. If further clarification is needed about a particular product bid or change within the bid, an Addendum will be emailed stating the change. All addendums must be acknowledged in the "Addendum Acknowledgment" section located on page 7 of this bid packet.

Bid packets may be sent or hand delivered to the City of Foley, 407 East Laurel Avenue, Foley, Alabama 36535 **or** mailed to P.O. Box 1750, Foley, Alabama 36536

Section 39-3-5, Code of Alabama, requires that preference be given to Alabama resident contractors when awarding certain public works contracts to the same extent as required by the laws of a non-resident bidder's home state: "In awarding the Contract, preference will be given to Alabama resident contractors and a nonresident bidder domiciled in a state having laws granting preference to local contractors shall be awarded the Contract only on the same basis as the nonresident bidder's state awards contracts to Alabama contractors bidding under similar circumstances."

It will be the Contractor's responsibility to schedule all required inspections with the City's Engineering Department by contacting (251) 970-1104.

Instructions to Bidders

To be eligible for consideration, bid must be submitted on complete original forms found in the Invitation to Bid package. **The entire bid packet and all executed bid forms must be submitted in a sealed envelope, clearly marked, identifying the bid and the date of the bid opening.** It shall be the sole responsibility of the bidder to assure receipt of the bid at the Foley City Hall prior to the published time for the bid opening.

Bids should be sent to one of the following addresses:

U.S. Postal Service

City of Foley
Attn: Purchasing Agent
P.O. Box 1750
Foley, AL 36535

Physical Address

City of Foley
Attn: Purchasing Agent
407 E. Laurel Avenue
Foley, AL 36536



JUSTICE CENTER RENOVATION PROJECT

Bid Requisition No. ENGR-021919

The following price shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work called for. Bidder understands that the Owner reserves the right to reject any and all bids. The Bidder understands that he must submit this document with the bid. (Note: If an error is found in the estimated cost, the unit cost will prevail.)

Project	LUMP SUM CONSTRUCTION COST
Justice Center Renovation	

Company Name: _____

Alabama State General Contractors License No.: _____

Address: _____

Company Representative: _____

Title: _____

Signature: _____

ADDENDUM ACKNOWLEDGEMENT:

Bidder acknowledges receipt of the following addendums and has incorporated the requirements of such addendums into the bid.

(List all addendums issued for this bid.)

No.	Date

No.	Date

No.	Date

AFFIDAVIT OF ALABAMA IMMIGRATION COMPLIANCE

The signed Affidavit must be notarized.

In compliance with Sections 31-13-9 of the Alabama Code, this Affidavit of Alabama Immigration Compliance must be completed and signed by an officer or the owner of a business entity or employer and notarized. Please complete Part I if you do NOT employ one or more employees or Part II if you DO employ one or more employees.

Company Name	
Company Representative	<i>(Please Print Name)</i>
Address	
City, State, & Zip Code	

PART I – (Complete if you do NOT employ one or more employees and notarize below.)

I certify in my capacity as _____ for the above noted business entity that said entity does not employ one or more employees. I further certify that should my status change and I am required to comply, I will submit all required documents to the City of Foley. I have read this Affidavit and swear and affirm that it is true and correct.

Signature of Affiant

PART II – (Complete if you DO employ one or more employees and notarize below.)

As a condition of the above-referenced Entity/Company’s receipt of any contract, grant, or incentive from, by or with the City of Foley, Alabama, the undersigned, as such officer, agent or representative of said Company, after being first duly sworn, states as follows:

1. That said Company will not knowingly employ, hire for employment, or continue to employ an unauthorized alien.
2. That said Company has enrolled in, is currently participating in, and will continue to participate in the “E-Verify” program run by the United States Citizenship and Immigration Service Bureau of the United States Department of Homeland Security for the entire term of said Company’s performance under any contract, grant, or incentive it has with the City of Foley, Alabama.
3. The undersigned further represents that, should said entity/company employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to the contract with the City of Foley, it will secure from such subcontractor(s) verification of compliance with Section 31-13-9 of the Code of Alabama 1975, in a form substantially similar to this affidavit.

Entity’s E-Verify Employment Eligibility Verification User Identification Number is: _____

I have read this Affidavit and swear and affirm that it is true and correct.

Signature of Affiant

NOTARY SECTION

State of _____ :
County of _____ :

Sworn to and subscribed before me this _____ day of _____, 20____. I certify that the affiant is known (or made known) to me to be the identical party he or she claims to be.

Signature and Seal of Notary Public
My Commission Expires: _____

Please execute, have notarized, and return to the **City of Foley, P.O. Box 1750, Foley, AL 36536.**



To insure acceptance, all bidders submitting bids to the City of Foley shall be governed by the following conditions, attached specifications, and bid form(s) unless otherwise specified. Bids **not** submitted on the bid form(s) provided may be rejected, and bids **not** complying with these conditions will be subject to rejection.

1.0 Intent of Specifications:

It is the intent of the specifications attached hereto to set forth and describe certain item(s) or service(s) to be purchased by the City of Foley including all materials, equipment, machinery, tools, apparatus, and means of transportation (meaning freight costs) necessary to provide these items or services.

1.01 Legal Requirements:

All applicable provisions of Federal, State, County and local laws including all ordinances, rules and regulations shall govern the development, submittal and evaluation of all bids received in response to these specifications, and shall govern any and all claims between person(s) submitting a bid response hereto and the City of Foley, by and through its officers, employees and authorized representatives. A lack of knowledge by the bidder concerning any of the aforementioned shall not constitute a cognizable defense against the legal effect thereof.

1.02 Sealed Bids:

The specifications and all executed bid forms must be submitted in a sealed envelope. All proposals must be signed by an authorized representative of the bidder. In the event more than one bid opening is scheduled for the same date and time, do not include bids concerning different sets of specifications within the same envelope. **The face of the envelope shall be plainly marked identifying the Contractor's license number and opening date and time.** It shall be the sole responsibility of the bidder to assure receipt of bid at the Purchasing Office prior to the published time for the bid opening. No bid will be opened that is received after closing time for receipt of bids, nor will any offers by telephone, fax, or any electronic means be accepted.

1.03 Exceptions to Specifications:

During the drafting of written specifications, a sincere effort is made to describe products and services best suited to the needs of the City; however, in order that fair consideration is given in evaluating bids, all exceptions to or deviations from the specifications as written must be noted and fully explained. The Mayor and City Council are the final authority in determining the acceptability of any exceptions to specifications.

1.04 Discounts:

Terms offering a discount for prompt payment will be considered in determining the low bid. The discount period shall begin whenever (1) the conditions of the specifications have been fully met and the product or service judged acceptable to the City of Foley or (2) a correct invoice and other required documents have been received, whichever is later. Discounts offered for a period of less than thirty (30) days will not be considered in determining the low bid.

1.05 Approved Equivalent or Equals:

Any manufacturer's names, trade names, brand names, model numbers, etc. listed in the specifications are for information only and not intended to limit competition. The bidder may offer any brand for which he is an authorized representative that meets or exceeds the specifications as written. If the bid is based on an "approved equivalent or equal" item, supportive information in the form of manufacturer's printed literature or brochures, sketches, diagrams and/or complete specifications must accompany the bid. The bidder must explain in detail the reasons why the proposed equivalent or equal will meet

specifications and not be considered an exception thereto. The City of Foley reserves the right to determine acceptance of proposed equivalent or equal item.

1.06 Bid Withdrawals:

Bids may be withdrawn by written request received from bidders prior to the time fixed for opening but no bid may be withdrawn after closing time for receipt of bids for a period of sixty (60) days. Negligence on the part of the bidder in preparing the bid confers no right for the withdrawal of the bid after it has been opened.

1.07 Rejection of Bids:

The City of Foley reserves the right to accept or reject any or all bids, to award bids on a split-order basis, to waive any minor bid irregularities, technicalities, or informalities, and to re-advertise for bids when deemed in the best interest of the City of Foley.

If there is any reason for believing that collusion exists among the bidders, any or all proposals may be rejected, and those participating in such collusion may be barred from submitting bids on the same or other work with the City of Foley.

1.08 Delivery:

Bid quotations shall include all freight cost to Foley, Alabama to point(s) specified herein or specified at the time the purchase order is placed. No title to the item(s) ordered nor any risk of loss shall be passed to the City of Foley until after receipt of delivery has been acknowledged by an authorized representative of the City of Foley.

1.09 Taxes:

The City of Foley, a Municipal Corporation, is a tax exempt entity per Section 40-23-4(11), Code of Alabama 1975. The City of Foley is exempt from all state and local sales taxes. This should **not** be construed to mean that Contractors or suppliers doing business with the City of Foley are exempt from paying tax (General Conditions, Section 1.11 Permits and Taxes).

1.10 Licenses, Registration and Certificates:

A City of Foley Business License must be obtained within ten days of bid award. Each bidder must provide proof of State required competency certifications whenever applicable to engage in the business of contracting (or special contracting if the work to be performed necessitates a particular type of specialty Contractor) in the City of Foley.

1.11 Permits and Taxes:

The Contractor shall procure all permits, pay all charges, fees and taxes and give all notices necessary and incidental to the due and lawful prosecution of the work.

1.12 Compliance with Federally Funded Programs:

The successful bidder shall assure the City of compliance with any and all special provisions (if applicable) contained in the contract being bid. These provisions may include but are not limited to maintaining a Drug-Free Workplace, compliance with Clean Air and Water Laws and Regulations, and compliance with Equal Opportunity and Non-Segregated Facilities guidelines.

1.13 Proof of Liability & Worker's Comp Insurance:

If applicable, Proof of Liability and Worker's Comp Insurance must be included in the bid packet. If a company is not covered by Worker's Comp Insurance, labor and material charges should be separated on the bid/proposal. This should be done in order for the City to determine the Worker's Comp rate (in accordance with the City's current Worker's Comp fee schedule) that will be deducted from payment to the company performing the work.

1.14 Background Check:

The bid award of "Public Works" projects over \$50,000 will be contingent upon the results of a background check of the successful low bidder as stated in Ordinance No. 1029-08. According to this ordinance, the City of Foley will take criminal histories into account when deciding whether a low bidder is qualified to do work for the City.

1.15 Disqualification:

The City can disqualify a company based upon the results of a background check or if the company has been prohibited from contracting with another government agency as stated in Ordinance No. 1029-08.

If, in the opinion of The City of Foley, a sealed bid contains false or misleading statements or references that do not support a function, attribute, capability, or condition as contended by Company, the sealed bid may be disqualified from further consideration.

1.16 Expenses:

Expenses for developing sealed bids and addressing information requests herein are solely and entirely the responsibility of Company and shall not be chargeable in any manner to the City of Foley.

1.17 Alabama Immigration Law (Beason-Hammon Alabama Taxpayer and Citizen Protection Act):

Contractor must be in compliance with Alabama's Immigration Law, otherwise known as the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2011-535, Section 31-13-9, Code of Alabama 1975. If the bidder employs persons in the State of Alabama, the bidder must provide documentation with this bid that they are enrolled in the E-Verify program. Additionally, the bidder should be advised that if they employ persons (anywhere), award of the contract is conditioned on the bidder not knowingly employing, hiring for employment or continuing to employ an unauthorized alien within the State of Alabama. Any awarded contract will contain a provision whereby the bidder promises not to violate federal immigration law.

Any subcontractor who works with the general contractor who has been awarded contracts by the City must be enrolled in E-Verify. It is the responsibility of the general contractor to have a system in place to ensure subcontractors' compliance.

Proof of E-Verify documentation will be in the form of a copy of the signed Memorandum Of Understanding (MOU) generated upon completion of the E-Verify program.

1.18 Local Bid Preference:

The City of Foley has accepted the local bid preference guidelines established in Act 2015-293 and allows these guidelines to be utilized when appropriate, on a case by case basis. The local preference area has been established per Resolution 15-2369-RES and is defined as the area within the police jurisdiction of the City of Foley. Bid awards may be made to local vendors in this area if their submission is within 5% of a lower bid submitted by a vendor outside of this area and a 10% preference is extended if the lower bidder is located outside the state.

"The City of Foley encourages all vendors to list job openings with Job Services of Alabama."

Specifications
for
Courtroom & Office Renovations

at
Foley Justice Center
201 East Section Avenue
Foley, Alabama

JANURARY 11, 2019

Dudley L. Flotte, Architect, CSI, CCS

8278 River Road North

Foley, AL 36535

(251) 968-6700

architect@gulftel.com

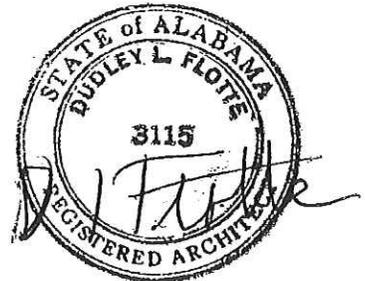


TABLE OF CONTENTS

Section	BID AND CONTRACT REQUIREMENTS	Page #
00700	General Conditions	3
00800	Special Provisions	3
	DIVISION 1 - GENERAL REQUIREMENTS	
01010	Summary of Work	4
01015	Miscellaneous Requirements	7
01400	Quality Control and Testing	11
01600	Materials and Equipment	14
01630	Product Options & Substitutions	17
	DIVISION 2 - SITE CONSTRUCTION - None	
	DIVISION 3 - CONCRETE - None	
	DIVISION 4 - MASONRY - None	
	DIVISION 5 - METALS - None	
	DIVISION 6 - WOOD AND PLASTIC	
06200	Finish Carpentry & Miscellaneous Work	19
	DIVISION 7 - THERMAL AND MOISTURE PROTECTION	
07213	Fiberglass Insulation	23
07920	Joint Sealants	25
	DIVISION 8 - DOORS AND WINDOWS	
08210	Doors & Frames	31
08411	Glazed Aluminum Curtain Walls	34
	DIVISION 9 - FINISHES	
09110	Metal Stud Framing	36
09255	Acoustical Gypsum Board	38
09510	Suspended Acoustical Ceiling	41
09910	Paints and Coatings	44-48
	DIVISION 10 - SPECIALTIES - None	
	DIVISION 11 - EQUIPMENT - None	
	DIVISION 12 - FURNISHINGS - None	
	DIVISION 13 - SPECIAL CONSTRUCTION None	
	DIVISION 14 - CONVEYING SYSTEMS - None	
	DIVISION 15 - MECHANICAL - See Drawings	
	DIVISION 16 - ELECTRICAL - See Drawings	
	DIVISION 17 - PLUMBING - None	

SECTION 00700 - GENERAL CONDITIONS

- 1.01 The "General Conditions" are included on Pages 7, 8 & 9 of the Bid Package.
- 1.04 In case of conflict between the "General Conditions" and the Special Conditions (below), the "General Conditions" shall prevail.

END OF SECTION

SECTION 00800 - SPECIAL PROVISIONS

- SP-1 **COMPLETION.** The Contract shall be substantially completed, including the repair of all damages to property resulting from the work of this Contract, within the number of calendar days established in the Contract from the start date indicated on the Owner's Notice to Proceed. Time is an essential condition of the Contract.
- SP-2 **CORRECTION OF WORK.** Each contractor shall re-execute any work that fails to conform to the requirements of the Contract and any defective work that appears during the progress of the work, and shall remedy any defects due to faulty materials or workmanship which appear within a period of one (1) year from the date of Substantial Completion of the Contract.
- SP-3 **INTENT OF DOCUMENTS.** It is understood that except as otherwise specifically stated in the Contract Documents, each contractor shall provide and pay for all materials, labor, tools, equipment, supplies, light, power, all means of construction, construction equipment, transportation, shipping, handling, superintendent, quality control, temporary construction of every nature, and all other services and facilities of every nature whatsoever, necessary to execute, complete and deliver the entire Project within the specified time, fully operational, complete, and code conforming.
- SP-4 **UNDERGROUND INSTALLATIONS.** Each contractor, shall be responsible for discovery of existing underground installations, in advance of their excavating or trenching, by contacting all local utilities, and by prospecting.
- SP-5 **DEFINITIONS**
- A. "As Directed" and "as instructed" refers to direction or instruction of the Architect. Similarly, "approved", "acceptable", and "satisfactory" refers to the Architect subject to the provisions of the Contract. The judgment of the Architect in such matters shall be final.
- B. "Provide", as used throughout the Contract Documents, including derivatives thereof, shall be interpreted to mean "furnish, fabricate, complete, transport, deliver, install, erect, construct, finish, and test, including all labor, materials, equipment, apparatus, appurtenances, supervision, quality control, handling, and expenses necessary to complete in place, ready for operation or use under the terms of these Contract Documents".
- C. "Include" as used herein, including derivative thereof, shall be interpreted to mean "included but not be limited to".
- D. "Or equal", "approved equal", "equivalent to", and "similar to" when used in reference to the kind, brand, type, or make of equipment or material specified herein, shall mean that any proposed substitution must be equal, equivalent, or similar in the sole judgment of the Architect unless otherwise stated, and the Architect's written approval of such proposed substitution must be obtained.
- SP-6 Each contractor is totally responsible for any lost time or extra expense incurred due to their fault or one their subcontractor's, a sub-subcontractor's, and/or Material Supplier's failure to perform. Failure to perform includes a subcontractor's financial failure, abandonment of the Project, or failure to do work up to standard.

Under no circumstances shall the Owner mitigate the contractor's losses or reimburse any contractor, nor material supplier, nor service provider, nor sub-contractor, for losses caused by these events.

END OF SECTION

Section 01010 - SUMMARY OF WORK

1.01 Summary of Work

A. This Contract covers the furnishing of all labor, materials, tools, equipment, supervision and services necessary to perform the work indicated by, or reasonably inferable from, the Contract Documents.

B. It is the intent of this Project Manual that the Work be sequenced and performed to provide minimal disruption to the existing operation. Work areas must be left in a condition that allows for normal operations during work hours, and materials cannot be left such that they hamper the use of the facility with the exception of the immediate area of work.

C. The intent and meaning of the Contract Documents require that each contractor, under the terms of the Contract, shall take such action as is necessary and/or required to provide labor, materials, equipment, transportation, facilities, plants and appurtenances thereto, which are indicated, or reasonably implied by the Plans, and each Section of the Specifications, all of which are collectively necessary and required for the execution of the Work.

E. All insurance certificates shall be given to and approved by the Owner, in writing, before any work is performed by any contractor or sub-contractor.

1.02 Permits and Regulations

A. Owner shall be solely responsible for obtaining the necessary construction permits from the proper authorities. Owner will file the requested number of sets with the Building Department. Owner will pay all permit fees, impact fees; and utility fees.

B. On site inspection fees for the City of Foley, if any, to be paid by Contractor.

C Each contractor is responsible for compliance with all federal, state and local regulations which affect implementation of the Project.

D. If any contractor observes that the Contract Documents are at variance with any laws, ordinances, rules and regulations applicable to the Work, he shall give the Owner written notice thereof. Any Work performed by each contractor which is contrary to such laws, ordinances, rules and regulations and without written notice to the Owners shall be either dismantled and rebuilt or modified, with approval of the Owner, to comply with said laws, ordinances, rules and regulations. Costs arising from such additional work shall be borne by the contractor as determined by the Owner.

E. Work shall comply with the International Code Council, Inc. 2015 "I-Codes" including Appendices.

1.03 Project Construction Requirements

A. General

1. The Contractor shall provide a construction waste container for his use, and the use of all contractors at the site, until the project is complete & shall remove all garbage at the end of each work day.

2. All materials and/or equipment held in storage shall be protected from weather, vandalism and/or flooding by suitable waterproof coverings or by placing them in storage buildings until ready for installation or until

equipment is to be turned over to the Owner.

1.04 Existing Conditions

A. Each contractor is advised that if they damage anything, inside or outside of the limits of construction, they shall be responsible to replace/restore the item(s) to their original condition. No additional compensation shall be provided for replacing damaged areas in kind.

1.05 Planned Sequence of Construction

A. Contractor shall be responsible for submitting a planned sequence of construction prior to beginning work which shall include starting dates for each type of construction in each of the two areas (Offices & Courtroom Meeting Rooms).

B. If, after award of the Construction Contract, any contractor initiates or causes a change in the recommended construction sequence, contractor must bear any additional costs which are occasioned by the change, whether his own costs or those incurred by other contractors. The Architect's approval of such schedule or subsequent modifications shall not relieve contractor from this responsibility.

C. Notwithstanding any of the foregoing responsibilities for coordination, the Owner's Project manager will resolve disagreements which cannot be settled between he the Contractor and the Owner's contractors. The Owner's or Project Manager's decisions will be based on the solution which best serves the interests of the Owner on this particular project. The Project Manager's decision is final and not subject to contractor claims for delay damages or time extensions.

1.07 Contractor's Use of Site

A. Each contractor shall coordinate all construction with the Owners Designated Representative. If a lay down area is needed so as to not conflict with other contractors on-site, the Owner will designate said area. Trailer, parking, material storage areas, etc. shall be limited to the area designated by the Owner, unless both the contractor and Owner agree to other arrangements in advance.

B. Each contractor shall:

1. Assume full responsibility for protection and safekeeping of products stored on or off the site.
2. Obtain and pay for all additional storage or work areas required for its operations.

C. Other construction projects may be occurring on and near the site. Each contractor shall coordinate his efforts with other contractors in the area to prevent conflicts between projects and resources.

1.08 Miscellaneous Items

A. Each contractor shall inform his subcontractors of the conditions of the Work, since each contractor shall be held responsible for the action of his subcontractors.

B. The exact location of each contractor's temporary facilities must be approved by the Owner.

C. Each contractor shall not enter any private property outside the Owner's property without written permission from the Owner of the property.

D. Each contractor's responsibility shall include compliance with all Federal, State and Local regulations which in any way affect the work or implementation of the project.

E. Contractor, sub-contractors and Material Suppliers shall not use Owner's Rest Rooms.

F. Loud noises shall be limited and, if unavoidable, warn the Owner in advance, if possible.

1.09 Items by Owner

A. The Owner may decide, by himself, to furnish flooring in one, or more, Rooms.

B. The Owner will move the Fire Alarm, and add sprinkler heads, as shown on the Floor Plan.

C. The Owner will NOT furnish any other materials nor items for this project unless a written separate

agreement is made and signed by both the Owner & the Contractor.

1.10 Specification Formats and Conventions

- A. Specification Format: The Specifications are organized into Divisions and Sections similar to the 16-division format and CSI/CSC's "Master Format" numbering system.
1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
 2. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Project Manual.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Language used in the Specifications and other Contract Documents is abbreviated.
 2. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires.
 3. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 4. Imperative mood and streamlined language are generally used in the Specifications.
 5. Requirements expressed in the imperative mood are to be performed by contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by contractor or by others when so noted.
 6. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (;) is used within a sentence or phrase.

1.11 Each contractor's duties:

- A. Except as specifically noted otherwise, provide and/or pay for:
1. Labor, materials, supplies, accessories, incidentals, transportation, handling, project management and other required services and equipment.
 2. Tools, construction equipment and machinery.
 3. Other facilities and services necessary for proper execution and completion of work.
 4. Insurance as required by the Contract Documents.
 5. Costs for overhead.
 6. Superintendent and supervision.
 7. Quality control.
 8. Other direct and indirect costs and expenses incidental to the performance of the Work.
 9. Secure and pay for, as necessary for proper execution and completion of Work, and as specified in this document:
 - a. Inspections, agency approvals;
 - b. Government and other fees not listed previously; &
 - c. Licenses to do business in the City of Foley & State of Alabama.
 10. Give required notices and obtain required inspections/reviews/approvals. Demonstrate performance of systems in the presence of the inspectors, such as but not limited to: exit signs, emergency lighting, and other similar systems.

11. Comply with codes, ordinances, rules, regulations, orders, standards and other legal requirements of public authorities that have jurisdiction over the Work.
12. Promptly submit written notice to the Architect of observed variances of Contract Documents from Legal and Code requirements.
13. Enforce strict discipline and good order among employees and subcontractors.
14. Employ only qualified, trained, experienced persons skilled in their assigned task.
15. Verify measurements at site and accept responsibility for accuracy of same.
16. Remove obstructions as necessary for proper completion of Work.
17. Maintain job site neat and safe. Protect all persons from any affects of this Work.
18. Jobsite safety, means, methods, scheduling and sequence of construction.
19. Maintain complete, current information at the site for proper execution of the Work.
20. Maintain one set of complete Record Documents at the site, whenever someone is working.
21. Clean regularly, with a Final Cleaning prior to the Final Inspection.

End of Section 01010

SECTION 01015 - MISCELLANEOUS REQUIREMENTS

1.0 GENERAL

1.01 DIVISIONS AND SECTIONS

- A. Separation of these specifications into Divisions and Sections is done for convenience only and is not intended to establish responsibilities of work or to establish divisions of work, nor shall it operate to make the Architect arbiter to establish limits to the Contracts between contractors, and between a Contractor and their Subcontractors or Material Suppliers.
- B. Contract Requirements and General Requirements: Each contractor, by execution of the subject documents, agrees to comply with all applicable contract conditions.

1.02 DEFINITIONS AND EXPLANATIONS

- A. Scope. This article defines certain terms used in the specifications (Project Manual) and drawings, and explains the language, abbreviations thereof, format & certain conventions used in the Specifications and associated Contract Documents.
- B. Limitations. The definitions & explanations of this article are not necessarily either complete or exclusive, but are general for the work to the extend such definitions or explanations are not stated more explicitly in another provision of the Contract Documents.

- C. General Explanation. A Substantial amount of the Contract Document Specification and drawing language constitutes specific definitions for terms found in the other Contract Documents, including the Drawings which must be recognized as diagrammatic in nature and not completely descriptive of the requirements indicated thereon. Certain terms used repetitiously in the contract documents are defined generally in this article.
- D. General Requirements. The provisions and requirements of Division 1 apply to the entire Work of the Contract.
- E. Project Site. The space available to a contractor for the performance of the Work, either exclusively or in conjunction with others performing other Work as part of the Project.
- F. Section Numbering. Sections are generally numbered in CSI 5 - Digit System. Contract Documents sections are placed in the Project Manual in numerical sequence; however, the numbering sequence is not complete, and the listing of sections in the Project Manual Table of Contents must be consulted to determine the numbers and names of Specification sections in the Contract Documents.
- G. Testing Laboratory. An independent entity engaged to perform specific inspections or tests of the work and to report and (if required) interpret the results of those inspections or tests.

1.03 NOT IN CONTRACT

- A. Items indicated in the Project Manual or on drawings as "NIC", noted "Not in Contract", or noted "By Owner" are shown for convenience only and are not a part of this Contract.

1.04 ACCEPTANCE

- A. Signing of the Contract will be deemed evidence that the site and the Contract Documents have been examined thoroughly & completely by the contractor and that the contractor is fully familiar with conditions under which the work will be done and has a complete understanding of the Contract Documents.
- B. Signing of the Contract will be deemed evidence that each contractor, and all subcontractors, that the contractor intends to use, have carefully and thoroughly reviewed the Project Manual, and drawings, and other Contract Documents and have found them free from ambiguities and sufficient for the purpose intended; further that,
- C. Signing of the Contract will be deemed evidence that each contractor and all workmen, employees and subcontractors that each contractor intends to use are trained, skilled and experienced in the type of construction represented by the Contract Documents; further that,
- D. Signing of the Contract will be deemed evidence that neither the contractor nor any of the contractor's employees, agents, intended suppliers or subcontractors have relied upon any verbal representations, allegedly authorized or unauthorized from the Owner, or the Owner's employees or agents including the Architect, engineers or consultants, in assembling the price proposed; and further that
- E. Signing of the Contract will be deemed evidence that the base bid price figure, and any alternate price figures, and any unit price figures are based solely upon the Contract Documents and properly issued written addenda and not upon any other written representation.
- F. Each contractor shall verify measurements at site and accept responsibility for accuracy of same. The beginning of work indicates acceptance of conditions under which the work will be done.
- G. Extra payments will not be authorized for work that could have been determined by a careful examination of site conditions and coordination with the Contract Documents by each contractor.

1.05 MINIMUM QUALITY/QUANTITY

- A. In every instance, the quality level or quantity shown or specified is intended as the minimum for the work to be performed or provided.

1.06 SPECIALISTS; ASSIGNMENTS

- A. In certain instances the specification text requires (or at least implies) that specific work be assigned to certain specialists or expert entities, who must be engaged for the performance of those units of work.

1.07 FACILITATING OVERHEAD UTILITIES

- A. Each contractor shall examine the site in detail for conformance with other requirements of these specifications. All visible obstructions and site features are not shown on the drawings but are to be noted by the contractor prior to submission of a proposal. Each contractor accepts responsibility for execution of their Contract duties by submission of his proposal.
- B. The responsibility of each contractor including facilitating obstructions and site features throughout the completion of the project and assuming all costs for protecting, temporarily relocating, permanently relocating, or using special construction methods to complete the Work as indicated.

1.08 INTERFERENCE

- A. Drawings are generally diagrammatic. Each contractor shall organize and coordinate his work with that of the other contractors, or different trades, so that interference of different equipment, piping, etc., shall be avoided and each piece of equipment, piping, etc., is installed to function properly.
- B. In the case where an interference develops, the Architect is to be consulted to determine which equipment, piping, etc., is to be relocated regardless of which item was first installed.
- C. Do not cut, or separate structural members, finishes, pipes, etc., without the knowledge of the Architect.

1.09 PERMITS AND APPROVALS BY AUTHORITIES HAVING JURISDICTION

- A. Each sub-contractor, of the General Contractor, shall obtain all permits, licenses, approvals and inspections required for various trades to properly and legally complete their Work, including all fees therefore for their work.

1.10 TEMPORARY SANITARY FACILITIES

- A. Contractor shall furnish, install, and maintain temporary sanitary facilities (toilet accommodations) at the site, as required herein, for the needs of all construction workers and others performing work or furnishing services on the Project throughout the construction period.

1.11 TEMPORARY FIRE PROTECTION

- A. Provide general temporary fire protection during construction period.
- B. Handle all flammable and combustible materials with caution and in strict accordance with the manufacturer's written instructions.

1.12 JOBSITE MAINTENANCE

- A. Keep areas within and about working and storing spaces free from waste materials, trash, debris, garbage, etc. All solid waste, trash, garbage, and debris shall be removed from the site at the end of each work day, or stored in a temporary shed.
- B. Throughout the construction period, dirt and dust accumulated in the working area, storage areas, and access roadway areas shall be kept to an absolute minimum.

- C. Do not run wheeled equipment, nor run vehicles, nor drag or push materials or equipment over moist soil if such procedures create ruts or "mixes" water into the soil.

1.13 PERSONNEL AND EQUIPMENT

- A. Maintain a construction force at site, including competent, trained, experienced, qualified superintendent, mechanics, craftsmen and laborers, sufficient to expedite work to completion on date indicated in Contract Documents.
- B. Maintain construction equipment and means of construction at site, in good condition, sufficient for efficient and safe execution of the work.
- C. All communications given to the Superintendent, or his assistant in his absence, shall be as binding as if given to a principal of each contractor.
- D. At all times, all personnel associated with this Project shall conduct themselves appropriately and in a manner fitting to the workplace and as acceptable to the Owner.

1.14 OBSTRUCTION TO CONSTRUCTION

- A. Each contractor shall anticipate and remove all subsurface as well as above surface obstructions to construction of his work.

1.15 PROTECTION OF EXISTING STRUCTURES AND CONSTRUCTION

- A. Each contractor shall avoid damage to existing structures, finished materials, pavements, buildings and utilities. Each contractor is completely responsible for thorough protection of existing buildings, structures, site work and all construction adjacent to or in any location within an area receiving effects from the Work. Any damage or affects must be immediately repaired with all new materials to restore existing items to a condition equal to or better than the condition present prior to commencing the Work
- B. Each contractor shall be responsible for all damage to the exterior and interior of the building, and any other public or private property, regardless of location or character, which may be caused by transporting equipment, materials or men to or from the Work or any part of site thereof, whether by him or his subcontractors. Responsible Contractor shall make satisfactory and acceptable arrangements with the Owner of, or the agency or authority having jurisdiction over the damaged property, concerning its repair or replacement or payment of costs incurred in connection with the damage.

1.16 SAFETY EQUIPMENT

- A. Provide personal safety equipment for authorized visitors as well as workmen and the Owner's Employees. Cover trenches and holes when not in use. Carefully guard trenches and holes while they are in use.

1.17 SAFETY SIGNS

- A. Install signs and safety flagging as necessary for safety and as necessary to meet insurance requirements. All types of "caution" and "warning" signs shall be provided and maintained as required to maintain a safe work site. Colors shall meet test specified in Section 3 - Color Definitions, ANSI Z 53.1, "Safety Color Code for Working Physical Hazards".
- B. Install safety cones and other traffic safety devices as required to maintain a safe work area.

1.18 SCAFFOLDING AND HOISTING

- A. Provide construction aids and equipment required by personnel and to facilitate execution of the work. Erect and maintain scaffolds, staging, runways, platforms, railings, ramps, stairs, ladders, hoists, cranes, chutes, and other such equipment necessary for reaching all portions of work conveniently and safely. Install guard rails required. Install, maintain and operate equipment in a manner that will prevent injury or damage. Meet applicable safety requirements.

1.20 SERVICE CHARGES

- A. Include all service charges that may be applicable for execution and completion of the Work.

2.0 PRODUCTS - NOT USED

3.0 EXECUTION - NOT USED

END OF SECTION

SECTION 01400 - QUALITY CONTROL AND TESTING

1.0 GENERAL

1.1 QUALITY CONTROL, GENERAL

- A. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship on this Project.
- B. Work shall be performed only by persons qualified by equivalent applicable union standards to produce workmanship of the specified quality.
- C. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, operating forces and racking.
- D. Comply with manufacturer's written instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, notify and request clarification from Architect before proceeding.

1.2 SITE INVESTIGATION AND CONTROL

- A. Each contractor shall verify all dimensions in the field and shall check field conditions continuously during construction. Each contractor shall be solely responsible for any inaccuracies built into their Work due to their failure to comply with this requirement.
- B. Each contractor shall inspect related, adjacent, and appurtenant Work and shall report in writing to the Architect any conditions which will prevent proper completion of the Work. Failure to report any such conditions shall constitute acceptance of all site conditions, and any required removal, repair or replacement caused by unsuitable conditions shall be performed by each contractor at its sole cost and expense.

1.3 INSPECTION OF THE WORK

- A. The Work shall be conducted under the general periodic observation of the Architect, as stated in his Contract with the Owner, and shall be subject to inspection by testing laboratories acting on behalf of the Owner to insure strict compliance with the requirements of the Contract Documents. Such inspection may include mill, plant, shop or field inspection, as required. The Architect and testing laboratories shall be permitted access to all parts of the Work, including plants where materials or equipment are manufactured or fabricated. Each contractor shall provide the

Architect and the Owner a safe means of access and egress from all work areas during the entire contract period, including such areas as the roof.

B. The presence of the Architect or any inspection(s), however, shall not relieve each contractor of the responsibility for the proper execution of the work in accordance with all requirements of the Contract Documents. Compliance is a duty of each contractor, and said duty shall not be avoided by any act or omission on the part of the Architect or any testing laboratory inspector(s).

1.4 TIME OF INSPECTIONS AND TESTS

A. Samples and test specimens required under these Specifications shall be furnished and prepared for testing in ample time for the completion of the necessary tests, analyses and reporting of results before said articles or materials are to be used. Each contractor shall furnish and prepare all required test specimens at their own expense. Except as otherwise provided in the Contract Documents, performance of the required tests will be by the Owner, and all costs thereof will be borne by the Owner at no extra cost to the contractor; except, that the costs of any test which show unsatisfactory results shall be borne by the respective contractor.

B. Whenever a contractor is ready to hide or otherwise cover any Work under the Contract, the Architect shall be notified after the Work is in place and not less than 24 hours in advance before beginning any covering of such Work. Failure of the contractor to notify the Architect at least 24 hours in advance of covering any such work shall be reasonable cause for the Architect to order a sufficient delay in the contractor's schedule to allow time for Architect to see such Work and any remedial or corrective Work required, and all costs of such delays, including its effect upon the progress of the Work or other portions of the Work, shall be borne by the contractor causing the condition. Payment for items which are built without proper notice to the Architect, may be delayed by the Architect until satisfactory evidence of compliance is attained.

1.05 SAMPLING AND TESTING

A. When not otherwise specified, all sampling and testing shall be in accordance with methods prescribed in the current standards of the ASTM or related standard entity, as applicable to the class and nature of the article or materials considered; however, the Owner reserves the right to use any generally-accepted system of inspection which, in the opinion of the Architect, will insure the Owner that the quality of the workmanship is in full accordance with the Contract Documents.

B. Any waiver of any specific testing or other quality assurance measures, whether or not such waiver is accompanied by a guarantee of substantial performance as a relief from the specified testing or other quality assurance requirements as originally specified, and whether or not such guarantee is accompanied by a performance bond to assure execution of any necessary corrective or remedial Work, shall not be construed as a waiver of any technical or qualitative requirements of the Contract Documents.

C. Notwithstanding the existence of such waiver, the Architect shall reserve the right to make independent investigations and tests as specified in this section and, upon failure of any portion of the Work to meet any of the quantitative or qualitative requirements of the Contract Documents, shall be reasonable cause for the Architect to require the removal or correction and reconstruction of any such Work.

D. In addition to any other inspection or quality assurance provisions that may be specified, the Owner shall have the right to independently select, test and analyze, at the expense of the Owner, additional test specimens of any or all of the materials to be used. Results of such tests and analyses shall be considered along with the tests and analyses made by any contractor to determine compliance with the applicable specifications for materials so tested or analyzed; provided that wherever any portion of the Work is discovered, as a result of such independent inspection and investigation, and all costs of removal, correction and reconstruction, or repair of any such Work shall be borne by the respective contractor.

1.6 RIGHT OF REJECTION

A. The Architect, acting for the Owner, shall have the right, at all times and places, to reject any articles or materials to be furnished herein which, in any respect, fail to meet the requirements of the Contract Documents, regardless of whether the defects in such articles or materials are detected at the point of manufacture or after completion of the Work at the site. If the Architect or inspector, through an oversight or otherwise, has accepted materials or Work

which is defective or which is contrary to the Contract Documents such material, no matter in what stage or condition of manufacture, delivery or erection, may be rejected by the Architect or the Owner.

- B. The respective contractor shall promptly remove rejected articles or material from the site of the Work after notification of rejection.
- C. All costs of removal and replacement of rejected articles or materials from the site of the Work after notification of rejection shall be borne by the respective contractor.

1.07 TESTING LABORATORY SERVICES

- A. The Owner will select and pay for the services of an independent testing laboratory to perform specified testing, quality control & services at his discretion.
- B. Each contractor shall cooperate with the laboratory in the execution of its services.
- C. Employment of the laboratory shall in no way relieve contractor's obligations to perform the Work of the Contract.
- D. Related Requirements
 - 1. Inspections & testing required by laws, ordinances, rules, regulations, standards or approvals of public authorities.
 - 2. Certification of Products indicated in respective Specification Sections.
 - 3. Test, adjust and balance of equipment indicated in respective Specification Sections.
 - 4. Laboratory test required, and standards for testing; each Specification Section listed.
- E. Tests and inspections shall be conducted in accordance with the requirements of these specifications or, if not herein specified, in accordance with the latest standards of ASTM or other recognized authorities.
- F. Laboratory Duties
 - 1. Cooperate with Architect and contractor; provide qualified personnel.
 - 2. Perform specified inspections, sampling and testing of materials and methods of construction and reporting of results:
 - a. Comply with specified standards.
 - b. Ascertain compliance of materials with requirements of Contract Documents.
 - c. Tests and inspections shall be conducted in accordance with specified requirements and if not specified, in accordance with applicable standards of American Society of Testing and Materials and other recognized authorities as applicable.
 - 3. Promptly notify Architect and Contractor of observed irregularities or deficiencies of work or products.
 - 4. Immediately notify Architect if rain is observed during any concrete pour or installation of any roofing materials.
 - 5. Promptly submit written reports of each test and inspection; one copy each to Owner and Architect. Each report shall contain:
 - a. Date issued, Project title and number.
 - b. Testing Laboratory name, address, telephone number and fax number.
 - c. Name and signature of laboratory inspector.
 - d. Date and time of sampling or inspection.
 - e. Record of temperature and weather conditions.
 - f. Date of test.
 - g. Identification of product and specification section.
 - h. Location of sampling or test on the Project.
 - i. Type of test or inspection.
 - j. Results of tests and compliance/non-compliance with Contract Documents.
 - k. Interpretation of test results, when requested by Architect.
 - 5. As applicable to the Project, testing laboratory inspecting, sampling, and testing may be required for but not limited to Soils & Portland Cement concrete.
 - 6. Perform any additional tests as required by the Architect or Owner.

G. Limitations of Authority of Testing Laboratory

1. Laboratory is not authorized to:
 - a. Release, revoke, alter, or enlarge any Contract Document requirements.
 - b. Approve or accept any portion of the Work.
 - c. Perform any duties of the contractor.

H. Each contractor's Responsibilities

1. Cooperate with laboratory personnel, provide access to Work, and to Manufacturer's operations and make available, without cost, adequate representational samples of all materials to be tested to meet applicable standard specifications.
2. Provide to the laboratory and to the Architect the preliminary design mix proposed to be used for concrete and other materials and mixes which require control by the testing laboratory.
3. Furnish the testing laboratory samples of all materials which are intended to be used and which require testing, without cost.
4. Furnish incidental labor and sheltered working space and other facilities:
 - a. To provide access to Work to be tested.
 - b. To obtain and handle samples at the Project Site or at the source of the product to be tested.
 - c. To facilitate inspections and tests.
 - d. For protection, storage and curing of test samples.
5. Costs of tests, samples and mock-ups of substitute and specified material, where the substitution is requested by any contractor and the tests are necessary in the opinion of the Architect to establish equality qualified with specified items, shall be borne by the respective contractor.
6. Notify laboratory and Owner's Representative sufficiently in advance of operations to allow for laboratory assignment of inspection personnel, scheduling of tests and completion of initial tests (48 hours minimum). When tests or inspections cannot be performed due to lack of notice, suspend work in the affected area until the tests can be performed.
7. Employ and pay for the services of a separate, equally qualified independent testing laboratory to perform additional inspections, sampling and testing required:
 - a. For the contractor's convenience.
 - b. When initial tests indicate Work does not comply with Contract Documents.
 - c. When required by laws, codes, ordinances, rules, regulations, orders or approvals of public authorities.

2.0 PRODUCTS - NOT USED

3.0 EXECUTION - AS REQUIRED BY THE TEST BEING PERFORMED

END OF SECTION

SECTION 01600 - MATERIAL AND EQUIPMENT

1.0 GENERAL

1.01 RELATED REQUIREMENTS

A Section 01010 - Summary of Work.

1.02 DESCRIPTION

A. Material and equipment incorporated into the Work or used in the production of the Project shall:

1. Conform to applicable specifications and standards.
2. Comply with size, make, type and quality specified or as specifically approved in writing by the Architect.

- B. **Manufactured and Fabricated Products:**
 1. Design, fabricate and assemble in accordance with the best engineering and shop practices.
 2. Manufacture like parts of duplicate units to standard sizes and gages, to be interchangeable.
 3. Two or more items of the same kind shall be identical, and by the same manufacturer.
 4. Products shall be suitable for service conditions.
 5. Equipment Capacities, sizes and dimensions shown or specified shall be adhered to unless variations are specifically approved in writing.
- C. Do not use material or equipment for any purpose other than that for which it is designed or is specified.
- D. Whenever an article, device or piece of equipment specified herein (or as indicated on the drawings) is referred to in the singular number, such reference shall apply to as many such articles as are indicated or required to complete the installation within the general intent of the Contract Documents.
- E. All materials and products shall be installed in accordance with the requirements of the Contract Documents.
- F. Each contractor shall be fully responsible for all materials and equipment which they have furnished, and shall furnish necessary replacements at any time prior to expiration of the correction period.
- G. Off-site storage arrangements shall be acceptable to Owner for all materials and equipment not incorporated into the work but included in Applications for Payment. Such off-site storage shall be presented in writing; shall afford adequate and satisfactory security, insurance (provide certificates) and protection; & shall be accessible to Architect & the Owner.
- H. All items mentioned in these Contract Documents shall be handled in conformance with this Section, instructions in the related Sections, and manufacturer's literature.

1.03 MANUFACTURER'S INSTRUCTIONS

- A. Obtain manufacturer's printed instructions for all material incorporated into the Project, and distribute copies of such instructions to parties involved in the installation, including one copy to Architect.
 1. Maintain one set of complete instructions at the job site during installation and until Project completion.
- B. Handle, install, connect, clean, condition and adjust products in strict accordance with such instructions and in conformity with specified requirements.
 1. Should job conditions or specified requirements conflict with manufacturer's instructions, consult with Architect for further instructions.
 2. Do not proceed with such Work without clear instructions.
- C. Perform all Work in accordance with manufacturer's written instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by Contract Documents.

1.04 TRANSPORTATION AND HANDLING

- A. Arrange deliveries of products in accordance with construction schedules & coordinate to avoid conflicts and delays.
- B. Deliver products in undamaged condition, in manufacturer's original containers or packaging with identifying labels intact and legible. Labels shall indicate manufacturer and product name, description, mixing and application instructions, limitations, cautions and warnings.
- C. Immediately upon delivery, inspect shipments to ensure proper material, color, type, quantities, and to assure compliance with the Contract Documents and approved submittals and that the products are properly protected and undamaged.
- D. Provide equipment and personnel to handle products by methods to prevent soiling or damage to the product or packaging.

1.05 STORAGE AND PROTECTION

- A. Store Products in accord with manufacturer's instructions, with seals and labels intact and legible.
 - 1. Store products subject to damage by the elements in weather tight enclosures or inside of the building.
 - 2. Maintain temperature and humidity within the ranges required by manufacturer's instructions.
- B. Exterior Storage.
 - 1. Store fabricated products above the ground, on blocking or skids, prevent soiling or staining.
 - 2. Cover products that are subject to deterioration with impervious sheet coverings, provide adequate ventilation to avoid condensation.
 - 3. Store loose granular materials in a well-drained area on solid surfaces to prevent mixing with foreign matter.
- C. Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that products are maintained under specified conditions, and free from damage or deterioration.

1.06 PROTECTION AFTER INSTALLATION

- A. Provide substantial coverings as necessary to protect installed products, equipment, and systems from damage from traffic and subsequent construction operations.
- B. Remove, and properly dispose of coverings when no longer needed.

1.07 SUBSTRATE CONDITIONS

- A. Each contractor shall be responsible for verifying and obtaining proper substrate conditions, tolerances and material alignments to receive applied or attached materials and construction.
- B. Substrates shall be sound, clean, dry and free of imperfections or conditions which would be detrimental to receipt of applied materials.
- C. Align materials to give smooth, uniform surface planes within specified tolerances and straight, level, square, true and plumb surfaces.
- D. Inspect substrates prior to installation of applied materials. Correct unacceptable conditions prior to proceeding with work.

1.08 FINISHED SURFACES

- A. Finished surfaces shall be clean, uniform and free of damages, dents, soiling or defects in material and finish.
- B. Finished surfaces shall match color and texture of existing, unless other directions are received from Owner, in writing.
- C. Protection:
 - 1. Protect finished surfaces from damage and soiling during application, drying or curing, as applicable.
 - 2. Provide temporary protective coverings or barriers required.

2.0 PRODUCTS - Not Used

3.0 EXECUTION - Not Used

END OF SECTION

SECTION 01630 - PRODUCT OPTIONS AND SUBSTITUTIONS

1.0 GENERAL

1.01 RELATED REQUIREMENTS

- A. DIVISION 0
- B. Section 00700 - General Conditions
- C. Section 00800 - Supplementary Conditions
- D. Section 01340 - Shop Drawings and Submittals

1.02 DESCRIPTION

- A. These Contract Documents include provisions for use of equivalent materials and equipment. Requests for review of equivalency shall be submitted in accordance with Section 00700 General Conditions, Section 00800 Supplementary Conditions, and as herein specified.
- B. Proposal (Bid) shall be based only on materials, system or equipment specified in the Contract Documents or which have been approved by the Architect. All equipment and materials specified or indicated on drawings by manufacturer's name, catalog or model number have been selected to establish a standard of quality and function. Products of other manufacturer may be submitted to the Architect for consideration. Substitution submittals must be in accordance with the requirements of approval specified in the Project Manual.
- C. It is understood and agreed that the proposal submitted is based on furnishing "Standards" as specified and as indicated on drawings and entitles the Architect/Owner to require that such materials and/or methods be incorporated in the Work, except as may be approved in writing by the Architect.
- D. Each contractor may offer substitutions for any item, unless noted otherwise. List the name of the substituted item, the manufacturer, model name/number, etc., and any other deviations in performance or appearance from the "Standards". Each contractor shall present to the Owner a written guarantee and certification that the substituted material/method meets the standards of the material specified.
- E. The name of a certain brand, make manufacturer, or definite specifications is to denote the quality standard of the article or system desired, but does not restrict bidders to the specific brand, make, manufacturer, or specification named. It is to set forth and convey to prospective bidders the general style, type character, and quality of article or system desired. When in specifications or contract documents a particular brand, make of material, device equipment or system is shown or specified, such brand, make of material device, equipment or system shall be regarded merely as a standard. Products required in the Contract Documents establish minimum quality "Standards" which proposed substitutions must meet in order to be considered acceptable. The burden of proof of quality and equality rests with the contractor performing the work. The Owner reserves the right to determine if the material is equal to the specified and is acceptable under this contract.

1.03 SAMPLES

- A. Samples shall be of sufficient size and quantity to clearly illustrate:
 - 1. Functional characteristics of the product with integrally related parts and attachment devices.
 - 2. Full range of color, hue, value, tone, sheen, opacity, texture, and pattern/repeat.
 - 3. Serve as a sample for testing.
 - 4. Establish standards by which completed work is judged.
- B. Label each sample with identification required for transmittal letter.

2.0 PRODUCTS - Not Used

3.0 EXECUTION

3.01 PROCEDURE

- A. The Owner and the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the Bidding & Contract Requirements (Division 0), and the General Requirements (Division 1 of the Project Manual) after the contract has been awarded. Submit a separate request for each product, material or system, supported with complete product data, drawings, certified test results, and samples as appropriate including comparison of the qualities of the proposed substitution with that specified, changes required in other elements of the Work because of the substitution, effect on construction schedule, effect on warranties, cost data comparing the proposed substitution with the specified products, comparison of availability of maintenance, service and replacement cost, source of replacement materials, and any required license fees or royalties.
1. Any supporting test data or results shall use the same test procedures for the proposed substitution and the specified products to facilitate comparison.
- B. Request for substitution constitutes a representation that the submitting Contractor:
1. Has personally investigated the proposed substitute product and determined that it is equal to or superior in all respects to that specified.
 2. Will provide the same or better warranties, bonds and guarantees for the substitution as for the specified product.
 3. Will coordinate the installation of an accepted substitution into the Work and making such changes as may be required to make the Work complete in all respects.
 4. Waives all claims for additional costs, related to the substitution which may subsequently become apparent.
 5. 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 become apparent.
- C. The Architect shall be the judge of the acceptability of proposed substitutions.
- D. Architect will review requests for substitutions with reasonable promptness, and notify the respective contractor in writing of the decision to accept or reject the requested substitution.
- E. The above shall not be construed to mean that substitution of materials and equipment will be allowed routinely. The Owner reserves the right to disapprove and reject any request for substitution.
- F. Should the proposing Contractor propose a substitute material or method assembly that is of questionable quality or suitability to the Architect, suitable tests may be required to establish a basis for acceptance or rejection. Such tests will be paid for by the respective Contractor and conducted in accordance with industry accepted standards, in accordance with Article 13.5, Tests and Inspections of the General Conditions (Section 00700), and as acceptable to the Architect.
- G. Architect's decision on all substitution requests is final and binding.
- H. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

END OF SECTION

SECTION 06200 - FINISH CARPENTRY & MISCELLANEOUS WORK

1.0 GENERAL

1.01 SECTION INCLUDES

- A. Comply with applicable requirements of Division 1.
- B.
 - 1. Provide all labor, materials, accessories, appurtenances, incidentals, hardware, transportation, services, quality control, tools, supervision and equipment necessary to complete the fabrication and installation of the Work of this Section, as indicated on the Drawings and as specified herein:
 - 2. Furnish & install carpentry items (other than shop fabricated casework), wood standing and running trim, cabinet trim, paneling and trim, hardware (except door hinges & door hardware) and attachment accessories, ornamental items; all carpentry work exposed to view and all non-structural carpentry.

1.02 RELATED SECTIONS

- A. Section 08210 – Doors and Frames
- B. Section 09110 - Metal Stud Framing
- C. Section 09255 - Gypsum Board
- D. Section 09910 – Paints & Coatings

1.03 REFERENCES

- A. ANSI/BHMA A115.69 - Cabinet Hardware
- B. AWI - Quality Standards
- C. FS MM-L-736- Lumber, Hardware
- D. FS MMM-A-130 - Adhesive, Contact
- E. PS-1 - Construction and Industrial Plywood
- G. PS-20 - American Softwood Lumber Standard

1.04 SUBMITTALS

- A. Submit under provision of Section 01340.
- B. Product Data: Submit manufacturer's specifications, catalog cuts, and installation instructions for each materials or product.
- C. ~~Submit color and pattern samples of Plastic Laminate to Owner for selection.~~

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with AWI Custom Grade for paint finished wood.
 - 1. Lumber Grading: Southern Pine Inspection Bureau (SPIB).
 - 2. Plywood Grading Rules: American Plywood Association (APA) Product Standard PS 1.
- B. Lumber: Grade stamp shall contain symbol of grading agency, mill number or name, grade of lumber, species or species grouping, rules under which graded, and conditions of seasoning at time of manufacture. Each piece of lumber shall be grader stamped. Grade stamp shall not be visible in the finished installation.
- C. Plywood: Appropriate grade trademark of APA. Indicate type, grade, class and identification index and

inspection and testing agency mark. Each piece of plywood shall be grader stamped. Grade stamp shall not be visible in the finished installation.

- D. Prior to installation of finish carpentry, examine shop fabricated work for completion, and complete work as required, including back priming and removal of packing.
- E. Provide trim conforming to the following Architectural Woodwork Institute (AWI) Quality Standards as a minimum requirement:
 - 1. Paint Finish Standing and Running trim: AWI Section 300 - Custom Grade
- F. Use adequate numbers of skilled, trained, and experienced workmen to ensure fabrication and installation in strict accordance with the approved design and the recommendations of the materials manufacturer.

1.06 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with minimum ten (10) years documented experience.
- B. Fabricator: Company specializing in custom carpentry work with five (5) years minimum documented experience.
- C. Installer: Company specializing in custom carpentry work with five (5) years minimum documented experience with highly skilled, well trained and experienced craftsmen.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle products to site.
- B. Protect products and materials from moisture damage, soiling, deterioration, and other types of damage during transit, delivery, handling and storage.
- C. Do not deliver shop finished items until site conditions are adequate to receive the Work in this Section. Do not deliver interior finish carpentry items until painting, wet work, grinding and similar operations that could damage, soil or deteriorate woodwork have been completed in installation areas. Immediately upon delivery to job site, place materials indoors in dry, conditioned space, protected from weather and damage. Store materials and products minimum 6 inches above floor on blocking.
- D. Upon delivery, immediately inspect for conformance to the specified requirements and for damage and defects. Remove defective, damaged or non-conforming products from site, do not use or install defective, damaged or non-conforming products. Discard material that is unsound, warped, bowed, twisted, not adequately seasoned, not of the correct size/shape/profile, or has surface defects.
- E. Protect the material of this Section before, during, and after installation and protect the Work and materials of all other trades.
- F. In the event of minor damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner. In the event of significant damage, remove damaged products from site and replace with new. Do not install damaged or non-conforming products.

1.08 FIELD MEASUREMENTS

- A. Take field measurements to ascertain exact millwork and trim sizes.

1.09 COORDINATION

- A. Coordinate the work of this section, with the work of all other sections including mechanical & electrical.

2.0 PRODUCTS

2.01 WOOD MATERIALS FOR PAINTED FINISH

- A. Softwood Lumber: FS MM-L-736; graded in accordance with AWI Custom Grade, Grade II, average moisture content of 15 percent, Southern Pine species, SPIB grade B & better, plain sawn, mixed grain, paint quality, smooth surfaced S4S, solid lumber stock. Provide kiln-dried lumber having a moisture content from time of manufacture until time of installation not greater than 15%.
 - 1. Indicated lumber dimensions are nominal. Actual dimensions shall conform to industry standards.
 - 2. Where indicated on drawings, use Cedar for exterior applications. At all exterior applications where cedar is not indicated, provide pressure treated lumber.
- B. Blocking, furring, bracing and nailers: as required..

2.02 SHEET MATERIALS

- A. Wood Particleboard: PS 1; or AWI Standard, 3 ply formed, minimum 42.5 lbs./cu. ft. composed of wood chips, medium density, made with water resistant adhesive; of grade to suit application; filled and sanded faces.
- B. Softwood Plywood: AWI Custom grade; core materials of veneer; softwood face veneers; APA A-C, exterior glue, PS-1.

2.03 ACCESSORIES

- A. Contact Adhesive: FS MMM-A-130 waterproof solvent release type contact adhesive or type recommended by AWI.
- B. Wall Adhesive: Solvent release, cartridge type, compatible with wall substrate, capable of achieving durable bond.
- C. Nails/Fasteners: Size and type to best suit application, plain finish for all interior work, galvanized finish for all work exposed to exterior. Select fasteners of size that will not penetrate members where exposed to view or will receive finish material.
- D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to best suit application, plain finish for all interior work, galvanized finished for all work exposed to exterior.
- E. Concealed Joint Fasteners: Threaded steel.
- F. Primer: See Section 009900.
- G. Wood Filler: Oil base.
- H. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by AWI Quality Standards 2005. Manufactured by Formica, Wilsonart, Nevamar, or written approved equal.

2.04 FABRICATION

- A. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

3.0 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Examine the areas and conditions under which Work of this Section will be performed to verify that site

conditions are ready to receive work. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected. Verify field measurements are as indicated. Beginning of installation means acceptance of site conditions.

- B. Do not install any finish carpentry or millwork with a higher moisture content than is recommended by the supplier or manufacturer.

3.02 INSTALLATION

- A. Install work in accordance with AWI Custom quality standard.
- B. Install standing and running trim with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to the greatest extent possible. All runs 10'-0" or less shall be one piece. Runs over 10'-0" shall have only one piece less than 10'-0" long. Stagger joints in adjacent and related members. Cope at inside returns, miter at outside corners, and comply with Quality Standards for joinery.
- C. Anchor woodwork to anchors or blocking built-in or directly attached to substrate. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for complete installation. Except where prefinished matching fasteners heads are required, use fine finishing nails for exposed nailing, countersunk and filled flush with woodwork, and matching final finish.
- D. Set and secure materials and components in place, plumb, level, straight, square and true to line. Shim as required using concealed shims. Scribe and cut for accurate fit to other finished work. Secure work to framing, anchors or blocking, or directly attach to substrate.
- E. Install trim, if any, with screws.
- F. Cover exposed edges of plywood shelving, site made casework, and similar exposed edges with 3/8 inch thick solid wood edging, width to match plywood thickness.
- G. Set exposed fasteners to below wood surface. Apply wood filler in exposed fastener indentations.
- H. Site finishing: See Section 09910. Touch up all shop finished items including refinishing necessitated by job fitting or attaching and repair of scratches and similar damage. Touch up repairs shall be indiscernible in the finished work.

3.03 ADJUSTING

- A. Adjust work to operate properly.

3.04 CLEANING

- A. Clean work upon completion.
- B. Clean standing and running trim.
- C. Remove all tags, stickers, markings and foreign matter from all products.

3.05 PROTECTION OF FINISHED WORK

- A. Protect finished Work and prefinished work.
- B. Do not permit finished woodwork to be exposed to continued construction activity.
- C. Just prior to Substantial Completion examine work for damage. Repair or replace such damage to specified conditions.
- D. Clean wood and accessory items using a neutral cleaner. Check and correct operating mechanisms for proper operation. Adjust and lubricate operating hardware.

END OF SECTION

SECTION 07213 - INSULATION

1.0 GENERAL

1.01 DESCRIPTION

- A. Comply with all applicable requirements of Division 1.
- B. Provide all labor, materials, supplies, transportation, handling, supervision, services, safety precautions and programs, tools, quality control, and equipment necessary to complete Work specified to provide unfaced batt or blanket type insulation in all rooms being constructed. Fill all door shim spaces and all crevices. These walls, and ceilings are to receive batt insulation for acoustical reasons. Existing CMU walls will be not require any insulation.

1.02 RELATED WORK

- A. Section 06200 – Finish Carpentry
- B. Section 09110 – Metal Stud Framing
- C. Section 09255 - Gypsum Board
- D. ELECTRICAL

1.03 QUALITY ASSURANCE

- A. Conform to requirements of the State of Alabama, International Building Code 2015 and with local codes and requirements.
- B. Testing: Flame spread: ASTM E84, 75 or less, smoke developed factor 450 or less, ASTM E84.

1.04 SUBMITTALS

- A. Manufacturer's data
 1. Manufacturer's literature: Manufacturer's recommended installation instructions.
 2. Certificates: Manufacturer's certification that materials meet specification requirements.
 3. Submit insulation manufacturer's recommendations for adhesives and/or mechanical fasteners.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, handle, and store materials in accordance with Section 01600.
- B. Deliver products in original, undamaged, sealed and labeled containers. Handle, store and protect as per manufacturer's written instructions.
- C. Identify contents, manufacturer, brand name, thermal value, applicable standards, type, grade and class. The manufacturer's "R" factor designation shall appear on the packages and on the product.
- D. Store products in clean area. Do not allow insulation materials to become wet, soiled, or covered with ice. Any insulation that becomes wet or covered with snow or ice shall be removed from the site immediately. Do not dry out and reuse.
- E. Protect products from damage.
- F. Immediately upon delivery, inspect all products for damage, defects and for conformance with all specified requirements. Damaged, defective or non-conforming products shall not be used. Remove damaged, defective or non-conforming products from the site immediately.

- G. Use all means necessary to protect the materials of this Section before, during and after installation.
- H. Use all means necessary to protect the materials and Work of all other trades from damage due to Work of this Section before, during and after installation.
- I. Only skilled, trained, experienced and competent workmen shall handle the materials of this Section.
- J. In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect at no additional cost to the Owner.

1.06 **JOB CONDITIONS**

- A. Protection
 - 1. Protect adjoining Work during installation.
 - 2. Protect installed products until Contract acceptance.
- B. Examine substrates and spaces to be insulated and all other conditions under which the work of this Section will be performed. If unsatisfactory conditions exist, do not proceed with installation and installer shall notify the Owner. Installer shall ensure that all job conditions meet his requirements and the requirements of the insulation manufacturer. Beginning of installation indicates acceptance of existing conditions.

2.0 **PRODUCTS**

2.01 **ACCEPTABLE MANUFACTURERS**

- A. Certainteed
- B. Owens Corning Fiberglas
- C. U.S.G. Interiors, Inc.

2.02 **MATERIALS**

- A. Thermal Insulation-batts or blankets: Federal Spec HH-1-521E and ASTM C665, Preformed Mineral Fiber, Type II, Class C, Category 1, unfaced, flame spread rating of 75 or less and a smoke developed rating of 450 or less when tested in accordance with ASTM E84. Certainteed Building Insulation or approved equal. Provide edge condition required for construction type(s) indicated on drawings.
 - 1. R-13 minimum thermal resistance, 3-1/2 inch thick, in all Office walls to all Office walls. R-value designation is the thermal resistance of insulation only.
 - 3. R-19 minimum thermal resistance, 6 inch thick, at Office ceilings. R-value designation is the thermal resistance of insulation only.
- B. Fasteners and Adhesives; as recommended by insulation manufacturer for the type of construction indicated and as required to secure insulation in place without future settlement.

3.0 **EXECUTION**

3.01 **INSPECTION**

- A. Examine areas indicated or scheduled to receive batt or blanket insulation to insure protection against inclement weather and other hazards and Work of preceding trades is completed. Surfaces shall be clean, dry and free of any projections.
- B. Examine space allotted for insulation for proper dimensions to receive material.
- C. Verify that site conditions are ready to receive the work of this Section. Verify mechanical and electrical services within walls and ceilings have been installed and tested.

- D. Do not proceed with installation of insulation until subsequent work which will conceal insulation is ready to be performed.

3.02 INSTALLATION

- A. Installation of all insulation shall be in strict accordance with approved manufacturer's published specifications and recommendations, as specified herein. Avoid gaps and bulges in insulation during installation. Attach flanges to framing members with fasteners.
 - 1. Do not install wet or damp insulation.
 - 2. Insulation shall have joints closely butted and placed tightly over or between framing members.
 - 3. Extend insulation full thickness over entire area required to be insulated without gaps or voids.
 - 4. At suspended ceilings, use roll blanket insulation only. Install perpendicular to ceiling cross tees.
 - 5. Cut and fit snugly around pipes, conduits and outlet boxes maintaining a continuous barrier over surface to be insulated. Fit insulation tight to the exterior side of mechanical and electrical services within the plane of the insulation. Leave no gaps or voids.
 - 6. Exercise care to insure integral vapor retarder is continuous over entire surface for batts or blankets. Lap ends and side flanges of facing over framing members.
 - 7. Install applicable insulation with vapor retarder facing toward the exterior of the structure.
 - 8. Do not place insulation closer than 3 inches from the side of recessed lighting fixtures and heat producing devices or within 24 inches of the top of such devices.
 - 9. Pack insulation into narrowly spaced framing as may occur at corners and shim spaces.
 - 10. Insulate bridging and cross bracing by splitting a batt or blanket vertically at the center and packing one-half into each opening. Butt insulation at the bridging and cross bracing; fill in the bridged area with loose or scrap insulation.
 - 11. Coordinate installation of vapor retarder facing with installation of the air infiltration barrier. Extend vapor retarder facing tight to full perimeter of windows and door frames and other items interrupting the plane of the facing.

3.03 ADJUSTMENT AND CLEANING

- A. Adjust batts or blanket as required after all Work in the area is completed.
- B. Remove excess materials, litter and debris, leaving areas in a clean condition.

END OF SECTION

SECTION 07920 - JOINT SEALANTS

1.0 GENERAL

1.01 DESCRIPTION

- A. Comply with applicable requirements of Division 1.
- B. Work under this Section consists of providing items necessary for and incidental to the execution and completion of all preparation of sealant substrate surfaces and all sealant, caulking and backing work interior and exterior, as indicated on the Drawings and specified herein including all materials, supplies, labor, supervision, quality control, services, accessories, incidentals, tools, transportation and equipment required.

1.02 RELATED WORK

- A. Section 06200 - Finish Carpentry
- B. Section 08210 - Doors and Frames
- C. Section 09255 - Acoustical Gypsum Board & Accessories.
- D. Section 09910 - Paint
- F. DIVISION 15 - MECHANICAL
- G. DIVISION 16 - ELECTRICAL

1.03 QUALITY ASSURANCE

- A. Obtain elastomeric materials from manufacturers who will, if requested, send a qualified technical representative to the Project site, for the purpose of advising the Installer of proper procedures and precautions for the use of the materials. Manufacturer shall be an established company specializing in manufacturing the products specified in this section with documented experience.
- B. Applicator: An established company specializing in applying the work of this section with five (5) years minimum documented experience in high performance industrial and commercial sealants and approved by the sealant manufacturer.
- C. Conform to Sealant, Waterproofing, and Restoration Institute requirements for material and installation and the SWRI Guide Specification.
- D. Perform Work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- E. General Sealant Type: Polyurethane-based, 1 part elastomeric sealant, UV stable, paintable, high performance gun grade sealant.
- F. Joint Failure: One or more of the following characteristics:
 - 1. Air and/or water leakage
 - 2. Migration
 - 3. Loss of adhesion
 - 4. Loss of cohesion
 - 5. Failure to cure
 - 6. Discoloration
 - 7. Staining of adjacent work

8. Development of bubbles, air pockets or voids
9. Inclusion of foreign matter

G. Obtain each type of sealant from a single manufacturer.

1.04 SUBMITTALS

- A. Submittals shall be delivered to the Architect twelve (12) calendar days prior to the when the sealants need to be delivered to the job site.
- B. **Manufacturer's Data:** Submit manufacturer's specifications (primer, filler, backing material, bond breaker, etc.), recommendations and installation instructions for each type of sealant and associated miscellaneous material required. Include manufacturer's published data, or letter of certification, or certified laboratory test report indicating that each material complies with the requirements and is intended generally for the applications required. Show by transmittal that one copy of each recommendation and instruction has been distributed to the Installer.
- C. **Guarantee, Sealants, and Accessories:** Submit written guarantee agreeing to repair or replace sealants which fail to provide air-tight and water-tight joints; or fail in joint adhesion, cohesion, abrasion resistance, weather resistance, extrusion resistance, migration resistance, stain resistance, fail to cure, or fail in general durability; or appear to deteriorate in any other manner not clearly specified by submitted manufacturer's data, as an adherent quality of the materials for the exposure indicated. Provide guarantee signed by the Installer and Contractor covering defects in materials and workmanship. Guarantee period is three years from date of Substantial Completion. Submit under provisions of Section 01700.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original, undamaged, sealed and labeled containers. Sealants and caulking material more than six months old shall not be used. Immediately upon delivery, inspect all products for age, damage, and conformance with the specified requirements.
- B. Store products in clean area.
- C. Handle and store products in accordance with manufacturer's requirements.
- D. Protect products from damage and contamination by foreign materials.
- E. Old, damaged, defective or non-conforming products shall not be used and shall be removed from the site.
- F. Store products in an environment with temperature range within the recommendations of the manufacturer.

1.06 JOB CONDITIONS

- A. **Condition of Other Work:** The Installer must examine the joint surfaces, backing, and anchorage of units forming sealant rabbet, and the conditions under which the sealant Work is to be performed, and notify the Owner in writing of conditions detrimental to the proper and timely completion of the Work and performance of the sealants. Do not proceed with the sealant Work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer and Architect. Protect contiguous work from damage by sealant work. Apply masking material or manipulate application equipment to keep materials in joint. If masking materials are used, allow no tape to touch cleaned surfaces to receive sealant. Remove tape immediately after sealing, before surface skin begins to form. Joints to be sealed must be clean, dry, free of dust and loose material.
- B. Wherever joint width is affected by ambient temperature variations, install materials only when temperatures are in lower third of manufacturer's recommended installation temperature.

2.0 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Polyurethane: Pecora Corp., or Sonneborn.
- B. Acoustical Sealant: OSI, or Tremco

2.02 MATERIALS

- A. Sealant: Polyurethane-based, 1 part moisture curing elastomeric sealant, complying with ASTM-C920, Type S, Grade NS, Class 25, Use NT-G-A-O-M, FS TT-S-00230C, Class A, Type II (non-sag). Sealant shall be UV stable and paintable
 - 1. Pecora Corp. - Dynatrol I, modified polyurethane rubber with primers.
 - 2. Sonneborn - Sonolastic NP I, with primers.
- B. Acoustical Caulking:
 - 1. OSI Acoustical Sealant.
 - 2. Tremco Acoustical Sealant.
- C. Primers: Non-staining, quick-drying type as recommended by sealant manufacturer. Use primers on all metal surfaces and other surfaces as recommended.
- D. Sealant Backer Rod: Compressible rod stock closed cell urethane, or other flexible, permanent, durable, closed cell, non-absorptive material as recommended, for compatibility with sealant by the sealant manufacturer and as recommended for compatibility with adjoining materials. Provide size and shape of rod which will control the joint depth for sealant placement, break bond of sealant at bottom of joint, form optimum shape of sealant bead on back side, and provide a highly compressible backer to minimize the possibility of sealant extrusion when joint is compressed. Diameter of backer rod shall be 1-1/3 times joint width. ASTM C1330 and ASTM D1056.
- E. Bond Breaker Tape: Approved by sealant manufacturer, pressure sensitive adhesive, polyethylene. Apply to sealant contact surfaces, where bond to the substrate of the joint sealant must be avoided for proper performance of the sealant.
- F. Compatibility: Provide only materials (manufacturer's recommended variation of the specified materials) which are known to be fully compatible with the actual installation conditions, as shown by manufacturer's published data or certification.
- G. Colors: Wherever sealant is not exposed to view, provide manufacturer's standard color which has the best overall performance characteristics for the application shown. Where exposed to view, provide colors to match the adjoining surfaces. Custom colors will be required to match prefinished materials.
- F. Joint Cleaner: Non-corrosive, non-staining type. Provide the type of joint cleaning compound recommended by the sealant manufacturer for the joint surfaces to be cleaned.

2.03 MANUFACTURER

- A. The products of a single manufacturer shall be used for each type of sealant. Architect will consider systems recommendations on specific products.

3.0 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces and joint openings are ready to receive work. Beginning of installation means installer accepts existing conditions.

- B. Verify backing and release tapes are compatible with sealant.
- C. Protect surrounding elements from damage.

3.02 JOINT SURFACE PREPARATION

- A. Perform preparation in accordance with ASTM C1193.
- B. Comply with sealant manufacturer's printed instruction except where more stringent requirements are specified.
- C. Clean joint and prime joint surfaces immediately before installation of sealant in accordance with manufacturer's instructions. Remove dirt, insecure coatings, loose material, moisture and other substances that would interfere with bond or adhesion of sealant or other required surface covering.
- D. For elastomeric sealants, do not proceed with installation of sealant over joint surfaces which have been painted, lacquered, waterproofed or treated with water repellent or other treatment or coating.
- E. Etch concrete and masonry joint surfaces to remove excess alkalinity so it does not interfere with sealant bond and performance, unless material manufacturer's product data indicates that alkalinity does not interfere with bond performance. Etch with 5% solution of muriatic acid; neutralized with dilute ammonia solution, rinse thoroughly with clean water and allow drying before sealant installation. Protect adjacent surfaces.
- F. Roughen joint surfaces on non-porous materials unless materials manufacturer's product data indicates equal bond strength as porous surfaces. Rub with fine abrasive cloth or wool to produce a dull sheen.

3.03 APPLICATION

- A. Comply with sealant manufacturer's printed instructions and recommendations except where more stringent requirements are shown or specified. Comply with ASTM C1193 - Standard Guide for Use of Joint Sealers for preparations and installation.
- B. Polyurethane sealant: Use in all exterior and interior locations and applications. Use U.V. stabilized type sealant for all exterior exposed joints.
- C. Measure joint dimensions and size materials to achieve required width/depth ratios. (2:1 width/depth ratio unless indicated otherwise.)
- D. Prime or seal the joint surfaces wherever shown or recommended by the sealant manufacturer, in accordance with manufacturer's instructions. Do not allow primer/sealer to spill or migrate on to adjoining surfaces.
- E. Install sealant backer rod for liquid elastomeric sealants, except where shown to be omitted or recommended to be omitted by the sealant manufacturer for the specific application shown. Install bond breaker tape where joint backing is not used. Install bond breaker tape to all sealant contact surfaces where bonding to the surface must be avoided for proper performance of the sealant.
- F. Apply sealant within recommended application temperature ranges without exception.
- G. Employ only proven installation techniques, which will ensure that sealants will be deposited in uniform, continuous ribbons without gaps or air pockets, with complete "wetting" of the joint bond surfaces equally on opposite sides. Except as otherwise indicated, fill sealant rabbit to a slightly concave surface and tool, slightly below adjoining surfaces. Where horizontal joints are between a horizontal surface and a vertical surface, fill joint free of air pockets and tool to form a slight cove, so that joint will not trap moisture and dirt. Surfaces of sealant shall be smooth, free of ridges, wrinkles, sags and air pockets or embedded impurities.
- H. Install sealants to depths as shown, or, if not shown, as recommended by the sealant manufacturer but within the following general limitations, measured at the center (thin) section of the bead. For normal moving joints sealed with elastomeric sealant, but not subject to traffic, fill joints to a depth equal to 50% of joint width, but neither more than 1/2" deep nor less than 1/4" deep.

- I. No face beads of sealant are allowed.
- J. Protect elements surrounding the Work of this Section from damage or disfiguration. Do not allow sealants to overflow or spill onto adjoining surfaces or to migrate into the voids of adjoining surfaces. Use masking tape or other precautionary devices to prevent staining of adjacent surfaces.

3.04 CURING AND PROTECTION

- A. Cure sealants and caulking compounds in compliance with manufacturer's instructions to obtain high early bond strength, internal cohesive strength and surface durability.
- B. Protect sealants until cured. Protect finished installation. The Installer shall advise the Owner of procedures required for the curing and protection of sealants and caulking compounds during the construction period.

3.05 CLEAN UP

- A. Clean work under provisions of Division 1.
- B. Remove excess, smears, misplaced materials and spillage of compounds promptly as the work progresses. Clean the adjoining surfaces to eliminate evidence of misplaced materials without damage to adjacent surface finishes. Use solvents and methods recommended by manufacturer.
- C. Repair and correct defective work.
- D. Repair or replace defaced or disfigured finishes caused by Work of this section. Restore surfaces from which materials have been removed to original condition and appearance.

END OF SECTION

SECTION 08210 - DOORS AND FRAMES

1.0 GENERAL

1.01 SUMMARY

- A.** Comply with applicable requirements of DIVISION 1
- B.** Section Includes: Provide all necessary materials, labor, and equipment for complete installation of packaged doors and frames indicated on drawings.
- C.** Related Sections:
 - 1. Section 06200 - Finish Carpentry.
 - 2. Section 07920 - Joint Sealants
 - 3. Section 09910 - Paint and Coatings.
- D.** Match existing doors & frames -- minimum size door to be 3' - 0" x 6' - 8".
- E.** Lockset & keying to match existing, with a lever type handle each side.

1.02 References

- A.** Standards of the following as referenced:
 - 1. American Society for Testing and Materials (ASTM).
 - 2. Insulated Steel Door Systems Institute (ISDSI).
 - 3. National Fire Protection Association (NFPA).
 - 4. Underwriters' Laboratories, Inc., (UL).
 - 5. Warnock Hersey International (WHI).
 - 6. National Wood Window and Door Association (NWWDA).
- B.** Industry Standards:
 - 1. ISDSI: Certified Products Directory, August 1980 edition.
 - 2. NFPA: National Fire Codes, Volume 4.
 - 3. NWWDA: I.S. 1-86 and I.S. 5-83.
 - 4. USDOJ: Americans with Disabilities Act Standards for Accessible Design (2010).
 - 5. ICC: A117.1 - 2017 Accessible and usable Buildings and Facilities

1.03 SUBMITTALS

- A.** Product data: Factory assembled door units, doors only, and frames in sizes and configurations indicated.
- B.** Shop drawings: Indicate configurations, sizes, locations, and door and frame hardware preparation. Provide installation instructions.
- C.** Quality Control Submittals:
 - 1. Indicate compliance with required code authorities for openings and ratings.
 - 2. Test reports: Submit certified test reports, if required by Architect, indicating compliance with design requirements from independent testing laboratory.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged doors and frames cartoned for protection. Metal frames to have temporary spreader bars.
- B. Inspect: Work upon delivery for damage. Reject damaged items.
- C. Store materials under cover, on raised platforms, in vertical position.

1.05 QUALITY ASSURANCE

- A. Furnish fire-rated components bearing factory applied labels of UL or WHI; give component rating.

2.0 **PRODUCTS**

2.1. **MANUFACTURERS:**

- A. Acceptable manufacturers (Interior Units):
 - 1. Any member of NWWDA
 - 2. Any other manufacturer approved by Architect.

2.02 Materials:

- A. Interior Doors – match existing solid core doors and hinges.
- B. Hardware to match existing, but the door must be accessible – use lever accessible lever type handles.
- C. Key mechanism to match existing.
- D. Trim: Match trim in existing in adjacent offices.

2.03 FABRICATION

- A. Fabricate units in accord with industry standards, except where more stringent requirements are required or specified.
- B. Finish - Wood: Prime & paint.
- C. Shop assembly:
 - 1. Fabricate door units in shop in accord with reviewed shop drawings for sizes and locations indicated.
 - 2. Machine doors for hardware using templates furnished by hardware manufacturer as applicable.
 - 3. Swinging doors: Bore for latch set 35-1/2 inch from door bottom: backset in accord with requirements of mortise for hinges.
 - 4. Bi-fold doors: Assemble units with surface mounted hinges; predrill for pulls and guides. Pack for shipping.
 - 5. Second Bore: 11-1/4 inch center to center on units directed by hardware consultant.
- D. Allowable manufacturing tolerance:
 - 1. Overall dimensions: 1/16 inch maximum variation.
 - 2. Door or frame squareness: Maximum 1/8 inch variation in diagonal dimension.

3.0 EXECUTION

3.01 INSTALLATION:

A. Genera

1. Install doors in accord with manufacturer's product data.
2. Maintain uniform height to top of trim for all doors: align with window head as applicable. Shim full at fasteners to rough opening.
3. Adjust components for smooth and quiet operation.
4. Provide three anchors through each jamb into the buck.
5. Align and plumb door strike jamb and level head.
6. Maintain same space at each jamb.
7. On exterior doors, fully shim space at each hinge and at door strike.

C. Set Thresholds in two continuous beads of butyl sealant full width of opening. Caulk juncture of frame and adjoining material at jambs and head with sealant specified in Joint Sealants section.

D. Clearance between door and frame: In accord with manufacturer's approved installation instructions.

F. Lock sets or latch sets to match existing: key to match building keys as directed by Owner.

G. Clean soil, smudge marks, and handling defects from doors. Replace doors from which marks cannot be removed.

G. Wood and metal finish: Specified in Paints and Coatings Section.

END OF SECTION

SECTION 08411 - GLAZED ALUMINUM STORE FRONT

Part 1 – GENERAL

1.01 Summary

- A. Section includes: Glazed Aluminum Store Front, Aluminum end caps on end of 5 divider walls, narrow Stile Glass Doors (with Accessories).

1.02 References

- A. American Architectural Manufacturers Association (AAMA)
- B. American Society for Testing and Materials (ASTM)
- C. Aluminum Association (AA)

1.03 System Description (or written approved equal)

- A. General: In addition to requirements shown or specified, comply with: applicable provisions of AAMA Metal Curtain Wall Manual for design, materials, fabrication and installation of component parts.
- B. Design Requirements: Arcadia T500 Series is a self-supporting curtain wall, with pressure plate and covers attached to the tongue of back member.
- C. Performance Requirements:
 - 1. Sound transmission in accordance with ASTM E 90.
 - 2. National Fenestration Rating Council (NFRC) specific application evaluation.

PART 2 – PRODUCTS

2.01 Manufacturers

- A. Acceptable Products:
 - 1. Arcadia, Inc. (Telephone 323/269-7300), T500 Series (OPG-1900), 2" x 4" pressure plate glazed system.
 - 2. Approved equal.

2.02 Framing Materials and Accessories

- A. Framing members, transition members, mullions, adaptors, and mounting: Extruded 6063-T5 aluminum alloy.
- B. Screws, fastening devices, and internal components: Aluminum, stainless steel, or zinc-plated steel in accordance with ASTM.A-164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from aluminum.
- C. Glazing Gasket: Compression-type design, replaceable, molded or extruded santoprene, polyvinyl chloride (PVC), or ethylene propylene diene monomer (EPDM).

2.03 Finish

- A. Finish all exposed areas of aluminum and components as indicated.
 - 1. An Architectural Class II or I color anodic coating conforming with AA-M12C22A34/AA-M12C22A44.
 - a. Anodized finish standard color (not premium) shall be selected by Owner.
 - b. Acceptable Coatings Manufacturers:
 - (i) PPG Industries, Inc.
 - (ii) Valspar Corporation
 - (iii) BASF

2.04 Glazing

- A. Doors to have 9/16" laminated glass.

B. Side lites to have 5/16" glass, an 11/16" air space and 5/16" glass.

C. Provide safety glass where required by International Building Code.

2.05 System Fabrication

A. Provisions shall be made to seal all gaps & holes to keep sound transmittal to a minimum.

B. System shall provide for two-piece horizontal framing so that all fasteners at intersection of horizontal and vertical members will be concealed.

C There shall be no exposed fasteners at perimeter sections, except the two end wall caps can have screws with matching escutcheons.

D Accessories – each storefront door to have accessible:

- 1 concealed closer;
- 2 pull handle (in Courtroom);
- 3 push bar (on inside);
- 4 10" high kick plate with top closed to glass;
- 5 threshold with gasket (see Detail "T" on Sheet A2 of the Drawings) &
- 6 gasket both jambs & top.

PART 3 – EXECTIONS

3.01 Examinations: Examine conditions and verify substrate conditions are acceptable for product installation.

3.02 Installation: Install in accordance with approved shop drawings and manufacturers written installation instructions.

END OF SECTION

SECTION 09110 - METAL STUD FRAMING

PART 1. GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Formed metal stud framing where called for in the drawings.
 - 2. Framing accessories.
 - 3. Furring in Court Room
- B. Related Sections:
 - 1. Section 07213 - Batt Insulation: Insulation within stud framing.

1.02 SYSTEM DESCRIPTION

- A. Metal stud framing for all new interior walls, with insulation (see Section 07213)
- B. Metal stud framing for ceiling Furr down in Court Room.

1.03 SUBMITTALS

- A. Submit product data if required.
- B. Provide product data indicating standard framing members. Describe materials and finish, product criteria and limitations.

1.04 QUALITY ASSURANCE

- A. Perform Work to GA 201 and GA 216.

PART 2. PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Dietrich Metals.
- B. Approved Equal.

2.02 STUD FRAMING MATERIALS

- A. Studs: ASTM C645 (electro-galvanized at exterior walls) non-load bearing rolled steel, channel shaped, punched for utility access, as follows:
 - 1. width = 3.625"
 - 2. thickness: 25 gauge (Design Thickness = 0.0188")
- B. Runners: Of same material and finish as studs, bent leg retainer to receive studs.
- C. Furring and Bracing Members: Of same material and finish as studs, thickness to suit purpose.
- D. Fasteners: Self drilling, self tapping screws.
- E. Reinforcement: 20 ga. thick Steel, if required
- F. Anchorage Devices: Power driven.
- G. Primer: Zinc oxide touch-up for galvanized surfaces.

PART 3. EXECUTION

3.01 ERECTION

- A. Place one beads of sealant between runners, studs and substrate.
- B. Align and secure top and bottom runners at 24 inches on center maximum.
- C. Fit runners under and above openings; secure intermediate studs at spacing of wall studs.
- D. Install studs vertically at sixteen inches (16") on center. Align stud web openings.
- E. Secure studs to tracks. Brace stud framing system and make rigid.
- F. Stud splicing is not permissible unless approved in advance by the Architect in writing.
- G. Construct corners using minimum three studs. Double stud at wall opening, door and window jambs.
- H. Coordinate installation of bucks, anchors, and blocking with electrical and mechanical work to be placed in or behind stud framing.
- J. Blocking and Reinforcement: Secure to studs. Install for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories and hardware.
- K. Maintain clearance under structural building members to avoid deflection transfer to studs. Provide extended leg ceiling runners.
- L. Coordinate placement of insulation in multiple stud spaces made inaccessible after stud framing erection.

END OF SECTION

SECTION 09255: - ACOUSTICAL GYPSUM BOARD

1.0 GENERAL

1.01 SCOPE OF WORK

A. Comply with applicable requirements of Division 1.

B. Provide all labor, materials, supplies, transportation, handling, tools, services, quality control, supervision, equipment, accessories, and incidentals necessary to complete gypsum board walls, ceilings, furring, accents, features and returns where indicated on drawings.

1.02 RELATED WORK

A. Section 06200 - Carpentry and Miscellaneous Work

B. Section 07920 - Joint Sealants

1.03 DESCRIPTION OF SYSTEM

A. Acoustical Gypsum board shall be provided on all new gypsum walls shown on the drawings

1.04 QUALITY ASSURANCE

A. Conform to ASTM C36, ASTM C474, ASTM C475, ASTM C754, ASTM C840, ASTM C1047, ASTM E84, and ASTM E119. Also conform to GA - 216. (Gypsum Association), "Application and Finishing of Gypsum Board" and Underwriter's Laboratory requirements.

B. Applicator: Company with a minimum five (5) years documented continuous commercial experience in acoustical gypsum board systems .

1.06 ENVIRONMENTAL CONDITIONS

A. Temperature: Maintain temperature uniformly within the range of 55 degrees to 80 degrees Fahrenheit for 24 hours before, during, and 48 hours after wall application and joint finishing.

B. Ventilation: Provide adequate ventilation to eliminate moisture build-up and to allow proper curing of wet applied materials.

C. Under slow drying condition, allow additional drying time as required between coats of joint treatment.

D. Protect installed materials from drafts during hot, dry weather

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery and Handling

1. Deliver materials to the project site with manufacturer's labels intact and legible. Deliver materials in sealed containers, bundles, fully identified with manufacturer's label.
2. Provide materials for use on project free from damage.
3. Delay material delivery until project is ready to receive the materials of this Section and until delivery is necessary.
4. Immediately upon delivery, inspect products for damage, defects and conformance with specified requirements. Remove damaged, defective or non-conforming products from the site immediately. Do not install damaged, defective or non-conforming products.

B. Storage

1. Store materials inside under cover and stacked flat on clean, dry, well ventilated area on pallets or platforms off of the floor, supports shall prevent sagging.

2. Avoid overloading floor system.
3. Distribute material storage areas to provide working area for other trades.
4. Store compounds in a dry area at approximately 70 degrees Fahrenheit for at least 24 hours before using.
5. Do not install gypsum products that have been wet or damp, even if they have dried out.

2.0 PRODUCTS

2.01 GYPSUM WALLBOARD MATERIALS

A. Conform to the respective specifications and standards and to the requirements specified herein. Provide gypsum board manufactured from asbestos-free materials.

B. Gypsum Wallboard; PABCO Gypsum 5/8" Quiet Rock ES (EZ-SNAP) with tapered , or approved equal . Use maximum length panels available to minimize end joints.

1. Product Standard: ASTM C 1396.
2. Rated STC = 48: ASTM E 90

2.02 ACCESSORIES

A. General: All accessories shall meet Manufacturer's written recommendations

1. Joint Treatment Compound;
2. Embedding Compound;
3. Finishing or Topping Compound;
4. All-Purpose Compound;
5. Joint Tape;
6. Screws;
7. Cornerbead;
8. Edge Trim;
9. Quiet Seal Pro Acoustical Sealant &
10. Quiet Putty

B. Water: Clean, fresh, and potable.

3.0 EXECUTION

3.01 INSPECTION

A. Installer shall verify that site conditions are ready to receive work and opening dimensions are correct. Examine framing and substrates. Review areas of potential interferences or conflicts. Do not proceed with installation until conditions are acceptable to the Installer. Installer shall report any unsatisfactory conditions to the Architect.

B. Verify that all insulation, electrical, and mechanical items are installed, tested, and inspected.

C. Beginning of installation means acceptance of existing site conditions and surfaces.

D. **DO NOT** proceed with gypsum board installation until all framing, blocking, bracing and other grounds and supports for subsequent work are in place.

3.02 GYPSUM BOARD INSTALLATION

A. Install gypsum board in accordance with manufacturer's instruction and in accordance with Gypsum Association 214, Gypsum Association 216, and ASTM C840 unless more stringently specified herein or more stringently specified in manufacturers instructions. Install boards with face side out. Coordinate layout, sequencing and installation with all other trades for proper integration of work.

B. Erect single layer gypsum board horizontally with ends and edges occurring over solid framing. Install gypsum board horizontally, with ends occurring over solid framing. Use wall boards of maximum lengths to minimize end joints. Stagger end joints minimum 16" in alternate courses of board. Locate end butt joints as far from center of walls and ceilings as possible. Gypsum board shall be held 1/4" above concrete slabs.

C. Gypsum board screw type & spacing as per manufacturer.

D. Abut boards without forcing. Fit ends and edges of boards together for light contact. Do not place butt ends or cut edges/ends against tapered edges. Position boards so both tapered edge joints abut, mill cut or field cut where end joints abut.

E. Install board accessories in accord with manufacturer's recommendations. Install corner beads at all external corners, including window return and in cased wall openings.

F. Place control joints consistent with lines of building spaces and in consistent patterns as directed.

G. Provide corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

H. DO NOT install imperfect, damaged or damp boards.

3.03 JOINT TREATMENT & FINISHING

A. Conform to ASTM C840.

B. Tape, fill, and sand exposed joints, edges, openings, and corners to produce a smooth surface ready to receive paint. Apply two additional coats of compound over tape, feather edging and sanding each coat. Allow at least 24 hours drying time between coats, increase drying times as required for relative humidity, etc.

C. Fill and sand fastener locations minimum 3 separate coats of joint compound, each coat sanded at all joints, screw heads and metal flanges.

D. Feather coats onto adjoining surfaces so that camber is maximum 1/32 inch

E. Finish: Smooth, flush. Form true, level and plumb lines without joints, screw heads, flanges of accessories or defects visible after application of paint. Finish in accordance with GA-214 Level 5.

F. Seal at all penetrations through acoustical partition and ceilings to close openings (see Drawings).

3.04 TOLERANCES

A. Maximum Variation from true flatness: 1/8" in 10'-0" in any direction for plumb, level, warp and bow. 1/8" maximum offset between planes of board faces.

B. Surface smoothness: No joints or fasteners, roughness or blemish discernible after application of finish when viewed at any angle from a distance of 4'-0" under occupancy lighting conditions with surface preparation as specified in Section 09900.

3.05 CLEANING

A. Restore to original condition, or replace, work or materials of other trades damaged or permanently stained during erection of gypsum board system.

END OF SECTION

SECTION 09510 - SUSPENDED ACOUSTIC CEILINGS

PART 1. GENERAL

1.01 SUMMARY

A. Section Includes:

1. Suspended metal grid ceiling system.
2. Acoustical ceiling panels.
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings.

B. Related Sections

1. Section 09255 - Gypsum Board

C. Submit product data, to requirements of Section 01340, on metal grid system components and acoustic units. ~~4~~ SAMPLES

D. Match existing suspension system and tiles - if a difference can be observed, replace grid and tiles in entire room (grid and tiles can be switched between rooms if approved in advance by the Architect).

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
7. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems.
8. ASTM E 1264 Classification for Acoustical Ceiling Products.
9. ASTM E 1477 Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.
10. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.

B. ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"

2. QUALITY ASSURANCE

A. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.

- a. Flame Spread: 25 or less
- b. Smoke Developed: 50 or less

B. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and

other causes.

B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.05 PROJECT CONDITIONS

A. All ceiling products and suspension systems must be installed and maintained in accordance with Armstrong written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32°F (0°C) and 120°F (49°C) and not subject to Abnormal Conditions. Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

1.06 WARRANTY

- A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
1. Acoustical Panels: Sagging and warping as a result of defects in materials or factory workmanship.
 2. Grid System: Rusting and manufacturer's defects
- B. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by this Contractor under the requirements of the Contract Documents.

1.07 MAINTENANCE - Deliver extra materials to Owner. Furnish extra materials described below that match products installed, packaged with protective covering for storage and identified with appropriate labels. Furnish quality of full-size Acoustical Ceiling Units equal to 5.0 percent of amount installed.

PART 2. PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS - Armstrong World Industries, Inc., or written approved equal.

- A. Acoustical Panels Type ACT-1 – match existing (submit samples to Owner) for:
1. Surface Texture: Fine
 2. Composition: Mineral Fiber
 3. Color: White
 4. Size: 24in X 24in X 3/4in
 5. Edge Profile: Angled Tegular for interface with Prelude ML 15/16" Exposed Tee.
 6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, 0.50.
 7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, 35
 8. Emissions Testing: Section 01350 Protocol, < 13.5 ppb of formaldehyde when used under typical conditions required by ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"
 9. Flame Spread: ASTM E 1264; Class A (UL)
 10. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: 0.83.
 11. Product: Dune Second Look, 2711 as manufactured by Armstrong World Industries.

Note: If new tiles do not match existing, submit samples to the Architect for approval, and, if approved, use these submitted materials.

B. Suspension System:

1. Components:
 - a. All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum, or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).
 - b. Structural Classification: ASTM C 635 HD.
 - c. Color: match the actual color of the selected ceiling tile, unless noted otherwise.

- d. Acceptable Product: – match existing in main building (submit samples to Owner)
- 2. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- 3. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three design load, but not less than 12 gauge.
- 4. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated. Provide moldings with exposed flange of the same width as exposed runner

PART 3. EXECUTION

3.01 EXAMINATION

- A. Verify that layout of hangers will not interfere with other work.
- B. Verify that site conditions are ready to receive work.
- C. Beginning of installation means acceptance of site conditions.
- D. Do not proceed with installation until all wet work such as concrete, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations; .

3.02 INSTALLATION

- A. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
- B. Suspend main beam from overhead construction with hanger wires spaced 4'-0" on center along the length of the main runner. Install hanger wires plumb and straight.
- C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
- E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.
- F. Fit acoustic units in place, free from damaged edges.

3.03 Variation from Flat and Level Surface: 1/8" inches in 10 feet.

3.04 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage.
- C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09900 - PAINTS AND COATINGS

1.0 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Surface preparation.
 2. Painting
 3. Touch ups
 4. Cleanup
- B. Surface finish schedule, sheen and colors in "Materials and Finishes" Schedule on Sheet A-3 of the drawings.
- C. Owner will stripe paving & parking spaces and will furnish (2' high x 40' to 60' long) wallpaper logo to be hung, by this contractor, directly below the second floor windows on the East wall of the Show Room.
- D. Paint every interior room in the "Room Finish Schedule" of the Drawings. Where items or surfaces are not specifically mentioned, ask Architect.
- E. Apply additional coats, if required, to "hide" imperfections.

1.02 SUBMITTALS

- A. Submit three (3) samples illustrating color, finish, and textures.
- B. Submit descriptive information, installations, and recommended coverage for each product to be used.

1.03 JOB CONDITIONS

- A. ENVIRONMENTAL REQUIREMENTS:
1. Do not apply coating in areas where dust is being generated. Surfaces shall be free of foreign matter.
 3. Lighting shall be adequate as required for proper application, provided by applicator as necessary to supplement temporary lighting.
 4. Do not paint in excessive humidity. Do not paint wet or humid surfaces.
 5. Do not paint surfaces which indicates a moisture content above 12% or the manufacturer's minimum.
- B. PROTECTION:
1. Cover or otherwise protect all finished work of other trades and surfaces not being painted.
 2. Remove finish hardware, accessories, light fixtures and cover plates, factory finished work, and similar items. Replace upon completion of painting.
 3. Prevent any fire hazards.

1.04 WORK NOT INCLUDED

- A. Unless otherwise indicated, painting is not required on surfaces in concealed areas and inaccessible areas such as furred spaces, utility tunnels, pipe spaces and duct shafts.

- B. Unless otherwise indicated, do not paint any moving parts of operating units such as valve operators, linkages, sensing devices, and motor shafts.
- C. Do not paint over any required labels or equipment identification, performance rating, name or nomenclature plates.
- D. Do not paint factory pre-finished materials unless otherwise indicated.

1.05 MAINTENANCE MATERIALS

- A. Provide the Owner with one gallon of each color/type paint used. Containers are to be unopened and labeled.

2.0 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. ICI Delux Paints.
- B. Benjamin Moore and Co.
- C. Sherwin Williams.

2.02 MATERIALS

- A. Paints: Ready mixed except field catalyzed coatings; good flow and brushing properties; capable of drying or curing free of streaks or sags.
- B. Paint Accessory Materials: Linseed oil, shellac, turpentine, and other materials, of commercial quality
- C. Products are to be based on Sherwin Williams product numbers as shown on the Schedules at the end of this Section.
- D. Paint colors are to match existing. If paint does not match, as determined by Owner, paint entire room
- E. All Painting materials to be low volatile.

2.03 FINISH

- A. Clean and prepare structural steel members for finishing.
- B. Shop prime structural steel members. Do not prime surfaces that will be field welded.

2.03 FINISH

- A. Clean and prepare structural steel members for finishing.
- B. Shop prime structural steel members. Do not prime surfaces that will be field welded.

PART 3. EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

- B. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the recommended maximum.
- C. Beginning of installation means acceptance of site conditions.

3.02 PREPARATION

- A. Correct minor defects and deficiencies in surfaces which affect work of this section.
- B. Prepare surfaces to paint manufacturer's instructions. Rinse with clean water.
 1. Aluminum - Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.
 2. Drywall (Interior and Exterior) - Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds.
 3. Previously Coated Surfaces - Maintenance painting will frequently not permit or require complete removal of all old coatings prior to repainting. However, all surface contamination such as oil, grease, loose paint, mill scale, dirt, foreign matter, rust, mold, mildew, mortar, efflorescence, and sealers must be removed to assure sound bonding to the tightly adhering old paint. Glossy surfaces of old paint films must be clean and dull before repainting. Thorough washing with an abrasive cleanser will clean and dull in one operation, or, wash thoroughly and dull by sanding. Spot prime any bare areas with an appropriate primer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system. Check for compatibility by applying a test patch of the recommended coating system, covering at least 2 to 3 square feet. Allow to dry one week before testing adhesion per ASTM D3359. If the coating system is incompatible, complete removal is required.
 4. Solvent Cleaning - Solvent Cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No. 1 (SSPC-SP1).
 5. Hand Tool Cleaning - Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mill scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble residues, and salts by the methods outlined in SSPCSP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No. 2 (SSPC-SP2).
 6. Power Tool Cleaning - removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mill scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble residues, and salts by the methods outlined in SSPCSP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.3.(SSP-PC3).
 7. Wood (Interior) - All finishing lumber and flooring must be stored in dry, warm rooms to prevent absorption of moisture, shrinkage, and roughening of the wood. All surfaces must be sanded smooth, with the grain, never across it. Surface blemishes must be corrected and the area cleaned of dust before coating.
 8. High-and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials SSPC-SP12 or NACE 5. This standard provides requirements for the use of high- and ultra-high pressure water jetting to achieve various degrees of surface cleanliness. This standard is limited in scope to the use of water only, without the addition of solid particles in the stream. For complete instructions, refer to Joint Surface Preparation Standard (SSPC-SP12/NACE No.5)

3.03 APPLICATION

- A. Apply products to manufacturer's instructions and to their recommended dry mil film thickness.
- B. Paint all exposed to view surfaces (except concrete).
- C. Sand lightly between coats to achieve required finish.
- D. Do not apply finishes to surfaces that are not dry.
- E. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
- F. Back prime exterior woodwork with exterior primer paint.
- G. Back prime interior woodwork with enamel primer sealer.
- H. Protect other surfaces from paint or damage. Repair damage.

3.04 CLEANING

- A. As work proceeds, promptly remove paint where spilled, splashed, or spattered.

3.05 SCHEDULE - EXTERIOR SURFACES

- A. **New Galvanized Steel, Galvanized Metal Doors and Frames**
 1. Prep - as necessary
 2. Primer: B66W00310 - Pro Industrial Pro-Cryl® Universal Primer Off White
 3. Finish: B66W00111 - DTM Acrylic Coating Gloss Extra White/Tint Base

3.06 SCHEDULE - INTERIOR SURFACES

- A. **Drywall-Ceilings**
 1. Primer: B28W08000 - PVA INT PRMR WHITE Spot Prime as needed.
 2. Finish: B30W02651 - ProMar® 200 Zero VOC Interior Latex Flat Extra White/Colors
- B. **Drywall-Walls**
 1. Primer: B28W08000 - PVA INT PRMR WHITE Spot Prime as needed.
 2. Finish: B20W02651 - ProMar® 200 Zero VOC Interior Latex Eg-Shel Extra White/Colors
- C. **Wood:**
 1. Primer: B51W08020 - Multi-Purpose Latex Primer White Spot Prime as needed.
 2. Finish: B31W02651 - ProMar® 200 Zero VOC Interior Latex Semi-Gloss Extra White/Colors
- D. **Steel - Unprimed:**
 1. Primer: B66W00310 - Pro Industrial Pro-Cryl® Universal Primer Off White
 2. Intermediate Coat: B66W00111 - DTM Acrylic Coating Gloss Extra White/Tint Base
- E. **Steel - Primed:**
 1. Primer touch up: B66W00310 - Pro Industrial Pro-Cryl® Universal Primer Off White
 2. Finish: B66W00111 - DTM Acrylic Coating Gloss Extra White/Tint Base

F. Steel - Galvanized:

1. Primer: B66W00310 - Pro Industrial Pro-Cryl® Universal Primer Off White
2. Finish: B66W00111 - DTM Acrylic Coating Gloss Extra White/Tint Base

G. Steel - Painted:

1. Primer touch up: B66W00310 - Pro Industrial Pro-Cryl® Universal Primer Off White
2. Finish: B66W00111 - DTM Acrylic Coating Gloss Extra White/Tint Base

- H. Notify Architect if any of the primer or finish coats specified above is not suitable, or does not match existing painted areas.

END OF SPECIFICATIONS