

ADDENDUM 2

RFB TDD 09-17

Interior Center and West Offices Renovation

This addendum is to provide the contract and specifications for the Interior East Offices Renovation to the Visitors Center. If you have any questions or concerns regarding this, please direct them to the Purchasing Department at 850-689-5960.

CONTRACT, LEASE, AGREEMENT CONTROL FORM

Date: 01/11/2016

Contract/Lease Control #: C16-2359-TDD

Bid #: RFB TDD 79-15

Contract/Lease Type: RENOVATION OF THE OKALOOSA COUNTY VISITORS CENTER

Award To/Lessee: CHAMPION CONTRACTORS, INC.

Lessor: _____

Effective Date: 01/06/2016

Term: 120 DAYS FROM NTP

Description of Contract/Lease: RENOVATION OF THE OKALOOSA COUNTY VISITORS CENTER

Department: TDD

Department Monitor: ED SCHROEDER

Monitor's Telephone #: 850-651-7131

Monitor's FAX # or E-mail: 850-651-7149

Date Closed: _____

cc: Finance Department Contracts & Grants Office



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/15/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Waldorff Insurance & Bonding 45 Eglin Parkway NE Ste 202 Fort Walton Beach FL 32548	CONTACT NAME: Danny Hare		
	PHONE (A/C, No, Ext): 850-581-4925	FAX (A/C, No): 850-581-4930	
E-MAIL ADDRESS: receptionist@waldorffinsurance.com			
INSURER(S) AFFORDING COVERAGE		NAIC #	
INSURED CHAM-03 Champion Contractors, Inc. 5525 Grants Pass Crestview FL 32536	INSURER A: National Trust Insurance Co.		20141
	INSURER B: The FCCI Insurance Company		10178
	INSURER C:		
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 646954368 **REVISION NUMBER:**

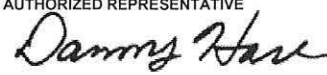
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE		ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/>	COMMERCIAL GENERAL LIABILITY	Y		GL00109346	10/10/2015	10/10/2016	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/>	CLAIMS-MADE						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000
	<input checked="" type="checkbox"/>	OCCUR						MED EXP (Any one person)	\$5,000
								PERSONAL & ADV INJURY	\$1,000,000
								GENERAL AGGREGATE	\$2,000,000
								PRODUCTS - COMP/OP AGG	\$2,000,000
								Empl Benefits	\$1,000,000
								COMBINED SINGLE LIMIT (Ea accident)	\$
								BODILY INJURY (Per person)	\$
								BODILY INJURY (Per accident)	\$
								PROPERTY DAMAGE (Per accident)	\$
									\$
B	<input checked="" type="checkbox"/>	UMBRELLA LIAB			UMB00114366	10/10/2015	10/10/2016	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/>	EXCESS LIAB						AGGREGATE	\$1,000,000
	<input checked="" type="checkbox"/>	RETENTION \$10,000							\$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WC16A66690	6/16/2016	6/16/2017	X PER STATUTE	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)		<input type="checkbox"/> N/A				E.L. EACH ACCIDENT	\$1,000,000
		If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$1,000,000
								E.L. DISEASE - POLICY LIMIT	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Certificate Holder is listed as Additional Insured, when required by written contract, as pertains to General Liability.

06-28-16A08:40 RCVD

2359

CERTIFICATE HOLDER Okaloosa County Board of County Commissioners 602-C North Pearl Street Crestview FL 32536	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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THE AMERICAN INSTITUTE OF ARCHITECTS



AIA Document A311

Performance Bond

This bond is given to comply with Section 255.05 Florida Statutes, and any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes, and Section 255.05(10) Florida Statutes.

KNOW ALL MEN BY THESE PRESENTS: that

(Here insert full name and address or legal title of contractor)

Champion Contractors, Inc., P.O. Box 155, Crestview, FL 32536; Phone 850-423-0238
as Principal, hereinafter called Principal, and,

(Here insert full name and address or legal title of Surety)

Merchants Bonding Company (Mutual), PO Box 14498, Des Moines, IA 50306; Phone 515-243-8171
as Surety, hereinafter called Surety, are held and firmly bound unto

(Here insert full name and address or legal title of Owner)

Okaloosa County , 2602 C- North Pear Street, Crestview, FL 32536; Phone 850-689-5960
as Obligee, hereinafter called Owner, in the amount of

Sixty Two Thousand, Five Hundred Fifty Seven Dollars and 00/100 (\$62,557.00)

for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Contractor has by written agreement dated 01/06/2016 , entered into a contract with Owner for
(Here insert full name, address and description of project)

Project No. IFB# TDD79-15; Renovation of Conference Room Areas and Convert to Offices, Fort Walton Beach, FL

in accordance with Drawings and Specifications prepared by

(Here insert full name and address or legal title of Architect)

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

AIA DOCUMENT A311 - PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND - AIA @
FEBRUARY 1970 ED. - THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 N Y. AVE., N.W., WASHINGTON, D. C. 20006

CONTRACT # C16-2359-TDD
CHAMPION CONTRACTORS
RENOVATION OF OKALOOSA COUNTY
VISITOR'S CENTER
EXPIRES: 120 DAYS FROM NTP

Instr # 3048092 BK: 3235 PG:1034,Page 1 of 2
Recorded 02/15/2016 at 09:58 AM.
RECORDING: \$10.50 RECORDING ARTICLE V: \$8.00

DEPUTY CLERK JALLEN
JD PEACOCK II, CLERK OF COURTS, OKALOOSA COUNTY FL

PERFORMANCE BOND

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

- 1) Complete the Contract in accordance with its terms and conditions, or
- 2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as Work progresses (even though there should be a default or a succession of

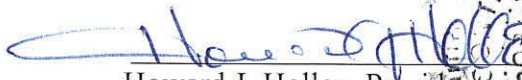
defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

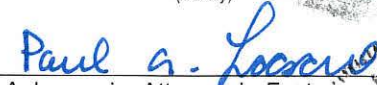
Signed and sealed this 19th day of January, 2016.

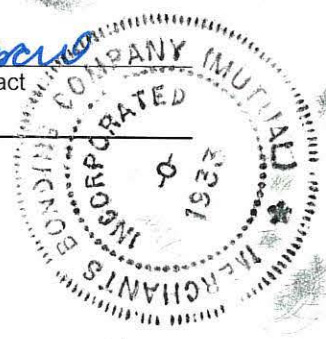
Champion Contractors, Inc.
(Principal)

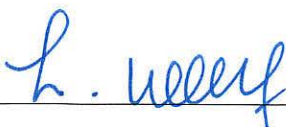

Howard J. Holley, President (Name & Title)



Merchants Bonding Company (Mutual)
(Surety)


Paul A. Locascio, Attorney-in-Fact
& FL Licensed Resident Agent





THE AMERICAN INSTITUTE OF ARCHITECTS



AIA Document A311

Labor and Material Payment Bond

THIS BOND IS ISSUED SIMULTANEOUSLY WITH PERFORMANCE BOND IN FAVOR OF THE OWNER CONDITIONED ON THE FULL AND FAITHFUL PERFORMANCE OF THE CONTRACT

This bond is given to comply with Section 255.05, Florida Statutes, and any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes, and Section 255.05(10) Florida Statutes.

KNOW ALL MEN BY THESE PRESENTS: that as (Here insert full name and address or legal title of contractor)

Champion Contractors, Inc., P.O. Box 155, Crestview, FL 32536; Phone 850-423-0238 as Principal, hereinafter called Principal, and, (Here insert full name and address or legal title of Surety)

Merchants Bonding Company (Mutual), PO Box 14498, Des Moines, IA 50306; Phone 515-243-8171 as Surety, hereinafter called Surety, are held and firmly bound unto (Here insert full name and address or legal title of Owner)

Okaloosa County , 2602 C- North Pear Street, Crestview, FL 32536; Phone 850-689-5960 as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of

Sixty Two Thousand, Five Hundred Fifty Seven Dollars and 00/100 (\$62,557.00) (here insert a sum equal to at least one-half of the contract price)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated 01/06/2016, entered into a contract with Owner for (Here insert full name, address and description of project)

Project No. IFB# TDD79-15; Renovation of Conference Room Areas and Convert to Offices , , Fort Walton Beach, FL in accordance with Drawings and Specifications prepared by (Here insert full name and address or legal title of Architect)

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

AIA DOCUMENT A311 - PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND - AIA @ FEBRUARY 1970 ED. - THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 N Y. AVE., N.W., WASHINGTON, D. C. 20006

CONTRACT # C16-2359-TDD
CHAMPION CONTRACTORS
RENOVATION OF OKALOOSA COUNTY VISITOR'S CENTER
EXPIRES: 120 DAYS FROM NTP

Instr # 3048093 BK: 3235 PG:1036,Page 1 of 3
Recorded 02/15/2016 at 09:58 AM.
RECORDING: \$15.00 RECORDING ARTICLE V: \$12.00

DEPUTY CLERK JALLEN
JD PEACOCK II, CLERK OF COURTS, OKALOOSA COUNTY, FL

LABOR AND MATERIAL PAYMENT BOND

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions

1. A claimant is defined as one having a direct contract with the Principal or, with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant:

a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial

accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail; postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

b) After the expiration of one 1) year following the date on which Principal ceased Work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, or in the United States District Court for the district in which the Project, or any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien 'be presented under and against this bond.

Signed and sealed this 19th day of January, 2016.

Champion Contractors, Inc.

(Principal)

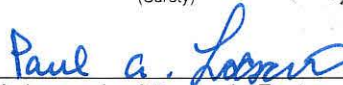


Howard J. Holley, President

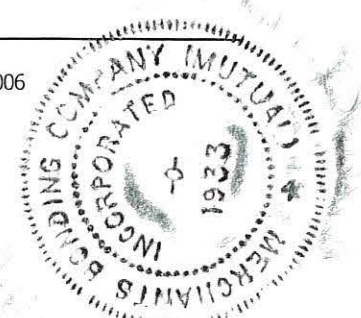
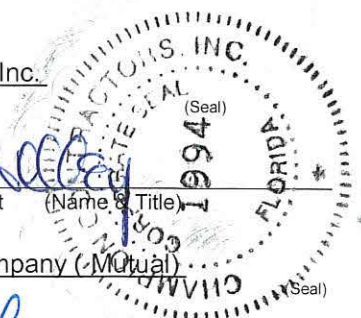
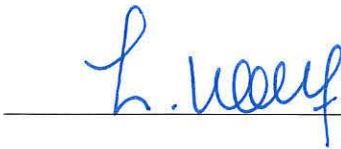
(Name & Title)

Merchants Bonding Company (Mutual)

(Surety)



Paul A. Locascio, Attorney-in-Fact
& FL Licensed Resident Agent



MERCHANTS BONDING COMPANY™ POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

**Benjamin H French; Clyde D Hare; K Wayne Walker; L Dale Waldorff; Pamela L Jarman;
Paul A Locascio; Rebekah G Wolf**

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

FIVE MILLION (\$5,000,000.00) DOLLARS

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

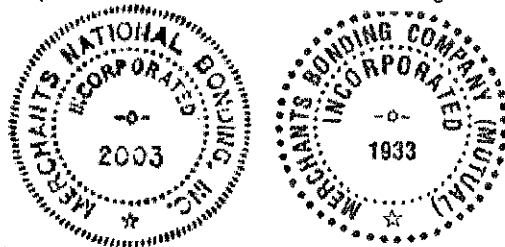
"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 30th day of December, 2015.



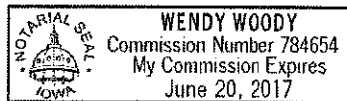
MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*

President

STATE OF IOWA
COUNTY OF Dallas ss.

On this 30th day of December, 2015, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

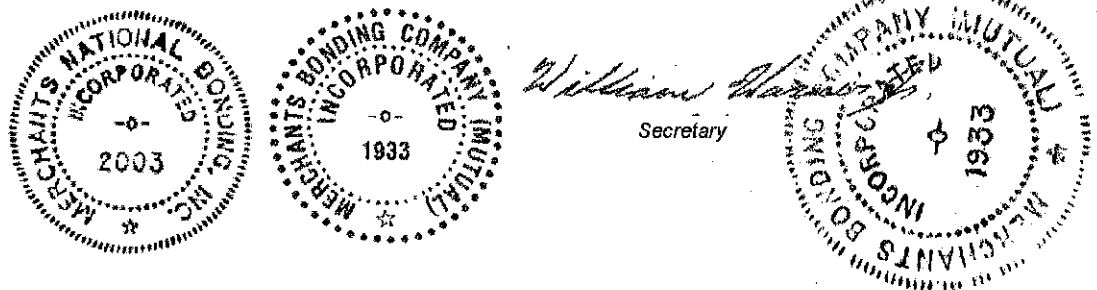


Wendy Woody
Notary Public, Rolt County, Iowa

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 19th day of January, 2016.





CERTIFICATE OF LIABILITY INSURANCE

CHAM-03 OP ID: CG

DATE (MM/DD/YYYY)
10/07/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Waldorff Ins & Bonding - FWB 45 Eglin Parkway NE, Ste 202 Fort Walton Beach, FL 32548 Danny Hare	CONTACT NAME: Danny Hare		
	PHONE (A/C, No, Ext): 850-581-4925	FAX (A/C, No): 850-581-4930	
E-MAIL ADDRESS: receptionist@waldorffinsurance.com			
INSURED Champion Contractors, Inc. P.O. Box 155 Crestview, FL 32536	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: National Trust Insurance Co.		20141
	INSURER B: The FCCI Insurance Company		10178
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDITIONAL INSURED	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	<input checked="" type="checkbox"/>	GL00109346	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000 COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS					SCHEDULED AUTOS NON-OWNED AUTOS E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE		UMB00114366	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 DED <input checked="" type="checkbox"/> RETENTION \$ 10000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N / A	WC15A66690	06/16/2015	06/16/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is listed as Additional Insured, when required by written contract, as pertains to General Liability.

CERTIFICATE HOLDER**CANCELLATION**

OKALB01	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Okaloosa County Board of County Commissioners 602-C North Pearl Street Crestview, FL 32536	AUTHORIZED REPRESENTATIVE <i>Danny Hare</i>

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CONTINUATION SHEET

Okaloosa County Visitors Ctr Renovation

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: _____
 APPLICATION DATE: _____
 PERIOD TO: _____
 PROJECT NO.: _____
 CONTRACT DATE: _____

Item No.	Description of Work	Scheduled Value	Adjustments	Revised Values	WORK COMPLETED		Stored Materials	Total Completed & Stored to Date	% Complete	Balance to Finish	Retainage
					Previous Application	This Application					
A	B	C	C-1	C-2	D	E	F	G(D+E+F)		H(C-G)	I
1	Bond & Insurance	763.20	\$0.00	\$763.20	0.00	0.00	\$0.00	\$0.00	0.00%	\$763.20	\$0.00
2	Mobilization, Permit & Field Meas.	3,753.42	\$0.00	\$3,753.42	0.00	0.00	\$0.00	\$0.00	0.00%	\$3,753.42	\$0.00
	DEMOLITION AND REMOVAL					0.00					
3	Demo/Removal Existing Interior Finishes	4,554.15	\$0.00	\$4,554.15	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$4,554.15	\$0.00
4	Demo/Removal - Mechanical	1,251.14	\$0.00	\$1,251.14	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
5	Demo/Removal - Electrical	1,251.14	\$0.00	\$1,251.14	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
	ROUGH & FINISH CARPENTRY										
6	Interior Wall Framing	3,127.85	\$0.00	\$3,127.85	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$3,127.85	\$0.00
7	Wooden Base Boards	1,251.14	\$0.00	\$1,251.14	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
	THERMAL/MOISTURE PROTECTION										
8	Batt Insulation @ New Ceiling and Walls	2,502.28	\$0.00	\$2,502.28	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$2,502.28	\$0.00
9	Sound Barrier Board @ New Walls	2,502.28	\$0.00	\$2,502.28	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$2,502.28	\$0.00
	DOORS AND WINDOWS										
10	Hollow Metal Door Frames	3,127.85	\$0.00	\$3,127.85	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$3,127.85	\$0.00
11	Wood Doors & Hardware	4,378.99	\$0.00	\$4,378.99	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$4,378.99	\$0.00
12	Window (Fixed) Insulated w/Dual Pane	1,251.14	\$0.00	\$1,251.14	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
	FINISHES										
13	Gypsum Wallboard	5,004.56	\$0.00	\$5,004.56	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$5,004.56	\$0.00
14	2 x 2 Lay-In Ceiling	5,004.56	\$0.00	\$5,004.56	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$5,004.56	\$0.00
15	Carpet	5,630.13	\$0.00	\$5,630.13	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$5,630.13	\$0.00
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	MECHANICAL										
18	Mobilization	1,251.14	\$0.00	\$1,251.14	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
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	DEMOBILIZATION										
25	Final Cleaning/Demobilization	312.78	\$0.00	\$312.78	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$312.78	\$0.00
	Totals	62,557.00	0.00	62,557.00	0.00	0.00	0.00	0.00	0.00	62,557.00	0.00

CONTINUATION SHEET

Okaloosa County Visitors Ctr Renovation

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.

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					Previous Application	This Application					
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5	Demo/Removal - Electrical	1,251.14	\$0.00	\$1,251.14	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
ROUGH & FINISH CARPENTRY											
6	Interior Wall Framing	3,127.85	\$0.00	\$3,127.85	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$3,127.85	\$0.00
7	Wooden Base Boards	1,251.14	\$0.00	\$1,251.14	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$1,251.14	\$0.00
THERMAL/MOISTURE PROTECTION											
8	Batt Insulation @ New Ceiling and Walls	2,502.28	\$0.00	\$2,502.28	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$2,502.28	\$0.00
9	Sound Barrier Board @ New Walls	2,502.28	\$0.00	\$2,502.28	0.00	\$0.00	\$0.00	\$0.00	0.00%	\$2,502.28	\$0.00
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Totals		62,557.00	0.00	62,557.00	0.00	0.00	0.00	0.00	0.00	62,557.00	0.00

CONTINUATION SHEET

Okaloosa County Visitors Ctr Renovation

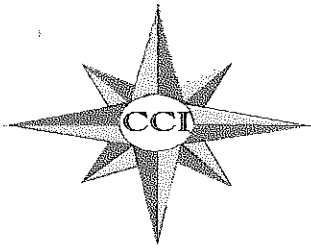
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	Totals	62,557.00	0.00	62,557.00	0.00	0.00	0.00	0.00	0.00	62,557.00	0.00



CHAMPION CONTRACTORS, INC.

P.O. Box 155
CRESTVIEW, FLORIDA 32536
850-423-0235/0238
FAX 850-423-0480

GENERAL CONTRACTOR LICENSE - CG-C058382

Stokes Architectural, Inc.
9 Miracle Strip Parkway S.W.
Ft. Walton Beach, FL 32548

20 January 2016

Attn: Mr. J.R. Stokes, Project Architect

RE: Okaloosa County Visitors Center Renovation

Subj: Appointment of Project Management

Mr. Stokes

The personnel listed below will serve in the positions as follows. Contact information is also provided.

Project Manager:

Howard Holley
(850) 423-0235 - Cell: (850) 259-7542

Assistant Project Manager/Superintendent:

Roy Curtis
Cell: (850) 259-6070

You will be notified in writing of any changes in these appointments.

Sincerely,

HOWARD J. HOLLEY
President



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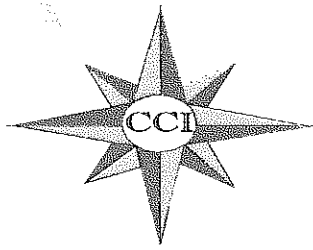
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20 January 2016

Attn: Mr. J.R. Stokes, Project Architect

RE: Okaloosa County Visitors Center Renovation

Subj: Assignment of Emergency Medical Facility

Mr. Stokes

In the event of medial emergencies we will refer to 911. Situations requiring general medical attention will be referred to the following Medical Facility which has been identified as being the closest in proximity to the work being performed.

Fort Walton Beach Medical Center
1000 Mar-waltz Drive
Ft. Walton Beach, Florida
(850) 862-1111

You will be notified in writing of any changes.

Sincerely,

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President



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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/07/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Waldorff Ins & Bonding - FWB 45 Eglin Parkway NE, Ste 202 Fort Walton Beach, FL 32548 Danny Hare	CONTACT NAME: Danny Hare PHONE (A/C, No, Ext): 850-581-4925 E-MAIL ADDRESS: receptionist@waldorffinsurance.com FAX (A/C, No): 850-581-4930													
	<table border="1"> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A : National Trust Insurance Co.</td> <td>20141</td> </tr> <tr> <td>INSURER B : The FCCI Insurance Company</td> <td>10178</td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : National Trust Insurance Co.	20141	INSURER B : The FCCI Insurance Company	10178	INSURER C :		INSURER D :		INSURER E :		INSURER F :
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INSURED Champion Contractors, Inc. P.O. Box 155 Crestview, FL 32536														

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X		GL00109346	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10000			UMB00114366	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC15A66690	06/16/2015	06/16/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Certificate Holder is listed as Additional Insured, when required by written contract, as pertains to General Liability.

CERTIFICATE HOLDER OKALB01 Okaloosa County Board of County Commissioners 602-C North Pearl Street Crestview, FL 32536	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Danny Hare</i> 2359
--	--

NOTICE TO PROCEED

DATE: January 11, 2016

TO:

Champion Contractors, Inc.
Howard Holley
P.O. Box 155
5525 Grants Pass
Crestview, FL 32536

PROJECT: Renovation of Okaloosa County Visitors Center
DESCRIPTION: RFB TDD 79-15 Contract C16-2359-TDD

You are hereby notified to commence WORK in accordance with the Agreement dated 01-06-2016. The contract is in effect as of 01-06-2016.

You are required to return an acknowledged copy of this **NOTICE TO PROCEED** to the **OWNER**: Okaloosa County Purchasing, Attention: Sunnie Estes, 602-C North Pearl St, Crestview, FL 32536, within 15 days.

Dated this 22 day of January, 2016

OKALOOSA COUNTY BOARD OF COUNTY COMMISSIONERS
OWNER

BY: Zan Fedorak
Zan Fedorak

TITLE: Purchasing Manager

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE TO PROCEED** is hereby acknowledged.

CHAMPION CONTRACTORS, INC.
Company Name

This the 22 day of January, 2016

Howard Holley
Signature

By: Howard Holley
Type or Print Name

Title: President

CONTRACT# C16-2359-TDD
CHAMPION CONTRACTORS, INC.
RENOVATION OF OKALOOSA COUNTY
VISITORS CENTER
EXPIRES: 120 DAYS FROM NTP

NOTICE OF AWARD

TO:

Champion Contractors, Inc.
Howard Holley
P.O. Box 155
5525 Grants Pass
Crestview, FL 32536

PROJECT: Renovation of the Okaloosa County Visitors Center
DESCRIPTION: RFB TDD 79-15 Contract# C16-2359-TDD

The **OWNER** has considered the qualifications submitted by you for the above-described WORK in response to its Advertisement.

You are hereby notified that your **contract** has been accepted for items in the amounts of specified within the contract.

You are required to return an acknowledged copy of this **NOTICE OF AWARD** to the **OWNER**: Okaloosa County Purchasing, ATTN: Sunnie Estes, 602-C North Pearl St., Crestview, FL 32536. If you have any questions, please call Sunnie Estes at 850-689-5960.

Dated this 11 day of January, 2016

OWNER – OKALOOSA COUNTY BOARD OF COUNTY COMMISSIONERS-

BY: Zan Fedorak TITLE Purchasing Manager
Zan Fedorak

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE OF AWARD** is hereby acknowledged.

BY: Howard J. Holley

This the 12th day of January, 2016.

BY: Howard J. Holley

Title: President

CONTRACT# C16-2359-TDD
CHAMPION CONTRACTORS, INC.
RENOVATION OF OKALOOSA COUNTY
VISITORS CENTER
EXPIRES: 120 DAYS FROM NTP



CERTIFICATE OF LIABILITY INSURANCE

CHAM-03 OP ID: CG

DATE (MM/DD/YYYY)
10/07/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Waldorff Ins & Bonding - FWB 45 Eglin Parkway NE, Ste 202 Fort Walton Beach, FL 32548 Danny Hare	CONTACT NAME: Danny Hare PHONE (A/C, No, Ext): 850-561-4925 FAX (A/C, No): 850-561-4930 E-MAIL: ADDRESS: receptionist@waldorffinsurance.com
	INSURER(S) AFFORDING COVERAGE
INSURED	INSURER A: National Trust Insurance Co. NAIC # 20141
	INSURER B: The FCCI Insurance Company 10178
	INSURER C:
	INSURER D:
	INSURER E:

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF	POLICY EXP	LIMITS
CTR		INSR	IND		(MM/DD/YYYY)	(MM/DD/YYYY)	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOG OTHER:		X	GLB0105346	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10000			UMB00114366	10/10/2015	10/10/2016	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WVC15A56690	06/16/2015	06/16/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Certificate Holder is listed as Additional Insured, when required by written contract, as pertains to General Liability.

CERTIFICATE HOLDER OKALB01 Okaloosa County Board of County Commissioners 602-C North Pearl Street Crestview, FL 32536	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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USER NAME PASSWORD

[Forgot Username?](#) [Forgot Password?](#)

[Create an Account](#)

Entity Dashboard

- [Entity Overview](#)
- [Entity Record](#)
- [Core Data](#)
- [Assertions](#)
- [Reps & Certs](#)
- [POCs](#)
- [Reports](#)
- [Service Contract Report](#)
- [BioPreferred Report](#)
- [Exclusions](#)
- [Active Exclusions](#)
- [Inactive Exclusions](#)
- [Excluded Family Members](#)

[RETURN TO SEARCH](#)

Champion Contractors, Inc. 5525 GRANTS PASS
 DUNS: 788137495 CAGE Code: 0TRZ0 CRESTVIEW, FL, 32536-9530 ,
 Status: Active UNITED STATES

Expiration Date: 08/24/2016
 Purpose of Registration: All Awards

Entity Overview

Entity Information

Name: Champion Contractors, Inc.
Business Type: Business or Organization
POC Name: Howard Holley
Registration Status: Active
Activation Date: 08/25/2015
Expiration Date: 08/24/2016

Exclusions

Active Exclusion Records? No

SAM | System for Award Management 1.0

IBM v1.P.41.20151230-2151

WWW6



Note to all Users: This is a Federal Government computer system. Use of this system constitutes consent to monitoring at all times.

CONTRACT# C16-2359-TDD
CHAMPION CONTRACTORS, INC.
RENOVATION OF OKALOOSA COUNTY
VISITORS CENTER
EXPIRES: 120 DAYS FROM NTP

CERTIFIED A TRUE
AND CORRECT COPY

JD PEACOCK II
CLERK CIRCUIT COURT

BY Jessica Ward
DEPUTY CLERK



CONTRACT
RFB TDD 79-15

DATE Jan. 8, 2016

Okaloosa County Visitors Center Interior Renovation

This Contract executed and entered into this 8th day of January, ~~2015~~, ²⁰¹⁶, between Okaloosa County, Florida, (hereinafter the "County"), whose principal address is 1250 N. Eglin Parkway, Shalimar FL 32579, and Champion Contractors, Inc, whose principal address is P.O. Box 155, 5525 Grants Pass, Crestview, FL 32536 (hereinafter the "Contractor"), and states as follows:

*Ward
BCC Records*

WITNESSETH:

• **Incorporation of Documents**

The following documents are incorporated by reference into this Contract and are attached as Exhibit "A":

- Request for Bids & Respondents Acknowledgment/Contractor's Submittal, RFB TDD 79-15 Okaloosa County Visitors Center Interior Renovations, due date November 18th, 2015 and any addendums thereto.

All terms within the above referenced documents are in full force and effect and shall be binding upon both parties.

• **Scope of Services**

For good and valuable consideration the sufficiency of which is acknowledged by all parties, the Contractor agrees to renovate an existing 904 sq. ft. meeting room and convert it into four (4) small offices and a conference room. The Contractor also agrees to provide labor, materials, necessary permit(s), machinery, tools, equipment and other means of construction necessary and incidental to the completion of work indicated by the County as set forth in the drawings and described in the specifications as set forth in attached Exhibit "A". All additional work or cost to this project must be addressed during the construction and may be submitted for approval by Change Order. Documentation of the additional work or cost must be accompanied by Change Order.

• **Payment**

For and in consideration of payments to be made by the County, the Contractor agrees to be paid in accordance with the stipulations outlined in Section 01150 and pricing in attached Exhibit "A".

• **Duration of Contract and Termination, Suspension or Delay of Contract**

The Contract will begin when fully executed by both parties and will continue for duration of 120 days from issuance of Notice to Proceed.

Either party may terminate the Contract with or without cause by providing sixty (60) days written notice to the other party.

- **Notice**

All notices required by this Contract shall be in writing to the representatives listed below:

The authorized representative of the County shall be:

Jim Trifilio, Coast Management Coordinator
Emerald Coast Convention & Visitors Bureau
1540 Miracle Strip Pkwy. SE.
Fort Walton Beach, FL 32548
Phone: 850-651-7131
Email: jtrifilio@co.okaloosa.fl.us

The authorized representative for 'Vendor/Contractor' shall be:

Howard Holley, President
Champion Contractors, Inc.
P.O. Box 155
5525 Grants Pass
Crestview, FL 32536

Courtesy copy to:

Sunnie Estes
Contracts & Leases Coordinator
Okaloosa County Purchasing Department
602 C North Pearl St
Crestview, FL 32536
Phone: 850-689-5960
Fax: 850-689-5970
Email: sestes@co.okaloosa.fl.us

Any party shall have the right, from time to time, to change the address to which notices shall be sent by giving the other party at least five (5) business days prior notice of the address change.

- **Governing Law & Venue**

This Contract shall be governed by and construed in accordance with the laws of the State of Florida, and the parties stipulate that venue shall be in the County of Okaloosa.

- **Public Records**

Any record created by either party in accordance with this Contract shall be retained and maintained in accordance with the public records law, Florida Statutes, Chapter 119.

- **Assignment**

Contractor may not assign his interest in this Contract without the express written consent of the County, which will not be unreasonably withheld.

- **Entire Contract & Waivers**

This Contract and Exhibit "A" as incorporated herein, contains the entire agreement between the parties and supersedes all prior oral or written agreements. Contractor acknowledges that it has not relied upon any statement, representation, prior or contemporaneous written or oral promises, agreements or warranties, except such as are expressed herein. The terms and conditions of this Contract can only be amended in writing upon mutual agreement of the parties and signed by both parties.

The waiver by a party of any breach or default in performance shall not be deemed to constitute a waiver of any other or succeeding breach or default. The failure of the County to enforce any of the provisions hereof shall not be construed to be a waiver of the right of the County thereafter to enforce such provisions.

- **Severability**

If any term or condition of this Contract shall be deemed, by a court having appropriate jurisdiction, invalid or unenforceable, the remainder of the terms and conditions of this Contract shall remain in full force and effect. This Contract shall not be more strictly construed against either party hereto by reason of the fact that one party may have drafted or prepared any or all the terms and provisions hereof.

- **Independent Contractor**

Contractor enters into this Agreement as, and shall continue to be, an independent contractor. All services shall be performed only by Contractor and Contractor's employees. Under no circumstances shall Contractor or any of Contractor's employees look to the County as his/her employer, or as partner, agent or principal. Neither Contractor, nor any of Contractor's employees or agents, shall be entitled to any benefits accorded to the County's employees, including without limitation worker's compensation,

disability insurance, vacation or sick pay. Contractor shall be responsible for providing, at Contractor's expense, and in Contractor's name, unemployment, disability, worker's compensation and other insurance as well as licenses and permits usual and necessary for conducting the services to be provided under this Contract.

- **Third Party Beneficiaries**

It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of the Agreement to create in the public or any member thereof, a third party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

IN WITNESS WHEREOF, the parties hereto have made and executed this Contract on the respective dates under each signature.

OKALOOSA COUNTY



Charles K. Windes, Jr.
Nathan D. Boyles, Chairman
Charles K. Windes, Jr. *82065*
Date: 1 / 6 / 16 *12-23-15*

ATTEST:

Samy J. Stanford
I.D. Peacock, II, Clerk and Comptroller



CONTRACTOR

Champion Contractors, Inc.

Howard Holley
Howard Holley, President

Vendor/Contractor Representative.

Date: 12 / 09 / 2015

WITNESSES FOR CONTRACTOR

Angela Holley 12/9/15
By: *[Signature]*

Deborah L. Moman 12/9/15
By: *[Signature]*

ORIGINAL

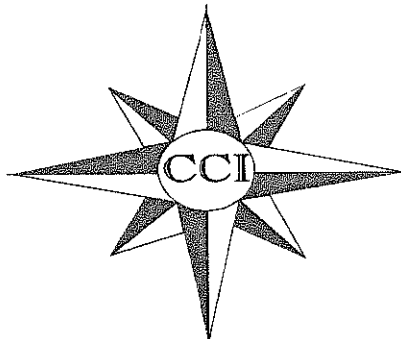
**OKALOOSA COUNTY
BOARD OF COUNTY COMMISSIONERS**

*Okaloosa County Visitors Center
Interior Renovations*

Cost Proposal Submitted By:

CHAMPION CONTRACTORS, INC.

**P.O. Box 155
5525 Grants Pass
Crestview, Florida 32536**



OKALOOSA COUNTY VISITORS CENTER
INTERIOR RENOVATION
FORT WALTON BEACH, FLORIDA



ORIGINAL

REQUEST FOR BID (RFB) & RESPONDENT'S ACKNOWLEDGEMENT

RFB TITLE:

Okaloosa County Visitors Center - Interior Renovation

RFB NUMBER:

RFB - TDD79-15

LAST DAY FOR QUESTIONS:

October 30, 2015 @ 10:00 A.M. CT

BID OPENING DATE & TIME:

November 11, 2015 @ 2:00 P.M. CT

NOTE: BIDS RECEIVED AFTER THE BID OPENING DATE & TIME WILL NOT BE CONSIDERED.

Okaloosa County, Florida solicits your company to submit a bid on the above referenced goods or services. All terms, specifications and conditions set forth in this RFB are incorporated into your response. A bid will not be accepted unless all conditions have been met. All bids must have an authorized signature in the space provided below. All bids must be sealed and received by the Okaloosa County Clerk of Court by the "Bid Opening Date & Time" referenced above. The official clock for the purpose of receiving bids is located in the Clerk of Court, Brackin Building Conference & Training Room, #305 located at 302 N. Wilson St, Crestview, FL 32536. All envelopes containing sealed bids must reference the "RFB Title", "RFB Number" and the "Bid Opening Date & Time". Okaloosa County is not responsible for lost or late delivery of bids by the U.S. Postal Service or other delivery services used by the respondent. Neither faxed nor electronically submitted bids will be accepted. Bids may not be withdrawn for a period of sixty (60) days after the bid opening unless otherwise specified.

RESPONDENT ACKNOWLEDGEMENT FORM BELOW MUST BE COMPLETED, SIGNED, AND RETURNED AS PART OF YOUR BID. BIDS WILL NOT BE ACCEPTED WITHOUT THIS FORM, SIGNED BY AN AUTHORIZED AGENT OF THE RESPONDENT.

COMPANY NAME Champion Contractors, Inc.

MAILING ADDRESS P.O. Box 155

CITY, STATE, ZIP Crestview, Florida 32536

FEDERAL EMPLOYER'S IDENTIFICATION NUMBER (FEIN): 59-3267757

TELEPHONE NUMBER: (850) 423-0235 EXT: _____ FAX: (850) 4230480

EMAIL: howard@cci.gccoxmail.com

I CERTIFY THAT THIS BID IS MADE WITHOUT PRIOR UNDERSTANDING, AGREEMENT, OR CONNECTION WITH ANY OTHER RESPONDENT SUBMITTING A BID FOR THE SAME MATERIALS, SUPPLIES, EQUIPMENT OR SERVICES, AND IS IN ALL RESPECTS FAIR AND WITHOUT COLLUSION OR FRAUD. I AGREE TO ABIDE BY ALL TERMS AND CONDITIONS OF THIS BID AND CERTIFY THAT I AM AUTHORIZED TO SIGN THIS BID FOR THE RESPONDENT.

AUTHORIZED SIGNATURE:  TYPED OR PRINTED NAME Howard Holley

TITLE: President

DATE 18 Nov 2015

Rev. September 22, 2014

REQUEST FOR BIDS

THE AMERICAN INSTITUTE OF ARCHITECTS



AIA Document A310

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we

Champion Contractors, Inc., P.O. Box 155, Crestview, FL 32536
as Principal, hereinafter called the Principal, and

Merchants Bonding Company (Mutual), PO Box 14498, Des Moines, IA 50306
a corporation duly organized under the laws of the State of Iowa as Surety, hereinafter called the Surety, are held and firmly bound unto

Okaloosa County, 2602 C-North Pear Street, Crestview, FL 32536
as Obligee, hereinafter called the Obligee, in the sum of FIVE Percent of the amount bid

Dollars (\$)

for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

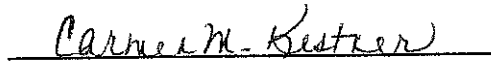
WHEREAS, the Principal has submitted a bid for
Renovation of Conference Room Areas and Convert to Offices

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 11th day of November, 2015.

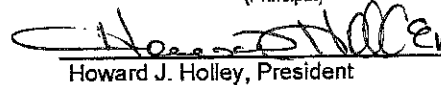


(Witness)



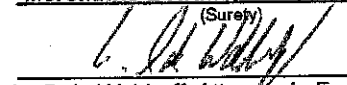
(Witness)

Champion Contractors, Inc.
(Principal) (Seal)



Howard J. Holley, President

Merchants Bonding Company (Mutual)
(Surety) (Seal)



L. Dale Waldorff, Attorney-in-Fact
& Florida Licensed Resident Agent

MERCHANTS
BONDING COMPANY, INC.
POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

**Benjamin H French; Clyde D Hare; K Wayne Walker; L Dale Waldorff; Pamela L Jarman;
 Paul A Locascio; Rebekah Wolf**

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of

FIVE MILLION (\$5,000,000.00) DOLLARS

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

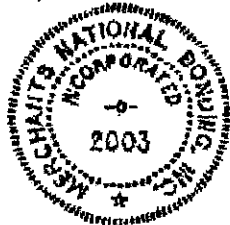
"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner, Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 15th day of August, 2015.



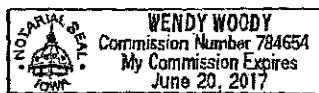
MERCHANTS BONDING COMPANY (MUTUAL)
 MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*

President

STATE OF IOWA
 COUNTY OF Dallas ss.

On this 15th day of August, 2015, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

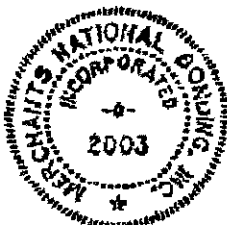


Wendy Woody
 Notary Public, Polk County, Iowa

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 11th day of November, 2015.



William Warner Jr.
 Secretary

**OKALOOSA COUNTY VISITORS CENTER
INTERIOR RENOVATION
FORT WALTON BEACH, FLORIDA**

PROJECT MANUAL

June 12, 2015



BID #: RFB-TDD79-15

BID OPENS: November 11, 2015 @ 2:00 P.M.

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Board of County Commissioners Purchasing Department

State of Florida

NOTICE TO BIDDERS

OKALOOSA COUNTY VISITORS CENTER - INTERIOR RENOVATION RFB TDD79-15

Notice is hereby given that the Board of County Commissioners of Okaloosa County, FL, will accept sealed bids until **2:00 p.m. (CST) November 11th, 2015**, for the Okaloosa County Visitors Center - Interior Renovation Project, at which time and place all bids will be opened and read aloud. Bids must be submitted in a sealed envelope clearly marked "BID ENCLOSED - OKALOOSA COUNTY VISITORS CENTER - INTERIOR RENOVATION."

Interested respondents desiring consideration shall provide an original and two (2) copies (total three (3)) of their Request for Bids (RFB) response with the respondent's areas of expertise identified. Submissions shall be portrait orientation, unbound, and 8 ½" x 11" where practical. **All originals must have original signatures in blue ink.** Bid documents are available for download by accessing the Okaloosa County website at <http://www.co.okaloosa.fl.us/purchasing/home> then accessing the link "View Current Solicitations" or by accessing the Florida Purchasing Group website at <http://www.floridabidsystem.com/Bids/ViewOpenSolicitations.asp>

Pre-Bid Meeting - Prospective Bidders are strongly encouraged to attend a non-mandatory pre-bid meeting on **October 27th, 2015 at 10:00 AM** (local time) at the project site, 1540 Miracle Strip Parkway SE (Hwy 98), Fort Walton Beach, FL 32547. The Pre-Bid meeting will include a general review of the construction drawings and specifications and site visit.

At **2:00 p.m. (CST), November 11th, 2015**, all bids will be opened and read aloud. All bids must be in sealed envelopes reflecting on the outside thereof the Respondent's name and "**Okaloosa County Visitors Center Interior Renovation**". The Board of County Commissioners will consider all bids properly submitted at its scheduled bid opening in the **Conference & Training Room #305 – (old First National Bank Bldg.)** located at 302 N. Wilson St, Crestview, FL 32536. Bids may be submitted in the Conference & Training Room #305 prior to bid opening or delivered to the Clerk of Circuit Court, 302 N. Wilson St., #203, Crestview, FL 32536. **NOTE: Crestview, FL is not a next day guaranteed delivery location by most delivery services.** Respondents using mail or delivery services assume all risks of late or non-delivery.

The County reserves the right to award the bid to the lowest responsive respondent and to waive any irregularity or technicality in bids received. Okaloosa County shall be the sole judge of the bid and the resulting negotiated agreement that is in its best interest and its decision shall be final.

Any Respondent failing to mark outside of the envelope as set forth herein may not be entitled to have their bid considered.

All bids should be addressed as follows:

Okaloosa County Visitors Center Interior Renovation
Clerk of Circuit Court
Attn: Teresa Ward
Newman C. Brackin Bldg.
302 N. Wilson St. # 203
Crestview FL 32536

Zan Fedorak
Purchasing Manager

Date

OKALOOSA COUNTY
BOARD OF COUNTY COMMISSIONERS
Nathan D. Boyles
Chairman

BID REQUIREMENTS

- 1. PROJECT DESCRIPTION** – This project consist of all labor, materials, machinery, tools, equipment and other means of construction necessary and incidental to the completion of work indicated on the drawings and described in these specifications including, but not limited to the following:
- A. Interior Renovation of an existing 904 sq. ft. meeting room being converted into 4 small offices and a conference room. See drawings for any other related work.

2. PRE-BID ACTIVITY -

Pre-Bid Meeting - Prospective Bidders are strongly encouraged to attend a non-mandatory pre-bid meeting on October 27, 2015 at 10:00 AM (local time) at the project site, 1540 Miracle Strip Parkway SE (Hwy 98), Fort Walton Beach, FL 32547. The Pre-Bid meeting will include a general review of the construction drawings and specifications and site visit.

Addendum - Except as provided in this section, respondents are prohibited from contacting or lobbying the County, County Administrator, Commissioners, County staff, and Review Committee members, or any other person authorized on behalf of the County related or involved with the solicitation. Any inquiries on the scope of work, specifications, additional requirements, attachments, terms and general conditions or instructions, or any issue must be directed in writing to, by US mail or email to:

Okaloosa County Purchasing Department
602 C North Pearl Street
Crestview, FL 32536
Email: sestes@co.okaloosa.fl.us
(850) 689-5960

Stokes Architectural, Inc.
9 Miracle Strip Parkway SW
Fort Walton Beach, FL 32548
Email: jr@stokesai.com
(850) 664-2220

All questions or inquiries must be received no later than the last day for questions (reference RFB & Respondent's Acknowledgement form). Any addenda or other modification to the bid documents will be issued by the County five (5) business days prior to the date and time of bid closing, as a written addenda distributed to all prospective respondents by posting to the Florida Online Bid System (Florida Purchasing Group) and the Okaloosa County website. To access the Florida Online Bid System go to: www.floridabidsystem.com. To access the Okaloosa County Web Site go to: <http://www.co.okaloosa.fl.us/purchasing/current-solicitations>.

Such written addenda or modification shall be part of the bid documents and shall be binding upon each respondent. Each respondent is required to acknowledge receipt of any and all addenda in writing and submit with their bid. No respondent may rely upon any verbal modification or interpretation.

3. QUALIFICATIONS -

The respondent shall have maintained continual work experience for a period of five (5) years prior to the bid date. Respondent must submit written documentation with bid substantiating the experience requirements.

Any one of the following documents are acceptable:

1. Copies of state or county licenses showing date business opened.
2. Copy of incorporation papers showing date of opening.
3. A notarized statement affirming the opening date of business.
4. A notarized statement affirming previous years of experience of the principals of the firm.

The respondent shall have a place of business for contact by the Okaloosa County staff during normal working days, Monday through Friday.

The County reserves the right to disqualify any bid that does not provide clear descriptive information.

Selection preference will favor the respondent with the lowest price, most experience and most responsive bid.

- 4. PREPARATION OF BID** – The bid form is included with the bid documents. Additional copies may be obtained from the County. The respondent shall submit an original and three (3) copies {total four (4)} of the bid documents.

All blanks in the bid documents shall be completed by printing in ink or by typewriter in both words and numbers with the amounts extended, totaled and the bid signed. A bid price shall be indicated for each section, bid item, alternative, adjustment unit price item, and unit price item listed therein, or the words “No Bid”, “No Change”, or “Not Applicable” entered. No changes shall be made to the phraseology of the form or in the items mentioned therein. In case of any discrepancy between the written amount and the numeric figures, the written amount shall govern. Any bid which contains any omissions, erasures, alterations, additions, irregularities of any kind, or items not called for which shall in any manner fail to conform to the conditions of public notice inviting bids may be rejected.

- A bid submitted by a corporation shall be executed in the corporate name by the president or a vice president or other corporate officer who has legal authority to sign.
- A bid submitted by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature). The official address of the partnership shall be shown below the signature.
- A bid submitted by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm must be shown below the signature.
- A bid submitted by an individual shall show the respondent’s name and official address.
- A bid submitted by a joint venture shall be executed by each joint venture in the manner indicated on the bid form. The official address of the joint venture must be shown below the signature.

All signatures shall be in blue ink. All names shall be typed or printed below the signature.

The bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the form. The address and telephone # for communications regarding the bid shall be shown.

If the respondent is an out-of-state corporation, the bid shall contain evidence of respondent’s authority and qualification to do business as an out-of-state corporation in the State of Florida in accordance with Article 3. State contractor license # for the State of Florida shall also be shown on the bid form.

Respondent shall be licensed in accordance with the requirements of Chapter 489 Florida Statutes.

- 5. INTEGRITY OF BID DOCUMENTS** - Respondents shall use the original Bid documents provided by the Purchasing Department and enter information only in the spaces where a response is requested. Respondents may use an attachment as an addendum to the Bid documents if sufficient space is not available. Any modifications or alterations to the original bid documents by the respondent, whether intentional or otherwise, will constitute grounds for rejection of a bid. Any such modifications or alterations that a respondent wishes to propose must be clearly stated in the respondent’s response in the form of an addendum to the original bid documents.

- 6. SUBMITTAL OF BID** – A bid shall be submitted no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in an opaque sealed envelope plainly marked with the project title (and, if applicable, the designated portion of the project for which the bid is submitted), the name and address of the respondent, and shall be accompanied by the bid security and other required documents. It is the respondent's responsibility to assure that its bid is delivered at the proper time and place. Offers by telegram, facsimile, or telephone will **NOT** be accepted.

Note: Crestview is not a next day delivery site for overnight carriers.

- 7. MODIFICATION & WITHDRAWAL OF BID** - A bid may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted prior to the date and time for the opening of bids.

If within 24 hours after bids are opened any respondent files a duly signed written notice with the County and promptly thereafter demonstrates to the reasonable satisfaction of the County that there was a material substantial mistake in the preparation of its bid, that respondent may withdraw its bid, and the bid security may be returned. Thereafter, if the work is rebid, that respondent will be disqualified from 1) further bidding on the work, and 2) doing any work on the contract, either as a subcontractor or in any other capacity.

Bids having erasures or corrections must be initialed in ink by the Respondent. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it and initial the correction. Any illegible entries, pencil bids or corrections not initialed may not be accepted.

On the event a mathematical extension error(s), the unit price will prevail and the respondent's total offer will be corrected accordingly. In the event of addition errors, the extended line item will prevail and the respondent's total will be corrected accordingly.

Respondents shall not be allowed to modify their bids after the bid opening time and date.

Respondent represents that it has taken all necessary steps to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the performance of the work, including: (i) conditions relating to the access, egress, transportation, debris disposal, parking, and storing of material; (ii) availability of labor; (iii) physical conditions at the site. Any failures by the Respondent to take these steps will not relieve the Respondent from the responsibility for estimating properly the difficulty and cost of successfully performing the work without additional expense to the Owner.

- 8. BID OPENING INFORMATION** – Bids will be opened at the time and place indicated in the advertisement or request for bid, and will be read aloud publicly, unless obviously non-responsive. It is the respondent's responsibility to assure that its bid is delivered at the proper time and place. Offers by telegram, facsimile or telephone will **NOT** be accepted.
- 9. BIDS TO REMAIN SUBJECT TO ACCEPTANCE** – All bids will remain subject to acceptance or rejection for sixty (60) calendar days after the day of the bid opening, but the County may, in its sole discretion, release any bid and return the bid security prior to the end of this period.
- 10. IDENTICAL TIE BIDS** - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the County for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process (see attached certification form).

Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program.

Note: For respondent's convenience, this form is enclosed and is made a part of the bid package.

- 11. CONDITIONAL & INCOMPLETE BIDS** - Okaloosa County specifically reserves the right to reject any conditional bid and bids which make it impossible to determine the true amount of the bid.
- 12. BID PRICE** – The bid price shall include all equipment, labor, materials, permit(s), freight, taxes, required insurance, Public Liability, Property Damage and Workers' Compensation, etc. to cover the finished work called for.
- 13. ADDITION/DELETION OF ITEM** – The County reserves the right to add or delete any item from this bid or resulting contract when deemed to be in the County's best interest.
- 14. SPECIFICATION EXCEPTIONS** – Specifications are based on the most current literature available. Respondent shall clearly list any change in the manufacturer's specifications which conflict with the bid specifications. Respondent must also explain any deviation from the bid specification in writing, as a foot note on the applicable bid page and enclose a copy of the manufacturer's specifications data detailing the changed item(s) with their bid. Failure of the respondent to comply with these provisions will result in respondents being held responsible for all costs required to bring the equipment in compliance with bids specifications.
- 15. APPLICABLE LAWS & REGULATIONS** – All applicable Federal and State laws, County and municipal ordinances, orders, rules and regulations of all authorities having jurisdiction over the project shall apply to the bid throughout, and they will be deemed to be included in the contract the same as though they were written in full therein.
- 16. DISQUALIFICATION OF RESPONDENTS** - Any of the following reasons may be considered as sufficient for the disqualification of a respondent and the rejection of its bids:
 - a. Submission of more than one proposal for the same work from an individual, firm or corporation under the same or different name.
 - b. Evidence that the respondent has a financial interest in the firm of another respondent for the same work.
 - c. Evidence of collusion among respondents. Participants in such collusion will receive no recognition as respondents for any future work of the County until such participant has been reinstated as a qualified respondent.
 - d. Uncompleted work which in the judgment of the County might hinder or prevent the prompt completion of additional work if awarded.
 - e. Failure to pay or satisfactorily settle all bills due for labor and material on former contracts in force at the time of advertisement of proposals.
 - f. Default under previous contract.
 - g. Listing of the respondent by the Federal Government on its barred/suspended vendor list.
- 17. AWARD OF CONTRACT** -
 - A. **Okaloosa County Review** - Okaloosa County designated Staff will review all bids and will participate in the Recommendation to Award.
 - B. The County will award the bid to the lowest respondent, and the County reserves the right to award the bid to the respondent submitting a responsive bid with a resulting negotiated Agreement which is most advantageous and in the best interest of the County, and to reject any and all bids or to waive any

irregularity or technicality in bids received. Okaloosa County shall be the sole judge of the bid and the resulting negotiated Agreement that is in its best interest and its decision shall be final.

- C. Okaloosa County reserves the right to waive any informalities or reject any and all bids, in whole or part, to utilize any applicable state contracts in lieu of or in addition to this bid and to accept the bid that in its judgment will best serve the interest of the County.
- D. Okaloosa County specifically reserves the right to reject any conditional bids and bids which make it impossible to determine the true amount of the bid. Each item must be bid separately and no attempt is to be made to tie any item or items to any other item or items.

18. WARRANTY – (The warranty will be in the name of Okaloosa County) Warranty work specified herein is for a minimum of two (2) years from delivery against defects in materials and in labor and workmanship. State the manufacturer’s warranty with your bid.

19. PAYMENTS – The respondent shall be paid upon submission of invoices and approval of acceptance by Okaloosa County Board of County Commissioners, Finance Office, 302 N. Wilson St., #203, Crestview FL 32536. The prices stipulated herein for articles delivered and accepted. Invoices must show Contract #.

20. DISCRIMINATION - An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.

21. PUBLIC ENTITY CRIME INFORMATION - Pursuant to Florida Statute 287.133, a respondent may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

22. CONFLICT OF INTEREST - The award hereunder is subject to the provisions of Chapter 112, Florida Statutes. All respondents must disclose with their bids the name of any officer, director, or agent who is also a public officer or an employee of the Okaloosa Board of County Commissioners, or any of its agencies. Furthermore, all respondents must disclose the name of any County officer or employee who owns, directly or indirectly, an interest of five percent (5%) or more in the firm or any of its branches.

Note: For respondent’s convenience, this form is enclosed and is made a part of the bid package.

23. RECYCLED CONTENT INFORMATION - In support of the Florida Waste Management Law, respondents are encouraged to supply with their bid any information available regarding recycled material content in the products bid. The County is particularly interested in the type of recycled material used (such as paper, plastic, glass, metal, etc.) and the percentage of recycled material contained in the product. The County also requests information regarding any known or potential material content in the product that may be extracted and recycled after the product has served its intended purpose.

Note: For respondent’s convenience, this form is enclosed and is made a part of the bid package.

24. LOCAL PREFERENCE - Okaloosa County reserves the right to grant a preference to in-county respondents only when bids are received from firms located in states, counties, municipalities or other political subdivisions which offer preference to respondents located in such political subdivisions. The amount of preference given to local respondents will be the same as that given by the state,

county, municipality or other political subdivisions in which a respondent is located. If the political subdivision in which a respondent is located offers a preference to its local firms, that respondent must plainly state the extent of such preference to include the amount and type preference offers. Any respondent failing to indicate such preference will be removed from the County bid list and any and all bids from that firm will be rejected.

Note: For respondent's convenience, this form is enclosed and is made a part of the bid package.

- 25. RE-ORGANIZATION OR BANKRUPTCY PROCEEDINGS** – Bids will not be considered from respondents who are currently involved in official financial reorganization or bankruptcy proceedings.
- 26. INVESTIGATION OF RESPONDENT** – The County may make such investigations, as it deems necessary to determine the stability of the respondent to perform the work and that there is no conflict of interest as it relates to the project. The respondent shall furnish any additional information and financial data for this purpose as the County may request.
- 27. AUTHORITY TO PIGGYBACK** - All respondents submitting a response to this Request for Bid agree that such response also constitutes a bid to all governmental agencies under the same conditions, for the same contract price, and for the same effective period as this bid, should the respondent feel it is in their best interest to do so.

Each governmental agency desiring to accept these bids and make an award thereof shall do so independently of any other governmental agency. Each agency shall be responsible for its own purchases and each shall be liable only for materials and/or services ordered and received by it, and no agency assumes any liability by virtue of this bid.

This Agreement in no way restricts or interferes with the right of any governmental agency to bid any or all items.

- 28. NO CONTACT CLAUSE** - The Okaloosa County Board of County Commissioners have established a solicitation silence policy (**No Contact Clause**) that prohibits oral and written communication regarding all formal solicitations for goods and services (formal bids, Request for Proposals, Requests for Qualifications) issued by the Board through the County Purchasing Department. The period commences when the procurement document is received and terminates when the Board of County Commissioners approves an award.

Note: For respondent's convenience, this form is enclosed and is made a part of the bid package.

- 29. REVIEW OF PROCUREMENT DOCUMENTS** - Per Florida Statute 119.071 (2) 2 sealed bids, proposals, or replies received by the County pursuant to a competitive solicitation are exempt from public dispute until such time as the County provides notice of an intended decision or until 30 days after opening the bids, proposals, or final replies, whichever is earlier.
- 30. COMPLIANCE WITH FLORIDA STATUTE 119.0701** - The Respondent shall comply with all the provisions of section 119.0701, Florida Statutes relating to the public records which requires, among other things, that the Respondent: (a) Keep and maintain public records; (b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records; (c) ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and (d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the respondent upon termination of the contract.

31. PROTECTION OF RESIDENT WORKERS – The Okaloosa County Board of County Commissioners actively supports the Immigration and Nationality Act (INA) which includes provisions addressing employment eligibility, employment verifications, and non-discrimination. Under the INA, employers may hire only persons who may legally work in the United States (i.e., citizens and nationals of the U.S.) and aliens authorized to work in the United States.

The employer must verify the identity and employment eligibility of anyone to be hired, which includes completing the Employment Eligibility Verifications. The respondent shall establish appropriate procedures and controls so no services or products under the Contract Documents will be performed or manufactured by any worker who is not legally eligible to perform such services or employment. Okaloosa County reserves the right to request documentation showing compliance with the requirements.

Respondents doing construction business with Okaloosa County are required to use the Federal Government Department of Homeland Security's website and use the E-Verify Employment Eligibility Verifications System to confirm eligibility of all employees to work in the United States.

32. SUSPENSION OR TERMINATION FOR CONVENIENCE - The County may, at any time, without cause, order Respondent in writing to suspend, delay or interrupt the work in whole or in part for such period of time as the County may determine, or to terminate all or a portion of the Contract for the County's convenience. Upon such termination, the Contract Price earned to the date of termination shall be paid to Respondent, but Respondent waives any claim for damages, including loss of profits arising out of or related to the early termination. Those Contract provisions which by their nature survive final acceptance shall remain in full force and effect. If the County orders a suspension, the Contract price and Contract time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption. No adjustment shall be made to the extent that performance is, was or would have been so suspended, delayed or interrupted by reason for which Respondent is responsible; or that an equitable adjustment is made or denied under another provision of this Contract.

33. FAILURE OF PERFORMANCE / DELIVERY - In case of default by the respondent, the County after due notice (oral or written) may procure the necessary supplies or services from other sources and hold the respondent responsible for difference in cost incurred. Continuous instances of default shall result in cancellation of the contract and removal of the respondent from the bid list for duration of one (1) year, at the option of the County.

34. AUDIT - If required, respondent shall permit the County or an authorized, independent audit agency to inspect all data and records of respondent relating to its performance and its subcontracts under this contract from the date of the contract through and until the expiration of contract.

35. EQUAL EMPLOYMENT OPPORTUNITY; NON DISCRIMINATION – Respondent will not against any employee or an applicant for employment because of race, color, religion, gender, sexual orientation, national origin, age, familial status or handicap.

36. NON-COLLUSION – Respondent certifies that it has entered into no Agreement to commit a fraudulent, deceitful, unlawful or wrongful act, or any act which may result in an unfair advantage over other respondents. See Florida Statute 838.22.

37. UNAUTHORIZED ALIENS / PATRIOT'S ACT – The knowing employment by respondent or its sub-contractors of any alien not authorized to work by the immigration laws is prohibited and shall be a default of the contract. In the event that the respondent is notified or becomes aware of such default, the respondent shall take steps as are necessary to terminate said employment with 24 hours of notification or actual knowledge that an alien is being employed. Respondent's failure to take such

steps as are necessary to terminate the employment of any said alien within 24 hours of notification or actual knowledge that an alien is being employed shall be grounds for immediate termination of the contract. Respondent shall take all commercially reasonable precautions to ensure that it and its subcontractors do not employ persons who are not authorized to work by the immigration laws.

38. BOND REQUIREMENTS – Prior to the execution of the Contract, the Bidder shall furnish bonds (in the amount of 100% of the bid) covering the faithful performance of the Contract and the payment of all obligations arising there under in such form and amount as stated hereafter. Bonds may be secured through the Bidder's usual sources.

To be acceptable to the OWNER as Surety for Performance and Payment Bonds a Surety Company shall comply with the following provisions:

- a. The Surety Company must be admitted to do business in the State of Florida.
- b. The Surety Company shall have been in business and have a record of successful continuous operations for at least five (5) years.
- c. The Surety Company shall have a least the following minimum ratings:

CONTRACT AMOUNT	POLICY HOLDER'S RATING	REQUIRED FINANCIAL RATING (Best's Financial Rating)
Performance Bond equal to 100% of Contract price plus any alternates	A	CLASS III

- d. Best's Policy holder's Rating of "A" and "B" (which signifies A = Excellent, and B = Good, based upon good underwriting, economic management, adequate reserves for undisclosed liabilities, net resources for unusual stock and sound investment) or an equivalent rating from the Insurance commissioner if not rated by Best's.
- e. The Surety Company shall not expose itself to any loss on any one risk in an amount exceeding ten percent (10%) of its surplus policyholders, provided:
 - 1) Any risk or portion of any risk shall have been reinsured (in which case these minimum requirements contained herein also apply to the reinsuring carrier) in assuming insurer authorized or approved by the Insurance Commissioner to do business in this State shall be deducted in determining the limitation of risk prescribed in this section.
 - 2) In the case of a surety insurance company, there shall be deducted in addition to the deduction for reinsurance, the amount assumed by any co-surety.

The Bidder shall deliver the required Bonds to the Owner not later than the date of execution of the Contract, or if the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished.

The Bonds shall be written on Surety Forms, Performance Bond and Labor and Material Payment Bond and shall be for 100% of the Contract value.

The Bidder shall require the Attorney-in-Fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his Power of Attorney.

Note: For respondent's convenience, this form is enclosed and is made a part of the bid package.

39. LIQUIDATED DAMAGES – The County and the Contractor recognize that since time is of the essence for this contract, the County will suffer financial loss if the work is not substantially completed within the time specified in the contract or within such additional time extended by the County.

In the event the Contractor fails to substantially complete the work within the time specified, the Contractor shall pay to the County as liquidated damages, but not as a penalty, the amount established in the schedule below for each calendar day thereafter until substantial completion is achieved. The Contractor will be liable for payment of such liquidated damages, whether the work is completed by the Contractor, the County or a third-party contractor.

The Contractor hereby expressly waives and relinquishes any right which it may have to seek to characterize the liquidated damages as a penalty, which the parties agree represents a fair and reasonable estimate of the County's actual damages at the time of contracting if the Contractor fails to substantially complete the work in a timely manner.

Determination of Number of Days of Default: For all contracts, regardless of whether the contract time is stipulated in calendar days or working days, the default days shall be counted in calendar days.

Right of Collection: The County shall have the right to apply as payment on such liquidated damages any money which is due to the Contractor by the County.

Permitting Contractor to Finish Work: Permitting the Contractor to finish the work, or any part of it, beyond the substantial completion deadline, including any extensions of time granted, shall in no way be construed as a waiver of the liquidated damages due to the County.

In case of failure on the part of the Contractor to complete the work within the time(s) specified in the contract, or within such additional time(s) as may be granted by Okaloosa County, the County will suffer damage, the amount of which is difficult, if not impossible, to ascertain. Therefore, the Contractor shall pay to the County, as liquidated damages, the amount established in the schedule below for each calendar day of delay that actual completion extends beyond the time limit specified until such reasonable time as may be required for final completion of the work. In no way shall costs for liquidated damages be construed as penalty on the contractor.

<u>Original Contract Amount</u>	<u>Daily Charge</u>	<u>Per Calendar Day</u>
\$50,000 and under		\$ 311
Over \$50,000 but less than \$250,000		\$ 972
\$250,000 but less than \$500,000		\$ 1584
\$500,000 but less than \$2,500,000		\$ 1924

40. The following certification forms are to be submitted with the bid packet:

- A. Drug-Free Workplace Certification (Form-A)
- B. Conflict of Interest (Form-B)
- C. Federal E-Verify (Form-C)
- D. No Contact Clause (Form-D)
- E. Recycled Content (Form-E)
- F. Indemnification and Hold Harmless (Form-F)
- G. Addendum Acknowledgement (Form-G)
- H. Lobbying Certification (Form-H)
- I. Local Preference (Form-J)

END OF SECTION

BID REQUIREMENTS
OKALOOSA COUNTY REQUIREMENTS

BID FORM

Term Contract For \$ 62,557.⁰⁰
(120 day completion)

Proposal of: Champion Contractors, Inc.
(Respondent Company Name)

Respondent agrees to furnish, unless otherwise provided, all implements, machinery, equipment, transportation, tools, materials, supplies, labor, and other things necessary for the performance and completion of the work for the amounts listed in the Schedule of Bid Items.

The undersigned Respondent hereby declares that:

1. The bid is made in good faith, without collusion or fraud and is fair and competitive in all respects.
2. The Respondent has carefully and to his full satisfaction examined the attached Scope of Work, Special Terms, General Conditions, technical specifications, and form of bonds, if applicable, together with accompanying plans and Respondent has read all issued addenda.
3. Respondent has made full examination of the site and is familiar with the site conditions that may impact its performance.
4. Upon receipt of Notice of Intent to Award the contract the Respondent shall commence obtaining a Performance Bond and Certificate(s) of Insurance (COI) immediately.
5. Respondent understands that the contract time starts from the date of the Notice to Proceed.
6. Respondent furthermore agrees that, in case of failure on his part to execute a Contract and provide all required documents within ten (10) calendar days of receipt of the Contract for execution, the offer to contract may be withdrawn and the check, bond, or other security accompanying his bid and the money payable thereon, shall become property of the County, by forfeit as agreed liquidated damages.
7. The Respondent states that this bid is the only bid for this project in which Respondent is interested; and Respondent shall not be a subcontractor or sub-subcontractor on this project.
8. Respondent and all affiliates, suppliers, subcontractor or consultants who will perform the Work have not been placed on the Public Entity Crimes convicted vendor list maintained by the State of Florida within 36 months immediately preceding the date of this Bid.
9. By signing and submitting the Bid, Respondent represents that all Bid Forms are fully complete and accurate.
10. Respondent acknowledges that the Bid may be rejected if all Bid Forms are not fully complete, not accurate or if forms are not signed by properly authorized signatures where required.

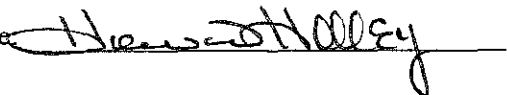
Name of Firm: Champion Contractors, Inc.

HQ Address: 5525 Grants Pass ST: Florida Zip: 32536

Phone: (850) 423-0235 Email: howard@cci.gccoxmail.com

FEIN: 59-3267757 State of Incorporated: Florida

Print Name: Howard Holley Title: President

Signature:  Date: 18 Nov 2015

Failure to fully complete and sign this Bid Form may result in rejection of the Bid.

SUBSTITUTION SHEET

This form must be completed if Respondent proposes to deviate from any contract requirements, including but not limited to, proposed material specifications, proposed method, schedule, or plan.

Associated "Add" or "Deduct" must be provided.

DESCRIPTION OR MAKE BID ITEM NO. SPECIFIED	PROPOSED SUBSTITUTION	ADD	DEDUCT
<u>N/A</u>	<u>N/A</u>	\$ <u>N/A</u>	\$ <u>N/A</u>
<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>
<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>
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<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>
<u> </u>	<u> </u>	\$ <u> </u>	\$ <u> </u>

COMPANY DATA

Respondent's Company Name: Champion Contractors, Inc

Physical Address & Phone #: 5525 Grants Pass

Crestview, Florida 32536

(850) 423-0235

Contact Person (Typed-Printed): Howard Holley

Phone #: (850) 423-0238

Cell #: (850) 259-7542

Email: howard@cci.gccoxmail.com

Federal ID or SS #: 59-3267757

Respondent's License #: CGC058382

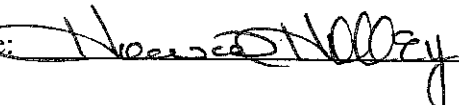
Fax #: (850) 423-0480

Emergency #'s After Hours,
Weekends & Holidays: (850) 682-5767

SCHEDULE OF SUB-CONTRACTORS

The following is a complete list of all sub-contractors utilized for this project (if applicable):

- | | |
|---|--|
| 1. <u>Curtis Remodeling</u>
(company name) | <u>Framing, Drywall, Ceiling, Painting</u>
(type of work) |
| <u>4 Roundabend Rd</u>
(address) | <u>(850) 259-6070</u>
(tel. #) |
| <u>Shalimar, Florida 32579</u>
(zip code) | <u>59-3024249</u>
(federal I.D. #) |
| 2. <u>IMS Electrical</u>
(company name) | <u>Electrial</u>
(type of work) |
| <u>106 Wheeler Place</u>
(address) | <u>(850) 398-2570</u>
(tel. #) |
| <u>Crestview, Florida 32539</u>
(zip code) | <u>26-12666615</u>
(federal I.D. #) |
| 3. <u>Quality Air LLC</u>
(company name) | <u>Mechanical - HVAC</u>
(type of work) |
| <u>P.O. Box 6703</u>
(address) | <u>(850) 687-4458</u>
(tel. #) |
| <u>Miramar Bch, Florida</u>
(zip code) | <u>(federal I.D. #)</u> |
| 4. <u>Destin Flooring</u>
(company name) | <u>Carpet & VCT</u>
(type of work) |
| <u>12889 Emerald Coast Pkwy</u>
(address) | <u>(850) 598-0819</u>
(tel. #) |
| <u>Destin, Florida 32550</u>
(zip code) | <u>59-3525321</u>
(federal I.D. #) |

Authorized signature: 

LIST OF REFERENCES

1. Owner's Name & Address: Beulah First Baptist Church
109 McGriff Street
Ft. Walton Bch, Florida 32549
Contact Person: Barbra OLIVER
Telephone: (850) 243-1724 E-mail: beulahfirstbc@btbc.coxmail.com

2. Owner's Name & Address: New Life Fellowship Hall
285 Duggan Ave
Crestview, Florida 32536
Contact Person: Sandford Hayes
Telephone: (850) 621-4185 E-mail: sandfordhayes@cox.net

3. Owner's Name & Address: Crestview Housing Authority
371 W. Hickary Avenue
Crestview, Florida 32536
Contact Person: Judy Adams
Telephone: (850) 682-2413 E-mail: Judy226@chatt.com

END OF SECTION

GENERAL CONSTRUCTION INSURANCE REQUIREMENTS

REVISED: 09/22/14

RESPONDENT'S INSURANCE

1. The Respondent shall not commence any work in connection with this Agreement until he has obtained all required insurance and such insurance has been approved by the Okaloosa County Risk Management Manager or designee.
2. All insurance policies shall be with insurers licensed to do business in the State of Florida.
3. All insurance shall include the interest of all entities names in and its respective agents, consultants, servants and employees of each and all other interests as may be reasonably required by Okaloosa County as Additional Insured. The coverage afforded the Additional Insured under this policy shall be primary insurance. If the Additional Insured have other insurance that is applicable to the loss, such other insurance shall be on an excess or contingent basis. The amount of the company's liability under this policy shall not be reduced by the existence of such other insurance.
4. The County shall be listed as Additional Insured by policy endorsement on all insurance contracts applicable to this Agreement except Workers' Compensation and Professional Liability.
5. The County shall be furnished proof of coverage by certificates of insurance (COI) and endorsements for every applicable insurance contract required by this Agreement. The COI's and policy endorsements must be delivered to the County Representative not less than ten (10) days prior to the commencement of any and all contractual Agreements between the County and the Respondent.
6. The County shall retain the right to reject all insurance contracts that do not meet the requirements of this Agreement. Further, the County reserves the right to change these insurance requirements with a 60-day notice to the Respondent.
7. The insurance definition of Insured or Additional Insured shall include the Subcontractor, Sub-subcontractor, and any associated or subsidiary companies of the Respondent, which are involved, and which is a part of the contract.
8. The County reserves the right at any time to require the Respondent to provide certified copies of any insurance policies to document the insurance coverage specified in this Agreement.
9. The designation of Respondent shall include any associated or subsidiary company which is involved and is a part of the contract and such, if any associated or subsidiary company involved in the project must be named in the Workers' Compensation coverage.
10. All policies shall be written so that the County will be notified of cancellation or restrictive amendments at least thirty (30) days prior to the effective date of such cancellation or amendment. Such notice shall be given directly to the County Representative.

WORKERS' COMPENSATION INSURANCE

1. The Respondent shall secure and maintain during the life of this Agreement Workers' Compensation insurance for all of his employees employed for the project or any site connected with the work, including supervision, administration or management, of this project and in case any work is sublet, with the approval of the County, the Respondent shall require the Subcontractor similarly to provide Workers' Compensation insurance for all employees employed at the site of the project, and such evidence of insurance shall be furnished to the County not less than ten (10) days prior to the commencement of any and all sub-contractual Agreements which have been approved by the County.
2. Such insurance shall comply with the Florida Workers' Compensation Law.
3. No class of employee, including the Respondent himself, shall be excluded from the Workers' Compensation insurance coverage. The Workers' Compensation insurance shall also include Employer's Liability coverage.

BUSINESS AUTOMOBILE AND COMMERCIAL GENERAL LIABILITY INSURANCE

1. The Respondent shall maintain Business Automobile Liability insurance coverage throughout the life of this Agreement. The insurance shall include Owned, Non-owned & Hired Motor Vehicle coverage.
2. The Respondent shall carry other Commercial General Liability insurance against all other Bodily Injury, Property Damage and Personal and Advertising Injury exposures. The coverage shall include both On-and Off-Premises Operations, Contractual Liability, and Broad Form Property Damage.
3. All liability insurance (other than Professional Liability) shall be written on an occurrence basis and shall not be written on a claim-made basis. If the insurance is issued with an aggregate limit of liability, the aggregate limit of liability shall apply only to the locations included in this Agreement. If, as the result of any claims or other reasons, the available limits of insurance reduce to less than those stated in the Limits of Liability, the Respondent shall notify the County representative in writing. The Respondent shall purchase additional liability insurance to maintain the requirements established in this Agreement. Umbrella or Excess Liability insurance can be purchased to meet the Limits of Liability specified in this Agreement.
4. Commercial General Liability coverage shall be endorsed to include the following:
 - a) Premises – Operation Liability
 - b) Occurrence Bodily Injury and Property Damage Liability
 - c) Independent Respondent's Liability
 - d) Completed Operations and Products Liability
5. RESPONDENT shall agree to keep in continuous force Commercial General Liability coverage including Completed Operations and Products Liability for two (2) years beyond acceptance of project.

LIMITS OF LIABILITY

The insurance required shall be written for not less than the following, or greater if required by law and shall include Employer's liability with limits as prescribed in this contract:

	<u>LIMIT</u>
1. Worker's Compensation	
a.) State	Statutory
b.) Employer's Liability	\$100,000 each accident
2. Business Automobile & Commercial General Liability Insurance	\$1,000,000 each occurrence (A combined single limit)
3. Personal and Advertising Injury	\$250,000
4. Professional Liability	\$1,000,000 each occurrence (A combined single limit)

PROPERTY INSURANCE

1. The Respondent shall purchase and maintain property insurance upon the Work at the site in the amount of the full replacement cost. Any deductible amount is the responsibility of the Respondent.
2. This insurance policy shall include each of the following:
 - a) Insured party to be the Owner, Respondent and any other party that has an insurable interest.
 - b) Written on a Builder's Risk special cause of loss policy form.
 - c) Expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects).
 - d) Cover materials and equipment stored on site or at another location that was agreed on in writing by the Owner prior to being incorporated in the work.
 - e) Maintained in effect until final payment is made unless otherwise agreed to in writing by the Owner, Respondent and Architect with a thirty (30) day written notice to each other entity to whom a certificate of insurance has been issued.

NOTICE OF CLAIMS OR LITIGATION

The RESPONDENT agrees to report any incident or claim that results from performance of this Agreement. The County representative shall receive written notice in the form of a detailed written report describing the incident or claim within ten (10) days of the Respondent's knowledge. In the event such incident or claim involves injury and/or property damage to a third party, verbal notification shall be given the same day the Respondent becomes aware of the incident or claim followed by a written detailed report within ten (10) days of verbal notification.

INDEMNIFICATION & HOLD HARMLESS

To the fullest extent permitted by law, Respondent shall indemnify and hold harmless the County, its officers and employees from liabilities, damages, losses, and costs including but not limited to reasonable attorney fees, to the extent caused by the negligence, recklessness, or wrongful conduct of the Respondent and other persons employed or utilized by the Respondent in the performance of this contract.

Note: For respondent's convenience, this certification form is enclosed and is made a part of the bid package.

CERTIFICATE OF INSURANCE

1. Certificates of insurance, in duplicate, indicating the job site and evidencing all required coverage must be submitted to and approved by Okaloosa County prior to the commencement of any of the work. The certificate holder(s) shall be as follows: Okaloosa County, 602-C North Pearl Street, Crestview, Florida, 32536.
2. All policies shall expressly require 30 days written notice to Okaloosa County at the address set out above, or the cancellations of material alterations of such policies, and the Certificates of Insurance, shall so provide.
3. All certificates shall be subject to Okaloosa County's approval of adequacy of protection and the satisfactory character of the Insurer. County reserves the right to approve or reject all deductible / SIR above \$10,000. The Certificates of Insurance shall disclose any and all deductibles or self-insured retentions (SIRs).
4. All deductibles or SIRs, whether approved by Okaloosa County or not, shall be the Respondent's full responsibility. In particular, the Respondent shall afford full coverage as specified herein to entities listed as Additional Insured.
5. In no way will the entities listed as Additional Insured be responsible for, pay for, be damaged by, or limited to coverage required by this schedule due to the existence of a deductible or SIR. Specific written approval from Okaloosa County will only be provided upon demonstration that the Respondent has the financial capability and funds necessary to cover the responsibilities incurred as a result of the deductible or SIR.

GENERAL TERMS

1. Any type of insurance or increase of limits of liability not described above which, the Respondent required for its own protection or on account of statute shall be its own responsibility and at its own expense.
2. The carrying of the insurance described shall in no way be interpreted as relieving the Respondent of any responsibility under this contract.
3. Should the Respondent engage a subcontractor or sub-subcontractor, the same conditions will apply under this Agreement to each subcontractor and sub-subcontractor.
4. The Respondent hereby waives all rights of subrogation against Okaloosa County and its consultants and other indemnities of the Respondent under all the foregoing policies of insurance.

UMBRELLA INSURANCE

The Respondent shall have the right to meet the liability insurance requirements with the purchase of an umbrella insurance policy. In all instances, the combination of primary and umbrella liability coverage must equal or exceed the minimum liability insurance limits stated in this Agreement.

END OF SECTION

DRUG-FREE WORKPLACE CERTIFICATION

THE BELOW SIGNED RESPONDENT CERTIFIES that it has implemented a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under quote a copy of the statement specified in subsection 1.
4. In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under quote, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893, Florida Statutes, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in, drug abuse assistance or rehabilitation program if such is available in employee's community, by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

DATE: 18 Nov. 2015

SIGNATURE: 

COMPANY: Champion Contractors, Inc.

NAME: Howard Holley

(Typed or Printed)

ADDRESS: P.O. Box 155

Crestview, Fl 32536

TITLE: President

E-MAIL: howard@cci.gccoxmail.com

PHONE NO.: (850) 423-0235

END OF SECTION

DRUG-FREE WORKPLACE CERTIFICATION
OKALOOSA COUNTY REQUIREMENTS

CONFLICT OF INTEREST DISCLOSURE FORM

For purposes of determining any possible conflict of interest, all respondents, must disclose if any Okaloosa Board of County Commissioner, employee(s), elected officials(s), or if any of its agencies is also an owner, corporate officer, agency, employee, etc., of their business.

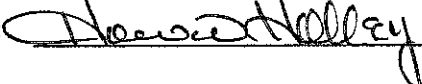
Indicate either "yes" (a county employee, elected official, or agency is also associated with your business), or "no". If yes, give person(s) name(s) and position(s) with your business.

YES: _____ NO: XX

NAME(S)	POSITION(S)
_____	_____
_____	_____
_____	_____
_____	_____

FIRM NAME: Champion Contractors, Inc.

BY (PRINTED): Howard Holley

BY (SIGNATURE): 

TITLE: President

ADDRESS: P.O. Box 155

PHONE NO.: (850) 423-0235

E-MAIL: howard@cci.gccoxmail.com

DATE: 18 Nov 2015

END OF SECTION

FEDERAL E-VERIFY COMPLIANCE CERTIFICATION

In accordance with Okaloosa County Policy and Executive Order Number 11-116 from the office of the Governor of the State of Florida, Respondent hereby certifies that the U.S. Department of Homeland Security's E-Verify system will be used to verify the employment eligibility of all new employees hired by the respondent during the contract term, and shall expressly require any subcontractors performing work or providing services pursuant to the contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term; and shall provide documentation such verification to the COUNTY upon request.

As the person authorized to sign this statement, I certify that this company complies/will comply fully with the above requirements.

DATE 18 Nov 2015

SIGNATURE: 

COMPANY: Champion Contractors, Inc

NAME: Howard Holley

ADDRESS: P.O. Box 155
Crestview, FL 32536

TITLE: President

E-MAIL: howard@cci.gccoxmail.com

PHONE NO.: (850) 423-0235

END OF SECTION

FEDERAL E-VERIFY COMPLIANCE
OKALOOSA COUNTY REQUIREMENTS

NO CONTACT CLAUSE

The Board of County Commissioners have established a solicitation silence policy (**No Contact Clause**) that prohibits oral and written communication regarding all formal solicitations for goods and services (formal bids, Request for Proposals, Requests for Qualifications) issued by the Board through the County Purchasing Department.

The period commences when the procurement document is received by the Respondent and terminates when the Board of County Commissioners approves an award.

When the solicitation silence period is in effect, no oral or written communication is allowed regarding the solicitation between prospective respondents and members of the Board of County Commissioners the County Administrator, county employees or members of the Board Approved Review Committee.

All questions or requests for information regarding the solicitation **MUST** be directed to the designated Purchasing Representative listed in the solicitation.

Any information thought to affect the committee or staff recommendation submitted after bids are due, should be directed to the Purchasing Manager or an appointed representative. It shall be the Purchasing Manager's decision whether to consider this information in the decision process.

Any violation of this policy shall be grounds to disqualify the respondent from consideration during the selection process.

All respondents must agree to comply with this policy by signing the following statement and including it with their submittal.

 representing Champion Contractors, Inc.
Signature Company Name

On this 18th day of Nov 2015 hereby agree to abide by the County's "No Contact Clause" and understand violation of this policy shall result in disqualification of my proposal/submittal.

END OF SECTION

NO CONTACT CLAUSE
OKALOOSA COUNTY REQUIREMENTS

RECYCLED CONTENT FORM

RECYCLED CONTENT INFORMATION

1. Is the material in the above: Virgin or Recycled _____ (Check the applicable blank)

If recycled, what percentage _____ %

Product Description: _____

2. Is your product packaged and / or shipped in material containing recycled content?

Yes _____ No

Specify: _____

3. Is your product recyclable after it has reached its intended end use?

Yes _____ No

Specify: _____

The above is not applicable if there is only a personal service involved with no product involvement.

Name of Respondent: Howard Holley *Howard Holley*

E-Mail: howard@cci.gccoxmail.com

END OF SECTION

INDEMNIFICATION AND HOLD HARMLESS

To the fullest extent permitted by law, Respondent shall indemnify and hold harmless the County, its officers and employees from liabilities, damages, losses, and costs including but not limited to reasonable attorney fees, to the extent caused by the negligence, recklessness, or intentional wrongful conduct of the Respondent and other persons employed or utilized by the Respondent in the performance of this Agreement.

Champion Contractors, Inc
Respondent's Company Name


Authorized Signature - Manual

5525 Grants Pass, Crestview, Fl
Physical Address

Howard Holley
Authorized Signature - Typed

P.O Box 155, Crestview, Fl
Mailing Address

President
Title

(850) 423-0235
Phone Number

(850) 423-0480
FAX Number

(850) 259-7542
Cellular Number

(850) 682-5767
After-Hours Number(s)

18 Nov 2015
Date

END OF SECTION

ADDENDUM ACKNOWLEDGEMENT

Acknowledgment is hereby made of the following addenda (identified by number) received since issuance of solicitation:

<u>ADDENDUM NO.</u>	<u>DATE</u>	
Addendum #1	12 Oct 2015	Ⓝ
Addendum #2	19 Oct 2015	Ⓝ
Addendum #3	26 Oct 2015	Ⓝ
Addendum #4	29 Oct 2015	Ⓝ

NOTE:

Prior to submitting the response to this solicitation, it is the responsibility of the respondent to confirm if any addenda have been issued. If such addenda have been issued, acknowledge receipt by noting number(s) and date(s) above.

END OF SECTION

LOBBYING CERTIFICATION

31 U.S.C. 1352, 49 CFR Part 19, 49 CFR Part 20

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, Howard Holley, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official: Howard Holley

Name and Title of Contractor's Authorized Official: Howard Holley, President

Date: 18 Nov 2015

LOCAL PREFERENCE FORM

Okaloosa County grants a preference to in-county respondents only when bids are received from firms located in states, municipalities or other political subdivisions which offer preference to respondents located in such political subdivisions. The amount of preference given to local respondents will be the same as that given by the state, county, municipality or other political subdivisions in which the out-of-county bidder is located.

If the political subdivision in which a bidder is located offers a preference to its local firms, that bidder must plainly state the extent of such preference to include the amount and type preference offered. Any bidder failing to indicate such preference will be removed from the County bid list and any and all bids from that firm will be rejected.

Does the state, county, municipality or political subdivision in which your firm is located offer a preference to their local respondents?

If "YES," list below the extent of such preference. (If your firm is located in Okaloosa County, you will check "YES"- reciprocal only.)

YES xx

NO _____

If yes, you must identify how you confirmed this information or who you spoke with within your area of business location below:

Contract Bid Specifications

Bid Requirements, Pg. #5, item #24

Champion Contractors, Inc.
Respondent's Company Name


Authorized Signature - Manual

Howard Holley
Printed Name

18 Nov 2015
Date

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS: that

_____ (Name of Contractor)

_____ (Address of Contractor)

a _____, hereinafter called Principal and
(Corporation, Partnership or Individual)

_____ (Name of Surety)

_____ (Address of Surety)

hereinafter called Surety, are held and firmly bound unto

_____ (Name of Owner)

_____ (Address of Owner)

hereinafter called OWNER in the total aggregate penal sum of _____

_____ Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 2015, a copy of which is hereto attached and made a part hereof for the **Okaloosa County Visitors Center - Interior Renovation.**

NOW, THEREFORE, if the Principal shall well, truly, and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the SURETY and during the one year guaranty period and if the PRINCIPAL shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expenses which the OWNER may incur in making good any default, then this obligation shall be void, otherwise to remain in full force and effect.

PERFORMANCE BOND

PROVIDED, FURTHER, that the said SURETY, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying same shall in any way affect its obligation on this BOND, and does hereby waive notice of any change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that it is expressly agreed that the BOND shall be amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract not increasing the contract price more than twenty percent, so as to bind the PRINCIPAL and the SURETY to the full and faithful performance of the CONTRACT as so amended. The term "Amendment", wherever used in this BOND, and whether referring to this BOND, or the CONTRACT DOCUMENTS, shall include any alteration, addition, extension, or modification of any character whatsoever.

PROVIDED, FURTHER, that no final settlement between the OWNER and the PRINCIPAL shall abridge the right of the other beneficiary hereunder, whose claim may be unsatisfied. The OWNER is the only beneficiary hereunder.

IN WITNESS WHEREOF, this instrument is executed in three counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2015.

ATTEST

(PRINCIPAL) SECRETARY

(SEAL)

PRINCIPAL

BY: _____(s)

ADDRESS

WITNESS AS TO PRINCIPAL

ADDRESS

SURETY

PERFORMANCE BOND

ATTEST

WITNESS TO SURETY

BY: _____
ATTORNEY-IN-FACT

ADDRESS

ADDRESS

Note:

Date of BOND must not be prior to date of Contract. This bond is given to comply with section 255.05 Florida Statutes, and any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes.

If CONTRACTOR is partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

END OF SECTION

PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS: that we

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called "Principal" and
(Corporation, Partnership or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called "Surety", are held and firmly bound unto

Board of County Commissioners, Okaloosa County, Florida

(Name of Owner)

(Address of Owner)

hereinafter called "Owner", and unto all persons, firms, and corporations who or which may furnish labor, or who furnish materials to perform as described under the contract and to their successors and assigns in the total aggregate penal sum of _____ dollars (\$ _____) in lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, and assigns jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 2015, a copy of which is hereto attached and made a part hereof for the **Okaloosa County Visitors Center - Interior Renovation.**

NOW, THEREFORE, if the Principal shall promptly make payments to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work, whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be in any wise affect its obligation on this bond, and it does hereby waive notice of any such changes, extension of time, alteration or addition to the terms of the contractor or to the work or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in six (6) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2015.

ATTEST:

Principal

(Principal) Secretary

By: _____

Witness as to Surety

Address

Address

SEAL:

ATTEST:

Surety

(Surety) Secretary

Attorney-in-Fact

Witness as to Surety

Address

Address

SEAL:

END OF SECTION

SECTION 00700

GENERAL CONDITIONS

PART 1 - STANDARD CONDITIONS

- A. The "General Conditions of the Contract for Construction" of the American Institute of Architect, AIA Document No. A201, (2007), are an integral part of the Specifications as if written in full here.
- B. Copies of the "General Conditions" are on file and may be examined in the office of the Architect, or may be purchased from the Florida Association, The American Institute of Architects, Document Department, P.O. Box 10388, Tallahassee, Florida, 32302
- C. The Contractor is hereby specifically directed, as a condition of the Contract, to obtain the necessary number of copies of Document A201 to acquaint himself with the Articles contained therein and to notify and appraise all Subcontractors, Suppliers and any other parties of the Contract or individuals or agencies engaged in the work as to its contents.
- D. No contractual adjustments shall be due or become exigent as a result of, or failure on the part of the Contractor to fully acquaint himself and all other parties to the contract with the conditions of Document A201.

PART 2 - SUPPLEMENTARY CONDITIONS

- A. Clarifications, modifications and additions to the Standard General Conditions are included in Section 00800 - Supplementary General Conditions of these Specifications.

END OF SECTION 00700

SECTION 01010

SUMMARY OF WORK

PART 1 – GENERAL PROJECT REQUIREMENTS

1.01 WORK COVERED BY THE CONTRACT DOCUMENTS

A. The work required by this contract will include, but is not limited to:

1. Interior Renovation of an existing 904 square foot Meeting Room.
2. Minor demolition of the existing carpet and removal of the existing lay-in ceiling tiles and grid will be required.
3. The addition of new wood framed walls, with gypsum board wall finishes and a few new doors are added to convert the existing space into 4 small Offices with a Storage Room and a Conference Room.
4. A new ceiling grid system with 2x2 lay-in tiles along with new led light fixtures, flooring and a modified HVAC system to work with the new layout.
5. See drawings for any other related work.

B. Signed Drawings and Specifications:

1. Immediately upon signing the Contract for the Work, the Contractor shall sign three (3) complete sets of Construction Documents (for Project manual signature to be applied on Table of Contents sheet thereof) as additional evidence of his understanding of the Work called for with such alternates and amendments as specifically mentioned in the agreement. These shall become Contract Drawings and Contract Project Manual.
2. The Contractor shall file one set with the Owner and Architect, and keep one set at the job site at all times during the progress of the Work. The job site set shall be the Contractor's copy. The Architect will retain one complete set in his office.

C. Specifications:

1. In the preparation of these specifications an effort has been made to segregate the various branches of the Work under headings, by trades. This is done only for convenience and shall not relieve the Contractor of the responsibility of furnishing every item indicated or specified whether properly segregated or not.
2. Specification arrangement is in accordance with the "Construction Specification Institute (CSI) for the Organization of Construction Project Manuals." The five (5) digit section designation is in accordance with this format.
3. No responsibility will be assumed by the Owner or its representative for omissions or duplications by the Contractor in the completion of the Contract due to any alleged error in the arrangement of the material in these specifications; nor shall any such segregation of work and materials operate to make Owner or its representative an arbiter in defining limits to the agreements between the Contractor and his subcontractors or suppliers.

4. The misplacement, addition or omission of any letter, work or punctuation mark, shall in no way damage the true spirit, intent, or meaning of these specifications. The words "shown", "indicated", "noted", "scheduled", or words of like effect shall be understood to mean that reference is made to the drawings accompanying these specifications. Where reference herein is made to colors or finishes "as selected" the reference is to the Owner or Architect. Reference to known standards within these Specifications shall mean and intend the latest edition or amendments published prior to date of these specifications, unless specifically specified otherwise, and to such portions of it that relate and apply directly to the material or installation called for on the Project.

D. Architectural and Engineering Services:

1. It is understood that normal architectural and engineering liaison for the purpose of interpretation of the Contract Documents is provided for by Owner. Should any services of the A/E (or DP, Design Professional) be required to assist in the corrections of errors or omissions in construction by the Contractor, or services of the DP be required because of changes in structure or equipment where the Contractor has requested approval of substitute methods or materials, these services will be provided by the Design Professional at his standard hourly rates, and shall be paid for by the Contractor.

E. Safety Requirements:

1. These Construction Documents, and the phases of construction hereby described, are to be governed at all times, by applicable provisions of the federal laws, including but not limited to, the latest amendments of the following:
 - (a) Williams-Steiger Occupational Safety & Health Act of 1970, Public Law, 91-596.
 - (b) Part 1910 - Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations.
 - (c) Part 1518 - Safety and Health Regulations for Construction, Chapter XIII of Title 29, Code of Federal Regulations.
 - (d) Federal OSHA, as it applies to Florida law, shall constitute the outline for the safety program to be adhered to during the course of the Project.

A copy of these publications shall be available at the job site for reference.

F. The Work under the Base Bid of the Contract:

1. This work shall include all work indicated or specified within the contract limits unless the Work is specifically indicated as "Not in Contract." or "Add Alternate".

1.02 PROJECT LOCATION / ADDRESS

1540 Miracle Strip Parkway S.E. (Highway 98)
Fort Walton Beach, Florida 32548

1.03 CONTRACT

- A. Construct the work under a single fixed-price contract. Extra Work In accordance with the General Conditions and when authorized in writing by Owner, extra work may be ordered. Claims for additional compensation, on account of extra work done, will not be recognized unless such extra work has been authorized in advance and in writing by the Owner.

1.04 USE OF PREMISES

- A. Contractor shall limit his use of the premises for work and for storage to allow for:
 - 1. Work by Subcontractors
 - 2. Owner Occupancy
- B. Contractor shall coordinate his use of the premises under direction of the Architect and Owner, and as indicated on Architectural Drawings.
- C. Contractor shall assume full responsibility for the protection and safe keeping of products under this contract that are stored on the site or elsewhere.
- D. Contractor shall assume full responsibility for safety at the work site, for workers, and visitors.
- E. Do not encumber the site with materials or equipment. Confine stockpiling of materials and locations of storage sheds to areas indicated on Drawings, or as indicated by Architect and / or Owner.
- F. Lock all automotive type vehicles and other mechanized or motorized construction equipment, when parked and unattended. Do not leave vehicles or equipment unattended with a motor running or ignition key in place.
- G. Provide barriers and signs to clearly delineate construction area and to limit public access as shown on Drawings.
- H. Disposition of Utilities: Observe rules and regulations governing the respective utilities in executing all work under this heading. Adequately protect active utilities from damage, and remove or relocate only as indicated or specified.
- I. The Contractor shall limit the storage of materials and equipment to the areas indicated. At no time during the Work under the Contract shall the Contractor place, or cause to be placed, any material or equipment, etc., at any location that would impede or impair access to or from the present facilities. The Contractor shall cooperate with Owner to the fullest extent in providing traffic control during the course of construction so as to provide a minimum of inconvenience to Owner.
- J. The Contractor shall send proper notices, make all necessary arrangements, and perform all services required in the care and maintenance of all Owner and public utilities. The Contractor shall, during the construction period and until final acceptance of the Work as a whole by Owner, assume all responsibility concerning the same for which Owner may be liable.

- K. It is of paramount importance that the Work of the contractor does not interfere in any way with the normal operation of the existing utility services and no interruption of the utility services can be allowed. The Contractor will coordinate all work affecting services in the existing building with Owner's Representative.

PART 2 – SPECIFIC PROJECT REQUIREMENTS

2.01 PROJECT DESCRIPTION

- A. Interior Renovation of an existing 904 square foot Meeting Room which is to be converted into 4 small Offices with a Storage Room and a Conference Room.

2.02 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

- A. In general, provision of the specifications take precedence over notes on the drawings; addenda or bulletins to the specifications take precedence over original specifications or earlier addenda;
1. Dimensional figures take precedence over scaled measurements.
 2. Large scale drawings and details take precedence over those of smaller scale.
 3. Drawings of the latest date take precedence over earlier ones.
- B. Work indicated or required (but not expressly noted, detailed or specified) shall be made the same as or similar to corresponding elements which are fully noted, detailed or specified.
- C. The Contractor shall comply with the true intent and meaning of the drawings and specifications taken as a whole.
- D. Standards of quality and performance indicated on the drawings or described in the specifications shall be understood to be minimum requirements only. When building code or other legal authority demand higher standards, such legal requirements shall be met.
- E. Figures on the drawings indicate rough construction with no allowance for finish of any kind, except the dimensions of details of the finished work.
- F. The Design Professionals will not be responsible for scaling the drawings. The drawings are generally diagrammatic and indicate manner, method, and nature of the installation. The specifications denote style and quality of material and workmanship. Where a conflict between the drawings and the specifications arise the Design Professionals shall be promptly notified. The Design Professional (DP) will make the proper interpretation and his decision shall be final. When the term "or equal" or "approved equal" or "equivalent to" is used, it shall be construed to mean with the approval of the Design Professional.
- G. Substitutions made without the Design Professionals approval shall be removed and replaced without any additional cost to Owner.

2.03 APPROVED APPLICATORS

- A. Where specific instructions in these Specifications require that a particular product and/or materials are to be installed and/or applied by an approved applicator of the manufacturer, it shall be the Contractor's responsibility to ensure that any subcontractors used for that such work, is actually done by the approved applicators.

2.04 WATER-TIGHT / WEATHER-TIGHT

- A. Anything in the Contract Documents notwithstanding, the Contractor accepts the responsibility of constructing a water-tight / weather-tight project.

2.05 OCCUPANCY PRIOR TO COMPLETION

- A. Owner shall have the right to occupy portions of the building that are completed on or after the specified completion date (even though the Contractor may not have completed the entire project). Such occupancy by Owner will not release the Contractor or his bonding agency from any warranties or guarantees and final completion of work in accordance with the Contract Documents.

END OF SECTION 01010

SECTION 01020

OCCUPANCY DURING CONSTRUCTION

PART 1 - GENERAL

- A. The premises shall be used during periods of the construction.
- B. The Owner reserves the right to occupy completed areas prior to Substantial Completion, provided that such occupancy does not inordinately interfere with the Contractor's completion of the work. Such partial occupancy shall not constitute acceptance of the work or any part of the work.
- C. The Contractor shall erect barricades, fences, etc... excluding unauthorized personnel from the construction site. Contractor shall be responsible for coordinating designated parking areas, for protecting existing shrubbery or any other items or surfaces subject to construction.
- D. The Contractor will confer with the Owner and shall schedule work, store materials, and restrict access to site in a manner that will cause the least interference.
- E. It is intended that the work shall be started with a Notice to Proceed within thirty (30) days.

END OF SECTION 01020

SECTION 01030

ALTERNATES

PART 1 – DESCRIPTION OF REQUIREMENTS

1.01 DEFINITION

- A. An alternate is an amount proposed by Bidders and stated on the Bid Form that will be added to the Base Bid amount if the Owner decides to accept a corresponding change in either scope of work or in products, materials, equipment, systems or installation methods described in the Contract Documents.

1.02 COORDINATION

- A. Coordinate related work and modify or adjust adjacent work as required to ensure that work affected by each accepted alternate is complete and fully integrated into the project.

1.03 NOTIFICATION

- A. Immediately following award of Contract, prepare and distribute to each party involved, notification of the status of each alternate. Indicate whether alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to alternates, if any.

PART 2 – IDENTIFICATION OF ALTERNATES

2.01 DESCRIPTION

- A. No alternates have been identified at this time.

END OF SECTION 01030

SECTION 01045

CUTTING AND PATCHING

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section includes procedural requirements for cutting and patching.
- B. Refer to other sections for specific requirements and limitations applicable to cutting and patching individual parts of the work.
 - 1. Requirements in this Section also apply to mechanical and electrical installations. Refer to Divisions 15 and 16 for other requirements and limitations applicable to cutting and patching mechanical and electrical installations.
- C. Demolition of selected portions of the existing building, if any, are included in Section 01050 – Selective Demolition.

1.02 SUBMITTALS

- A. Submit a proposal describing procedures at least 10 days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
 - 1. Products: List products to be used and firms or entities that will perform the Work.
 - 2. Dates: Indicate when cutting and patching will be performed.
 - 3. Utilities: List any utilities that cutting and patching procedures will disturb or affect and indicate how long service will be disrupted.
 - 4. Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.

1.03 QUALITY ASSURANCE

- A. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
 - 1. Obtain approval of the cutting and patching proposal before cutting any of the following structural elements;
 - a. Foundation Construction
 - b. Equipment Supports
 - c. Piping, Ductwork, and / or Equipment

- B. Do not cut and patch any operating elements and / or safety related components in a manner that would result in reducing their capacity to perform as intended, or that results in increased maintenance, or decreased operational life or safety.
 - 1. Obtain approval of the cutting and patching proposal before cutting any of the following operating elements or safety related systems;
 - a. Shoring, Bracing, and Sheeting
 - b. Primary operational system and equipment
 - c. Water, moisture or vapor barriers
 - d. Membranes and Flashings
 - e. Control systems
 - f. Electrical wiring systems
- C. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Use materials identical to the existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.

PART 3 – EXECUTION

3.01 INSPECTION

- A. Before cutting existing surfaces, examine surfaces to be cut and the conditions under which cutting and patching will be performed. Take corrective action before proceeding, if unsafe or unsatisfactory conditions are encountered.

3.02 PREPARATION

- A. Provide temporary support of Work to be cut.
- B. Protect existing construction during cutting and patching to prevent damage.
- C. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Avoid interference of adjoining areas or interruption of free passage to adjoining areas.

3.03 PERFORMANCE

- A. Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut existing construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

- B. Cut existing construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. To avoid marring existing finish surfaces, cut or drill from the exposed or finished side into the concealed surfaces.
 - 3. Cut through existing concrete and masonry using a cutting machine, such as carborundum saw or a diamond-core drill.
 - 4. Comply with the requirements in applicable sections of Division 2 Sections where cutting and patching requires excavating and backfilling operations.
- C. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections of these Specifications.
 - 1. Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
 - 2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
- D. Thoroughly clean areas and spaces where cutting and patching is performed or used as access. Remove excess paint, mortar, oils, putty and other items of similar nature.

END OF SECTION 01045

SECTION 01050

SELECTIVE DEMOLITION

PART 1 – GENERAL

1.01 SUMMARY

- A. The extent of minor demolition is indicated on the drawings.
- B. Items indicated or required to be removed are not to be returned to the Owner and shall be removed from the site as work progresses, unless noted otherwise.
- C. Storage or sale of any removed items on site will not be permitted.

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.03 PROJECT CONDITIONS

- A. Owner will occupy portions of the building immediately adjacent to selective demolition area. Conduct selective demolition so that the Owner's operations will not be disrupted. Provide at least a 72 hour notice to the Owner for demolition that may affect operations.
- B. Maintain access to existing walkways, corridors, and other occupied or used facilities.
- C. Owner assumes no responsibility for condition of areas to be selectively demolished.
- D. It is not expected that any hazardous materials will be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
- E. Maintain the existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
- F. Maintain fire-protection facilities in service during selective demolition operations.

1.04 WARRANTY

- A. Remove, replace, patch, and repair materials and surfaces cut and / or damaged during the selective demolition, by methods and with materials so as not to void the existing warranties.

PART 2 - PRODUCTS

2.01 REPAIR MATERIALS

- A. Use materials identical to the existing materials for all repairs.

1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 2. Only use materials that, the installed performance equals or surpasses that of the existing materials.
- B. Comply with materials and installation requirements specified in each of the individual Specification Sections.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Survey the existing conditions and correlate with the requirements indicated to determine the extent of selective demolition required.
- B. When unanticipated mechanical, electrical, or structural elements that conflict with the intended function or design are encountered, investigate and measure the nature and extent of conflict. Then promptly report said condition to the Architect.

3.02 PREPARATION

- A. If utility services are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary utilities that will bypass the area of selective demolition and that maintain continuity of service to other parts of building.
- B. Erect all temporary protection, such as walks, fences, railings, canopies, and any covered passageways, where required by authorities having jurisdiction.
- C. Protect walls, ceilings, floors, and other existing finish work that are to remain or that would be exposed during the selective demolition operations.
- D. Provide and maintain any shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of construction to remain, and to prevent any unexpected or uncontrolled movement or collapse of construction being demolished.
- E. Erect and maintain any dustproof partitions and / or temporary enclosures needed to limit dust and dirt migration to the separate areas from fumes and noise.

3.03 DEMOLITION

- A. Demolish and remove the existing construction only to the extent that is required by the new construction and as indicated on the drawings. Use methods required to complete the Work within limitations of the governing regulations.
- B. Neatly cut all openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage the existing construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover any openings to remain.

- C. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
- D. Remove demolished debris and /or materials so as not to impose any excessive loads on supporting walls, floors, or framing and dispose of promptly.
- E. Comply with requirements for using and / or protecting stairs, walkways, loading docks, entries, and other building facilities during the selective demolition operations.
- F. Protect the existing building to remain against any and all damage during the selective demolition. When permitted by the Architect, items may be removed to a suitable and protected storage location during the selective demolition and reinstalled in their original locations after demolition operations are complete.

3.04 PATCHING AND REPAIRING

- A. Promptly repair any damage to the adjacent building caused by the demolition operations.
- B. Comply with the conditions of Division 1 Section 01045, "Cutting and Patching."
- C. Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
 - 1. Completely fill any holes and / or depressions in the existing masonry walls that are to remain with an approved masonry patching material applied according to the manufacturer's written recommendations.
- D. Restore all exposed finishes of the patched areas and extend restoration into adjoining construction in a manner that eliminates the evidence of patching and refinishing.
- E. When walls that are demolished extend into another, patch and repair the floor and wall surfaces in the space to provide an even surface of uniform finish color, texture, and appearance. Remove the existing floor and / or wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

- A. Promptly dispose of all demolished materials. Do not allow the demolished materials to accumulate on the site.
- B. Do not burn demolished materials on site or off site.
- C. Transport all of the demolished materials off the Owner's property and legally dispose of them as required.

END OF SECTION 01050

SECTION 01090

DEFINITIONS AND STANDARDS

PART 1 - DEFINITION

1.01 GENERAL

- A. Except as specifically defined otherwise, the following definitions supplement definitions of the Contract, General Conditions, Supplementary General Conditions and other general contract documents, and apply generally to the work.
- B. The provisions of Division 1 sections. General Requirements, apply to the entire work of the Contract.
- C. Indicated: Shown on drawings by notes, graphics or schedules, or written into other portions of Contract Documents. Terms such as "shown", "noted", "scheduled" and "specified" have same meaning as "indicated", and are used to assist the reader in locating particular information.
- D. Directed, Requested, Approved, Accepted, etc.: These terms imply "by the Architect", unless otherwise indicated.
- E. "Approved by Architect" in no case releases Contractor from responsibility to fulfill requirements of Contract Documents.
- F. Space available to Contractor at location of project, either exclusively or to be shared with separate contractors, for performance of the work.
- G. Furnish: Supply and deliver to project site, ready for unloading, unpacking, assembly, installation, and similar subsequent requirements.
- H. Install: Operations at project site, including unloading, unpacking, assembly, erection, placing, anchoring, applying, working dimension, finishing, curing, protecting, cleaning, and similar requirements.
- I. Provide: Furnish and install, complete and ready for intended use.
- J. Installer: Entity (firm or person) engaged to install work, by Contractor, Subcontractor or Sub-subcontractor. Installers are required to be skilled in work they are engaged to install.
- K. Specification Text Format: Underscoring facilitates scan reading, no other meaning. Imperative language is directed at Contractor, unless otherwise noted.
- L. Overlapping/Conflicting Requirements: Most stringent (generally) requirement written directly into the Contract Documents is intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is acceptable. Refer uncertainties to the Architect for a decision before proceeding.
 - 1) Where optional requirements are specified in parallel manner, option is intended to be Contractor's unless otherwise indicated.

- M. Minimum Requirements: Indicated requirements are for a specific minimum acceptable level of quality/quantity, as recognized in the industry. Actual work must comply (within specified tolerances), or may exceed minimums within reasonable limits. Refer uncertainties to Architect before proceeding.
- N. Abbreviations, Plural Words: Abbreviations, where not defined in Contract Documents, will be interpreted to mean the normal construction industry terminology, determined by recognized grammatical rules. Plural words will be interpreted as singular and singular words will be interpreted as plural where applicable for context of Contract Documents.
- O. Testing Laboratory: An independent entity engaged for the project to provide inspections, tests, interpretations, reports and similar services.

PART 2 – STANDARDS AND REGULATIONS

2.01 GENERAL

- A. Industry Standards: Applicable standards of construction industry have same force and effect on performance of the work as if copied directly into the Contract Documents or bound and published therewith. Standards referenced in Contract Documents or in governing regulations have precedence over non-referenced standards, in so far as different standards may contain overlapping or conflicting requirements. Comply with standards in effect as of date of Contract Documents, unless otherwise indicated.
 - 1) Abbreviations: Where abbreviations or acronyms are used in Contract Documents, they mean the well recognized name of entity in building construction industry; refer uncertainties to Architect before proceeding, or consult "Encyclopedia of Associations" by Gale Research Company.

END OF SECTION 01090

SECTION 01150

SCHEDULE OF VALUES / REQUEST FOR PAYMENT

PART 1 - GENERAL

1.01 SCHEDULE OF VALUES

- A. As required by the General Conditions, Article 24, the Contractor shall submit a schedule of values allocated to the various portions of the building.
- B. Schedule shall be submitted within fifteen (15) days of signing contract.
- C. Upon request of the Architect, support the values with data which will substantiate their correctness.
- D. The schedule of values, unless objected to by the Architect, shall be used only as the basis for the Contractor's Applications for Payment.
- E. Other related requirements specified in other sections may apply.

PART 2 – FORM AND CONTENT OF SCHEDULE OF VALUES

2.01 GENERAL

- A. Type or Print schedule on 8 1/2" x 11" white paper: Contractor's standard forms and automated printout will be considered for approval by Architect upon Contractor's request.
- B. Identify the schedule with each of the following:
 - 1. Title of the project and location.
 - 2. Architect and project number.
 - 3. Name and address of Contractor.
 - 4. Contract designation.
 - 5. Date of submission.
- C. Schedule shall list the installed value of the component parts of the work in sufficient detail to serve as a basis for computing values for progress payments during construction.
- D. Follow the table of contents of the Project Manual as the format for listing component items.
 - 1. Identify each line item with the number and title of the respective major section of the specifications.

PART 3 – REQUEST FOR PAYMENT

3.01 GENERAL

- A. Submit itemized applications typed on AIA Document G702, Application and Certification for Payment and continuation sheet(s) G702A.

PART 4 – SUBMITTAL PROCEDURE

4.01 GENERAL

- A. Submit Applications for Payment to Architect at the times stipulated in the Agreement. Provide a minimum of three (3) copies of each.
- B. When Architect finds the application properly completed and correct, he will transmit a certificate for payment to Owner, with a copy to Contractor, by way of the Owner.
- C. Prior to the initial payment request, submit all the following;
 - 1. List of principal subcontractors and suppliers.
 - 2. Schedule of values.
 - 3. Progress schedule and first progress report.
 - 4. Copies of building permits and similar start-up authorization or certifications.
 - 5. Performance/payment bonds.
 - 6. Evidence of insurance coverage.
- D. All submittals shall be submitted prior to the second application.
- E. Following issuance of the Certificate of Substantial Completion, by the Architect of Record, the Contractor may submit special payment request, provided the following have been completed:
 - 1. Obtain permits, certificates of inspection and other approval and releases by governing authorities, required for Owner's occupancy and use of project.
 - 2. Submit warranties and similar documentation.
 - 3. Submit maintenance manuals and provide instruction of Owner's operation and / or maintenance personnel.
 - 4. Completed final cleaning of the work.
 - 5. Submit record documents.
 - 6. Submit listing of work to be completed before final acceptance.
- F. Following completion of the following requirements, the final payment request may be submitted:
 - 1. Completed the work listed as incomplete at the time of Substantial Completion, or otherwise assure Owner of subsequent completion of individual incomplete items.
 - 2. Settle liens and other claims, or assure Owner of subsequent settlement.
 - 3. Submit proof of payment on fees, taxes and similar obligations.
 - 4. Transfer operational, access, security and similar provisions to Owner; and remove temporary facilities, tools and similar items.
 - 5. Completion of requirements specified in "Project Close-out" Section 01700.
 - 6. Obtain Consent of Surety for final payment.

END OF SECTION 01150

SECTION 01155

PROGRESS SCHEDULE

PART 1 - GENERAL

- A. Progress schedules shall be prepared with input of all major sub-contractors. Schedules shall show sufficient detail to recognize potential conflicts. Schedules shall show anticipated and actual progress.
- B. Required with each request for payment as follows:
 - 1) Bar Chart - updated each month, with attention to how conflict and delays will be covered.
- C. A Project Construction Schedule shall be submitted within fifteen (15) days of signing the Construction Contract.
- D. Construction Schedules are required in Article 3.10 of the General Conditions, AIA Document A201, (2007).
- E. The original Schedules shall be in reproducible form, with two (2) copies each. The original reproducible form, after approval, must be used each month with the up-date information added to the reproducible schedules and three (3) copies of the schedules submitted with request for payment.

END OF SECTION 01155

SECTION 01200

PROJECT MEETINGS

PART 1 – GENERAL

1.01 PRE-BID CONFERENCE

- A. Before receipt of bids, the Architect will schedule a Mandatory Pre-Bid Conference with all interested parties in attendance.
- B. It will be the aim of this conference to discuss, clarify, and resolve any questions or concerns which any of the interested parties may have in order to submit their bid.
- C. The time and place of the conference will be announced to all parties involved by the Architect.

1.02 PRE-CONSTRUCTION CONFERENCE

- A. After all required documents are in order and before actually starting work at the site, the Architect will schedule a Pre-construction Conference with all interested parties in attendance.
- B. It will be the aim of this conference to discuss and resolve any last minute details and/or questions which any of the interested parties to the work may have and which have not been previously addressed.
- C. The time and place of the meeting will be announced to all parties involved by the Architect.

END OF SECTION 01200

SECTION 01250

PROCEDURES AND CONTROLS

PART 1 – ADMINISTRATION AND SUPERVISION

1.01 COORDINATION

- A. Coordinate various elements of the work and entities engaged to perform work; and coordinate the work with existing facilities/conditions, and with work by separate Contractors (if any) and by Owner.

PART 2 – INSPECTIONS AND TESTING

2.01 GENERAL

- A. Provide all required inspection and testing services specified to be done by independent agencies, where not indicated specifically as Owner's responsibility (this provision supplements General Conditions). Neither inspection and / or test results, nor failure thereof to disclose deficiencies relieves the Contractor of responsibility to comply with requirements of the Contract Documents.
- B. Provide services to the inspection and testing agencies (Owner's and Contractor's), including taking and delivery of samples, patching work and similar assistance.
- C. Require engaged agencies to perform indicated testing and submit reports promptly, and to report any significant observations having an important bearing on the work, to the Architect of Record by the most expeditious means possible.

2.02 INSTALLER INSPECTIONS

- A. Require the Installers of each major unit of work to inspect substrate and conditions before proceeding with installation, and to report (in writing) any and all unsatisfactory conditions. Correct the unsatisfactory conditions before proceeding. Inspect each product immediately before installation, and do not install any damaged or defective products, materials or equipment.

PART 3 – GENERAL INSTALLATION

3.01 PRE-INSTALLATION CONFERENCE

- A. Prior to starting installation of each major component of the work, hold a pre-installation conference, attended by each entity involved or affected by planned installation.
- B. Include technical representatives of product manufacturers and others recognized as experts or otherwise capable of influencing success of the installation.
- C. Review significant aspects of requirements for the work. Record discussion and distribute as plan of action.

3.02 INSTALLATION

- A. Comply with the manufacturer's instructions and recommendations, to the fullest extent of their printed information, if it contains more detailed or is more stringent than the requirements indicated or expressed directly in the Contract Documents.
- B. Install all work during times and under conditions, which will ensure the best possible results, and coordinate with any and all other required inspections and testing.
- C. Anchor work securely in place, properly located to existing by measured line and level, organized for best possible uniformity, visual effect, operational efficiency, durability, and similar benefits to Owner's use. Isolate non-compatible materials from contacting each other, sufficiently to prevent deterioration.
- D. Mount individual units of work at industry recognized mounting heights, if not otherwise indicated. (Refer any uncertainties to the Architect of record before proceeding).

PART 4 – CLEANING AND PROTECTION

4.01 GENERAL

- A. Clean each element of work at time of installation. Provide sufficient maintenance and protection during construction, to ensure freedom from damage and deterioration.

END OF SECTION 01250

SECTION 01300

SUBMITTALS / SHOP DRAWINGS / PRODUCT DATA

PART 1 - GENERAL

1.01 SHOP DRAWINGS

- A. Submit all Shop Drawings, Product Data and / or Samples as required by the Contract Documents.

1.02 DEFINITIONS

- A. Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work, by the Contractor or any Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the required Work.
- B. Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate a material, product or system for some portion of the required Work.
- C. Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the required Work will be judged.

1.03 EQUIVALENT SUBSTITUTIONS

- A. Whenever a material, article or piece of equipment is identified on the plans or in the specifications by a reference to a manufacturer's or vendor's name, catalogue number, etc., it is intended merely to establish a standard.
- B. Any material, article, or equipment of other manufacturer and / or vendor, which will perform adequately the duties imposed by the general design, will be considered equally acceptable provided that the material, article or equipment that is proposed to be substituted, is in the opinion of the Architect of Record, of equal substance and function.
- C. Any such material, article or piece of equipment, shall not be purchased or installed by the Contractor without the Architect's written review.

PART 2 - PROCEDURES

2.01 GENERAL

- A. The General Contractor shall submit all Shop Drawings, Product Data and Samples that are required by the Contract Documents. The Contractor shall review, approve and submit, with reasonable promptness and in such a sequence as to cause no delay in the Work or in the work of the Owner.
- B. Approving and submitting the Shop Drawings, Product Data and Samples, represents that the General Contractor, has determined and verified all materials, any field measurements, and field construction criteria related to such submittal, and that he has checked and coordinated the information contained within such submittals, with the requirements of the Work and the Contract Documents.

- C. The General Contractor shall not be relieved of the responsibility for any deviation from the requirements of the Contract Documents by the Architect's review of the Shop Drawings, Product Data or Samples unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submission and the Architect has given written acknowledgment of the specific deviation.
- D. The Contractor shall not be relieved from responsibility for errors or omissions in the Shop Drawings, Product Data or Samples by the Architect's review thereof.
- E. The Contractor shall direct specific attention, in writing or indicated on resubmitted Shop Drawings, Product Data or Samples, to revisions other than those requested by the Architect on previous submittals.
- F. No portion of the Work requiring a submission of a Shop Drawing, Product Data or Samples shall be commenced until the submittal has been reviewed and returned, by the Architect. All such portions of the Work shall be in accordance with reviewed submittals.
- G. The Architect will review and / or take other appropriate action upon the Contractor's submitted Shop Drawings, Product Data and Samples, but only for conformance with the design concept of the Work and with the information given in the Contract Documents. Any such action shall be taken with reasonable promptness, so as to cause no delay. The Architect's review of a specific item shall not indicate approval of an assembly of which the item is a component.
- H. Coordinate the preparation and processing of work related submittals with the performance of the work. Coordinate each separate submittal with other submittals and related activities that require sequential activity. Coordinate the submittal of different units of interrelated work so that one submittal will not be delayed by the necessity of reviewing a related submittal.
- I. Submit color and material selections where applicable with respective Shop Drawings.
- J. The Architect's Color Schedule requires that all submittals be in as early as possible after the Contract is awarded, in order to properly coordinate and make color selections. A color schedule shall not be produced until all items requiring color samples are on hand in Architect's office. (Also refer to Part 4 – Reviewing Time)

2.02 DISCONTINUED ITEMS

- A. Every effort is made to select and use products and colors that are currently in production. A Statement that a color or product is out of production will not be accepted unless it is accompanied by written proof from the manufacturer of the product.

PART 3 – SUBMITTAL CONTENTS

3.01 GENERAL

- A. Each submittal item shall contain all of the following information where applicable:
 - 1. The data of submission and the dates of any previous submissions.
 - 2. The project title and number.
 - 3. Contractor identification.
 - 4. Names of: Supplier and / or Manufacturer.
 - 5. Identification of the product, with the specification section number.
 - 6. Field dimensions, clearly identified as such.
 - 7. Relationship to adjacent, existing, or critical features of the work or materials.
 - 8. Applicable standards, such as ASTM or Federal Specification numbers.
 - 9. Identification of any deviation from the Contract Documents.
 - 10. Identification of revisions on all re-submittals.
- B. Submittals not clearly marked to identify the material, equipment and accessories on which approval is requested will be returned without action, for identification and must be re-submitted.
- C. Package each submittal appropriately for transmittal and handling.

PART 4 – REVIEWING TIME

4.01 GENERAL

- A. All Shop Drawings shall be submitted in adequate time, as not to delay the progress of the work.
- B. Allow a minimum of three (3) weeks for the processing of each submittal. No extension of time will be allowed because of failure to transmit the submittals to the Architect with sufficient time, in advance of the Work.

PART 5 – SPECIFIC REQUIREMENTS

5.01 SHOP DRAWINGS

- A. Products and / or Materials that are required to have submitted Shop Drawings are noted in the individual sections of the specifications and as indicated on the drawings.
- B. Provide a minimum of five (5) copies for all submitted Shop Drawings to be reviewed.
- C. When it is necessary to provide intermediate submittals between the initial and final submittals, provide and process intermediate submittals in the same manner as the initial submittals.
- D. Refer to the Mechanical and Electrical Sections for their specific Shop Drawing submittal requirements.

5.02 SAMPLES

- A. Products and / or Materials that are required to have submitted Samples are noted in the individual sections of the specifications and as indicated on the drawings.
- B. Submit all required Samples with Shop Drawings if Shop Drawings are required.
- C. Tag or mark each sample for identification.
- D. Submit two (2) samples for any Product and / or Material Samples when required.
- E. Submit four (4) samples for all Color Sample requirements.
- F. Sample submittals are for Architect / Engineer / Interior Designer's observations of color, texture, pattern and "kind", with full documentation for each set.
- G. The Contractor shall maintain one (1) returned set at the project site for purposes of quality control comparisons.

5.03 PRODUCT DATA

- A. Products and / or Materials that are required to have submitted Product Data are noted in the individual sections of the specifications and as indicated on the drawings.
- B. Submit all required Product Data with Shop Drawings if Shop Drawings are required.
- C. Provide a minimum of five (5) copies for all submitted Product Data to be reviewed.
- D. Mark each copy to indicate the actual product to be provided and show the actual selections from the options in the manufacturer's printed Product Data.
- E. Where the Product Data is required for maintenance manuals, submit two (2) additional copies, which will be turned over to the Owner and / or Maintenance Personnel.
- F. The Contractor shall maintain one (1) returned set at the project site for reference purposes.
- G. Product Data Submittals are required to contain the following information, unless it is indicated and / or shown on the accompanying Shop Drawings, where applicable.
 - 1. Clearly mark each copy to identify pertinent products or models.
 - 2. Show performance characteristics and capacities.
 - 3. Show dimensions and clearances required.
 - 4. Manufacturer's standard schematic drawings and diagrams.
 - a. Drawings and diagrams shall not contain information which is not applicable to the work.
 - b. Supplement standard information to provide information specifically applicable to the work.

5.04 MISCELLANEOUS SUBMITTALS

- A. Provide copies of miscellaneous submittals as follows:

1. **Warranties:** Submit two (2) executed copies, plus additional copies as required for maintenance manuals.
2. **Inspection and Test Reports:** Where not processed as Shop Drawings or Product Data, provide two (2) copies plus additional copies as required for maintenance manuals.
3. **Field Records:** Four (4) copies, including one copy which will be returned for inclusion in the submittal of record documents.
4. **Maintenance Manuals:** Submit two (2) bound copies.
5. **Record Drawings:** Refer to section 01700 - Project Close-out, As-Built Drawings.
6. **Miscellaneous Record Documentation:** Provide the original maintained marked-up copy.

PART 6 – REVIEW AND DISTRIBUTION

6.01 SUBMITTAL REVIEW

- A. Reviewed Submittals will be returned to the General Contractor stamped and / or marked-up by the Architect and / or Engineer as follows:
1. **"REVIEWED"** Means that the fabrication, manufacture and/or construction may proceed providing that the work is in compliance with the Contract Documents.
 2. **"REJECTED"** Means no work shall be fabricated, manufactured, and/or constructed and that the Contractor shall make a new submittal to the Architect. (Any submissions marked "Rejected" will not be permitted on the site).
 3. **"REVISE AND RESUBMIT"** Means that the submittal shall be revised and resubmitted due to inadequacies beyond minor corrective action on the submittal.
 4. **"FURNISH AS CORRECTED"** Means that fabrication, manufacture, and/or construction may proceed providing the work is in compliance with the Architect's corrections and the Contract Documents.

6.02 DISTRIBUTION

- A. The General Contractor shall distribute the returned copies of Shop Drawings and Product Data, which carry the Architect's stamp of approval to each of the following:
1. Job Site file
 2. Affected Subcontractors
 3. Supplier and / or Fabricator
 4. Owner
- B. The Contractor shall maintain at the site for the Owner one (1) record copy of all the Drawings, Specifications, Addenda, Modifications and/or Change Orders in a good order and marked to record all changes made during construction. Along with approved Shop Drawings, Product Data and Samples.
- C. This record copy shall be available to the Architect and will be delivered to him for the Owner upon completion of the Work.

END OF SECTION 01300

SECTION 01350

WARRANTIES / MANUALS

PART 1 - WARRANTIES

1.01 GENERAL

- A. The General Contractor shall provide a warranty on all materials and workmanship for at least one (1) year (min.) from the date of Substantial Completion as per the General Conditions.
- B. Additional Warranties apply to individual products, materials and / or assemblies; refer to each of the respective Specification sections to obtain the minimum required warranty information.

PART 2 - OPERATION MANUALS

- A. The Contractor shall file (in one place) all operation, maintenance or other manuals received with equipment and upon completion of project, they must be presented to the Owner with a notification, in writing, to the Architect that this has been accomplished.

END OF SECTION 01350

SECTION 01400

QUALITY CONTROL SERVICES

PART 1 - DESCRIPTION

1.01 GENERAL

- A. Quality control services include inspections and tests performed by independent agencies and any governing authorities, as well as by the Contractor. Inspection and testing services are intended to determine compliance of the work with the requirements specified in each individual specification section.
- B. Refer to each of the individual product specification sections for more specific quality control requirements.

PART 2 - RESPONSIBILITIES

2.01 GENERAL

- A. Except where indicated as being the Owner's responsibility, all other quality control services are the Contractor's responsibility, including those specified to be performed by an independent agency and not by the General Contractor.
- B. The Contractor shall employ and pay an independent agency, testing laboratory or other qualified firm to perform quality control services as specified.
 - 1. The Owner will engage and pay for services of an independent agency to perform the inspections and tests that are as specified as the Owner's responsibility.
- C. Where results of an inspection or test do not indicate compliance with the Contract Documents, all re-tests and / or additional test are the General Contractor's responsibility.
- D. The Contractor shall cooperate with all independent agencies performing inspections or tests and provide reasonable access to the work area on the Job Site.
- E. The Contractor and the Independent testing agency shall coordinate the sequence of their activities, to avoid removing and replacing work to accommodate various inspections and testing.
 - 1. The Contractor is responsible for scheduling times for inspections and tests.
- F. Employ Inspection and / or Testing Service agencies that are pre-qualified and comply with the "**Recommended Requirements for Independent Laboratory Qualifications**" by the American Council of Independent Laboratories.

2.02 SUBMITTAL

- A. Submit a certified written report of each inspection, test or similar service, in duplicate to the Architect of Record.
- B. Submit additional copies of each report to any requesting governing authority, when the authority so directs.
- C. All Inspection and/or Testing Reports are to include, but are not limited to the following:
 - 1. Names of testing agency or test laboratory.
 - 2. Dates and locations of samples, tests or inspections.
 - 3. Names of individuals present.
 - 4. Complete inspection or test data.
 - 5. Test Results.
 - 6. Interpretations.
 - 7. Recommendations.

2.03 REPAIR AND PROTECTION

- A. Upon the completion of inspections or testing, the contractor will repair any damaged work and restore all affected substrates and finishes. Comply with the requirements for "Cutting and Patching", Section 01045.

END OF SECTION 01400

SECTION 01500

TEMPORARY FACILITIES

PART 1 - GENERAL

1.01 TEMPORARY STORAGE AND OFFICE

- A. The contractor shall provide for his own use at project site, such storage and office space as deemed necessary.
- B. Provide Construction barriers and /or barricades, locations will be coordinated with the Owner's Representative on the site, before installation.
- C. Trailers and sheds as necessary shall be located with-in the construction barriers, and only with the Architect's and Owner's approval.

1.02 USE CHARGES

- A. Usage charges for temporary services of facilities are not chargeable to the Owner or the Architect.

1.03 REGULATIONS

- A. Comply with requirements of local laws and regulations governing construction and local industry standards, in the installation of temporary services and facilities.

1.04 STANDARDS

- A. Comply with the requirements of NFPA Code 241, "**Building Construction and Demolition Operations**", the ANSI-AIO Series standards for "**Safety Requirements for Construction and Demolition**", and the NECA National Joint Guideline NJG-6 "**Temporary Job Utilities and Services**".

1.05 INSPECTIONS

- A. Inspect and test each service before placing temporary utilities in use. Arrange for inspections and tests by governing authorities, and obtain certifications and permits for use.

1.06 SUBMITTALS

- A. Submit copies of reports and permits required or necessary for the installation and operation, including any reports of tests, inspections and / or permits necessary for installation, use and operation of the temporary facilities.

PART 2 – TEMPORARY SERVICES

2.01 TOILET FACILITIES

- A. The contractor may use the existing toilet facilities as designated by Owner.

2.02 GENERAL UTILITIES

- A. **Water;** Owner will pay and provide for water needed for the Project during Construction. Owner to designate water taps to be used.
- B. **Power;** Owner shall pay for electricity used for the Project during the Construction. Contractor shall coordinate with Owner to designate existing power accessible areas.
 - 1. Comply with applicable requirements of NEMA, NECA and UL standards and governing regulations. Install temporary lighting of adequate illumination levels to perform the work specified as needed.
 - 2. Comply with NECA pertaining to installation of temporary wiring service and grounding. Provide transformers, and over current protective devices at main distribution panel for power and light circuitry.
 - 3. Provide disconnects for equipment circuits.
 - 4. Connect service to existing main supply.
 - 5. Exercise control over power usage to conserve energy.
- C. **Telephone;** A telephone in the field office or a cell phone will be provided by General Contractor. Notify the Architect's office of number (s) as soon as installed. Contractor shall pay all phone costs.

2.03 PROTECTION OF OCCUPANTS

- A. Provide all warning signs, temporary fencing, barricades, supports, partitions, etc. as required to provide protection to the occupants, and to exclude unauthorized persons from the work areas. The General Contractor shall coordinate with the Okaloosa County Life Safety Officer to comply with all code requirements.
 - 1. Comply with recognized standards and code requirements for erection of barricades where needed to prevent accidents. Paint with appropriate colors and warning signs to inform personnel at the site and the public of the hazard being protected against. Provide lighting where needed, including flashing red lights where appropriate.
 - 2. Project Warning signs to be on 4' x 4' exterior grade plywood on 4" x 4" Pressure Treated Posts. Paint sign and posts white with 2" red border around the perimeter.

2.04 LIFTING DEVICES AND HOISTING

- A. Provide cranes, hoists, towers and other lifting devices necessary for the proper and efficient movement of materials; provide operating personnel for equipment as required. Equipment shall be provided with proper guys, bracing and other safety devices as required by Local or State codes.
- B. Remove towers and hoisting equipment when they are no longer needed, or as directed by the Architect.

2.05 FIRST AID SUPPLIES

- A. Comply with governing regulations and recognized recommendations within the construction industry.

2.06 RODENT AND PEST CONTROL

- A. The General Contractor shall retain a local exterminator and/or pest control company to perform extermination and control procedures at regular intervals so that the project will be relatively free of pests and their residues at all times during the construction project.
- B. Any pest control operations will be done in a lawful manner using environmentally safe materials.

2.07 COLLECTION AND DISPOSAL OF WASTE

- A. Establish a system for collection and disposal of waste materials. Enforce requirements strictly. Do not hold collected materials longer than seven (7) days during normal weather or three (3) days when the daily temperature is expected to rise above 80 degrees F. (27 degrees C).
- B. Handle waste materials that are hazardous, dangerous, or unsanitary separately from other waste by containerizing.
- C. Dispose of all waste material in a lawful manner.

2.08 SITE DRAINAGE

- A. Utilize the existing facilities for temporary drainage where feasible.
- B. Maintain the existing site, existing building and construction areas free of water.
- C. Dispose of rainwater in a lawful manner which will not result in flooding in project, nor endanger either existing or new work or temporary facilities.
- D. Take necessary measures to prevent erosion.

2.09 ENVIROMENTAL PROTECTION

- A. Conduct all construction activities, by means and methods that comply with any and all environmental regulations, to minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result from the performance of work at the site.

2.10 GENERAL PROTECTION

- A. Provide protection from damage, dust, etc. to all items in vicinity of the contract work including, but not limited to, existing building surfaces, finishes, items of equipment, utilities, etc. The General Contractor will repair any new damage caused and / or created due to this construction project, to Owner's satisfaction at no additional cost to Owner. (Non-Construction related damage would be exempt from this clause)

2.11 TEMPORARY FIRE PROTECTION

- A. Until fire protection needs may be fulfilled by permanent facilities, install and maintain temporary fire protection of the types needed to protect against losses.
- B. Comply with recommendations of NFPA Standard 10. Locate fire extinguishers where most effective.
 - 1. Provide type "A" fire extinguishers for temporary offices and spaces where there is minimal danger of electrical or flammable liquid fires.
 - 2. Provide type "ABC" dry chemical extinguishers elsewhere.
- C. Store combustible materials in containers in a fire-safe location.
- D. Review fire prevention and protection needs with local Fire Department officials and establish procedures to be followed in the event of fire.
 - 1. Instruct personnel in procedures and post warnings and information.
 - 2. Maintain unobstructed access to fire extinguishers and other access routes.
 - 3. Prohibit smoking in hazardous areas.
 - 4. Provide supervision of welding operations and similar sources of ignition.
- E. At temporary water outlets provide hoses of sufficient length to reach construction areas.
 - 1. Hang hoses with a warning sign, indicating that hoses are for fire protection purposes and are not to be removed.

2.12 TEMPORARY ENCLOSURES

- A. Provide temporary enclosure of materials, equipment, work in progress and completed portions of the Work to provide protection from exposure, foul weather, and/or other construction operations and similar activities.
- B. Provide enclosures where temporary retention of heat is needed and the existing building enclosure is opened, and there is not other provision for containment of heat. Coordinate with ventilating and material drying or curing requirements to avoid dangerous conditions.
- C. Provide temporary enclosures by installing a waterproof, fire resistant, and UL labeled tarpaulins with a flame-spread rating of 15 or less, using a minimum of wood framing.
- D. Use translucent nylon reinforced laminated polyethylene tarpaulins to admit the maximum amount of daylight in. Individual openings of 25 square feet or less may be closed with plywood or similar materials.

2.13 SECURITY ENCLOSURES AND LOCKUP

- A. Where materials and equipment must be temporarily stored, and are of substantial value or attractive for possible theft, provide a secure lockup.
- B. Enforce strict discipline in connection with the timing of installation and release of materials, to minimize the opportunity for theft and vandalism.

PART 3 – TERMINATION AND REMOVAL

3.01 GENERAL OPERATIONS

- A. **Supervision:** Limit the availability of temporary services and facilities to essential and intended uses to minimize waste and abuse.
 - 1. Do not permit temporary installation to be abused or endangered.
- B. **Maintenance:** Operate and maintain temporary services and facilities in good operating condition and in a safe and efficient manner until removal is authorized.
 - 1. Do not overload services or facilities.
 - 2. Protect from damage by freezing temperatures and/or similar elements.
 - 3. Do not allow unsanitary and/or hazardous conditions to develop or persist on site.
- C. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation and similar facilities on a 24- hour basis where required to achieve indicated results and avoid the possibility of damage to the Work or to temporary facilities.

3.02 GENERAL REMOVAL

- A. Remove each temporary service and facility promptly when need has ended, or when it is replaced by use of a permanent facility, but no later than Substantial Completion.
- B. Complete or, if necessary, restore permanent work delayed because of interference with the temporary service or facility.
- C. Repair all damaged work, clean exposed surfaces and replace any work which cannot be repaired.
- D. Clean and renovate any permanent services and/or facilities that may have been used to provide a temporary service and/or facilities during the construction period.

END OF SECTION 01500

SECTION 01630

PRODUCTS AND SUBSTITUTIONS

PART 1 – PROCEDURAL REQUIREMENTS

1.01 SOURCE LIMITATIONS

- A. The Contractor shall provide products of the same generic kind, from a single source, for each unit of work, to the fullest extent possible.
- B. When it is possible to do so, match separate procurements as closely as possible. To the extent that the product selection process is under the Contractor's control, provide products that are compatible with previously selected products.
- C. Where standard products are available that comply with specified requirements, provide those standard products that have been used successfully before in similar applications, and that are recommended by the manufacturers for, the applications indicated.

PART 2 – PRODUCT SELECTION LIMITATIONS

2.01 PRODUCT SELECTIONS

- A. Comply with the following requirements in regards to the selection of products, materials and / or equipment:
 1. Single Product Name: Where only a single product or manufacturer is named, provide the product, unless it is not available, is incompatible with existing work, or does not comply with the specified requirements or governing regulations.
 2. Two or More Products Named: Where two or more products or manufacturers are named, the selection is at the Contractor's option, provided that the product selected complies with specified requirements.
 - a. "Equivalent" Provisions: Where products or manufacturers are specified by name accompanied by the term "equivalent", provide either the product named, or comply with the requirements for gaining approval of "substitutions" for the use of an unnamed product.
 3. Compliance with Standards: Where specifications require only compliance with an imposed standard, code or regulation, the Contractor has the option of selecting any product that complies with specified requirements provided no product names are indicated.
 4. Performance Requirements: Where the specifications require compliance with indicated performance requirements, the Contractor has option of selecting any product that complies with the specific performance requirements provided no product names are indicated.

5. Performance Requirements: Where the specifications require compliance with indicated performance requirements, the Contractor has option of selecting any product that complies with the specific performance requirements provided no product names are indicated.

2.02 NAMEPLATES

- A. Except as otherwise indicated for required labels and operating data, do not permanently attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products which will be exposed to view either in occupied spaces or on the exterior of the completed project.

PART 3 – SUBSTITUTIONS

3.01 CONDITIONS

- A. The Contractor's requests for substitutions will be considered when they are reasonable, timely, fully documented, and qualify under one or more of the following circumstances:
 1. The proposed substitution is related to an "equivalent" or similar provision in the Contract Documents.
 2. The required product cannot be supplied in time for compliance with the Contract Time requirements.
 3. The required product is not acceptable to the governing authorities.
 4. The required product cannot be properly coordinated with other materials in the Work, or cannot be warranted or insured as specified.
 5. The proposed substitution will offer a substantial advantage to the Owner after deducting offsetting disadvantages including delays, additional compensation to the Architect/Engineer for redesign, evaluation and other necessary services, and similar considerations.

3.02 SUBMITTALS

- A. Include the following information, as appropriate, in each request for substitution:
 1. Provide complete product documentation, including Product Data and Samples, where appropriate.
 2. Provide detailed performance comparisons and evaluation, including testing laboratory reports where applicable.
 3. Provide coordination information indicating the effect of the substitution on other work and the time schedule.
 4. Provide cost information for the proposed Change Order.
 5. Provide the Contractor's general certification of the recommended substitution.
 - 6.

3.03 CHANGE ORDER

- A. Approval of substitutions is possible only by the Change Order or Supplemental Instructions procedure.

PART 4 – DELIVERY, STORAGE AND HANDLING

4.01 GENERAL

- A. Receive, store and handle products, materials and equipment in a manner that will prevent loss, deterioration and damage.
- B. Schedule deliveries so as to minimize long-term storage at the project site.

END OF SECTION 01630

SECTION 01700

PROJECT CLOSE-OUT

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary General Conditions and other Division-1 Specification sections, apply to the work of this section.

1.02 DESCRIPTION OF REQUIREMENTS

- A. Definitions: Close-out is hereby defined to include general requirements near end of the Contract Time, in preparation for final acceptance, final payment and normal termination of contract.
- B. Specific requirements for individual units of work are specified in sections of Division 2 through 16. Time of close-out is directly related to the "Substantial Completion", and must be a single time period for entire work.

1.03 PREREQUISITES TO SUBSTANTIAL COMPLETION

- A. General: Prior to requesting the Architect's inspection for certification of Substantial Completion, complete the following and list any known exceptions (if any) in request.
 - 1. The in progress payment request will coincident with or first following date claimed, show either 100% completion for portion of work claimed as "Substantially Complete", or list incomplete items, value of incompletion, and reasons for the items being incomplete.
 - 2. Include any supporting documentation required for completion as indicated in these Contract Documents.
 - 3. Submit statement showing accounting of any changes to the Contract Sum.
 - 4. Contractor shall notify and advise the Owner of any pending insurance change over requirements.
 - 5. Submit specific warranties, workmanship/maintenance bonds, maintenance agreements, final certifications and similar documents.
 - 6. Obtain and submit releases enabling Owner's full and unrestricted use of the work and access to services and utilities, including, where required, Occupancy Permits, operating certificates, and similar releases.
 - 7. Deliver tools, spare parts, extra stocks of materials, and similar physical items to the Owner.
 - 8. Complete the start-up testing of the systems, and deliver the instructions of the operating systems to the Owner and/or maintenance personnel. Discontinue (or change over) and remove from project site all temporary facilities and services, along with any construction tools and facilities, mock-ups, and similar elements.
 - 9. Complete the final cleaning up requirements, including the touch-up of any marred surfaces as required.
 - 10. Touch-up and otherwise repair and restore marred exposed finishes.

1.04 INSPECTION PROCEDURES

- A. Upon the receipt of the Contractor's request. The Architect of Record will either proceed with the inspection or advise the Contractor of any prerequisites not fulfilled.
- B. Following the initial inspection the Architect of Record will either prepare a Certificate of Substantial Completion, or advise the Contractor of work that must be performed prior to the issuance of the certificate; and repeat the inspection when requested and assured that work has been substantially completed.
- C. The Contractor shall prepare a type written "punch-list" of items to be completed and attach it to the Substantial Completion Form. Results of the completed inspection will form initial "punch-list" for the final acceptance.

1.05 PREREQUISITES TO FINAL ACCEPTANCE

- A. General: Prior to requesting the Architect's final construction review for certification of final acceptance and final payment, as required by General Conditions, complete the following and list any known exceptions (if any) in request:
 - 1. Submit final payment request with final releases and supporting documentation not previously submitted and/or accepted. Include certificates of insurance for products and completed operations where required.
 - 2. Submit updated final statement, accounting for additional (final) changes to Contract Sum.
 - 3. Submit a certified copy of Architect's "final punch-list" of itemized work to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance, endorsed and dated by Architect.
 - 4. Submit Consent of Surety.
 - 5. Submit Certified and Notarized Lien Release stating that all parties have been or will be paid (showing amounts).
 - 6. Submit final liquidated damages settlement statement, acceptable to Owner.
 - 7. Revise and submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Review Procedure: Upon receipt of Contractor's notice that work has been completed, including punch-list items resulting from earlier construction reviews, and excepting incomplete items delayed because of acceptable circumstances. The Architect will re-inspect the work.
- C. Upon completion of review, the Architect will either prepare the Certificate of Final Acceptance or advise the Contractor of work not completed or of obligations not fulfilled as required for final acceptance.
- D. If necessary, procedure will be repeated.

PART 2 – CLOSE-OUT PROCEDURES

2.01 EQUIPMENT CLOSE-OUT

- A. General Operating / Maintenance Instructions: Arrange for each installer of the work that requires a continuing maintenance or operation, to meet with Owner's personnel, at the project site, to provide basic instructions needed for the proper operation and any type of equipment maintenance.
1. Include instructions by manufacturer's representatives where installers are not experts in the required procedures.
 2. Review maintenance manuals, record documentation, tools, spare parts and materials, lubricants, fuels, identification system, control sequences, hazards, cleaning and similar procedures and facilities.
 3. For operational equipment, demonstrate start-up, shut-down, emergency operations, noise and vibration adjustments, safety, economy/efficiency adjustments, and similar operations.
 4. Review maintenance and operations in relation with applicable warranties, agreements to maintain, bonds, and similar continuing commitments

2.02 FINAL CLEANING

- A. For any special cleaning requirements for the specific units of work, would be specified in individual sections, of Divisions 2 through 16.
- B. General cleaning during the progress of work is specified in General Conditions and as temporary services in "Temporary Facilities" section of this Division.
- C. Provide final cleaning of the work, at time indicated, consisting of cleaning each surface or unit of work to normal "clean" condition as expected for a first-class building cleaning and maintenance program.
- D. Comply with the manufacturer's instructions for cleaning operations. The following are examples, but not by way of limitation, of cleaning levels required:
1. Remove labels which are not required as permanent labels.
 2. Clean transparent materials, including mirrors and window/door glass, to a polished condition, removing any substances which are noticeable as a vision obscuring material. Replace broken glass and all damaged transparent materials.
 3. Clean all exposed exterior and interior hard-surfaced finishes, to a dirt-free condition, free of dust, stains, films and similar noticeable distracting substances. Except as otherwise indicated, avoid disturbance of natural weathering of exterior surfaces. Restore reflective surfaces to the original reflective condition.

4. Wipe surfaces of mechanical and electrical equipment clean, including the elevator equipment and similar equipment, remove any excess lubrication and other substances.
 5. Remove debris and surface dust from limited-access spaces including roofs, plenums, shafts, attics and similar spaces.
 6. Clean all light fixtures and lamps so as to function with full efficiency.
 7. Clean the project site (within limits of construction), including landscape areas, of litter and foreign substances. Sweep paved areas to a broom-clean condition; remove stains, petro-chemical spills and other foreign deposits.
- E. Removal of Protection: Except as otherwise indicated or requested by the Architect and / or Owner. Remove all temporary protection devices and facilities.
- F. Comply with safety standards and governing regulations for the cleaning operations. Do not burn waste materials at site, or bury any debris or excess materials on the Owner's property, or discharge volatile or other harmful or dangerous materials into the drainage systems. Remove all waste materials from site and dispose of in a lawful manner.
- G. When extra materials of value are remaining after the completion of associated work, which have become the Owner's property, dispose of these to Owner's best advantage as directed.

END OF SECTION 01700

SECTION 01750

RECORD DOCUMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary General Conditions and other Division-1 Specification sections, apply to the work of this section.

1.02 SUMMARY

- A. Section includes administrative and procedural requirements for the record set of documents, including the following;
1. Record Set of Drawings.
 2. Record Set of Specifications.
- B. Related Sections:
1. Section 01300 - Submittals / Shop Drawings / Product Data.
 2. Section 01700 - Project Close-out.

1.03 RECORD DOCUMENT SUBMITTAL

- A. Submit the following copies of the Record Documents during or prior to the Project Close-out:
1. Provide two complete full size color copies, of the "marked-up" record set of drawings.
 2. Provide two complete "marked-up" record set of specifications.
 3. Provide two CD's and / or DVD's containing copies (scanned in color) of the digital / electronic files in a PDF format, including the complete set of record drawings and specifications.
- B. Copies are to be distributed, one of each type to the Owner and the Architect of Record.

1.04 USE AND STORAGE

- A. Store the Record Documents in the field office apart from the documents used for the construction. Do not use the Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition. Make all documents and samples available at all times for the Owner, Architect, Engineers and / or Building Inspectors as needed.
- B. Each Contractor is responsible for obtaining, recording, and maintaining the Record Documents information for its own Work. The General Contractor is responsible for coordinating the information, where information from more than one Contractor is to be integrated with the information from other Contractors to form one combined record.

PART 2 – PRODUCTS

2.01 RECORD DRAWINGS

- A. Mark the Record Drawings to show the actual installation where the locations vary from the installation locations shown originally. Give particular attention to information on the concealed elements that would be difficult to identify or measure and record later. Items required to be marked include, but are not limited to, the following:
1. Measured horizontal and vertical locations of underground utilities and other appurtenances, referenced to permanent surface improvements.
 2. Locations of concealed internal utilities and appurtenances.
 3. Actual equipment locations.
 4. Revisions to routing of piping and conduits.
 5. Duct size and routing.
 6. Depths of foundations below the first floor.
 7. Revisions to electrical circuitry.
 8. Dimensional changes to the Drawings.
 9. Revisions to details on the Drawings.
 10. Details not on the original Contract Drawings.
 11. Changes made following the Owner's written orders.
 12. Changes made by Addendum, Change Orders, Requests for Information (RFIs), Architect's Supplemental Instructions (ASIs), or Requests For Proposals (RFPs).
- B. Mark the Record Drawings and Shop Drawings completely and accurately. Utilize personnel proficient at recording graphic information in the production of the marked-up Record Documents.

2.02 RECORD SPECIFICATIONS

- A. Mark the Record Specifications to show Addendum, Change Orders, Requests for Information (RFIs), Architect's Supplemental Instructions (ASIs), or Requests For Proposals (RFPs).
- B. Indicate on the Record Specifications the actual product that was installed where the installation varies from the Specifications, addenda and contract modifications.
1. Give particular attention to information on concealed products and the installations that cannot be readily identified and recorded later.
 2. Mark the Record copy with the propriety name and model number of products, materials and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, installer and other necessary to provide a record of selections made.
 4. For each principal product, indicate whether the record Product Data has been submitted in the operation and maintenance manuals instead of submitted as record Product Data.
 5. Note related Change Orders and turnover drawings where applicable.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Daily mark the Record Documents to show the actual conditions where the installation varies from that shown originally. Require the individual or entity who obtained the record data, whether that individual or entity is the Installer, Sub-contractor or similar entity to provide the information for the preparation of the corresponding marked-up Record Set of Drawings.
1. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 2. Accurately record information in an acceptable drawing technique.
 3. Record data as soon as possible after obtaining it.
 4. Record and check the mark-up before enclosing the concealed installations.
 5. Record the changes and modifications as they occur. Do not wait until the end of the Project.

3.02 RECORDING

- A. During construction, maintain an extra set of the Contract Documents specifically for the purpose of creating the Record Documents. Keep them separate from the set used for construction.
1. Stamp each sheet of the Record Drawings and the cover of the Record Specifications in the lower right hand corner with a reasonably large ink stamp to read "Record Set".
 2. Mark Record Set Documents with a red pencil or pen. Use other colors to distinguish between changes for different categories of the work at the same location or for clarity. (All marks shall be photo reproducible.)
 3. Mark the record documents completely and accurately.
 4. Indicate any additional important information that was either shown schematically or omitted from the Contract Documents.
 5. Mark the Record Documents to indicate actual work done that deviates from the Contract Documents.
- B. Maintain the Record Documents in good order and in a clean, dry, legible condition.
- C. Make all Record Documents and samples available at all times for the Owner, Architect, Engineers and / or Building Inspectors as needed.
- D. After completing the preparation of the Record Documents, prepare the drawings and specifications for distribution.
- E. Submit the Record Documents, whether or not any changes and / or additional information were recorded.

END OF SECTION 01750

SECTION 06100

ROUGH CARPENTRY

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Framing with dimensional lumber
 - 2. Wood blocking and nailers
- B. Related Sections include the following:
 - 1. Section 09600 - Gypsum Board Assemblies
 - 2. Section 10650 - Sound Barrier

1.03 REFERENCES

- A. AFPA WCD No.1 - Manual for Wood Frame Construction; American Forest and Paper Association.
- B. PS 1 - Construction and Industrial Plywood; National Institute of Standards and Technology (Department of Commerce).
- C. SPIB (GR) - Grading Rules; Southern Pine Inspection Bureau, Inc.

1.04 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Preservative-treated wood
- B. Wood Treatment Data: to include any type of chemical treatment used for preservation or fire proofing of wood products. Data shall include the following:
 - 1. Type of preservative solution and pressure processed used.
 - 2. Any special handling, storing, installation or finishing requirements.
 - 3. Do Not Use chemicals containing chromium or arsenic. (No Exceptions)

1.05 DELIVERY, STORAGE AND HANDLING

- A. Keep materials under cover and dry. Protect from weather and contact with damp or wet surfaces. Stack lumber, plywood, and other panels. Provide for air circulation within and around stacks and under temporary coverings.

PART 2 – PRODUCTS

2.01 LUMBER, GENERAL

- A. Lumber Standards: Comply with DOC PS 20, "American Softwood Lumber Standard," and with applicable grading rules of inspection agencies certified by ALSC's Board of Review.
- B. Grading Inspection Agencies and the abbreviations used to reference them, include the Southern Pine Inspection Bureau (SPIB).
- C. Grade Stamps: Provide lumber with each piece factory marked with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, grade, species, moisture content at time of surfacing, and mill.
- D. Provide dressed lumber, S4S, unless otherwise indicated.
- E. Provide dry lumber with 19 percent maximum moisture content at time of dressing for a 2-inch nominal thickness or less, unless otherwise indicated.

2.02 WOOD PRESERVATIVE TREATED MATERIALS

- A. Where lumber or plywood is indicated as preservative treated or is specified to be treated, comply with applicable requirements of AWWA C2 (lumber) and AWWA C9 (plywood). Mark each treated item with the Quality Mark Requirements of an inspection agency approved by ALSC's Board of Review.
- B. Pressure treat the above ground items with waterborne preservatives to a minimum retention of 0.25 lb/cu. ft. After treatment, kiln-dry lumber and plywood to a maximum moisture content of 19 and 15 percent, respectively.
- C. Treat items as indicated on drawings and also include the following:
 - 1. Treat wood in contact with masonry, concrete and /or exposed to the weather.

2.03 MISCELLANEOUS LUMBER

- A. Provide lumber for support or attachment of other construction, including cant strips, bucks, nailers, blocking, furring, grounds, stripping, and similar members.
- B. For mounting electrical or telephone equipment, provide fire-retardant-treated plywood panels with grade, C-D Plugged Exposure 1, in thickness not less than 15/32 inch.

2.04 FASTENERS

- A. Provide fasteners of size and type indicated or required to comply with the requirements specified in this Article for material and manufacture.
 - 1. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with a hot-dip zinc coating per ASTM-A 153/A 153M-05 or of Type 304 stainless steel.

- B. Power-Driven Fasteners: CABO-NER-272.
- C. Wood Screws: ASME-B 18.6.1.
- D. Lag Bolts: ASME-B 18.2.1 / Heavy hex structural bolts: ASME B18.2.6.
- E. Bolts: Steel bolts complying with ASTM-A 307-07b, Grade A; with ASTM-A 563-07a hex nuts and, where indicated, flat washers.

2.05 METAL FRAMING ANCHORS

- A. Provide framing anchors made from metal indicated, of structural capacity, type, and size indicated, and as follows:
 - 1. Research/Evaluation Reports: Provide products acceptable to authorities having jurisdiction and for which model code research/evaluation reports exist that show compliance of metal framing anchors, for application indicated, with building code in effect for Project.
 - 2. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
- B. Galvanized Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation for locations not exposed to the exterior.

2.06 MISCELLANEOUS MATERIALS

- A. Sill-Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from the manufacturer's standard widths to suit width of sill members indicated.

PART 3 – EXECUTION

3.01 INSTALLATION, GENERAL

- A. Discard units of material with defects that impair quality of rough carpentry and that are too small to use with minimum number of joints or optimum joint arrangement.
- B. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted to other construction. Scribe and cope as required for accurate fit.
- C. Apply field treatment complying with AWWPA M4 to cut surfaces of preservative-treated lumber and plywood.
 - 1. Allow preservative to dry prior to erecting members.
- D. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. "Table 2304.9.1--Fastening Schedule," of the 2010 Florida Building Code.

- E. Provide miscellaneous members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- F. Use finishing nails for exposed work, unless otherwise indicated. Countersink nail heads and fill holes with wood filler.

3.02 WOOD FRAMING INSTALLATION, GENERAL

- A. Framing Standard: Comply with AFPA's "Manual for Wood Frame Construction," unless otherwise indicated.
- B. Do not splice structural members between supports.

3.03 WALL AND PARTITION FRAMING INSTALLATION

- A. General: Arrange studs so wide face of stud is perpendicular to direction of wall or partition and narrow face is parallel. Provide single bottom plate and double top plates using members of 2-inch nominal thickness whose widths equal that of studs, except single top plate may be used for non-load-bearing partitions. Anchor or nail plates to supporting construction, unless otherwise indicated.
- B. Construct corners and intersections with three or more studs. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- C. Fire block concealed spaces of wood-framed walls and partitions at each floor level and at ceiling line of top story. Where fire blocking is not inherent in framing system used, provide closely fitted wood blocks of 2-inch nominal thick lumber of same width as framing members.
- D. Frame openings with multiple studs and headers. Provide nailed header members of thickness equal to width of studs. Set headers on edge and support on jamb studs.

END OF SECTION 06100

SECTION 06200

FINISH CARPENTRY

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
1. Finish Carpentry Items: Baseboards, Door Casings and Window Stools.
- B. Related Sections include the following:
1. Section 06100 - Rough Carpentry; concealed wood blocking and shims.
 2. Section 08110 - Steel Door Frames.
 3. Section 08211 - Flush Wood Doors.
 4. Section 09900 - Painting; Painting and Finishing of finish carpentry items.

1.03 REFERENCES

- A. American Hardboard Association (AHA) - A135.4 Basic Hardwood Manual.
- B. American Society for Testing and Materials (ASTM)
1. E84 - Surface Burning Characteristics of Building Materials.
- C. Architectural Woodwork Institute (AWI) - Architectural Woodwork Quality Standards Illustrated.
- D. American Wood-Preservers' Association (AWPA)
1. C2 - Lumber, Timber, Bridge Ties and Mine Ties-Preservative Treatment by Pressure Process.
- E. National Institute of Standards and Technology (Department of Commerce)
1. PS 1 - Construction and Industrial Plywood.
 2. PS 20 - American Softwood Lumber Standard.
- F. National Hardwood Lumber Association (NHLA) - G101 Rules for the Measurement and Inspection of Hardwood and Cypress.

1.04 SUBMITTALS

- A. Product Data: For each type of product and material required, including product specifications, component profiles and product test reports.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Standard Grade quality, unless other quality is indicated for specific items.
- B. Installer Qualifications: Company specializing in installing the products specified in this section with minimum three years of documented experience.
- C. Conform to applicable codes for fire retardant requirements.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Keep materials under cover and dry. Protect from weather and moisture damage.
- B. Do not deliver or install woodwork until building is enclosed, wet work is completed and the HVAC system is operating.

1.07 PROJECT CONDITIONS

- A. Coordinate the installation work with plumbing rough-in, electrical rough-in, and any other installation of associated and adjacent components.
- B. Sequence the installation to ensure utility connections are achieved in an orderly and expeditious manner.
- C. Do not install woodwork until building is enclosed, wet work is completed and the HVAC system is operating.

PART 2 – PRODUCTS

2.01 MATERIALS, GENERAL

- A. Softwood or Hardwood Lumber for Opaque Finish: Any species meeting AWI Grade II requirements for Opaque finish, maximum moisture content of 13 percent.
- B. Hardwood Lumber for Stained Finish: Birch species, plain sawn, meeting AWI Grade II requirements for Transparent finish, maximum moisture content of 11 percent.
- C. Lumber fabricated from old growth timber is not permitted.

2.02 INTERIOR STANDING AND RUNNING TRIM

- A. Lumber Trim for Opaque Finish (Painted): Finished lumber (S4S), either finger-jointed or solid lumber, of the following species and grades:
 - 1. Eastern White Pine, Finish or #1 Common Grade. NELMA or NLGA.
 - 2. Ponderosa or Sugar Pine, Finish or #1 Common Grade. NLGA or WWPA.
 - 3. Douglas Fir, Superior or Prime Finish Grade. NLGA, WCLIB or WWPA.
- B. Moldings for Opaque Finish (Painted): P-grade, Eastern White Pine, Ponderosa / Sugar Pine or Douglas Fir either finger-jointed or solid lumber made to patterns included in

WMMPA WM 7, using materials made from kiln-dried stock and graded under WMMPA WM 4.

1. Base Pattern: WM 623, (9/16" x 3 1/4") Ogee Base. (minimum)
2. Shoe-Mold Pattern: WM 126, (1/2" x 3/4") quarter-round shoe mold.
3. Casing Pattern: WM 356, (1 1/16" x 2 1/4") Colonial Casing.

2.03 FASTENERS

- A. Fasteners for Interior Finish Carpentry: Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment and concealed where possible.

2.04 ACCESSORIES

- A. Lumber for Shimming and Blocking: Softwood lumber of pine species.
- B. Primer: Alkyd primer sealer type.
- C. Wood Filler: Solvent base, tinted to match surface finish color.
- D. Adhesive: Type recommended by AWI/AWMAC to suit application.

2.05 FABRICATION

- A. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- B. Provide cutouts for plumbing, electrical fixtures, inserts, appliances, outlet boxes, and fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal cut edges.

2.06 FINISHING

- A. Back prime woodwork items to be field finished, prior to installation.
- B. Refer to Section 09900 - Painting; for priming and final finishing of installed woodwork and for material and application requirements for woodwork not specified to receive a final finish in this Section.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with the requirements for installation tolerances and other conditions affecting performance. Proceed with the installation only after unsatisfactory conditions have been corrected.
 1. Verify adequacy of backing and support framing.
 2. Verify location and sizes of utility rough-in associated with work of this section.
 3. Verify mechanical, electrical, and building items affecting work of this section are in place and ready to receive this work.
 4. Examine any shop-fabricated work for completion and complete work as required, including the removal of packing and back priming.

- B. Clean substrates of projections and substances detrimental to the application.
- C. Before installing finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours, unless longer conditioning is recommended by the manufacturer and / or installer.
- D. Prime lumber and trim moldings for applications to be painted, including both faces and edges. Cut to required lengths and prime ends. Comply with the requirements of Section 09900 - Painting.

3.02 INSTALLATION, GENERAL

- A. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.
 - 1. Do not use manufactured units with defective surfaces, sizes, or patterns.
- B. Install finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
 - 1. Scribe and cut finish carpentry to fit adjoining work. Refinish and seal cuts as required.
 - 2. Countersink fasteners, fill surface flush, and sand where face fastening is unavoidable.
 - 3. Install to tolerance of 1/8" in 96" for level and plumb. Install adjoining finish carpentry with 1/32" maximum offset for flush installation and a 1/16" maximum offset for reveal installation.

3.03 STANDING AND RUNNING TRIM INSTALLATION

- A. Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24" long, except where necessary. Stagger joints in adjacent and related standing and running trim. Cope at returns and miter at corners to produce tight-fitting joints with full-surface contact throughout length of joint. Use scarf joints for end-to-end joints. Plane backs of casings to provide uniform thickness across joints, where necessary for alignment.
 - 1. Match color and grain pattern across joints.
 - 2. Install trim after gypsum board joint finishing operations are completed.
 - 3. Drill pilot holes in hardwood before fastening to prevent splitting. Fasten to prevent movement or warping. Countersink fastener heads on exposed carpentry work and fill holes.

3.04 ADJUSTING

- A. Replace finish carpentry that is damaged or does not comply with requirements. Finish carpentry may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing. Adjust joinery for uniform appearance.

END OF SECTION 06200

SECTION 07210

BUILDING INSULATION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following installation of the building insulation:
1. Mineral-Fiber Blanket Insulation located in cavity walls and above ceiling for the purpose of sound attenuation.
- B. Related Sections include the following:
1. Section 06100 - Rough Carpentry
 2. Section 09260 - Gypsum Board Assemblies
 3. Section 09510 - Suspended Acoustical Ceilings

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
1. ASTM C 665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.04 SUBMITTALS

- A. Product Data: For each type of product and material required, including surface burning characteristics, product insulating properties and product test reports.

1.05 QUALITY ASSURANCE

- A. Obtain each type of building insulation from a single source with resources to provide products complying with requirements indicated without delaying the Work.
- B. Manufacturer: A company that has specialized in the manufacturing of the products specified in this section with a minimum of three years experience.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with the manufacturer's written instructions for handling, storing, and protecting during installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Faced Mineral-Fiber Blanket Insulation:
 - a. Owens Corning Company
 - b. Certain Teed Corporation, division of Saint-Gobain.
 - c. Johns Manville, division of Berkshire Hathaway Company.
 - d. Knauf Insulation, division of Knauf Group.
 - e. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 MATERIALS

- A. Provide insulating materials that comply with the requirements and referenced standards.
- B. Faced Mineral Fiber Blanket Insulation: ASTM C 665, Type III (blankets with facing); consisting of fibers manufactured from glass, with a maximum flame-spread and smoke developed indices of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with the requirements in which substrates and related work are specified and to determine if other conditions affecting the performance of the insulation are satisfactory. Do not proceed with the installation of the insulation, until unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. Comply with the insulation manufacturer's written instructions applicable to the products and applications indicated.
- B. Install insulation that is undamaged, dry, unsoiled, and has not been exposed at any time to rain, ice and / or snow.
- C. Extend insulation in a single layer to produce the thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation.
- D. Install mineral-fiber blankets according to ASTM C 1320 and as follows:
1. With faced blankets having stapling flanges, secure insulation by inset, stapling flanges to sides of framing members.
- E. Do not permit subsequent work to disturb the applied insulation.

END OF SECTION 07210

BUILDING INSULATION
STOKES ARCHITECTURAL, INC.

SECTION 07900

JOINT SEALANTS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following installation of the joint sealants:
1. Preparing the sealant substrate surfaces.
 2. Sealant and joint backings.
- B. Related Sections include the following:
1. Section 09260 - Gypsum Board Assemblies

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
1. ASTM C 834 - Standard Specification for Latex Sealants.
 2. ASTM C 919 - Standard Practice for Use of Sealants in Acoustical Applications.
 3. ASTM C 1193 - Standard Guide for Use of Joint Sealants.

1.04 SUBMITTALS

- A. Product Data: For each type of product and material required, including product specifications and product test reports.

1.05 QUALITY ASSURANCE

- A. Perform sealant work in accordance with the sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Maintain proper temperature range and humidity requirements as recommended by the sealant manufacturer during and after installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Dow Corning Corporation.
 2. Pecora Corporation.
 3. Sonneborn Building Products.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 SEALANTS

- A. Type IS - General Purpose Interior Sealant: Acrylic Emulsion Latex, ASTM C834, Type OP, Grade NF; single component, paintable.
 - 1. Applications / used for:
 - a. Interior wall and ceiling control joints.
 - b. Interior joints around door frames and wall surfaces.
 - c. Other interior joints for which no other type of sealant is indicated.

2.03 ACCESSORIES

- A. Primer; Non-staining type, as recommended by sealant manufacturer to suit application.
- B. Joint Cleaner; Non-corrosive and non-staining type, as recommended by the sealant manufacturer that is compatible with the joint forming materials.
- C. Joint Backing; ASTM D 1056-07, round, closed cell polyethylene foam rod, oversized 30 to 50 percent larger than the joint width.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Examine substrates and conditions, with Installer present, for compliance with the requirements in which substrates and related work are specified and to determine if other conditions affecting the performance of the joint sealants are satisfactory. Do not proceed with the installation, until unsatisfactory conditions have been corrected.
- B. Remove any loose materials and foreign matter which might impair adhesion of sealant.
- C. Clean and prime joints in accordance with manufacturer's instructions and ASTM C 1193.

3.02 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Comply and perform sealant installation in accordance with ASTM C 1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- E. Apply sealant within recommended application temperature ranges. Consult the manufacturer when sealant cannot be applied within these temperature ranges.
- F. Tool joints concave.

3.03 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.04 PROTECTION

- A. Protect joint sealants during and after curing period from contact with any contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion.
- B. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 07900

SECTION 08110

STEEL DOOR FRAMES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of the hollow metal door frames.
- B. Related Sections include the following:
1. Section 06100 - Rough Carpentry
 2. Section 08211 - Flush Wood Doors
 3. Section 08710 - Door Hardware
 4. Section 09260 - Gypsum Board Assemblies
 5. Section 09900 - Painting

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
1. ASTM A 366/A-96 Specification for Steel, Sheet, Carbon, Cold-Rolled.
 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 3. ASTM E 152 - Standard Methods of Fire Tests of Door Assemblies.
- B. American National Standard Institute (ANSI):
1. ANSI A117.1 - Standard for Accessible and Usable Buildings and Facilities.
 2. ANSI A250.3 - Test Procedure and Acceptance Criteria for Factory-Applied Finish Painted Steel Surfaces for Steel Doors and Frames.
 3. ANSI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
 4. ANSI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
- C. National Fire Protection Association (NFPA):
1. NFPA 80 - Standard for Fire Doors and Windows.
 2. NFPA 101 - Life Safety Code
 3. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
- D. Underwriters Laboratories (UL):
1. UL 10B - Standard for Fire Tests of Door Assemblies.
 2. UL 1784 - Air Leakage Test of Door Assemblies.

- E. Steel Door Institute (SDI):
 - 1. SDI 100 - Standard Steel Doors and Frames.
 - 2. SDI 105 - Recommended Erection Instructions for Steel Frames.
- F. Americans with Disabilities Act and Accessibility Guidelines (ADA).
- G. Florida Building Code (FBC) 2010 Edition.

1.04 SUBMITTALS

- A. Product Data: For each type of product and material required, including fabrication and erection details of construction, dimensions, hardware preparation, product specifications and product test reports.
- B. Shop Drawings: For each type of door frame, including dimensioned elevation to indicate size and locations of the hardware, details of construction conditions at openings and indicate all anchorage and accessory items.
- C. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
- D. Schedule: Indicate each door opening assembly in project, cross referenced to plans and details, utilizing the same designations as shown in the architectural drawings.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in the manufacturing of hollow metal door frames with a minimum documented experience of five years.
- B. Comply with the Steel Door Institute (SDI) "Recommended Specifications for Standard Steel Doors and Frames" for materials quality, metal gages, and construction details for Grades and Models indicated.
- C. Obtain hollow metal door frames from a single source with the resources to provide products complying with the requirements indicated without delaying the Work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver door frames cardboard-wrapped or crated to provide protection during transit and job storage. Provide additional protection to prevent damage to finish of factory-finished door frames.
- B. Inspect door frames on delivery for damage. Minor damages may be repaired provided refinished items match new work and are acceptable to Architect; otherwise, remove and replace damaged items as directed.
- C. Store door frames at building site under cover. Avoid using non-vented plastic or canvas shelters that could create a humidity chamber. If cardboard wrappers on doors become wet, remove cartons immediately. Provide minimum ¼ inch spaces between stacked doors to promote air circulation and preventing corrosion.

1.07 WARRANTY

- A. Project Warranty shall be as stated in Division 1 of the Specifications.
- B. Unless otherwise stated, duration of all warranties shall begin on the date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Amweld Building Products.
 - 2. Ceco Door Products.
 - 3. Mesker Door, Inc.
 - 4. Rediframe Products.
 - 5. Steelcraft.
 - 6. Timely Industries.
 - 7. Windsor Republic Doors;
 - 8. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 STEEL DOOR FRAMES

- A. Furnish and provide metal frames for doors, according to the referenced articles above and of type and styles as shown on the Drawings and/or Schedules.
- B. Interior Door Frames, Knock-down type:
 - 1. Fire Rating: Same as door, labeled.
 - 2. Thickness: 18 gage (minimum).
 - 3. Fabricate frames of galvanized steel sheet.
 - 4. Conceal fastenings, unless otherwise indicated.
 - 5. Finish: Factory primed, for field finishing.
- C. Door Silencers: Drill stops to receive and provide 3 rubber silencers on strike jambs of single door frames and 2 silencers on heads of double door frames.
- D. Anchors: Frames shall be provided with a minimum of three anchors per jamb suitable for the adjoining wall construction. Anchors shall be minimum 18-gauge steel or 7-gauge wire.
- E. Frames shall be furnished in manufacturer's standard factory-applied coat of rust-inhibiting primer complying with ANSI A250.10 for acceptance criteria.
- F. Fabricate steel door frame units to be rigid, neat in appearance, and free from defects, warp, or buckle. Where practical, fit and assembly units in manufacturer's plant before shipment, to assure proper assembly at Project site. Comply with ANSI 250.08 requirements.
- G. Hardware Preparation: Door Frames shall be reinforced, drilled and tapped to receive mortised hinges, locks, latches, flush bolts, etc, as required in ANSI A115 and ANSI A250.6.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine and verify that the openings are ready to receive work and opening dimensions and clearances are as indicated on the approved shop drawings. Do not begin installation until openings have been properly prepared.
- B. If the opening preparation is the responsibility of another installer, notify the General Contractor of the unsatisfactory preparation before proceeding.

3.02 INSTALLATION

- A. Acclimate the doors and frames to interior project conditions for a minimum of 24 hours before beginning the installation.
- B. Install door opening assemblies in accordance with approved shop drawings and the manufacturer's printed installation instructions, using installation methods and materials specified in the installation instructions.
- C. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.
- D. Use anchorage devices to securely fasten the door frame assembly to wall construction without distortion or imposed stresses.
- E. Install doors and door hardware in accordance with manufacturer's printed instructions.
- F. Maintain plumb and level tolerances as specified in the manufacturer's printed installation instructions.

3.03 ADJUSTING

- A. Adjust doors in accordance with door manufacturer's maintenance instructions to swing open and shut without binding, and to remain in place at any angle without being moved by gravitational influence.

3.04 CLEANING AND PROTECTION

- A. Clean all surfaces of the doors, opening assemblies and/or all exposed door hardware in accordance with the manufacturer's maintenance instructions.
- B. Remove all labels and visible markings. (except for any fire rated labels)
- C. Protect installed products until the completion of project.
- D. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 08110

SECTION 08211

FLUSH WOOD DOORS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of solid core, flush wood doors with a hardwood face veneer. Flush wood doors shall be for interior use only, and may be either fire rated or non-fire rated construction as required or as shown in the Drawings.

- B. Related Sections include the following:

1. Section 08110 - Steel Door Frames
2. Section 08710 - Door Hardware
3. Section 08800 - Glass and Glazing
4. Section 09900 - Painting

1.03 REFERENCES

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

1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM E 90 - Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
3. ASTM E 152 - Standard Methods of Fire Tests of Door Assemblies.

- B. National Fire Protection Association (NFPA):

1. NFPA 80 - Standard for Fire Doors and Windows.
2. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.

- C. Underwriters Laboratories (UL):

1. UL 10B - Standard for Fire Tests of Door Assemblies.

- D. National Wood Window and Door Association (NWWDA) Standards for wood doors.

- E. Architectural Woodwork Institute (AWI) Architectural Woodwork Quality Standards.

- F. Window and Door Manufacturers Association (WDMA)

- G. Door and Hardware Institute (DHI) WDHS-3 Wood Door Hardware Standards.

- H. Americans with Disabilities Act and Accessibility Guidelines (ADA).

- I. Florida Building Code (FBC) 2010 Edition.

1.04 SUBMITTALS

- A. Product Data: For each type of door, include details of door core and edge construction, dimensions, hardware preparation, product specifications and product test reports.
- B. Shop Drawings: Indicate location, size and hand of each door; elevation of each kind of door's construction details and other information not covered in the Product Data. Show the location of mortises and holes for hardware, extent of hardware blocking, cutouts, and other support systems as required. Include data pertinent to the Work. Indicate face veneers and any finishing requirements.
- C. Product Certificates of manufacturers of non-named products shall be required certifying that each product furnished meets the Specifications and with the individual project requirements for the purpose intended. Certificates shall be submitted with the Shop Drawings.
- D. Warranty: Specimen of the manufacturer's standard wood door warranty.
 - 1. Include coverage for de-lamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.
- E. Schedule: Indicate each door opening assembly in project, cross referenced to plans and details, utilizing the same designations as shown in the architectural drawings.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in the manufacturing of solid core wood doors with a minimum documented experience of five years.
- B. Obtain solid core flush wood doors from a single source with the resources to provide products complying with the requirements indicated without delaying the Work.
- C. Comply with NWWDA I.S. 1-A Architectural Wood Flush Doors unless more stringent requirements are indicated.
- D. Fire rated wood doors shall comply with NFPA-80 based on testing in accordance with NFPA 252.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Protect doors during transit, storage, and handling to prevent damage, soiling and deterioration. Comply with the requirements of referenced standard and manufacturer's written instructions.
- B. Mark each door with individual opening numbers used on Shop Drawings. Use removable tags or concealed markings.
- C. Inspect doors on delivery for damage. Remove and replace damaged items as directed.
- D. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

1.07 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized and will be maintained in the storage and installation areas during the remainder of the construction period to comply with requirements of the referenced quality standard for Project's geographical location.
- B. Coordinate the work with the door opening construction, door frame and door hardware installation.
- C. Acclimate the doors and frames to interior project conditions for a minimum of 24 hours before beginning the installation.

1.08 WARRANTY

- A. General Warranty: Door manufacturer's warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under the requirements of the Contract Documents.
- B. Door Manufacturer's Warranty: Submit written agreement on door manufacturer's standard form, signed by manufacturer, Installer, and Contractor, agreeing to repair or provide new doors for any defective doors that have warped (bow, cup, or twist) more than 1/4 inch in a 42 by 84 inch section, that show signs of telegraphing of the core construction in the face veneers exceeding 0.01 inch in a 3-inch spa, or do not comply with the tolerances in referenced quality standards.
 - 1. Warranty shall also include the installation and finishing that may be required due to repair or replacement of the defective door(s).
 - 2. Warranty shall be in effect during and the following period of time after the date of Substantial Completion.
 - a. Solid-Core Interior Doors: Life of installation.
 - 3. Project Warranty shall be as stated in Division 1 of the Specifications.
 - 4. Special Warranty:
 - a. Warranty shall be the manufacturer's standard form, signed by the Manufacturer, Installer and Contractor, in which manufacturer agrees to repair or replace doors that are defective in materials or workmanship for the life of the installation.
 - b. Defective products are defined as having warped more than 1/4" in a 42"x 84" section or show visible telegraphing of core construction in face veneers.
- C. Unless otherwise stated, duration of all warranties shall begin on the date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Algoma Hardwoods, Inc.
 2. Chappell Door Company.
 3. Eggers Industries, Architectural Door Division
 4. Graham Wood Doors, an Assa Abloy Group Company.
 5. Marshfield Door Systems, Inc. (formerly Weyerhaeuser Doors)
 6. Mohawk Flush Doors, Inc.
 7. Oshkosh Door Company.
 8. V-T Industries Inc.
 9. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 WOOD DOORS - GENERAL

- A. Furnish and provide solid core, flush interior wood doors, according to the referenced articles above and of type and styles as shown on the Drawings and/or Schedules and complies with the following requirements:
1. Grade: Custom with Grade A faces for a transparent field finish in accordance with AWI/AWMAC Architectural Woodwork Quality Standards.
 2. Thickness: 1-3/4 inches unless otherwise indicated.
 3. Provide solid core doors at all interior locations.
 4. Flush type, 7 ply construction with stiles and rails bonded to the core, then entire unit to be abrasive planed and sized before applying veneer.
 5. Door faces will be a plain sliced wood veneer, of a species to match the existing doors. The vertical edges will be the same species as the face veneer. Veneer applied to hardwood edge is not acceptable.
 6. Solid Core may be a bonded structural composite lumber core type SCLC-5, unless a mineral core is required to achieve the necessary fire rating.
 7. Provide manufacturer's standard lock blocks and other required blocking for an improved screw holding capability approved for use in doors as needed to eliminate through-bolting hardware. Through-bolting hardware is not acceptable.
 8. Provide manufacturer's standard wood or metal frame for light openings in flush wood doors.
 9. All glass material in vision panels shall be tempered laminated glass. See Section 08800 "Glass and Glazing" for more information.
 10. All doors requiring fire ratings shall carry the UL label certification.

2.03 FABRICATION

- A. Fabricate flush wood doors in accordance with the door quality standard specified above.
- B. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

- C. Hardware Preparation: Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS, final hardware schedules, door frame shop drawings, and hardware templates.
 - 1. Coordinate measurements of the hardware mortises in the metal frames to verify dimensions and alignment before factory machining.
- D. Cut and trim openings through doors to comply with applicable requirements of referenced standards. Seal around openings prior to installation of trim, stops, etc. (verify Drawings).
- E. Bevel lock and hinge edges of single acting doors 3 degrees.
- F. Doors will be stained and clear coated in the field to match the existing doors.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine and verify that the openings are ready to receive work and opening dimensions and clearances are as indicated on the approved shop drawings. Do not begin installation until openings have been properly prepared.
- B. If the opening preparation is the responsibility of another installer, notify the General Contractor of the unsatisfactory preparation before proceeding.

3.02 INSTALLATION

- A. Acclimate the doors and frames to interior project conditions for a minimum of 24 hours before beginning the installation.
- B. Install door opening assemblies in accordance with approved shop drawings and the manufacturer's printed installation instructions, using installation methods and materials specified in the installation instructions.
- C. Install door frames before hanging doors.
- D. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.
 - 1. Verify that the frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
- E. Install doors and door hardware in accordance with manufacturer's printed instructions.
- F. Maintain plumb and level tolerances as specified in the manufacturer's printed installation instructions.
- G. Coordinate the installation of the doors with installation of frames and hardware.
- H. Refer to Section 08710 "Door Hardware" for hardware installation.

3.03 ADJUSTING

- A. Adjust doors in accordance with door manufacturer's maintenance instructions to swing open and shut without binding, and to remain in place at any angle without being moved by gravitational influence.
- B. Re-hang or provide new doors that do not swing or operate freely.
- C. Adjust doors for smooth and balanced door movement. Adjust closer for full closure and according to ADA requirements.

3.04 CLEANING AND PROTECTION

- A. Clean all surfaces of the doors, opening assemblies and/or all exposed door hardware in accordance with the manufacturer's maintenance instructions.
- B. Remove all labels and visible markings. (except for any fire rated labels)
- C. Wood doors shall be protected at all times during construction. After installation, take appropriate measures to protect doors from abuse. Protect doors as recommended by door manufacturer to ensure that wood doors are without damage and deterioration at time of Substantial Completion.
- D. Do not partially cover transparent door finishes with paper, cardboard or any other opaque covering that will create uneven aging of veneer.
- E. Replace doors that are damaged or do not comply with requirements. Doors may be repaired or refinished if the work complies with requirements and shows no evidence of repair or refinishing.
- F. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 08211

SECTION 08710

DOOR HARDWARE

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for swinging doors.
- B. Related Sections include the following:
 - 1. Section 08110 - Steel Door Frames
 - 2. Section 08211 - Flush Wood Doors

1.03 REFERENCES

- A. American National Standards Institute (ANSI)
- B. Door and Hardware Institute (DHI)
- C. National Fire Protection Association (NFPA)
- D. Underwriters' Laboratories, Inc. (UL)
- E. Florida Building Code (FBC) 2010 version

1.04 SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Hardware Schedule: Prepared by or under the supervision of supplier, detailing assemblies of the door hardware, as well as procedures and diagrams. Coordinate the final Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
- C. Product Test Reports: Based on evaluation of comprehensive tests performed by the manufacturer and witnessed by a qualified testing agency, indicating current products comply with requirements.
- D. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1.
- E. Warranties: Special warranties specified in this Section.

1.05 QUALITY ASSURANCE

- A. Obtain each type and variety of door hardware from a single source with the resources to provide products complying with requirements indicated without delaying the Work.

- B. Supplier Qualifications: Door hardware supplier with warehousing facilities in Project's vicinity and who is or employs a qualified Architectural Hardware Consultant (AHC), available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
- C. Installer Qualifications: An experienced installer who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Regulatory Requirements: Comply with provisions of the following:
 - 1. Where indicated to comply with American with Disabilities Act (ADA), "Accessibility Guidelines for Builders and Facilities (ADAAG)," ANSI A117.1, and FED-STD-795, Uniform Federal Accessibility Standards," as follows:
 - a. Handles, Pulls, Latches, locks, and other operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
 - b. Door Closers and Fire Doors will comply with the maximum opening force requirements indicated.
 - c. Thresholds will not be more than ½ inch high. Bevel raised thresholds with a slope of not more than 1:2.
 - 2. NFPA 101: Comply with the following for means of egress doors:
 - a. Latches, Locks and Exit Devices: Not more than 15 lbf to release the latch. Locks shall not require the use of the key, tool, or special knowledge for operation.
 - b. Door Closers: Not more than 30 lbf to set door in motion and not more than 15 lbf to open door to minimum required width.
 - c. Thresholds: Not more than ½ inch high.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Tag each item or package separately with identification related to the final Hardware Schedule, and include basic installation instructions with each item or package.

1.07 COORDINATION

- A. Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.08 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, any other warranties made by Contractor under the requirements of the Contract Documents.

- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair and / or replace the components of the door hardware that fails in materials or workmanship within the specified warranty period.
1. Standard Warranty Period: One year from the date of Substantial Completion, unless otherwise indicated.
 2. Warranty Period for Manual Closers: Ten years (min) from date of Substantial Completion.

1.09 MAINTENANCE SERVICE

- A. Furnish a complete set of specialized tools and maintenance instructions as needed for the Owner's continued adjustment, maintenance, and/or any removal and replacement of the door hardware.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Provide door hardware for each door to comply with requirements in this Section, door hardware sets indicated on the drawings. (Hardware Schedule)
1. Door Hardware Sets: Provide quantity, size, finish or color indicated.

2.02 HINGES AND PIVOTS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Hagar Companies
 2. Stanley Commercial Hardware, Div. of Stanley Works
 3. McKinney Products Company, Div. of Essex Industries, Inc.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)
- B. Provide (3) three hinges for all doors with heights up to 90 inches,
1. Use non-removable hinge pins at exterior out-swing door locations.
 2. Provide non-ferrous hinges for use on exterior doors.
 3. Fasten with Phillips flat head machine screws for fiberglass doors and frames.
 4. Finish screw heads to match surface of hinges.

2.03 LOCKS AND LATCHES

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Best Lock Corporation
 2. Schlage Lock Company, Ingersoll-Rand Company
 3. Sargent and Greenleaf, Div. of Essex Industries, Inc.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

- B. Provide Mortise Locksets and Latchsets as indicated in the hardware schedule, of similar type, style and finish as the existing building hardware.
1. Use extra heavy duty cylindrical locks with corrosion resistant plated steel.
 2. Locking spindle shall be a stainless steel interlocking design.
 3. Strikes will be a minimum of 16 gauge with a 1 inch deep box construction.
 4. Use full compression type springs.
 5. Key the locks to match the existing building keying system.
- C. Provide tactile warning on doors that lead to areas that might prove dangerous to a person with a vision disability. These doors shall be made identifiable to the touch by a textured surface on the door handle, lever, pull, or other operating hardware. The textured surface may be made by knurling, roughening or a material applied to the surface.

2.04 EXIT DEVICES AND CONCEALED VERTICAL ROD DEVICES

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Von Duprin; an Ingersoll-Rand Company
 2. Corbin Russwin Architectural Hardware; Div. of Yate Security, Inc
 3. Sargent and Greenleaf, Div. of Essex Industries, Inc.
 4. Dorma Door Controls
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)
- B. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305. Provide cylinder dodging.
- C. Fire Exit Devices: Comply with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.

2.05 CYLINDERS AND KEYING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Cylinders: (Match existing keying system) (No Substitution)
- B. Construction Keying: Comply with the following:
1. Construction Cores: Provide construction cores that are replaceable by permanent cores as indicated by the keying schedule.
- C. Keying System: Master key or grand master key locks to Owner's existing system.

2.06 CLOSERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. LCN Closers; an Ingersoll-Rand Company
 2. Corbin Russwin Architectural Hardware; Div. of Yate Security, Inc
 3. Sargent and Greenleaf, Div. of Essex Industries, Inc.
 4. Dorma Door Controls
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.07 PROTECTIVE TRIM

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Hager Companies
 2. H.B. Ives
 3. Rockwood Manufacturing Company
 4. Triangle Brass Manufacturing Company, Inc.
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)
- B. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.

2.08 FLOOR STOPS AND WALL BUMPERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Hagar Companies
 2. Stanley Commercial Hardware, Div. of Stanley Works
 3. Sargent and Greenleaf, Div. of Essex Industries, Inc.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)
- B. Provide a door stop at each door, use the type indicated on the Hardware Schedule or the type that would be considered the best suited for the door location and function. Do not locate or mount any floor stop at any location that may impede the normal walking paths.

2.09 FABRICATION

- A. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - 1. Where it is not possible to reinforce substrate adequately for screws, use through-bolts with sleeves. Do not use where bolt head or nut would be exposed on face of the door.
 - 2. Finish the exposed heads and nuts the same as hardware on that side of the door.
- B. Produce hardware units of basic metal and forming method indicated, using the manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

2.10 HARDWARE FINISHES

- A. Provide all hardware with the same matching finishes as the existing building hardware.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with the requirements for installation tolerances, wall and floor construction and any other condition that may affect the performance of the hardware. Do not proceed with the installation, until all unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights indicated in the following applicable publications, unless specifically indicated or required to comply with governing regulations.
 - 1. DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
- B. Install each door hardware item to comply with the manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate the removal, storage and any reinstallation of surface protective trim units with finishing work as specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units, level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of mechanical equipment and to comply with referenced requirements.
- B. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
 - 1. Examine and re-adjust each item of door hardware as necessary to ensure the function of doors, and door hardware.
 - 2. Consult with and instruct as needed, the Owner's personnel on any recommended maintenance procedures.
 - 3. Replace any door hardware items that have deteriorated or failed due to faulty design, materials, or installation of the door hardware units and provide new of equal quality, finish, function and manufacturer.

3.04 CLEANING AND PROTECTION

- A. Clean adjacent surface soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

END OF SECTION 08710

SECTION 08800

GLASS AND GLAZING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
1. Glass and Glazing for flush wood doors.
 2. Glass and glazing for interior view windows.
 3. Glazing compounds and accessories.
- B. Related Sections include the following:
1. Section 06200 - Finish Carpentry
 2. Section 08211 - Flush Wood Doors

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
1. ASTM C 864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005.
 2. ASTM C 1036 - Standard Specification for Flat Glass; 2006.
 3. ASTM C 1048 - Standard Specification for Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass; 2004.
 4. ASTM C 1193 - Standard Guide for Use of Joint Sealants; 2005a.
- B. American National Standards Institute (ANSI)
1. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2004.
- C. Safety Standard for Architectural Glazing Materials; 16 CFR 1201 (current edition)
- D. Glass Association of North America; (GANA) Glazing & Sealant Manual
- E. Florida Building Code (FBC) 2010 version.

1.04 PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, and / or installation; failure of sealants or gaskets to remain water and airtight; deterioration of glazing materials; or other defects in construction.
- B. Minimum Glass Thickness for interior lites: Not less than 6 mm.

1.05 SUBMITTALS

- A. Product Data for Glass Types: Provide physical and environmental characteristics, size limitations, special handling or installation requirements.
- B. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA Glazing Manual, FGMA Sealant Manual, and SIGMA TM-3000 Glazing Guidelines for glazing installation methods.
- B. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201 and ANSI Z97.1
 - 1. Subject to compliance with requirements, permanently mark safety glass with a certification label of Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Do not install glazing when ambient temperature is less than 50 degrees F. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Guardian Industries.
 - 2. PPG Industries.
 - 3. AFG Industries, Inc.
 - 4. Visteon Glass Systems.
 - 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 HEAT-TREATED - FULLY TEMPERED GLASS (FT)

- A. Fabrication Process: By vertical (tong-held) or horizontal (roller-hearth) process, at manufacturer's option, except provide horizontal process where indicated as tongless or free of tong marks.
- B. Heat-Treated Float Glass: ASTM C 1048-04; Type I (transparent glass, flat); Quality q3 (glazing select).

2.03 ELASTOMERIC GLAZING SEALANTS

- A. General: Provide products of type indicated, complying with the following requirements:
 - 1. Compatibility: Select glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 - 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
- B. Elastomeric Glazing Sealant Standard: Comply with ASTM C 920-05 and other requirements indicated for each liquid-applied, chemically curing sealant in the Glazing Sealant, including those referencing ASTM C 920-05 classifications for type, grade, class, and uses.

2.04 MISCELLANEOUS GLAZING MATERIALS

- A. Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

2.05 FABRICATION

- A. Fabricate glass and other glazing products in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing standard, to comply with system performance requirements.
- B. Grind smooth and polish exposed glass edges.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine framing glazing, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep system.
 - 3. Minimum required face or edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and ready to receive glazing.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
 - 1. Clean contact surfaces with solvent and wipe dry.
 - 2. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
 - 3. Prime surfaces scheduled to receive sealant.
 - 4. Install sealants in accordance with ASTM C 1193 and FGMA Sealant Manual and in accordance with the manufacturer's instructions.

3.03 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Glazing channel dimensions, as indicated on Drawings, provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Product site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.04 SEALANT GLAZING

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.05 PROTECTION AND CLEANING

- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent interval during construction, but not less than once a month, for build-up of dirt, scum alkaline deposits, or stains; remove as recommended by glass manufacturer.
- D. Remove and provide new glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents, and vandalism, during construction period.
- E. Clean glass and adjacent surfaces.

END OF SECTION 08800

SECTION 09260

GYPSUM BOARD ASSEMBLIES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division I Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following installation of a gypsum board wall and ceiling assembly.
- B. Related Sections include the following:
 - 1. Section 06100 - Rough Carpentry
 - 2. Section 07210 - Building Insulation
 - 3. Section 10650 - Sound Barrier

1.03 REFERENCES

- A. The publications listed below form part of this specification to the extent referenced. Publications are referenced in this specification section by the basic designation only.
- B. American Society for Testing and Materials (ASTM), Standard Specifications for:
 - 1. ASTM C 11 Gypsum Board Terms and Definitions
 - 2. ASTM C 36 Gypsum Wallboard
 - 3. ASTM C 475 Gypsum Board Joint Treatments
 - 4. ASTM C 1047 Trim Accessories
 - 5. ASTM C 954 Fasteners (screws)

1.04 SUBMITTALS

- A. Product Data: For each type of product and material required, including test reports.

1.05 QUALITY ASSURANCE

- A. Provide a gypsum board assembly with fire-resistance ratings as required, with materials and construction types identical to those tested in assemblies indicated according to ASTM E 119-08a by and independent testing and inspecting agency acceptable to any authorities having jurisdiction.
 - 1. Fire Resistance Rated Assemblies: Indicated by design designations from UL's "Fire Resistance Directory" and GA-600, "Fire Resistance Design Manual."

1.06 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840-08 requirements or the gypsum board manufacturer's written recommendations, whichever are more stringent.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer of supplier.
- B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Stack gypsum panels flat to prevent sagging.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Georgia-Pacific Gypsum LLC; Subsidiary of Georgia-Pacific Corporation.
 - 2. National Gypsum Company.
 - 3. United States Gypsum / USG Corporation.
 - 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 MATERIALS

- A. Provide gypsum wallboard and accessory materials that comply with the requirements and referenced standards.
- B. Gypsum Wallboard:
 - 1. 5/8 inch core, (type X fire rating where required)
- C. Trim Accessories:
 - 1. Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet.
- D. Joint Treatment:
 - 1. Joint Tape: Paper or Fiber Mesh as required.
 - 2. Joint Compound: Use a formulation that is compatible with the other compounds applied on previous or successive coats.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including structural framing, for compliance with the requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Comply with Gypsum Board Application and Finishing Standards: ASTM C 840-08

- B. Install the ceiling gypsum board panels across the framing members to minimize the number of abutting end joints and to avoid abutting end joints in the central area of each ceiling. Stagger all abutting end joints of the adjacent panel not less than one framing member.
- C. Install gypsum board panels with the face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate all edges and end joints over supports, except in the ceiling application where intermediate supports are provide behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite side of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Attach gypsum board panels to steel framing so that the leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- F. Attach gypsum board panels to framing provided at openings and cutouts.
- G. Space fasteners in gypsum board panels according to the referenced gypsum board application and finishing standard and manufacturer's written recommendations.
- H. Attach the Trim Accessories to the framing with the same fasteners that are used for the gypsum board panels. Otherwise, attach according to the manufacturer's written instructions.

3.03 FINISHING

- A. Treat gypsum board joints, interior angles, edge trim, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from all adjacent surfaces.
- B. Pre-fill all open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with a type of trim that has flanges and are not intended for tape.
- D. Gypsum Board Finish Levels: Finish panels to a level 4 finish, according to ASTM C 840

3.04 CLEANING AND PROTECTING

- A. Protect exposed concrete slab / floor from drips and / or spills of the joint compound. Provide temporary covering and other provisions to minimize spattering of plaster on the floor and walls.
- B. When drywall work is completed, remove unused materials and any drywall debris.

END OF SECTION 09260

SECTION 09510

SUSPENDED ACOUSTICAL CEILINGS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Installation of a suspended metal grid ceiling including acoustical ceiling tiles.
- B. Related Sections include the following:
 - 1. Section 07900 - Joint Sealants

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM C 635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Ceilings.
 - 2. ASTM C 636/C 636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 3. ASTM E 1264 - Standard Classification for Acoustical Ceiling Products.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data on metal grid system components and acoustic tile units.
- B. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- C. Samples: Submit two samples at least 4 x 8 inch in size illustrating material and finish of acoustical units.

1.05 QUALITY ASSURANCE

- A. Source Limitation: Obtain each type acoustical ceiling panel and suspended grid system from one manufacturer source with resources to provide products of consistent quality in appearance and physical properties without delaying the Work.
- B. Coordinate the layout and installation of the acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment and partition assemblies.

1.06 PROJECT CONDITIONS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, and sufficient heat and / or cooling is provided, and operational.

1. Ambient temperature and humidity conditions must be maintained at the levels indicated for the Project when occupied for its intended use.
- B. All dust generating activities have terminated, and overhead work is completed, tested, and approved.
- C. Before installing acoustical tiles, permit them to reach room temperature and a stabilized moisture content.

1.07 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed; packaged with protective covering for storage; and identified with labels describing contents.
 1. Acoustical Ceiling Panels: Full-size units equal to 2.0 percent of amount installed.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Deliver acoustical tiles, suspension system components, and accessories to the Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Handle acoustical tiles carefully to avoid chipping edges or damaging units in any way.

1.09 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, any other warranties made by Contractor under the requirements of the Contract Documents.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 1. Armstrong World Industries, Inc.
 2. CertainTeed Ceilings.
 3. US Gypsum Corporation.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 ACOUSTICAL PANELS

- A. Panels: Mineral fiber, ASTM E 1264 Type IV, with the following characteristics:
 1. Size: 24 x 24 inches.
 2. Thickness: 3/4 inches.
 3. Composition: Wet felted.
 4. Light Reflectance: LR 0.90, determined as specified in ASTM E 1264.
 5. NRC Range: 0.70, determined as specified in ASTM E 1264.
 6. Ceiling Attenuation Class (CAC): 35, determined as specified in ASTM E 1264.

7. Edge: Reveal edge.
8. Surface Color: White.
9. Surface Pattern: To be selected by Owner.
10. Humidity Resistance: Sag-resistant panels as recommended by manufacturer.
11. Anti-Microbial Protection: Provide special paint on face and back of panels to inhibit or retard surface growth of mold / mildew on painted surfaces.
12. Suspension System: Exposed grid.

2.03 SUSPENSION SYSTEM

- A. Suspension Systems: ASTM C 635; die cut and interlocking components, with stabilizer bars, clips, splices, and perimeter moldings as required.
 1. Profile: Tee; 15/16 inch wide face.
 2. Construction: Double web.
 3. Finish: White painted.

2.04 ACCESSORIES

- A. Support Channels and Hangers: Hot-dipped Galvanized steel; size and type to suit the application and ceiling system flatness requirement specified.
- B. Perimeter Moldings: Same material and finish as grid. Provide L-shaped molding for mounting at same elevation as face of grid.
- C. Acoustical Sealant For Perimeter Moldings: Specified in Section 07900 - Joint Sealants.
- D. Touch-up Paint: Type and color to match acoustical and grid units.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, including structural framing and substrates to which acoustical tile ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical tile ceilings.
- B. Do not proceed with the installation, until all unsatisfactory conditions have been corrected.

3.02 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C 636, ASTM E 580, and the manufacturer's instructions and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for a maximum deflection of 1:360.
- C. Locate system on room axis according to the reflected ceiling plan.
- D. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.

- E. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent items.
- F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- H. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- I. Do not eccentrically load system or induce rotation of runners.
- J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 - 1. Install in bed of acoustical sealant.
 - 2. Use longest practical lengths.
 - 3. Overlap and rivet corners.

3.03 INSTALLATION - ACOUSTICAL PANELS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install units after above-ceiling work is complete.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.
 - 3. Double cut and field paint exposed reveal edges.

3.04 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

3.05 CLEANING

- A. Clean exposed surfaces of acoustical tile ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace tiles and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09510

SECTION 09652

TILE CARPETING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of a modular, tufted carpet tile flooring.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using Radiant Heat Energy Source.
 - 2. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Flooring.
 - 3. ASTM F 1869 - Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
 - 4. ASTM F 2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- B. National Fire Protection Association (NFPA)
 - 1. NFPA 253 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using Radiant Heat Energy Source.
- C. Carpet and Rug Institute (CRI):
 - 1. CRI 104 - Installation Standard

1.04 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
 - 2. Include installation recommendations for each type of substrate required.
- B. Samples for Owners Selection: Label each Sample with manufacturer's name, material description, color and pattern.
- C. Maintenance Data: For carpet to include in maintenance manuals specified in Division 1.
 - 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 - 2. Precautions for cleaning materials and methods that could be detrimental to carpet.
- D. Warranty Documentation: Submit a copy of the manufacturer's standard warranty.

1.05 QUALITY ASSURANCE

- A. Obtain all carpet from a single source with the resources to provide products complying with requirements indicated without delaying the Work.
- B. Installer Qualifications: Use an experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
- C. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Product Options: Products and manufacturers named in Part 2 establish requirements for product quality in terms of appearance, construction, and performance. Other manufacturers' products comparable in quality to named products and complying with requirements may be considered. Refer to Section 01630 – Products and Substitutions.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

1.07 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity."
- B. Environmental Limitations: Do not install carpet until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.08 WARRANTY

- A. General: The special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under the requirements of the Contract Documents.
- B. Special Carpet Warranty: Written warranty, signed by carpet manufacturer agreeing to replace carpet that does not comply with the requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, and de-lamination.
 - 1. Warranty Period: 10 years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:

1. Mohawk Industries / Lees Carpets
2. Bentley Mills
3. J&J Industries
4. Shaw, a Berkshire Hathaway Company
5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 CARPET TILE

- A. Color: As selected by the Owner from manufacturer's full range.
- B. Pattern: As selected by the Owner.
- C. Construction: Tufted.
- D. Surface Texture: Patterned Loop.
- E. Gauge: 5/64"
- F. Stitches: 10 per inch.
- G. Finish Pile Thickness: .097" inch average.
- H. Face Yarn: Antron Legacy nylon with DuraTech Soil Protection by Invista.
- I. Dye System: Yarn dyed.
- J. Fiber Technology: Duracolor by Lees Stain, Resistant System passes GSA requirements for permanent stain resistant carpet.
- K. Face Yarn Weight: 22 oz/sq. yd.
- L. Backing Materials: Integrated Cushion Thermobond Tile
- M. Primary: reinforced synthetic.
- N. Bonding Agent: premium vinyl.
- O. Secondary: fiberglass reinforced thermoplastic composite
- P. Total Weight: 142.45 oz. per yard
- Q. Size: 24" x 24" or 18" x 18"
- R. Installation Method: quarter turn.
- S. Performance Characteristics: As follows:
 1. Static: 3.0 KV
 2. Flammability: DOC-FF-1-70
 3. Flooring Radiant Panel Test: NFPA Class 1 when tested under ASTM E-648.
 4. Smoke Density: NBS Smoke Chamber NFPA-258 – Less than 450 Flaming Mode.

2.03 ACCESSORIES

- A. Trowel-able Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, non-staining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with the flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
 1. Adhesives shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 2. Adhesives shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Verify that substrates and conditions are satisfactory for carpet installation and comply with requirements specified.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
 - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by the carpet manufacturer.
 - 2. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Comply with the Carpet and Rug Institute (CRI) Installation Standard 2011, "Site Conditions; Floor Preparation," and with carpet manufacturer's written installation instructions for preparing substrates.
- B. Use trowel-able leveling and patching compounds, according to the manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by the carpet manufacturer.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.
 - 1. After cleaning, examine substrates for moisture, alkaline salts, carbonation or dust.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.03 INSTALLATION

- A. Comply with CRI 104, Section 14, "Carpet Modules," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: **Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive.**
- C. Maintain dye lot integrity. Do not mix dye lots in same area.
- D. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, and thresholds. Bind or seal cut edges as recommended by carpet tile manufacturer.
- E. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, non-staining marking device.
- G. Install pattern parallel to walls and borders.

3.04 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
 - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet tile manufacturer.
 - 2. Remove yarns that protrude from carpet tile surface.
 - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet tile to comply with CRI 104, Section 16, "Protecting Indoor Installations."
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by the carpet manufacturer.

END OF SECTION 09652

SECTION 09660

RESILIENT TILE FLOORING (VCT)

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of Resilient Tile flooring. Indicated as **VCT** in the project finish schedule.

1. Homogeneous linoleum floor tile, full spread adhesive method installation.

1.03 REFERENCES

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

1. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using Radiant Heat Energy Source.
2. ASTM E 662 Test Method for Specific Density of Smoke Generated by Solid Materials.
3. ASTM F 710 Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring.
4. ASTM F 970 Test Method for Static Load Limit.

- B. National Fire Protection Association (NFPA)

1. NFPA 253 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
2. NFPA 258 - Test Method for Specific Density of Smoke Generated by Solid Materials.

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide flooring which has been manufactured, fabricated and installed to performance criteria certified by manufacturer without defects, damage, or failure.

1.05 SUBMITTALS

- A. Product Data: Submit technical data from each manufacturer or resilient products required.

- B. Quality Assurance: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
2. Certificates: Product certificates signed by manufacturer certifying materials that with specified performance characteristics and criteria, and physical requirements.
3. Manufacturer's Instructions: Manufacturer's installation instructions.

- C. Samples for Owners Selection: Submit manufacturer's standard color selection samples for resilient products required, including all available colors and patterns.

1.06 QUALITY ASSURANCE

- A. Obtain flooring from a single source with the resources to provide products complying with requirements indicated without delaying the Work.
- B. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 1. Engage installer certified as an "Associate Mechanic" or "Master Mechanic."
 - 2. Certificate: Submit certificate indicating qualification.
- C. Regulatory Requirements: Provide resilient tile flooring (VCT) with the following fire performance characteristics as determined by testing products in accordance with ASTM method indicated below by a certified testing laboratory or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Critical Radiant Flux: Class 1 Rating per NFPA 253 (ASTM 648) (0.45 watts/cm² or greater).
 - 2. Smoke Density: Less than 450 per NFPA 258 (ASTM E 662).

1.07 DELIVERY, STORAGE AND HANDLING

- A. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. Deliver materials in manufacturer's original, unopened, undamaged containers with the identification labels intact.
- C. Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.
 - 1. Material should be stored in areas that are fully enclosed, weather-tight with the permanent HVAC system set at a uniform temperature of at least 68 degrees F for 48 hrs. prior to, during and after installation.

1.08 PROJECT CONDITIONS

- A. Environmental Requirements / Conditions: In accordance with the manufacturer's recommendations, Areas to receive flooring should be clean, fully enclosed and weather-tight with the permanent HVAC system operational and set at a minimum of 68° F for a minimum of 7 days prior to, during, and 7 days after the installation.
 - 1. The flooring material should be conditioned in the same manner for at least 48 hours prior to the installation.
 - 2. Maximum temperature should not exceed 100 degrees F after installation.
 - 3. Areas to receive flooring shall be adequately lighted to allow for proper inspection of the substrate, installation and seaming of the flooring, and for final inspection.

1.09 WARRANTY

- A. General: The warranty specified in this Article shall not deprive Owner of other rights. Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under the requirements of the Contract Documents.

- B. Manufacturer's Warranty: Submit, for the Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
1. Warranty Period: Five (5) years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Armstrong Industries.
 2. Azrock by Tarkett Commerical
 3. Congoleum Corporation
 4. Forbo Flooring, Inc.
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 RESILIENT TILE (VCT)

- A. Color: As selected by the Owner from manufacturer's full range.
- B. Pattern: As selected by the Owner.
- C. Size: 12" x 12"
- D. Gauge: 0.080"
- E. Slip Resistance: ADA Compliant. Coefficient of Friction greater than 0.6.
- F. Composition 1: Free of asbestos.
- G. Adhesive: Type recommended by the manufacturer of resilient product for the specific substrate conditions.
- H. Resilient Edge Strips: solid rubber or vinyl edging, in tapered or rounded profile, nominally 1 inch in width and 1/8 inch in thickness.

PART 3 - EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.

3.02 EXAMINATION

- A. Verify that the existing substrate conditions are acceptable for product installation in accordance with the manufacturer's instructions.
1. Field verify existing conditions, patch and level floor as necessary to provide even floor.
- B. Material Inspection: In accordance with manufacturer's installation requirements, visually inspect materials prior to installation. Material with visual defects shall not be installed.

3.03 PREPARATION

- A. Protect adjacent work areas and finish surfaces from damage during product installation.
- B. Surface Preparation:
 - 1. Prepare floor substrate in accordance with the manufacturer's instructions.
 - 2. Prepare floor substrate to be smooth, rigid, flat, permanently dry, clean and free of foreign materials such as dust, paint, grease, oils, solvent, curing and hardening compounds, sealers, asphalt and old adhesive residue.
 - 3. Comply with ASTM F 710 Practice for Preparing Concrete Floors and other Monolithic Floors to Receive Resilient Flooring.
- C. Conduct moisture tests on all concrete floors regardless of the age, grade level or the presence of existing flooring.
 - 1. Conduct calcium chloride tests in accordance with ASTM F 1869.
 - 2. Measure the internal relative humidity of the concrete slab in accordance with ASTM F 2170.
 - 3. Perform pH tests on concrete floors regardless of the age or grade level. If the pH is greater than 10, it must be neutralized prior to beginning the installation.
 - 4. One test of each type should be conducted for every 1,000 sq. ft. of flooring.
 - a. The tests should be conducted around the perimeter of the room and where moisture may be evident.
 - b. Concrete moisture vapor emissions must not exceed 5.0 lbs. per 1,000 sq. ft. in 24 hrs.
 - c. Concrete internal relative humidity must not exceed 75%.
 - d. A diagram of the area showing the location and results of each test should be submitted to the Architect, General Contractor or End User.
 - e. If any test result exceeds these limitations, the installation must not proceed until the problem has been corrected.

3.04 INSTALLATION

- A. Installation Method: Install tile flooring with full spread adhesive method from established area center marks, in order for tile at opposite edges of area to be of equal width. Avoid using cut tile widths at perimeter less than four inches of tile width. Install tiles square with room axis. Lay tile material into wet adhesive, as recommended by tile manufacturer.
 - 1. Full Spread Adhesive Method, Seamless Flooring Installation: Rout out seams and heat weld together with complementary colored heat welding rod in accordance with flooring manufacturer's recommendations.
 - 2. Adhesive Material Installation: Use trowel as recommended by flooring manufacturer for specific type of adhesive. Spread at a rate of approximately 150 sq. ft./gal. as recommended by flooring manufacturer.
- B. Scribe, cut, fit flooring to butt tightly to vertical surfaces, permanent fixtures and built-in furniture, including pipes, outlets, edgings, thresholds and cabinets.
- C. Extend flooring into toe spaces, door reveals, closets, and similar openings.

- D. Adhere resilient flooring to flooring substrate without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections in completed flooring installation.
 - 1. Use adhesive applied to substrate in compliance with flooring manufacturer's recommendations, including those for trowel notching, adhesive mixing, and adhesive open and working times.
- E. Roll resilient flooring as required by the flooring manufacturer.

3.05 CLEANING AND PROTECTION

- A. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products.
- B. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.
 - 1. Remove visible adhesive and other surface blemishes using cleaning methods recommended by tile floor manufacturer.
 - 2. Sweep and vacuum floor after installation.
 - 3. Do not wash floor until after time period recommended by flooring manufacturer.
 - 4. Damp mop flooring to remove black marks and soil.
- C. Protect installed product and finish surfaces from damage during construction. Remove and legally dispose of protective covering at time of Substantial Completion.

END OF SECTION 09660

SECTION 09900

PAINTING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes surface preparation and field painting of the following:
 - 1. Exposed interior surfaces.
 - 2. Surface preparation, priming and finish coats specified in this Section are in addition to shop priming and any surface treatment specified in other Sections.
- B. Related Sections include the following:
 - 1. Section 07900 - Joint Sealants
 - 2. Section 08110 - Steel Door Frames
 - 3. Section 08211 - Flush Wood Doors
 - 4. Section 09260 - Gypsum Board Assemblies

1.03 REFERENCES

- A. The publications listed below form part of this specification to the extent referenced. Publications are referenced in this specification section by the basic designation only.
- B. American Society for Testing and Materials (ASTM), Standard Specifications for:
 - 1. ASTM D 16 Standard Terms and Definitions
 - 2. ASTM D 4442 Direct Moisture Content Measurement
- C. SSPC (PM1) - Steel Structures Painting Manual; Society for Protective Coatings.

1.04 SUBMITTALS

- A. Product Data: For each product and material required, including block fillers and primers.
- B. Material List: Provide an inclusive list of required coating materials, indicating each material and cross reference each specific coating, finish system and application. Identify each material by a manufacturer's catalog number and general classification.

1.05 QUALITY ASSURANCE

- A. Obtain block fillers, primers and finish coat materials for each coating system from a single manufacturing source and/or supplier with the resources to provide products that comply with the requirements indicated.
- B. Applicator Qualifications: Engage an experienced applicator who has completed the painting systems applications similar in material and extent as indicated for this Project with a record of successful in-service performance.

1. Applicator will have a minimum of 5 years experience in this type of application of similar painting systems.

1.06 PROJECT CONDITIONS

- A. Apply water-based paints only when the temperature of the surfaces to be painted and surrounding air temperatures are between 50°F and 90°F.
- B. Apply solvent-thinned paints only when the temperature of the surfaces to be painted and surrounding air temperatures are between 45°F and 95°F.
- C. Do not apply paint during or under the following conditions;
 1. In the rain, fog, and / or mist.
 2. When the relative humidity exceeds 85%.
 3. At temperatures less than 5°F above the dew point.
 4. To damp and / or wet surfaces.
- D. Painting may continue during inclement weather only if the surfaces and areas to be painted are enclosed and heated to be within the temperature limits as specified by the manufacturer during the application and drying periods.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the Project site in the manufacturer's original, unopened packages and containers, labeled with manufacturer's name and all of the following information:
 1. Product name or title of material.
 2. Product description (generic classification or binder type).
 3. Manufacturer's stock number and date of manufacture.
 4. Contents by volume, for pigment and vehicle constituents.
 5. Color name and number.
 6. VOC content.
 7. Application and thinning instructions.
- B. Store materials not in use, in tightly covered containers in a well ventilated area.
 1. Remove oily rags and waste daily to keep storage area neat and orderly.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Products are Subject to compliance with the requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 1. Sherwin-Williams Company.
 2. Benjamin Moore & Company.
 3. PPG Industries, Inc.
 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 MATERIALS

- A. Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer based on testing and field experience.

- B. Provide the manufacturer's best-quality paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification and / or other required information will not be acceptable.
- C. All paint and coatings will be ready mixed to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating that is capable of drying and / or curing free of streaks or sags.
- D. Colors: All colors will match the existing building facility and / or be selected by the Owner / Architect.

2.03 INTERIOR PAINT

- A. Gypsum Drywall Ceilings; flat latex, 2 coat system.
 - 1. Primer: One coat latex primer / sealer.
 - 2. Flat: One coat of flat latex.
- B. Woodwork and / or Wood Trim; primed, interior enamel, 3 coat system.
 - 1. Primer: Alkyd or Acrylic latex based interior wood primer.
 - 2. Gloss / Semi-gloss: Two coats of acrylic latex interior enamel.
- C. Ferrous Metals; primed, latex, 2 coat system.
 - 1. Touch-up: Latex primer.
 - 2. Gloss / Semi-gloss: Two coats of latex enamel.

(Apply additional paint coats as needed to provide an even, non-streaked finish)

2.04 INTERIOR STAIN

- A. Stained Wood Doors and Woodwork; Alkyd Based, Satin-Varnish Finish.
 - 1. Filler: Stainable Paste Wood Filler as needed.
 - 2. Stain Coat: Alkyd based, interior wood stain.
 - 3. Sealer Coat: Clear sanding sealer.
 - 4. Finish Coat: 2 coats of an Alkyd based or Polyurethane Varnish.

2.05 ACCESSORY MATERIALS

- A. Provide any additional accessory materials that may be required to achieve the finishes specified, latex fillers, paint thinners, linseed oil, etc.
- B. All accessory products are required to be a commercial quality product.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine, inspect and verify, with the Applicator present, that the surfaces to receive paint are free of dust, loose particles, oil and other materials which would affect the proper application. Do not proceed until unsatisfactory conditions have been corrected.
 - 1. Proceed with the paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.

2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.
- B. Measure the moisture content of the surfaces using an electronic moisture meter. Do not apply any finishes until the moisture content of the surfaces are below the requirements.
- C. Notify the Architect about any anticipated problems using the materials specified over the substrates used on the Project Site.

3.02 PREPARATION

- A. Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
 1. After completing the painting operation in each space or area, reinstall the items removed using workers skilled in the trades involved.
- B. Before applying paint or other surfaces treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning.
 1. Schedule cleaning and painting so that the dust and other contaminants from the cleaning process will not fall on wet and / or newly painted surfaces.
- C. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
 1. Cementitious Materials: Prepare concrete masonry block, and concrete surfaces to be painted. Remove any efflorescence, chalk, dust, dirt, grease, oils and release agents. Roughen surfaces as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.
 - a. Use abrasive blast-cleaning methods if recommended by paint manufacturer.
 - b. Determine the alkalinity and moisture content of surfaces by performing the appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint any surfaces where moisture content exceeds that permitted in manufacturer's written instructions.
 2. Ferrous Metals: Clean un-galvanized ferrous-metal surfaces that have not been shop coated to remove oil, grease, dirt, loose mill scale, and any other foreign substances. Use solvent or mechanical cleaning methods that comply with the Steel Structures Painting Council's (SSPC) recommendations.
 - a. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
 - b. Touch up bare areas and shop applied primer coats that have been damaged. Use a wire-brush and clean with solvents as recommended by the paint manufacturer, and touch up with the same primer as the shop coat.
 3. Galvanized Surfaces: Clean galvanized surfaces with a non-petroleum-based solvent so that the surface is free of oil and surface contaminants. Remove any pre-treatment from galvanized sheet metal fabricated from coil stock by mechanical methods.

- D. Materials Preparation: Mix and prepare paint materials according to the manufacturer's written instructions.
1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 2. Stir material before application to produce a mixture of uniform density. Stir as needed to remove any surface film and strain material before using.
 3. Use only thinners approved by paint manufacturer and only within recommended limits.
- E. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of the same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat.

3.03 APPLICATION

- A. Apply paint according to the manufacturer's written instructions. Use applicators and techniques best suited for the substrate and type of material being applied.
1. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
 2. Provide finish coats that are compatible with primers used.
 3. Paint surfaces behind equipment the same as similar exposed surfaces.
 4. Paint all 6 sides of each door (top, bottom and side edges) the same as the faces.
 5. Lightly sand between each succeeding enamel coat as required.
- B. Apply the first coat to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after the preparation is done and before any subsequent surface deterioration takes place.
1. Do not apply any succeeding coats until the previous coat has fully cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions sand between the applications.
 2. Omit the primer coat on any metal surfaces that have been shop primed and touch-up painted.
 3. If undercoats, stains, or other conditions show through the final coat of paint, apply additional coats until paint film is of uniform finish, color and appearance. Give special attention to ensure that edges, corners crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of the flat surfaces.
 4. Allow sufficient time between successive coats to permit the proper drying. Do not recoat surfaces until the paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and where application of another coat of paint does not cause the under coat to lift or lose adhesion.
- C. Application Procedures: Apply paints and / or coatings by brush, roller, spray, or with any other type of applicator according to the manufacturer's written instructions.
1. Brushes: Use brushes best suited for the type of material applied. Use a brush of appropriate size for the surface or item being painted.

2. Rollers: Use rollers of carpet, velvet back, or of a high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
 3. Spray equipment: Use airless spray equipment with an orifice sized as recommended by the manufacturer for the material and texture required.
- D. Minimum Coating Thickness: Apply paint materials no thinner than the manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.
- E. Prime Coats: Before applying any finish coats, apply a prime coat of primer material, as recommended by the manufacturer, to every material that is required to be painted and / or finished and that has not been prime coated by others. Recoat all primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.
- F. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
- G. Transparent (Clear) Finishes: Use multiple coats to produce a glass-smooth surface film of even luster. Provide a finish free of laps, runs, cloudiness, color irregularity, brush marks, orange peel, nail holes, or other surface imperfections.
- H. Match the existing adjacent building for color, texture, and coverage. Remove, refinish, and /or repaint all work not complying with requirements.

3.04 CLEANING

- A. At the end of each workday, remove all empty cans, rags, rubbish, and other discarded paint materials from the site.
1. After completing the painting, clean any glass and / or paint-spattered surfaces. Remove the spattered paint by washing and scraping. Be careful not to scratch or damage the adjacent finished surfaces.

3.05 PROTECTION

- A. Protect the work of other trades, whether being painted or not, against any damage done from painting. Correct the damage by cleaning, repairing or replacing, and repainting, as approved by the Architect.
- B. Provide "Wet Paint" signs to protect newly painted finishes. Remove any temporary protective wrappings provided by others to protect their work after completing painting operations.
- C. At the completion of construction activities of other trades, touch up and restore any damaged or defaced painted surfaces.

END OF SECTION 09900

SECTION 10650

SOUND BARRIER

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
1. Installation of a sound deadening acoustical wall system.
- B. Related Sections include the following:
1. Section 06100 - Rough Carpentry
 2. Section 07210 - Building Insulation
 3. Section 09260 - Gypsum Board Assemblies

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
1. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
 2. ASTM D 1037 - Test Methods of Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
 3. ASTM C 209 - Test Methods for Cellulosic Fiber Insulating Board.
 4. ASTM E 72 – Racking Test on Homasote Wall Panels.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, specifications, detail sheets, storage and handling requirements and preparation instructions for the installation of the sound deadening acoustical wall panels.
- B. Manufacturer's Installation Instructions: Indicate special procedures and conditions that require special attention.

1.05 QUALITY ASSURANCE

- A. Source Limitation: Obtain each type of sound deadening acoustical wall panels from one manufacturer source with resources to provide products of consistent quality without delaying the Work.

1.06 PROJECT CONDITIONS

- A. Sequence work to ensure sound deadening acoustical panels are not installed until the building is enclosed, and sufficient heat and / or cooling is provided, and operational.
1. Ambient temperature and humidity conditions must be maintained at the levels indicated for the Project when occupied for its intended use.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original packages.
- B. Inspect and report any damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Store materials in a dry place, indoors, or on raised platform protected from weather damage.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Celotex Soundstop - Blue Ridge Fiberboard, Inc. / W.R. Meadows
 - 2. Homasote Company.
 - 3. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 MATERIALS

- A. Sound Deadening Wall Panels: Mineral and / or cellulose fiber panels, with the following characteristics:
 - 1. Size: 48 x 96 inches.
 - 2. Thickness: 1/2 inches.
 - 3. Density: 18-28 pcf when tested in accordance with ASTM C 209.
 - 4. Expansion: 50 to 90% relative humidity, 0.25% in accordance with ASTM C 209.
 - 5. R-value: 1.2 for 1/2" thick board.
 - 6. Flame Spread: 76 to 200 when tested in accordance with ASTM E 84.

2.03 ACCESSORIES

- A. Nails for Wood Framing: Length required to penetrate wood framing a minimum of 3/4".
- B. Screws for Wood Framing: Coarse thread drywall type wood screw, with length required to penetrate wood framing a minimum of 3/4".

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, including framing and framing member spacing to which sound deadening wall panels are to be attached, with Installer present, for compliance with requirements specified in this and other Sections that affect the installation and within the requirements for installation and other conditions that may affect the performance of the acoustical panels.
- B. Do not proceed with the installation, until all unsatisfactory conditions have been corrected. Starting work by the installer is acceptance of substrate and environmental conditions.

3.02 PREPARATION

- A. Follow the manufacturer's instructions by separating and allowing sound deadening boards to be exposed to environmental temperature and humidity conditions for not less than 24 hours before start of installation. Store in a well-ventilated area. Material must be kept dry before installation.
 - 1. Acoustic board insulation panels must be installed in a clean, dry condition.
 - 2. Ensure panels are thoroughly dry prior to closing in the structure.
 - 3. Provide proper ventilation and use of respiratory protection as required by the manufacturer. Avoid dust inhalation.
 - 4. Use caution when creating large amounts of dust because of potential explosion hazard.
 - 5. Refer to manufacturer's MSDS data for these and other precautions.

3.03 INSTALLATION

- A. The 1/2 inch thick wall panels require a 16 inch on center wall framing, if the new or existing framing is at 24 inches on center, either add additional framing members as required or increase panel thickness to 3/4 inch.
- B. Panel edges and ends are required to align with framing members or to be blocked for all methods. Verify that appropriate framing section or drawing notes comply.
- C. Install panels to allow a 1/8" gap between adjoining sheets, around openings, and where panels meet ceilings, floors, and walls. Apply acoustical caulk in these gap areas, including the perimeter of all floor/ceiling/wall junctures and electrical openings.
- D. Install gypsum wallboard or other paneling over the sound deadening acoustic wall panels so that the panel joints are staggered and do not coincide. Follow normal gypsum wallboard manufacturer's installation recommendations.

3.04 PRECAUTIONS

- A. Refer to manufacturers warnings for products used in close proximity to chimneys, heater units, fireplaces, steam pipes, or other surfaces which could provide long term exposure to excessive heat (maximum 212° F) without adequate thermal protection.

3.05 ADJUSTING AND CLEANING

- A. Follow the manufacturer's instructions for repairing damaged panels. Replace any panels that cannot be repaired.
- B. During the course of the work and on completion of the work, remove excess materials, Equipment, and debris and dispose of properly away from premises.

3.06 PROTECTION

- A. After application of the sound deadening wall panels, it is recommended that the final finish be applied as soon as practical.

END OF SECTION 10650

SECTION 15010

MECHANICAL GENERAL REQUIREMENTS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the Basic Mechanical Requirements specifically applicable to Division 15 Sections, in addition to Division 1 - General Requirements.

1.03 WORK SEQUENCE

- A. During the construction period coordinate mechanical schedule and operations with Prime contractor.

1.04 REGULATORY REQUIREMENTS

- A. Conform to applicable Building Code for the state of Florida.
- B. Fire Protection: Conform to NFPA.
- C. Plumbing: Conform to National Plumbing Code.
- D. The contractor shall perform all demolition, installation, inspection and maintenance of air conditioning equipment in accordance with the latest Environmental Protection Agency guidance, specifically Title IV of the Clean Air Act, and/or in accordance Reduction in Use of Chlorofluorocarbons, Halons, and Other Substances That Deplete Atmospheric Ozone, whichever is most restrictive.
- E. All personnel servicing air conditioning equipment shall be certified in refrigerant recovery and recycling by a State of Florida authorized organization.
- F. All equipment used in servicing air conditioning equipment shall be certified for refrigerant recovery and recycling by a State of Florida authorized organization.
- G. Any servicing of air conditioning equipment must recover, and if possible, recycle all refrigerant. The only alternate to this is to recover and dispose of the refrigerant in accordance with the latest and most restrictive guidance from the Environmental Protection Agency or the Florida Department of Environmental Regulation.

1.05 PROJECT / SITE CONDITIONS

- A. Install Work in locations shown on Drawings, unless prevented by Project conditions.
- B. Where existing equipment (i.e. air handlers, chillers, water heaters, etc.) is to remain, the contractor shall verify condition of that equipment prior to beginning work. If equipment does not work properly, contractor shall notify owner for that item to be fixed or problem to be noted prior to beginning work. If contractor does not notify owner of any problems it is assumed that all existing equipment to remain is in perfect working order and will be

returned in that condition. Contractor is responsible for protection of existing equipment to remain, and any operation of equipment required while under construction.

- C. Project drawings are diagrammatic and do not show all required turns, elbows, transitions, etc. that may be required due to existing conditions or work done by other trades. It is the contractor's responsibility to provide all such turns, elbows, transitions, etc. and coordinate with other trades as required to provide a complete and operational system. This shall be done at no additional cost to the owner.

1.06 WARRANTY

- A. All warranties shall begin on the day the owner takes beneficial occupancy of the project unless system is placed in operation in several phases at Owner's request. When system is completed the contractor shall submit letter requesting acceptance of that system.
 - 1. Warranty for that system shall begin on the date it is accepted by the owner.

END OF SECTION 15010

SECTION 15050

TESTING, ADJUSTING AND BALANCING FOR HVAC

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Testing, adjustment, and balancing of air systems.
 - 2. Testing, adjustment, and balancing of any hydronic systems.
 - 3. Measurement of final operating condition of HVAC systems.

1.03 REFERENCES

- A. AABC MN-1 - National Standards for Testing and Balancing Heating, Ventilating, and Air Conditioning Systems.
- B. ASHRAE 111 - Practices for Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation, Air-Conditioning and Refrigeration Systems.
- C. NEBB - Procedural Standards for Testing, Balancing and Adjusting of Environmental Systems.
- D. TABB - International Standards for Environmental Systems Balance.

1.04 SUBMITTALS

- A. Submit name of adjusting and balancing agency for approval within 21 days after award of Contract.
- B. Submit test and balance reports prior to the final inspection.
- C. Prior to commencing work, submit draft reports indicating adjusting, balancing, and equipment data required.
- D. Submit draft copies of report for review prior to final acceptance of Project. Provide final copies for owner and for inclusion in operating and maintenance manuals.
- E. Provide reports in soft cover, letter size, bound manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of reduced drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.
- F. Include detailed procedures, agenda, sample report forms, and copy of AABC National Project Performance Guaranty prior to commencing system balance.

1.05 SCHEDULES

A. Equipment Requiring Testing, Adjusting, and Balancing:

1. Air Cooled Condensers.
2. Air Handling Units.
3. Fans.
4. Air Terminal Units.
5. Air Inlets and Outlets.

1.06 REPORT FORMS

A. Submit reports on AABC National Standards for Total System Balance or NEBB forms.

B. Forms shall include the following information:

1. Title Page:
 - a. Company name (Test and balance contractor)
 - b. Company address
 - c. Company telephone number
 - d. Project name
 - e. Project location
 - f. Project Contractor (General contractor and Mechanical sub-contractor)
2. Instrument List:
 - a. Instrument
 - b. Manufacturer
 - c. Model
 - d. Serial number
 - e. Range
 - f. Calibration date
3. Air Moving Equipment:
 - a. Location
 - b. Manufacturer
 - c. Model
 - d. Air flow, specified and actual
 - e. Outside air flow, specified and actual
 - f. Total static pressure (total, external), specified and actual
 - g. Inlet pressure
 - h. Discharge pressure
4. Exhaust Fan Data:
 - a. Location
 - b. Manufacturer
 - c. Model
 - d. Air flow, specified and actual
 - e. Total static pressure (total external), specified and actual
 - f. Discharge pressure
5. Outside Air Data:
 - a. Identification / location
 - b. Design air flow

- c. Actual air flow
 - d. Design outside air flow
 - e. Actual outside air flow
6. Air Distribution Test Sheet:
- a. Air terminal number
 - b. Room number/location
 - c. Terminal type
 - d. Terminal size
 - e. Design air flow
 - f. Test (final) air flow
7. Air Cooled Condenser:
- a. Identification/number
 - b. Location
 - c. Manufacturer
 - d. Model number
 - e. Serial number
 - f. Entering DB air temperature, design and actual
 - g. Leaving DB air temperature, design and actual
 - h. Number of compressors
8. Electric Heater:
- a. Manufacturer
 - b. Identification / number
 - c. Location
 - d. Model number
 - e. Design kW
 - f. Number of stages
 - g. Phase, voltage, amperage
 - h. Test voltage (each phase)
 - i. Test amperage (each phase)
 - j. Air flow, specified and actual
 - k. Temperature rise, specified and actual
9. Unit Ventilator and Fan Coil Data:
- a. Manufacturer
 - b. Identification / number
 - c. Location
 - d. Model number
 - e. Size
 - f. Air flow, design and actual
 - g. Water flow, design and actual
 - h. Water pressure drop, design and actual
 - i. Entering water temperature, design and actual
 - j. Leaving water temperature, design and actual
 - k. Entering air temperature, design and actual
 - l. Leaving air temperature, design and actual

1.07 PROJECT RECORD DOCUMENTS

- A. Submit record documents.
- B. Accurately record actual locations of balancing valves and rough setting.

1.08 QUALITY ASSURANCE

- A. Agency shall be company specializing in the adjusting and balancing of systems specified in this Section with minimum three years documented experience and certified by AABC MN-1.
 - 1. Perform Work under supervision of AABC Certified Test and Balance Engineer or NEBB Certified Testing, Balancing and Adjusting Supervisor.
 - 2. All documentation shall be signed by a registered Professional Engineer.
- B. Total system balance shall be performed in accordance with AABC MN-1 or NEBB Procedural Standards for Testing, Balancing and Adjusting of Environmental Systems.

1.09 SEQUENCING AND SCHEDULING

- A. Sequence work to commence after completion of systems and schedule completion of work before Substantial Completion of Project.
- B. No modifications shall be performed on any factory supplied systems without written approval of the Owner. The Contractor shall notify the Owner's Representative if system modification is required above standard procedure and practice.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Before starting work, verify that systems are complete and operable. Ensure the following:
 - 1. Equipment is operable and in a safe and normal condition.
 - 2. Temperature control systems are installed complete and operable.
 - 3. Proper thermal overload protection is in place for electrical equipment.
 - 4. Final filters are clean and in place. If required, install temporary media in addition.
 - 5. Duct systems are clean of debris.
 - 6. Correct fan rotation.
 - 7. Fire and volume dampers are in place and open.
 - 8. Coil fins have been cleaned and combed.
 - 9. Access doors are closed and duct end caps are in place.
- B. Report any defects or deficiencies noted during performance of services to the Owner's Representative.
- C. Promptly report abnormal conditions in mechanical systems or conditions which prevent system balance.
- D. If, for design reasons, system cannot be properly balanced, report as soon as observed.
- E. Beginning of work means acceptance of the existing conditions.

3.02 PREPARATION

- A. Provide instruments required for testing, adjusting, and balancing operations. Make instruments available to Owner's Representative to facilitate spot checks during testing.
- B. Provide additional balancing devices as required.

3.03 INSTALLATION TOLERANCES

- A. Adjust air handling systems to plus or minus 5 percent for supply systems and plus or minus 10 percent for return and exhaust systems from figures indicated.

3.04 ADJUSTING

- A. Recorded data shall represent actually measured, or observed condition.
- B. Permanently mark settings of dampers, and other adjustment devices allowing settings to be restored. Set and lock memory stops.
- C. After adjustment, take measurements to verify balance has not been disrupted or that such disruption has been rectified.
- D. Leave systems in proper working order, replacing belt guards, closing access doors, closing doors to electrical switch boxes, and restoring thermostats to specified settings.
- E. At final inspection, recheck random selections of data recorded in report. Re-check points or areas as selected and witnessed by the Owner.

3.05 AIR SYSTEM PROCEDURE

- A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities.
- B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.
- C. Measure air quantities at air inlets and outlets.
- D. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noise.
- E. Use volume control devices to regulate air quantities only to extent that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters.
- F. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required. Vary branch air quantities by damper regulation.
- G. Provide system schematic with required and actual air quantities recorded at each outlet/ inlet.
- H. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan.
- I. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions.

END OF SECTION 15050

SECTION 15730

HVAC FANS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of the following:
 - 1. Cabinet exhaust fans.
 - 2. Ceiling exhaust fans.

1.03 REFERENCES

- A. AMCA 99 - Standards Handbook.
- B. AMCA 204 - Balance Quality and Vibration Levels for Fans.
- C. AMCA 210 - Laboratory Methods of Testing Fans for Rating Purposes.
- D. AMCA 300 - Test Code for Sound Rating Air Moving Devices.
- E. AMCA 301 - Method of Publishing Sound Ratings for Air Moving Devices.
- F. SMACNA - Low Pressure Duct Construction Standard.
- G. UL 705 - Power Ventilators.

1.04 QUALITY ASSURANCE

- A. Performance Ratings: Conform to AMCA 210.
- B. Sound Ratings: AMCA 301, tested to AMCA 300.
- C. Fabrication: Conform to AMCA 99.
- D. UL Compliance: UL listed and labeled, designed, manufactured, and tested in accordance with UL 705.
- E. Balance Quality: Conform to AMCA 204.

1.05 SUBMITTALS

- A. Submit shop drawings and product data.
- B. Provide fan curves with specified operating point clearly plotted.
- C. Submit sound power levels for both fan inlet and outlet at rated capacity.
- D. Submit manufacturer's installation instructions.

PART 2 - PRODUCTS

2.01 CABINET AND CEILING EXHAUST FANS

- A. Centrifugal Fan Unit: Direct driven, with galvanized steel housing lined with 1/2 inch acoustic insulation, resilient mounted motor, gravity backdraft damper in discharge.
- B. Disconnect Switch: Factory wired, non-fusible, in housing for thermal overload protected motor.
- C. Grille: Molded white plastic or aluminum with baked white enamel finish.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install in accordance with the manufacturer's instructions.
- B. All exterior roof mounted or wall mounted supply or exhaust fan including any curbs or flashing shall be painted to match the adjacent surfaces.
- C. When an exhaust fan is mounted in a ceiling tile or in a suspended ceiling system the fan shall be supported independently from the ceiling tile or ceiling grid.

END OF SECTION 15730

SECTION 15890

DUCTWORK

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of low pressure ducts and plenums.

1.03 REFERENCES

- A. ASHRAE - Handbook Fundamentals; Chapter 32 - Duct Design.
- B. ASHRAE - HVAC Systems and Equipment Handbook, Chapter 16 - Duct Construction.
- C. ASTM A 90 - Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles.
- D. ASTM A 525 - General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
- E. ASTM A 527 - Steel Sheet, Zinc-Coated (Galvanized) by Hot-Dip Process, Lock Forming Quality.
- F. NFPA 90A - Installation of Air Conditioning and Ventilating Systems.
- G. NFPA 90B - Installation of Warm Air Heating and Air Conditioning Systems.
- H. NAIMA - Fibrous Glass Duct Construction Standard.
- I. SMACNA - Low Pressure Duct Construction Standards.
- J. SMACNA - Fibrous Glass Duct Construction Standards.

1.04 DEFINITIONS

- A. Duct Sizes: Inside clear dimensions. For lined plenums, sizes shown are actual clear inside dimensions.
- B. Low Pressure: 2 inch WG (500 Pa) positive or negative static pressure and velocities less than 2,500 fpm (12.7 m/sec).

1.05 REGULATORY REQUIREMENTS

- A. Construct ductwork to NFPA 90A and NFPA 90B standards.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. General: Non-combustible or conforming to requirements for Class 1 air duct materials, or UL 181.
- B. Steel Ducts: ASTM A525 or ASTM A527 galvanized steel sheet, lock forming quality, having zinc coating of 1.25 oz per sq ft (382 g/sq m) for each side in conformance with ASTM A 90.
- C. Fasteners: Rivets, bolts, or sheet metal screws.
- D. Sealant: Non-hardening, water resistant, fire resistive, compatible with mating materials; liquid used alone or with tape, or heavy mastic.
- E. Fiberglass Ducts – 1.5" thick fibrous glass duct board with Class 1 UL 181 listing and a flexural rigidity (EI) rating of not less than 475.

2.02 LOW PRESSURE DUCTWORK AND PLENUMS

- A. Fabricate and support in accordance with SMACNA Standards and ASHRAE handbooks, except as indicated. Provide duct material, gages and reinforcing for operating pressures indicated. Seal all joints and seams in duct. Construct ducts from fiberglass or sheet metal, as noted in Section 3.02.
- B. Construct rectangular T's, bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows are used, provide turning vanes. For round steel duct, use adjustable five-piece elbows and factory made fittings.
- C. Use galvanized one-inch straps for hanging duct.
- D. Low pressure flexible duct (2" S.P. and under) shall be constructed as follows:
 - 1. Core Liner: Flexible acoustically aluminum foil, fiberglass, and polyester sheet liner bonded to galvanized spring steel wire helix.
 - 2. Insulation: 1.5" thick glass fiber, 3 lb. density.
 - 3. Vapor Jacket: Flexible reinforced aluminum sheet having perm rating .05.
 - 4. Rating: U/L-181 Class 1 Air Duct, rated and labeled 2.0" static pressure, 4,000 FPM velocity.
 - 5. Duct shall be Flexmaster Type 5M, or approved equal.
 - 6. Final connections from ducts to supply grilles may be made with flexible duct not greater than 6'-0" in length.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.

B. Fiberglass duct systems:

1. Fabrication and installation shall conform to the requirements of the latest edition of the North American Insulation Manufacturers' Association's Fiber Glass Duct Construction Standard.
2. Closure system shall be one of those listed by the ductboard manufacturer and application shall comply with procedures specified in the manufacturer's instruction sheets.
3. Reinforcement, hanging and details governing the installation of other accessory items shall be in compliance with the latest edition of the NAIMA Fiberglass Duct Construction Standard.

3.02 DUCTWORK APPLICATION SCHEDULE

<u>AIR SYSTEM</u>	<u>MATERIAL</u>
Low Pressure Supply & Return (System with Cooling Coils)	Fiberglass
Return Plenum	Fiberglass
General Exhaust	Steel

3.03 ADJUSTING AND CLEANING

- A. Clean duct system and force air at high velocity through duct to remove accumulated dust. To obtain sufficient air, clean half the system at a time. Protect equipment which may be harmed by excessive dirt with temporary filters, or bypass during cleaning.

END OF SECTION 15890

SECTION 15920

DUCTWORK ACCESSORIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of the following:
 - 1. Volume control dampers.
 - 2. Toilet exhaust fans.

1.03 REFERENCES

- A. SMACNA - Low Pressure Duct Construction Standards.

PART 2 - PRODUCTS

2.01 VOLUME CONTROL DAMPERS

- A. Fabricate in accordance with SMACNA Low Pressure Duct Construction Standards, and as indicated.
- B. Fabricate single blade dampers for duct sizes to 9-1/2 x 30 inch (240 x 760 mm).
- C. Except in round ductwork 12 inches (300 mm) and smaller, provide end bearings.
- D. Provide locking, indicating quadrant regulators on dampers.
- E. On insulated ducts mount quadrant regulators on stand-off mounting brackets, bases, or adapters.
- F. Dampers may be provided as part of spin-in branch duct take-offs.

2.02 EXHAUST FANS

- A. Fans shall be ceiling-mounted, residential style. Units shall have centrifugal fans and four pole motors with plastic grilles. Equal to Greenheck SP ceiling exhaust fans.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install accessories in accordance with manufacturer's instructions.
- B. Provide balancing dampers where indicated and at points on low pressure supply and return systems where branches are taken from larger ducts as required for air balancing.

END OF SECTION 15920

SECTION 15940

AIR INLETS AND OUTLETS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the installation of the following:
 - 1. Diffusers.
 - 2. Diffuser boots.
 - 3. Registers / grilles.
 - 4. Louvers.

1.03 REFERENCES

- A. AMCA 500 - Test Method for Louvers, Dampers and Shutters.
- B. NFPA 90A - Installation of Air Conditioning and Ventilating Systems.
- C. ASHRAE 70 - Method of Testing for Rating the Air Flow Performance of Outlets and Inlets.
- D. SMACNA - HVAC Duct Construction Standard.

1.04 QUALITY ASSURANCE

- A. Test and rate performance of air outlets and inlets in accordance with ASHRAE 70.
- B. Test and rate performance of louvers in accordance with AMCA 500.

1.05 REGULATORY REQUIREMENTS

- A. Conform to NFPA 90A.

1.06 SUBMITTALS

- A. Submit product data.
- B. Provide product data for items required for this project.
- C. Submit manufacturer's installation instructions.
- D. Submittals shall be made under provisions of Section 01300.

PART 2 - PRODUCTS

2.01 RECTANGULAR CEILING DIFFUSERS

- A. Rectangular, stamped, multi-core type diffuser to discharge air in 360 degree pattern.
- B. Provide surface mount or inverted T-bar type frame. Face is to be 24"x24" when mounted in suspended ceilings.
- C. Fabricate of steel with baked enamel off-white finish.
- D. Provide radial opposed blade damper and multi-louvered equalizing grid with damper adjustable from diffuser face.

2.02 CEILING SUPPLY REGISTERS / GRILLES

- A. Streamlined and individually adjustable curved blades to discharge air along face of grille, 4-way deflection. To be install only where indicated.
- B. Fabricate 1-1/4 inch margin frame with countersunk screw mounting and gasket.
- C. Fabricate of aluminum extrusions with factory baked enamel off-white finish.

2.03 CEILING GRID CORE EXHAUST AND RETURN REGISTERS / GRILLES

- A. Fixed grilles of 1/2 x 1/2 x 1/2 inch louvers.
- B. Fabricate 1-1/4 inch margin frame with lay-in frame for suspended grid ceilings.
- C. Fabricate of aluminum with factory baked enamel off-white finish.
- D. Provide without Register/Grill damper unless otherwise stated.

2.04 LOUVERS

- A. Provide 6 inch deep, storm type louvers with blades on 45 degree slope, heavy channel frame, bird screen with 1/2 inch square mesh for exhaust and 3/4 inch for intake. Provide insect screens on intake louvers.
- B. Fabricate of 12 gage extruded aluminum, welded assembly, with factory prime coat finish to facilitate field painting. Louvers are to be factory painted standard color to match adjacent surfaces as closely as possible, unless otherwise directed.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install items in accordance with manufacturers' instructions and as indicated on drawings.
- B. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
- C. Install diffusers to ductwork with air tight connection.
- D. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, regardless of whether dampers are specified as part of the diffuser, or grille and register assembly.
- E. Paint ductwork visible behind air outlets and inlets matte black.
- F. Where louvers and grilles are to be installed in existing openings, contractor shall verify dimensions prior to ordering.
- G. Install louvers and grilles plumb and level.
- H. Grilles installed in exterior soffits shall be painted to match the color of soffit.
- I. When diffusers or grilles are cut into a ceiling tile, the diffuser or grille shall be supported independently of the ceiling tile.

END OF SECTION 15940

SECTION 16060

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes grounding and bonding systems and equipment.

1.03 SUBMITTALS

- A. Submit Product Data for each type of product indicated.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:

1. Burndy - Hubbell Electrical Systems.
2. ERICO International Corporation.
3. Siemens Power Transmission & Distribution, Inc.
4. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 SYSTEM DESCRIPTION

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

2.03 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
 1. Solid Conductors: ASTM B 3.
 2. Stranded Conductors: ASTM B 8.
 3. Tinned Conductors: ASTM B 33.
 4. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch in diameter.
 5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
 6. Bonding Jumper: Copper tape, braided conductors terminated with copper ferrules; 1-5/8 inches wide and 1/16 inch thick.
 7. Tinned Bonding Jumper: Tinned-copper tape, braided conductors terminated with copper ferrules; 1-5/8 inches wide and 1/16 inch thick.

2.04 CONNECTORS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction for applications in which used and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy.
- C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.
- D. Bus-Bar Connectors: Mechanical type, cast silicon bronze, solder-less compression-type wire terminals, and long-barrel, two-bolt connection to ground bus bar.

PART 3 - EXECUTION

3.01 APPLICATIONS

- A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger unless otherwise indicated.
- B. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Connections to Structural Steel: Welded connectors.

3.02 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.
- B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
 - 1. Feeders and branch circuits.
 - 2. Lighting circuits.
 - 3. Receptacle circuits.
 - 4. Flexible raceway
- C. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.
- D. Water Heater, Heat-Tracing, and Anti-frost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.
- E. Poles Supporting Outdoor Lighting Fixtures: Install grounding electrode and a separate insulated equipment grounding conductor in addition to grounding conductor installed with branch-circuit conductors.
- F. Metallic Fences: Comply with requirements of IEEE C2.
 - 1. Grounding Conductor: Bare copper, not less than No. 8 AWG.

3.03 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- B. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance except where routed through short lengths of conduit.
 - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install bonding so vibration is not transmitted to rigidly mounted equipment.

3.04 FIELD QUALITY CONTROL

- A. Perform tests and inspections. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer's written instructions.

END OF SECTION 16060

SECTION 16070

HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes hangers and supports for electrical equipment and systems.

1.03 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design supports for multiple raceways, including comprehensive engineering analysis by a qualified professional engineer, using the performance requirements and design criteria indicated.
- B. Design supports for multiple raceways capable of supporting combined weight of supported systems and its contents.
- C. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
- D. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project, with a minimum structural safety factor of five times the applied force.

1.04 SUBMITTALS

- A. Submit Product Data: For steel slotted support systems.
- B. Shop Drawings: Show fabrication and installation details and include calculations for the following items:
 - 1. Trapeze hangers. Include Product Data for components.
 - 2. Steel slotted channel systems. Include Product Data for components.
 - 3. Equipment supports.

1.05 QUALITY ASSURANCE

- A. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.01 SUPPORT, ANCHORAGE AND ATTACHMENT

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.

- B. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Allied Tube and Conduit.
 - 2. ERICO International Corporation.
 - 3. Thomas and Betts Corporation.
 - 4. Unistrut, an Atkore International Company.
 - 5. Approved Equivalent (see Section 01630 – Products and Substitutions)
- C. Raceway and Cable Supports: As described in NECA 1 and NECA 101.
- D. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
- E. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.
- F. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

2.02 MOUNTING, ANCHORING AND ATTACHMENT COMPONENTS

- A. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
 - 1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
- B. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Hilti, Inc.
 - 2. MKT Fastening, LLC.
 - 3. Simpson Strong-Tie Company, Inc.
 - 4. Approved Equivalent (see Section 01630 – Products and Substitutions)
- C. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
- D. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cooper B-Line, Inc.
 - 2. Empire Tool and Manufacturing Company, Inc.
 - 3. Hilti, Inc.
 - 4. Approved Equivalent (see Section 01630 – Products and Substitutions)

- E. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
- F. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
- G. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
- H. Toggle Bolts: All-steel springhead type.
- I. Hanger Rods: Threaded steel.

2.03 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.

PART 3 - EXECUTION

3.01 APPLICATION

- A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
- B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70.
 - 1. Minimum rod size shall be 1/4 inch in diameter.
- C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted or other support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
 - 1. Secure raceways and cables to these supports with two-bolt conduit clamps.
- D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

3.02 SUPPORT INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
- B. Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.
- C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.
- D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:

1. To Wood: Fasten with lag screws or through bolts.
 2. To New Concrete: Bolt to concrete inserts.
 3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
 4. To Existing Concrete: Expansion anchor fasteners.
 5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches thick or greater.
 - a. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches thick.
 6. To Steel: Welded threaded studs complying with AWS D1.1/D1.1M, with lock washers and nuts.
 7. To Light Steel: Sheet metal screws.
 8. Items Mounted on Hollow Walls and Non-structural Building Surfaces:
 - a. Mount cabinets, panel-boards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.
- E. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

3.03 INSTALLATION OF FABRICATED METAL SUPPORTS

- A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.
- B. Field Welding: Comply with AWS D1.1/D1.1M.

3.04 PAINTING

- A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
 1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils.
- B. Touchup: Comply with requirements in Section 09900 - "Painting" for cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint on miscellaneous metal.
- C. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

END OF SECTION 16070

SECTION 16075

IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Identification for raceways.
 - 2. Identification of power and control cables.
 - 3. Identification for conductors.
 - 4. Warning labels and signs.
 - 5. Instruction signs.
 - 6. Equipment identification labels.
 - 7. Miscellaneous identification products.

1.03 SUBMITTALS

- A. Submit Product Data: For each electrical identification product indicated.

1.04 QUALITY ASSURANCE

- A. Comply with ANSI A13.1.
- B. Comply with NFPA 70.
- C. Comply with 29 CFR 1910.144 and 29 CFR 1910.145.
- D. Comply with ANSI Z535.4 for safety signs and labels.
- E. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.

PART 2 - PRODUCTS

2.01 POWER RACEWAY IDENTIFICATION MATERIALS

- A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway size.
- B. Colors for Raceways Carrying Circuits at 600 V or Less:
 - 1. Black letters on an orange field.
 - 2. Legend: Indicate voltage and system or service type.
- C. Self-Adhesive Vinyl Labels for Raceways Carrying Circuits at 600 V or Less: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.

- D. Snap-Around Labels for Raceways Carrying Circuits at 600 V or Less: Slit, pre-tensioned, flexible, preprinted, color-coded acrylic sleeve, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- E. Snap-Around, Color-Coding Bands for Raceways Carrying Circuits at 600 V or Less: Slit, pre-tensioned, flexible, solid-colored acrylic sleeve, 2 inches long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- F. Write-On Tags: Polyester tag, 0.010 inch thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.
 - 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.
 - 2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.

2.02 ARMORED AND METAL-CLAD CABLE IDENTIFICATION MATERIALS

- A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.
- B. Colors for Raceways Carrying Circuits at 600 V and Less:
 - 1. Black letters on an orange field.
 - 2. Legend: Indicate voltage and system or service type.
- C. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
- D. Self-Adhesive Vinyl Tape: Colored, heavy duty, waterproof, fade resistant; 2 inches wide; compounded for outdoor use.

2.03 POWER AND CONTROL CABLE IDENTIFICATION MATERIAL

- A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.
- B. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
- C. Write-On Tags: Polyester tag, 0.010 inch thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.
 - 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.
 - 2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.
- D. Snap-Around Labels: Slit, pre-tensioned, flexible, preprinted, color-coded acrylic sleeve, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

- E. Snap-Around, Color-Coding Bands: Slit, pre-tensioned, flexible, solid-colored acrylic sleeve, 2 inches long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

2.04 CONDUCTOR IDENTIFICATION MATERIAL

- A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils thick by 1 to 2 inches wide.
- B. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
- C. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.
- D. Write-On Tags: Polyester tag, 0.010 inch thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.
 - 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.
 - 2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.

2.05 FLOOR MARKING TAPE

- A. 2-inch wide, 5-mil pressure-sensitive vinyl tape, with black and white stripes and clear vinyl overlay.

2.06 WARNING LABELS AND SIGNS

- A. Comply with NFPA 70 and 29 CFR 1910.145.
- B. Self-Adhesive Warning Labels: Factory-printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment unless otherwise indicated.
- C. Baked-Enamel Warning Signs:
 - 1. Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application.
 - 2. 1/4-inch grommets in corners for mounting.
 - 3. Nominal size, 7 by 10 inches.
- D. Metal-Backed, Butyrate Warning Signs:
 - 1. Weather-resistant, non-fading, preprinted, cellulose-acetate butyrate signs with 0.0396-inch galvanized-steel backing; and with colors, legend, and size required for application.
 - 2. 1/4-inch grommets in corners for mounting.
 - 3. Nominal size, 10 by 14 inches.
- E. Warning label and sign shall include, but are not limited to, the following legends:
 - 1. Multiple Power Source Warning: "DANGER - ELECTRICAL SHOCK HAZARD - EQUIPMENT HAS MULTIPLE POWER SOURCES."

2. Workspace Clearance Warning: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES."
3. Insert names and wording of warning signs or labels; e.g., arc-flash, multiple services and voltages, and others.

2.07 INSTRUCTION SIGNS

- A. Engraved, laminated acrylic or melamine plastic, minimum 1/16 inch thick for signs up to 20 sq. inches and 1/8 inch thick for larger sizes.
 1. Engraved legend with black letters on white face.
 2. Punched or drilled for mechanical fasteners.
 3. Framed with mitered acrylic molding and arranged for attachment at applicable equipment.
- B. Adhesive Film Label: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch.
- C. Adhesive Film Label with Clear Protective Overlay: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch. Overlay shall provide a weatherproof and UV-resistant seal for label.

2.08 EQUIPMENT IDENTIFICATION LABELS

- A. Adhesive Film Label with Clear Protective Overlay: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch. Overlay shall provide a weatherproof and UV-resistant seal for label.
- B. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch.
- C. Stenciled Legend: In non-fading, waterproof, black ink or paint. Minimum letter height shall be 1 inch.

2.09 MISCELLANEOUS IDENTIFICATION PRODUCTS

- A. Paint: Comply with requirements in painting Sections for paint materials and application requirements. Select paint system applicable for surface material and location (exterior or interior).
- B. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Apply identification devices to surfaces that require finish after completing finish work.
- C. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.

- D. Attach signs and plastic labels that are not self-adhesive type with mechanical fasteners appropriate to the location and substrate.
- E. System Identification Color-Coding Bands for Raceways and Cables: Each color-coding band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
- F. Underground-Line Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at 6 to 8 inches below finished grade. Use multiple tapes where width of multiple lines installed in a common trench or concrete envelope exceeds 16 inches overall.
- G. Painted Identification: Comply with requirements in painting Sections for surface preparation and paint application.

3.02 IDENTIFICATION SCHEDULE

- A. Accessible Raceways and Metal-Clad Cables, 600 V or Less, for Service, Feeder, and Branch Circuits More Than 30 A, and 120 V to ground: Install labels at 10-foot maximum intervals.
- B. Accessible Raceways and Cables within Buildings: Identify the covers of each junction and pull box of the following systems with self-adhesive vinyl labels with the wiring system legend and system voltage.
System legends shall be as follows:
 - 1. Emergency Power.
 - 2. Power.
 - 3. UPS.
- C. Power-Circuit Conductor Identification, 600 V or Less: For conductors in vaults, pull and junction boxes, manholes, and hand holes, use color-coding conductor tape to identify the phase.
 - 1. Color-Coding for Phase and Voltage Level Identification, 600 V or Less: Use colors listed below for ungrounded service feeder and branch-circuit conductors.
 - a. Color shall be factory applied or field applied for sizes larger than No. 8 AWG, if authorities having jurisdiction permit.
 - b. Colors for 208/120-V Circuits:
 - 1) Phase A: Black.
 - 2) Phase B: Red.
 - 3) Phase C: Blue.
 - c. Colors for 480/277-V Circuits:
 - 1) Phase A: Brown.
 - 2) Phase B: Orange.
 - 3) Phase C: Yellow.

- d. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- D. Install instructional sign including the color-code for grounded and ungrounded conductors using adhesive-film-type labels.
 - E. Conductors to Be Extended in the Future: Attach write-on tags to conductors and list source.
 - F. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, and signal connections.
 1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
 2. Use system of marker tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
 3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual.
 - G. Workspace Indication: Install floor marking tape to show working clearances in the direction of access to live parts. Workspace shall be as required by NFPA 70 and 29 CFR 1926.403 unless otherwise indicated. Do not install at flush-mounted panelboards and similar equipment in finished spaces.
 - H. Warning Labels for Indoor Cabinets, Boxes, and Enclosures for Power and Lighting: Baked-enamel warning signs.
 1. Comply with 29 CFR 1910.145.
 2. Identify system voltage with black letters on an orange background.
 3. Apply to exterior of door, cover, or other access.
 4. For equipment with multiple power or control sources, apply to door or cover of equipment including, but not limited to, the following:
 - a. Power transfer switches.
 - b. Controls with external control power connections.
 - I. Operating Instruction Signs: Install instruction signs to facilitate proper operation and maintenance of electrical systems and items to which they connect. Install instruction signs with approved legend where instructions are needed for system or equipment operation.
 - J. Emergency Operating Instruction Signs: Install instruction signs with white legend on a red background with minimum 3/8-inch high letters for emergency instructions at equipment used for power transfer.
 - K. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and the Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.

1. Labeling Instructions:
 - a. Indoor Equipment: Engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch high letters on 1-1/2-inch high label; where two lines of text are required, use labels 2 inches high.
 - b. Outdoor Equipment: Engraved, laminated acrylic or melamine label.
 - c. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
 - d. Unless provided with self-adhesive means of attachment, fasten labels with appropriate mechanical fasteners that do not change the NEMA or NRTL rating of the enclosure.

END OF SECTION 16075

SECTION 16120

LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Building wires and cables rated 600 V and less.
 - 2. Connectors, splices, and terminations rated 600 V and less.
 - 3. Communications cabling requirements.

1.03 SUBMITTALS

- A. Submit Product Data: For each electrical product indicated.
- B. Field quality control reports.

PART 2 - PRODUCTS

2.01 CONDUCTORS AND CABLES

- A. Copper Conductors: Comply with NEMA WC 70/ICEA S-95-658.
- B. Conductor Insulation: Comply with NEMA WC 70/ICEA S-95-658 for Type THW-2, Type THHN-2-THWN-2.

2.02 CONNECTORS AND SPLICES

- A. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.03 SYSTEM DESCRIPTION

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.

PART 3 - EXECUTION

3.01 CONDUCTOR MATERIAL APPLICATIONS

- A. Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger, except VFC cable, which shall be extra flexible stranded.

3.02 CONDUCTOR INSULATION AND MULTI-CONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

- A. Exposed Feeders: Type THHN-2-THWN-2, single conductors in raceway.
- B. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspace: Type THHN-2-THWN-2, single conductors in raceway.
- C. Exposed Branch Circuits, Including in Crawlspace: Type THHN-2-THWN-2, single conductors in raceway.
- D. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-2-THWN-2, single conductors in raceway.
- E. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-2-THWN-2, single conductors in raceway.

3.03 INSTALLATION OF CONDUCTORS AND CABLES

- A. Conceal cables in finished walls, ceilings, and floors unless otherwise indicated.
- B. Complete raceway installation between conductor and cable termination points according to Section 16141 "Raceways and Boxes for Electrical Systems" prior to pulling conductors and cables.
- C. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- D. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- E. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.
- F. Support cables according to Section 16070 "Hangers and Supports for Electrical Systems."

3.04 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.
- B. Make splices, terminations, and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than un-spliced conductors.
- C. Wiring at Outlets: Install conductor at each outlet, with at least 12 inches of slack.

3.05 IDENTIFICATION

- A. Identify and color-code conductors and cables according to Section 16075 "Identification for Electrical Systems."
- B. Identify each spare conductor at each end with identity number and location of other end of conductor, and identify as spare conductor.

3.06 SLEEVE AND SLEEVE-SEAL INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Install sleeves and sleeve seals at penetrations of exterior floor and wall assemblies.
- B. Apply fire-stopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

3.07 COMMUNICATIONS CABLING REQUIREMENTS

- A. Any installer or vendor of low voltage cabling should be required to hold an industry standard training certificate for **BICSI** data cabling certification. In some facilities, local permitting for low voltage is required by jurisdiction. Installers should be aware of the unique environment of the facility and understand that hallways must be kept clear at all times. Ladders, materials, and tools shall not be left unattended in hallways as they present a very real risk hazard for building occupants.
 - 1. Vendors shall use yellow hazard floor signs when working in a public area such as hallways.
- B. Use Category 6 ethernet cabling for data, and Category 5e for telecom. Data cabling shall be blue in color, telecom shall be white in color, and wireless antennae cabling shall be yellow, unless otherwise specified. When installing Cat 6 cabling, all termination points such as wall plates, closet patch panels, and patch cords **shall also meet Cat 6** specifications.
 - 1. Terminations are required to be industry standard **586 B** color code method.
 - 2. Wall outlets plugs for data cables shall be blue, and telecom shall be white.
- C. Cables are not to exceed 300 feet, end to end, including a **7 ft patch cord left at each end**. All termination outlets must be clearly labeled with a label showing: cable number and patch panel port.
 - 1. Cabling shall never be in contact with overhead fluorescent lighting or other RF devices.
 - 2. Cables shall never be attached to water pipes for fire suppression systems, hot or cold running water, gas piping or electrical conduits or conductors above the ceiling, or to any existing utility.
 - 3. All firewall penetrations for cabling shall sealed with local fire code rated caulking, and these penetrations shall be inspected prior to completion.
 - 4. Vendor is required to test all cables end to end with a standard cable testing tool and provide the customer with a written copy of these test results.
 - 5. Vendors shall never plug any cable into the network switches, computers, printers, or other devices.

END OF SECTION 16120

SECTION 16140

WIRING DEVICES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following electrical devices:
 - 1. Receptacles, receptacles with integral GFCI, and associated device plates.
 - 2. Snap switches.
 - 3. Wall-switches.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Receptacles for Owner-Furnished Equipment: Match plug configurations.

1.04 SUBMITTALS

- A. Submit Product Data: For each type of product.
- B. Shop Drawings: List of legends and description of materials and process used for pre-marking wall plates.
- C. Field quality-control reports.
- D. Operation and maintenance data.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cooper Wiring Devices, Inc.
 - 2. Hubbell
 - 3. Leviton Manufacturing Company, Inc.
 - 4. Pass & Seymour
 - 5. Approved Equivalent (see Section 01630 – Products and Substitutions)
- B. Source Limitations: Obtain each type of wiring device and associated wall plate from single source from single manufacturer.

2.02 GENERAL WIRING-DEVICE REQUIREMENTS

- A. Wiring Devices, Components, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.

- C. Devices that are manufactured for use with modular plug-in connectors may be substituted under the following conditions:
1. Connectors shall comply with UL 2459 and shall be made with stranding building wire.
 2. Devices shall comply with the requirements in this Section.

2.03 STRAIGHT-BLADE RECEPTACLES

- A. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 Configuration 5-20R, UL 498, and FS W-C-596.
- B. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Cooper Wiring Devices, Inc.
 2. Hubbell
 3. Leviton Manufacturing Company, Inc.
 4. Pass & Seymour
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.04 GFCI RECEPTACLES

- A. General Description: Duplex GFCI Convenience Receptacles, 125 V, 20 A:
1. Straight blade, feed-through type.
 2. Comply with NEMA WD 1, NEMA WD 6, UL 498, UL 943 Class A, and FS W-C-596.
 3. Include indicator light that shows when the GFCI has malfunctioned and no longer provides proper GFCI protection.
- B. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Cooper Wiring Devices, Inc.
 2. Hubbell
 3. Leviton Manufacturing Company, Inc.
 4. Pass & Seymour
 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.05 WALL COVERPLATES

- A. Single and combination types shall match corresponding wiring devices.
1. Plate-Securing Screws: Metal with head color to match plate finish.
 2. Material for Finished Spaces: Determined by the Architect / Owner.
 3. Material for Unfinished Spaces: Galvanized steel.
 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in wet and damp locations.
- B. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with Type 3R, weather-resistant, die-cast aluminum with lockable cover.

2.06 TOGGLE SWITCHES

- A. General Description: Switches, 120/277 V, 20 A:
 - 1. Comply with NEMA WD 1, UL 20, and FS W-S-896.
- B. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cooper Wiring Devices, Inc.
 - 2. Hubbell
 - 3. Leviton Manufacturing Company, Inc.
 - 4. Pass & Seymour
 - 5. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.07 FINISHES

- A. Device color:
 - 1. Wiring Devices Connected to Normal Power System: As selected by the Architect / Owner, unless otherwise indicated or required by NFPA 70 or device listing.
 - 2. Wiring Devices Connected to Emergency Power System: As selected by the Architect / Owner.
 - 3. TVSS Devices: As selected by the Architect / Owner.
- B. Wall Plate Color: As selected by the Architect / Owner.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Comply with NECA 1, including mounting heights listed in that standard, unless otherwise indicated.
- B. Coordination with Other Trades:
 - 1. Protect installed devices and their boxes. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of boxes.
 - 2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
 - 3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
 - 4. Install wiring devices after all wall preparation, including painting, is complete.
- C. Conductors:
 - 1. Do not strip insulation from conductors until right before they are spliced or terminated on devices.
 - 2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
 - 3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.

4. Existing Conductors:

- a. Cut back and pigtail, or replace all damaged conductors.
- b. Straighten conductors that remain and remove corrosion and foreign matter.
- c. Pig-tailing existing conductors is permitted, provided the outlet box is large enough.

D. Device Installation:

1. Replace devices that have been in temporary use during construction and that were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 inches in length.
5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, two-thirds to three-fourths of the way around terminal screw.
6. Use a torque screwdriver when torque is recommended or required by manufacturer.
7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device-mounting screws in yokes, allowing metal-to-metal contact.

E. Receptacle Orientation:

1. Install ground pin of vertically mounted receptacles down, and on horizontally mounted receptacles to the right.

F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

G. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multi-gang wall plates.

H. Adjust locations of service poles to suit arrangement of partitions and furnishings.

3.02 GFCI RECEPTACLES

- A. Install non-feed-through-type GFCI receptacles where protection of downstream receptacles is not required.

3.03 FIELD QUALITY CONTROL

A. Perform the following tests and inspections:

1. Test Instruments: Use instruments that comply with UL 1436.
2. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated digital-display indicators of measurement.

B. Tests for Convenience Receptacles:

1. Line Voltage: Acceptable range is 105 to 132 V.
2. Percent Voltage Drop under 15-A Load: A value of 6 percent or higher is unacceptable.
3. Ground Impedance: Values of up to 2 ohms are acceptable.
4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
5. Using the test plug, verify that the device and its outlet box are securely mounted.
6. Tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.

C. Wiring device will be considered defective if it does not pass tests and inspections.

D. Prepare test and inspection reports.

END OF SECTION 16140

SECTION 16141

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Metal conduits, tubing, and fittings.
 - 2. Nonmetal conduits, tubing, and fittings.
 - 3. Metal wire-ways and auxiliary gutters.
 - 4. Nonmetal wire-ways and auxiliary gutters.
 - 5. Surface raceways.
 - 6. Boxes, enclosures, and cabinets.

1.03 SUBMITTALS

- A. Submit Product Data: For surface raceways, wire-ways and fittings, floor boxes, hinged cover enclosures, and cabinets.
- B. Shop Drawings: For custom enclosures and cabinets. Include plans, elevations, sections, and attachment details.
- C. Coordination Drawings: Conduit routing plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of items involved:
 - 1. Structural members in paths of conduit groups with common supports.
 - 2. HVAC and plumbing items and architectural features in paths of conduit groups with common supports.

PART 2 - PRODUCTS

2.01 METAL CONDUITS, TUBING AND FITTINGS

- A. Listing and Labeling: Metal conduits, tubing, and fittings shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. GRC: Comply with ANSI C80.1 and UL 6.
- C. ARC: Comply with ANSI C80.5 and UL 6A.
- D. IMC: Comply with ANSI C80.6 and UL 1242.
- E. PVC-Coated Steel Conduit: PVC-coated rigid steel conduit and IMC.
 - 1. Comply with NEMA RN 1.
 - 2. Coating Thickness: 0.040 inch minimum.
- F. EMT: Comply with ANSI C80.3 and UL 797.

- G. FMC: Comply with UL 1; zinc-coated steel or aluminum.
- H. LFMC: Flexible steel conduit with PVC jacket and complying with UL 360.
- I. Fittings for Metal Conduit: Comply with NEMA FB 1 and UL 514B.
 - 1. Conduit Fittings for Hazardous Locations: Comply with UL 886 and NFPA 70.
 - 2. Fittings for EMT:
 - a. Material: die cast.
 - b. Type: compression.
 - 3. Expansion Fittings: PVC or steel to match conduit type, complying with UL 651, rated for environmental conditions when installed, and including flexible external bonding jumper.
 - 4. Coating for Fittings for PVC-Coated Conduit: Minimum thickness of 0.040 inch with overlapping sleeves protecting threaded joints.
- J. Joint Compound for IMC, GRC, or ARC: Approved, as defined in NFPA 70, by authorities having jurisdiction for use in conduit assemblies, and compounded for use to lubricate and protect threaded conduit joints from corrosion and to enhance their conductivity.

2.02 NON-METALLIC CONDUITS, TUBING AND FITTINGS

- A. Listing and Labeling: Nonmetallic conduits, tubing, and fittings shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. ENT: Comply with NEMA TC 13 and UL 1653.
- C. RNC: Type EPC-40-PVC, complying with NEMA TC 2 and UL 651 unless otherwise indicated.
- D. LFNC: Comply with UL 1660.
- E. Continuous HDPE: Comply with UL 651B.
- F. Coil-able HDPE: Preassembled with conductors or cables, and complying with ASTM D 3485.
- G. Fittings for ENT and RNC: Comply with NEMA TC 3; match to conduit or tubing type and material.
- H. Fittings for LFNC: Comply with UL 514B.
- I. Solvent cements and adhesive primers shall have a VOC content of 510 and 550 g/L or less, respectively, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- J. Solvent cements and adhesive primers shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.03 SURFACE RACEWAYS

- A. Listing and Labeling: Surface raceways and tele-power poles shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Surface Metal Raceways: Galvanized steel with snap-on covers complying with UL 5.
- C. Surface Nonmetallic Raceways: Two or three-piece construction, complying with UL 5A, and manufactured of rigid PVC. Product shall comply with UL 94 V-0 requirements for self-extinguishing characteristics.
- D. Tele-Power Poles:
 - 1. Material: Galvanized steel with ivory baked-enamel finish.
 - 2. Fittings and Accessories: Dividers, end caps, covers, cutouts, wiring harnesses, devices, mounting materials, and other fittings shall match and mate with tele-power pole as required for complete system.

2.04 BOXES, ENCLOSURES AND CABINETS

- A. General Requirements for Boxes, Enclosures, and Cabinets: Boxes, enclosures, and cabinets installed in wet locations shall be listed for use in wet locations.
- B. Sheet Metal Outlet and Device Boxes: Comply with NEMA OS 1 and UL 514A.
- C. Cast-Metal Outlet and Device Boxes: Comply with NEMA FB 1, aluminum, Type FD, with a gasketed cover.
- D. Non-metallic Outlet and Device Boxes: Comply with NEMA OS 2 and UL 514C.
- E. Luminaire Outlet Boxes: Nonadjustable, designed for attachment of luminaire weighing 50 lbs. Outlet boxes designed for attachment of luminaires weighing more than 50 lbs shall be listed and marked for the maximum allowable weight.
- F. Paddle Fan Outlet Boxes: Nonadjustable, designed for attachment of a fan weighing 70 lbs.
 - 1. Listing and labeling: Paddle fan outlet boxes shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- G. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- H. Cast-Metal Access, Pull, and Junction Boxes: Comply with NEMA FB 1 and UL 1773, cast aluminum with a gasketed cover.
- I. Box extensions used to accommodate new building finishes shall be of same material as recessed box.
- J. Device Box Dimensions: 4 inches square by 2-1/8 inches deep.
- K. Gang boxes are allowed.
- L. Hinged-Cover Enclosures: Comply with UL 50 and NEMA 250, Type 1 and Type 3R with continuous-hinge cover with flush latch unless otherwise indicated.
 - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
 - 2. Non-metallic Enclosures: Plastic.
 - 3. Interior Panels: Steel; all sides finished with manufacturer's standard enamel.

PART 3 - EXECUTION

3.01 RACEWAY APPLICATION

- A. Indoors: Apply raceway products as specified below unless otherwise indicated.
1. Exposed, Not Subject to Physical Damage: EMT.
 2. Exposed, Not Subject to Severe Physical Damage: EMT.
 3. Exposed and Subject to Severe Physical Damage: GRC. Raceway locations include the following:
 - a. Loading dock.
 - b. Corridors used for traffic of mechanized carts, forklifts, and pallet-handling units.
 - c. Mechanical rooms.
 4. Concealed in Ceilings and Interior Walls and Partitions: EMT.
 5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
 6. Damp or Wet Locations: GRC or IMC.
 7. Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4 stainless steel in institutional and commercial kitchens and damp or wet locations.
- B. Minimum Raceway Size: 1/2 inch trade size.
- C. Raceway Fittings: Compatible with raceways and suitable for use and location.
1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings unless otherwise indicated. Comply with NEMA FB 2.10.
 2. PVC Externally Coated, Rigid Steel Conduits:
 - a. Use only fittings listed for use with this type of conduit.
 - b. Patch and seal all joints, nicks, and scrapes in PVC coating after installing conduits and fittings.
 - c. Use sealant recommended by fitting manufacturer and apply in thickness and number of coats recommended by manufacturer.
 3. EMT: Use compression, steel or cast-metal fittings. Comply with NEMA FB 2.10.
 4. Flexible Conduit: Use only fittings listed for use with flexible conduit.
 - a. Comply with NEMA FB 2.20.
- D. Do not install aluminum conduits, boxes, or fittings in contact with concrete or earth.
- E. Install surface raceways only where indicated on Drawings.
- F. Do not install non-metallic conduit where ambient temperature exceeds 120 deg F.

3.02 INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except where requirements on Drawings or in this article are stricter. Comply with NECA 102 for aluminum conduits. Comply with NFPA 70 limitations for types of raceways allowed in specific occupancies and number of floors.
- B. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.

- C. Comply with requirements in Section 16070 "Hangers and Supports for Electrical Systems" for hangers and supports.
- D. Arrange stub-ups so curved portions of bends are not visible above finished slab.
- E. Install no more than the equivalent of three 90-degree bends in any conduit run except for control wiring conduits, for which fewer bends are allowed. Support within 12 inches of changes in direction.
- F. Conceal conduit and EMT within finished walls, ceilings, and floors unless otherwise indicated. Install conduits parallel or perpendicular to building lines.
- G. Support conduit within 12 inches of enclosures to which attached.
- H. Stub-ups to Above Recessed Ceilings:
 - 1. Use EMT, IMC, or RMC for raceways.
 - 2. Use a conduit bushing or insulated fitting to terminate stub-ups not terminated in hubs or in an enclosure.
- I. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions:
 - 1. Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.
- J. Coat field-cut threads on PVC-coated raceway with a corrosion-preventing conductive compound prior to assembly.
- K. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors including conductors smaller than No. 4 AWG.
- L. Terminate threaded conduits into threaded hubs or with locknuts on inside and outside of boxes or cabinets. Install bushings on conduits up to 1-1/4-inch trade size and insulated throat metal bushings on 1-1/2-inch trade size and larger conduits terminated with locknuts. Install insulated throat metal grounding bushings on service conduits.
- M. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 12 inches of slack at each end of pull wire. Cap underground raceways designated as spare above grade alongside raceways in use.
- N. Surface Raceways:
 - 1. Install surface raceway with a minimum 2-inch radius control at bend points.
 - 2. Secure surface raceway with screws or other anchor-type devices at intervals not exceeding 48 inches and with no less than two supports per straight raceway section. Support surface raceway according to manufacturer's written instructions. Tape and glue are not acceptable support methods.
- O. Install raceway sealing fittings at accessible locations according to NFPA 70 and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
- P. Install devices to seal raceway interiors at accessible locations. Locate seals so no fittings or boxes are between the seal and the following changes of environments. Seal the interior of all raceways at the following points:

1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
2. Where an underground service raceway enters a building or structure.
3. Where otherwise required by NFPA 70.

Q. Expansion-Joint Fittings:

1. Install in each run of aboveground RNC that is located where environmental temperature change may exceed 30 deg F and that has straight-run length that exceeds 25 feet.
2. Install type and quantity of fittings that accommodate temperature change listed for each of the following locations:
 - a. Outdoor Locations Not Exposed to Direct Sunlight: 125 deg F temperature change.
 - b. Outdoor Locations Exposed to Direct Sunlight: 155 deg F temperature change.
 - c. Indoor Spaces Connected with Outdoors without Physical Separation: 125 deg F temperature change.
 - d. Attics: 135 deg F temperature change.
3. Install fittings that provide expansion and contraction for at least 0.00041 inch per foot of length of straight run per degree F of temperature change for PVC conduits.
4. Install expansion fittings at all locations where conduits cross building or structure expansion joints.
5. Install each expansion-joint fitting with position, mounting, and piston setting selected according to manufacturer's written instructions for conditions at specific location at time of installation. Install conduit supports to allow for expansion movement.

R. Flexible Conduit Connections: Comply with NEMA RV 3. Use a maximum of 72 inches of flexible conduit for equipment subject to vibration, noise transmission, or movement; and for transformers and motors.

1. Use LFMC in damp or wet locations subject to severe physical damage.
2. Use LFMC or LFNC in damp or wet locations not subject to severe physical damage.

S. Mount boxes at heights indicated on Drawings. If mounting heights of boxes are not individually indicated, give priority to ADA requirements. Install boxes with height measured to center of box unless otherwise indicated.

T. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall. Prepare block surfaces to provide a flat surface for a rain tight connection between the box and cover plate or the supported equipment and box.

U. Horizontally separate boxes mounted on opposite sides of walls so they are not in the same vertical channel.

V. Locate boxes so that cover or plate will not span different building finishes.

W. Support boxes of three gangs or more from more than one side by spanning two framing members or mounting on brackets specifically designed for the purpose.

X. Fasten junction and pull boxes to or support from building structure. Do not support boxes by conduits.

Y. Set metal floor boxes level and flush with finished floor surface.

Z. Set nonmetallic floor boxes level. Trim after installation to fit flush with finished floor surface.

3.03 SLEEVE AND SEAL INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Install sleeves and sleeve seals at penetrations of exterior floor and wall assemblies.

3.04 FIRESTOPPING FOR ELECTRICAL PENETRATIONS

- A. Install fire-stopping at penetrations of fire-rated floor and wall assemblies as required per code.

3.05 PROTECTION

- A. Protect coatings, finishes, and cabinets from damage and deterioration.
 - 1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
 - 2. Repair damage to PVC coatings or paint finishes with matching touchup coating recommended by manufacturer.

END OF SECTION 16141

SECTION 16510

INTERIOR LIGHTING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Interior lighting fixtures, lamps, and ballasts.
 - 2. Emergency lighting units.
 - 3. Exit signs.
 - 4. Lighting fixture supports.
 - 5. Retrofit kits for fluorescent lighting fixtures.
- B. Related Sections:
 - 1. Section 16140 "Wiring Devices" for manual wall-box dimmers for incandescent lamps.

1.03 SUBMITTALS

- A. Submit Product Data: For each type of lighting fixture, arranged in order of fixture designation. Include data on features, accessories, and finishes.
- B. Shop Drawings: Show details of nonstandard or custom lighting fixtures. Indicate dimensions, weights, methods of field assembly, components, features, and accessories. Product Certificates: For each type of ballast for bi-level and dimmer-controlled fixtures, from manufacturer.
- C. Field quality-control reports.

1.04 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers, Products are subject to the compliance with the specified requirements, products that may be incorporated into the Work include, but are not limited to, products indicated on the drawings.
 - 1. Approved Equivalent (see Section 01630 – Products and Substitutions)

2.02 GENERAL REQUIREMENTS FOR LIGHTING FIXTURES / COMPONENTS

- A. Recessed Fixtures: Comply with NEMA LE 4 for ceiling compatibility for recessed fixtures.
- B. Fluorescent Fixtures: Comply with UL 1598. Where LER is specified, test according to NEMA LE 5 and NEMA LE 5A as applicable.
- C. Metal Parts: Free of burrs and sharp corners and edges.
- D. Sheet Metal Components: Steel unless otherwise indicated. Form and support to prevent warping and sagging.
- E. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit re-lamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during re-lamping and when secured in operating position.
- F. Diffusers and Globes:
 - 1. Acrylic Lighting Diffusers: 100 percent virgin acrylic plastic. High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
 - a. Lens Thickness: At least 0.125 inch minimum unless otherwise indicated.
 - b. UV stabilized.

2.03 BALLASTS FOR LINEAR FLUORESCENT LAMPS

- A. General Requirements for Electronic Ballasts:
 - 1. Comply with UL 935 and with ANSI C82.11.
 - 2. Designed for type and quantity of lamps served.
 - 3. Ballasts shall be designed for full light output unless another BF, dimmer, or bi-level control is indicated.
 - 4. Sound Rating: Class A.
 - 5. Total Harmonic Distortion Rating: Less than 10 percent.
 - 6. Transient Voltage Protection: IEEE C62.41.1 and IEEE C62.41.2, Category A or better.
 - 7. Operating Frequency: 42 kHz or higher.
 - 8. Lamp Current Crest Factor: 1.7 or less.
 - 9. BF: 0.88 or higher.
 - 10. Power Factor: 0.95 or higher.
- B. Luminaires controlled by occupancy sensors shall have programmed-start ballasts.
- C. Electromagnetic Ballasts: Comply with ANSI C82.1; energy saving, high-power factor, Class P, and having automatic-reset thermal protection.
 - 1. Ballast Manufacturer Certification: Indicated by label.
- D. Single Ballasts for Multiple Lighting Fixtures: Factory wired with ballast arrangements and bundled extension wiring to suit final installation conditions without modification or rewiring in the field.

2.04 BALLASTS FOR COMPACT FLUORESCENT LAMPS

- A. Description: Electronic-programmed rapid-start type, complying with UL 935 and with ANSI C 82.11, designed for type and quantity of lamps indicated. Ballast shall be designed for full light output unless dimmer or bi-level control is indicated:
1. Lamp end-of-life detection and shutdown circuit.
 2. Automatic lamp starting after lamp replacement.
 3. Sound Rating: Class A.
 4. Total Harmonic Distortion Rating: Less than 20 percent.
 5. Transient Voltage Protection: IEEE C62.41.1 and IEEE C62.41.2, Category A or better.
 6. Operating Frequency: 20 kHz or higher.
 7. Lamp Current Crest Factor: 1.7 or less.
 8. BF: 0.95 or higher unless otherwise indicated.
 9. Power Factor: 0.95 or higher.
 10. Interference: Comply with 47 CFR 18, Ch. 1, Subpart C, for limitations on electromagnetic and radio-frequency interference for non-consumer equipment.

2.05 EMERGENCY FLUORESCENT POWER UNIT

- A. Internal Type: Self-contained, modular, battery-inverter unit, factory mounted within lighting fixture body and compatible with ballast. Comply with UL 924.
1. Emergency Connection: Operate one fluorescent lamp(s) continuously at an output of 1100 lumens each minimum. Connect un-switched circuit to battery-inverter unit and switched circuit to fixture ballast.
 2. Nightlight Connection: Operate one fluorescent lamp continuously.
 3. Test Push Button and Indicator Light: Visible and accessible without opening fixture or entering ceiling space.
 - a. Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
 - b. Indicator Light: LED indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.
 4. Battery: Sealed, maintenance-free, nickel-cadmium type.
 5. Charger: Fully automatic, solid-state, constant-current type with sealed power transfer relay.
 6. Integral Self-Test: Factory-installed electronic device automatically initiates code-required test of unit emergency operation at required intervals. Test failure is annunciated by an integral audible alarm and a flashing red LED.

2.06 EXIT SIGNS

- A. General Requirements for Exit Signs: Comply with UL 924; for sign colors, visibility, luminance, and lettering size, comply with authorities having jurisdiction.
- B. Internally Lighted Signs:
1. Lamps for AC Operation: Fluorescent, two for each fixture, 20,000 hours of rated lamp life.
 2. Lamps for AC Operation: LEDs, 50,000 hours minimum rated lamp life.

3. Self-Powered Exit Signs (Battery Type): Integral automatic charger in a self contained power pack.
 - a. Battery: Sealed, maintenance-free, nickel-cadmium type.
 - b. Charger: Fully automatic, solid-state type with sealed transfer relay.
 - c. Operation: Relay automatically energizes lamp from battery when circuit voltage drops to 80 percent of nominal voltage or below. When normal voltage is restored, relay disconnects lamps from battery, and battery is automatically recharged and floated on charger.
 - d. Test Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
 - e. LED Indicator Light: Indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.

2.07 FLUORESCENT LAMPS

- A. T8 rapid-start lamps, rated 32 W maximum, nominal length of 48 inches, 2800 initial lumens (minimum), CRI 75 (minimum), color temperature 3500 K, and average rated life 20,000 hours unless otherwise indicated.
- B. T8 rapid-start lamps, rated 17 W maximum, nominal length of 24 inches, 1300 initial lumens (minimum), CRI 75 (minimum), color temperature 3500 K, and average rated life of 20,000 hours unless otherwise indicated.
- C. Compact Fluorescent Lamps: 4-Pin, CRI 80 (minimum), color temperature 3500 K, average rated life of 10,000 hours at three hours operation per start, and suitable for use with dimming ballasts unless otherwise indicated.
 1. 13 W: T4, double or triple tube, rated 900 initial lumens (minimum).
 2. 18 W: T4, double or triple tube, rated 1200 initial lumens (minimum).
 3. 26 W: T4, double or triple tube, rated 1800 initial lumens (minimum).
 4. 32 W: T4, triple tube, rated 2400 initial lumens (minimum).
 5. 42 W: T4, triple tube, rated 3200 initial lumens (minimum).
 6. 57 W: T4, triple tube, rated 4300 initial lumens (minimum).
 7. 70 W: T4, triple tube, rated 5200 initial lumens (minimum).

2.08 LED FIXTURES

- A. Conform to UL 8750.
- B. LED Drivers: Electronic integrated circuit, solid-state, full light output, energy efficient type compatible with LED and LED combinations to which connected.
 1. Comply with NEMA SSL-1-2010
 2. Certification by Electrical Testing Laboratory (ETL).
 3. Rated for 75 input watts maximum, multi-volt input, and 0-10V dimming standard.
 4. Type: high power factor, except as otherwise indicated.
 5. Sound Rating: "A" rating, except as otherwise indicated.
 6. Voltage: Match connected circuits.
 7. Minimum Power Factor: 90 percent.
 8. Total Harmonic Distortion (THD) of Driver Current: Less than 10 percent.
 9. Conform to FCC Regulations Part 15, Subpart J for electromagnetic interference.

10. Conform to IEEE C62.41, Category A, for resistance to voltage surges for normal and common modes.
 11. Lamp-driver connection method does not reduce normal rated life of lamps.
- C. Comply with the following:
1. ANSI C78 series.
 2. IES TM-16-05.
 3. NEMA SSL-3-2010.
 4. LM-80.
- D. LED Color Temperature and Minimum Color-Rendering Index (CRI): 3500 K and 85 CRI, except as otherwise indicated.
- E. LED Life: Rated average is 100,000 hours at 3 hours per start when used on rapid start circuits.

2.09 LIGHTING FIXTURE SUPPORT COMPONENTS

- A. Comply with Section 16070 "Hangers and Supports for Electrical Systems" for channel and angle-iron supports and non-metallic channel and angle supports.
- B. Single-Stem Hangers: 1/2-inch steel tubing with swivel ball fittings and ceiling canopy. Finish same as fixture.
- C. Twin-Stem Hangers: Two, 1/2-inch steel tubes with single canopy designed to mount a single fixture. Finish same as fixture.
- D. Wires: ASTM A 641/A 641M, Class 3, soft temper, zinc-coated steel, 12 gauge.
- E. Wires for Humid Spaces: ASTM A 580/A 580M, Composition 302 or 304, annealed stainless steel, 12 gauge.
- F. Rod Hangers: 3/16-inch minimum diameter, cadmium-plated, threaded steel rod.
- G. Hook Hangers: Integrated assembly matched to fixture and line voltage and equipped with threaded attachment, cord, and locking-type plug.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Lighting fixtures:
 1. Set level, plumb, and square with ceilings and walls.
 2. Install lamps in each fixture.
- B. Comply with NFPA 70 for minimum fixture supports.
- C. Suspended Lighting Fixture Support:
 1. Pendants and Rods: Where longer than 48 inches, brace to limit swinging.
 2. Stem-Mounted, Single-Unit Fixtures: Suspend with twin-stem hangers.
 3. Continuous Rows: Use tubing or stem for wiring at one point and tubing or rod for suspension for each unit length of fixture chassis, including one at each end.
- D. Adjust / aim lighting fixtures to provide required light intensities.
- E. Connect wiring according to Section 16120 "Low-Voltage Electrical Power Conductors and Cables."

3.02 FIELD QUALITY CONTROL

- A. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery and retransfer to normal.
- B. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

END OF SECTION 16510

INTERIOR RENOVATION FOR:

OKALOOSA COUNTY VISITORS CENTER

1540 MIRACLE STRIP PARKWAY S.E. (HWY 98)

FORT WALTON BEACH, FLORIDA

PROJECT CONSULTANT:
GENESIS GROUP
 9922 TAPESTRY PARK CIRCLE, SUITE 201
 JACKSONVILLE, FLORIDA 32246
 TELEPHONE: (904) 730-9560
 FAX: (904) 730-9560
 E-MAIL: JPETRIC@GENESISGROUP.COM
 CONTACT: JOSEPH PETRICH

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 CONTACT: J.R. STOKES

MECHANICAL:
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 75 SOUTH F STREET
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 E-MAIL: PETERSON@PETSON.COM
 CONTACT: GREG PETERSON

ELECTRICAL:
BLANCHARD ENGINEERING, INC.
 216 EAST GOVERNMENT STREET
 PENSACOLA, FLORIDA 32502
 TELEPHONE: (850) 462-8040
 FAX: (850) 462-8040
 E-MAIL: DAVID@BLANCHARDENGINEERING.COM
 CONTACT: DAVID BLANCHARD

PROJECT DATA

SITE/OWNER'S ADDRESS:
 1540 MIRACLE STRIP PARKWAY, SUITE 201
 FORT WALTON BEACH, FLORIDA 32548

PROJECT ADDRESS:
 1540 MIRACLE STRIP PARKWAY, SUITE 201
 FORT WALTON BEACH, FLORIDA 32548

PANEL/ID:
 1540 MIRACLE STRIP PARKWAY, SUITE 201
 FORT WALTON BEACH, FLORIDA 32548

SITE/OWNER'S CONTACT:
 J.R. STOKES
 (850) 664-2220

BUILDING TYPE:
 VISITORS CENTER

CONTRACT/PERMIT:
 CONTRACT NO. 1540-01-0000000000
 PERMIT NO. 1540-01-0000000000

DATE:
 11/15/11

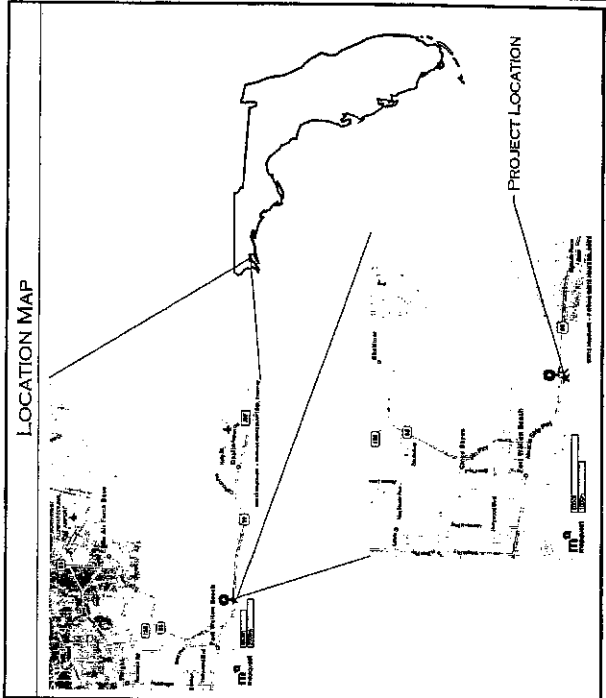
DESIGNER:
 J.R. STOKES
 (850) 664-2220

DATE:
 11/15/11

PROJECT NO.:
 1540-01-0000000000

SYMBOL LEGEND

MATERIAL SYMBOLS	ABBREVIATIONS
ASBESTOS	ASBESTOS
BRICK	BRICK
CONCRETE	CONCRETE
GLASS	GLASS
INSULATION	INSULATION
PAINT	PAINT
PLASTER	PLASTER
ROOFING	ROOFING
WOOD	WOOD
... (many more symbols and abbreviations)	... (many more abbreviations)



INDEX OF DRAWINGS

NO.	TITLE
C-1.0	COVER / TITLE SHEET
T-9.1.0	EXISTING SITE PLAN
D-1.0	ARCHITECTURAL - EXISTING FLOOR / DEMOLITION PLAN
A-1.0	ARCHITECTURAL - REMODELED FLOOR PLAN
A-2.0	ARCHITECTURAL - BUILDING SECTIONS
A-3.0	ARCHITECTURAL - REFLECTED CEILING PLAN
A-4.0	ARCHITECTURAL - SECTIONS AND DETAILS
A-5.0	ARCHITECTURAL - MECHANICAL
M-101	MECHANICAL - DEMOLITION FLOOR PLAN
M-102	MECHANICAL - NEW WORK FLOOR PLAN
M-800	MECHANICAL - SCHEDULES AND DETAILS
E-100	ELECTRICAL - LEGEND AND NOTES
E-101	ELECTRICAL - DEMOLITION PLAN
E-200	ELECTRICAL - NEW WORK LIGHTING PLAN
E-201	ELECTRICAL - NEW WORK POWER PLAN

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 11/15/11

Interior Renovation for Okaloosa County Visitors Center
 1540 Miracle Strip Parkway, SE (Hwy 98)
 Fort Walton Beach, Florida 32548
 Okaloosa County
 COVER SHEET
 G-1.0

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 Architectural, Inc.

Interior Renovation for Okaloosa County Visitors Center
 1540 Mirade Strip Parkway, SE (Hwy 98)
 Fort Walton Beach, Florida 32548
 Okaloosa County

TS-1.0

SITE PLAN

DATE: 11/11/15

SCALE: 1" = 20'

PROJECT NO: 00-25-24-2185-001B-0040

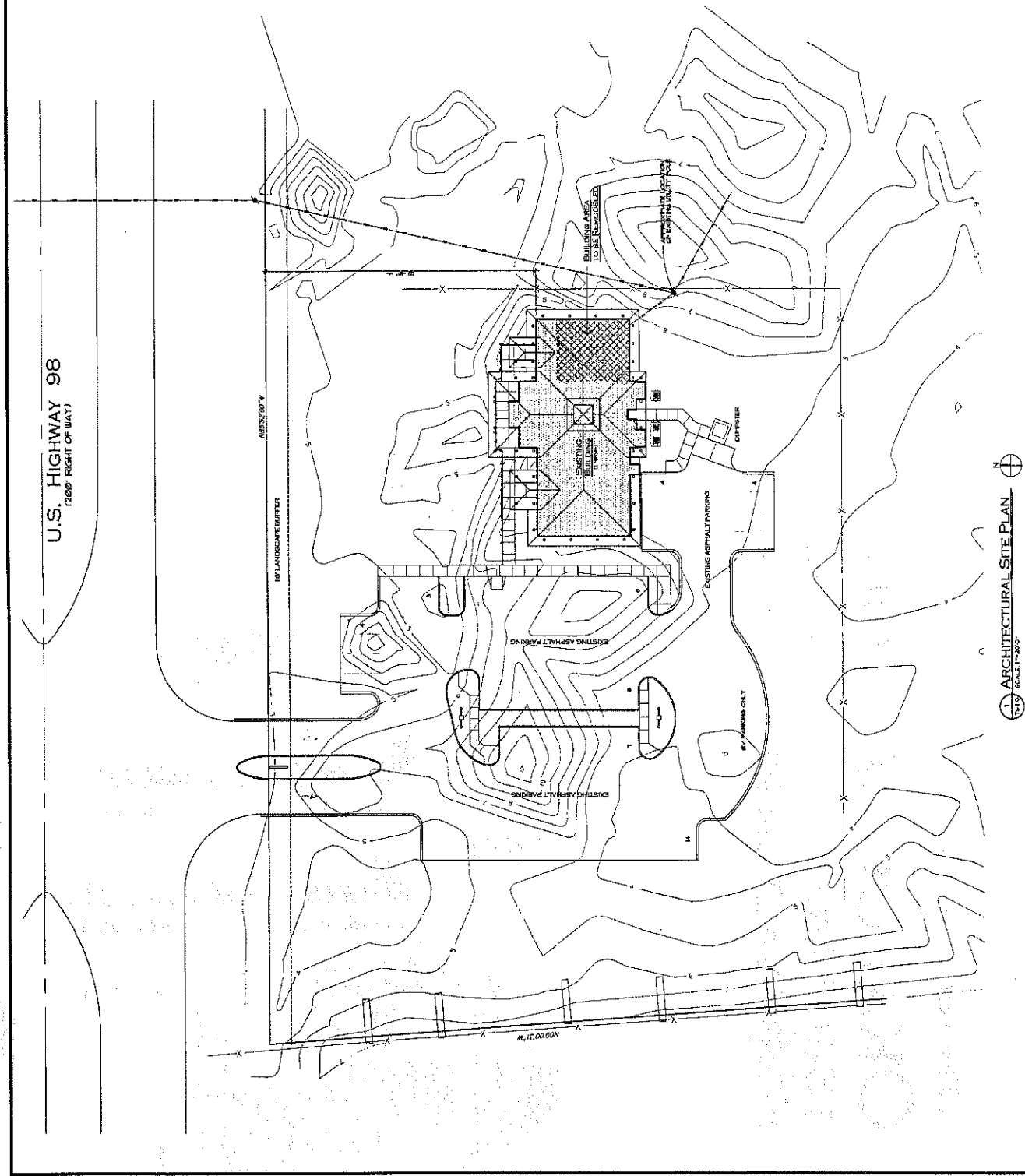
SITE PLAN LEGEND

- EXISTING BUILDING
- EXISTING CONCRETE DRIVEWAYS
- EXISTING ASPHALT DRIVE
- EXISTING CONTOUR / GRADE

SITE STATISTICS

SITE AREA	214,147 SQ. FT.
SITE ADDRESS	21544 001 FT.
PROPERTY ZONING	B-3
EXISTING BUILDING	40,111 SQ. FT.
EXISTING ASPHALT DRIVEWAY	2,331 SQ. FT.
EXISTING ASPHALT PARKING	2,331 SQ. FT.
EXISTING CONCRETE DRIVEWAYS	2,331 SQ. FT.
TOTAL IMPERVIOUS AREA	47,804 SQ. FT.
IMPERVIOUS AREA RATIO	22.3%
PARKING REQUIREMENTS	
NETAL / OFFICE (1000)	40,111 SQ. FT. 44 SPACES
TOTAL PROVIDED (INCLUDES 2 HOV)	51 SPACES

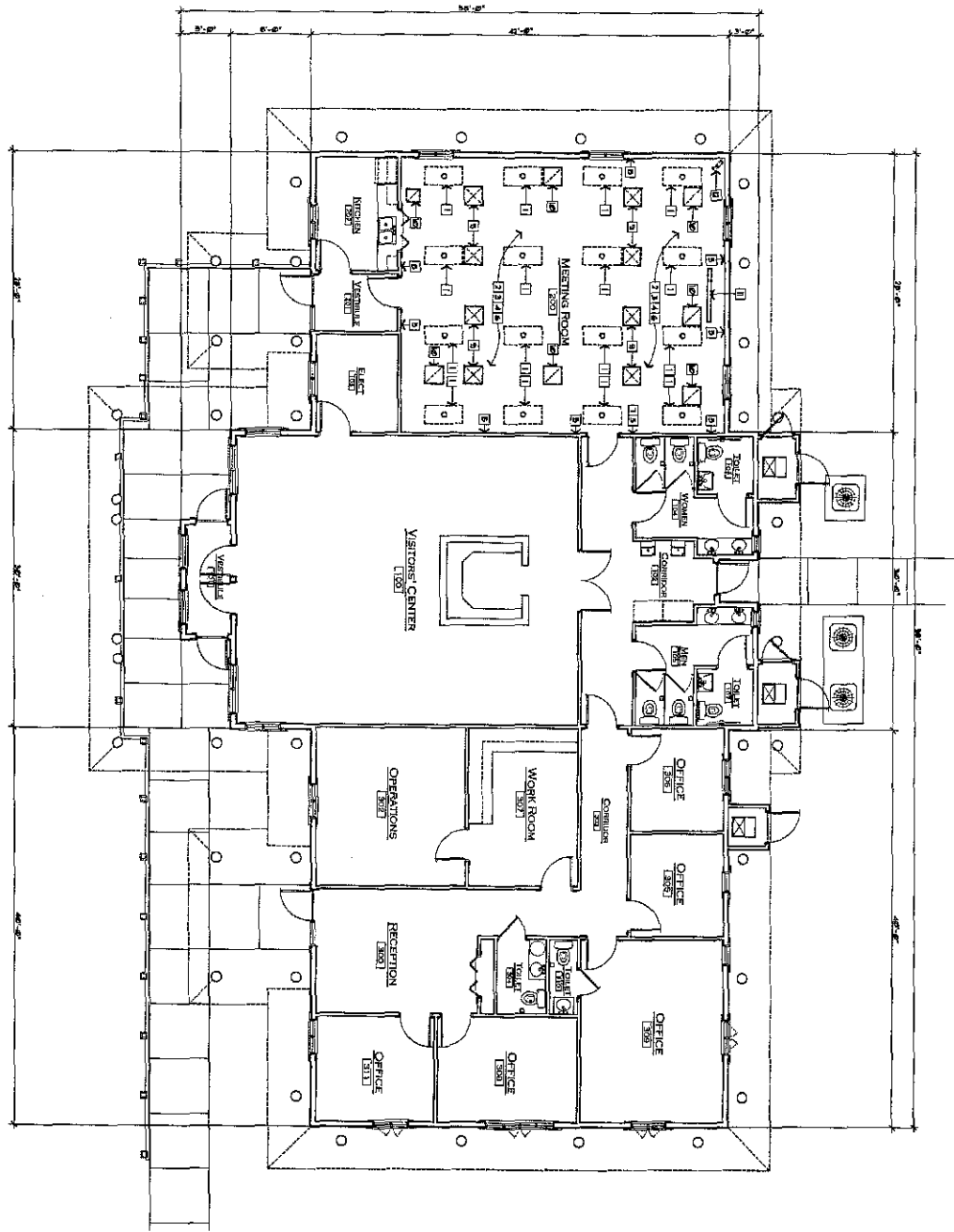
PARCEL ID
 00-25-24-2185-001B-0040



ARCHITECTURAL SITE PLAN

SCALE: 1" = 20'

PERMIT SET



DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND	
	ITEMS TO REMAIN
	ITEMS TO BE REMOVED

DEMOLITION NOTES

- 1) ALL DEMOLITION SHALL BE ACCORDING TO THE DEMOLITION PLAN AND THE DEMOLITION SPECIFICATIONS.
- 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- 3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
- 4) ALL DEMOLITION SHALL BE ACCORDING TO THE DEMOLITION PLAN AND THE DEMOLITION SPECIFICATIONS.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
- 6) ALL DEMOLITION SHALL BE ACCORDING TO THE DEMOLITION PLAN AND THE DEMOLITION SPECIFICATIONS.
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- 8) ALL DEMOLITION SHALL BE ACCORDING TO THE DEMOLITION PLAN AND THE DEMOLITION SPECIFICATIONS.
- 9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
- 10) ALL DEMOLITION SHALL BE ACCORDING TO THE DEMOLITION PLAN AND THE DEMOLITION SPECIFICATIONS.

DEMOLITION KEYNOTES

- 1) REMOVE EXISTING LIGHT FIXTURES AND RELOCATE EXISTING LIGHT FIXTURES TO NEW LOCATIONS.
- 2) REMOVE EXISTING LIGHT FIXTURES AND RELOCATE EXISTING LIGHT FIXTURES TO NEW LOCATIONS.
- 3) REMOVE EXISTING LIGHT FIXTURES AND RELOCATE EXISTING LIGHT FIXTURES TO NEW LOCATIONS.
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- 10) REMOVE EXISTING LIGHT FIXTURES AND RELOCATE EXISTING LIGHT FIXTURES TO NEW LOCATIONS.

PERMIT SET

DATE	DESCRIPTION
11/14/15	ISSUED FOR PERMIT
11/14/15	ISSUED FOR PERMIT
11/14/15	ISSUED FOR PERMIT
11/14/15	ISSUED FOR PERMIT
11/14/15	ISSUED FOR PERMIT

Interior Renovation for Okaloosa County Visitors Center
 1540 Miracle Strip Parkway, SE (Hwy 98)
 Fort Walton Beach, Florida 32548
 Okaloosa County

John R. Stokes
 6/11/15

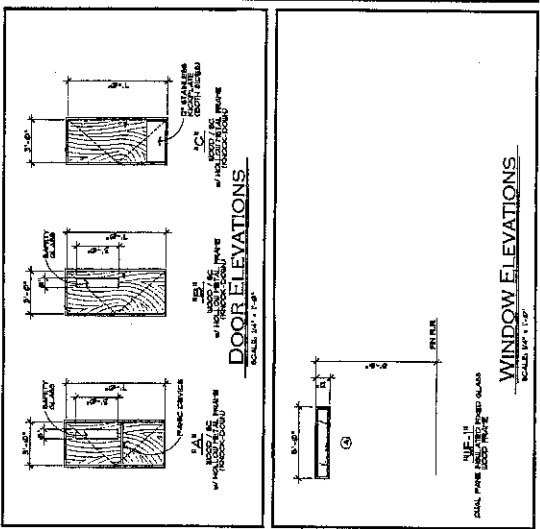
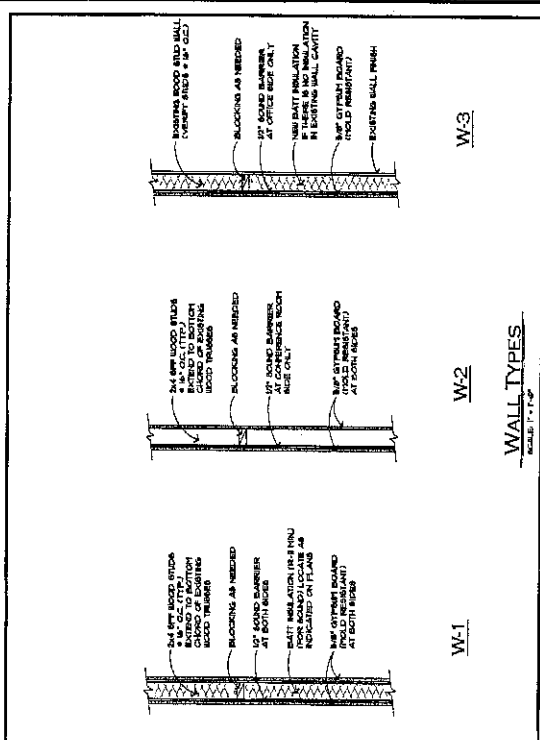
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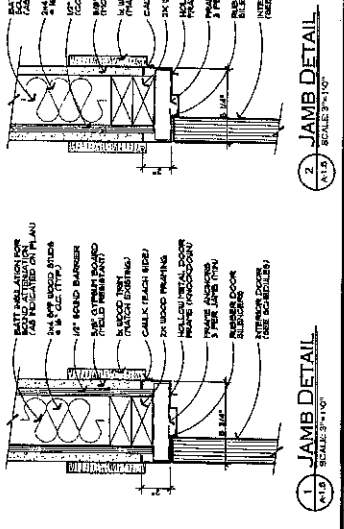
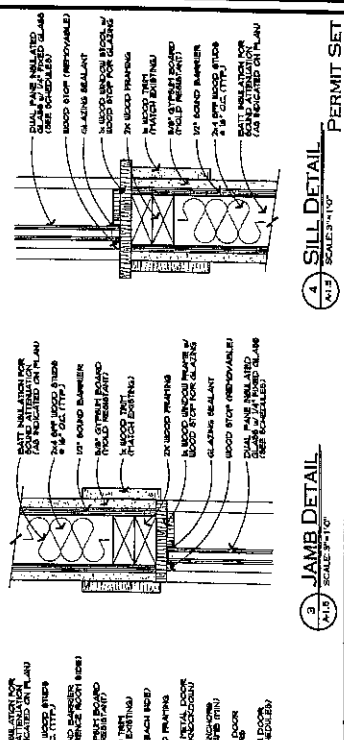
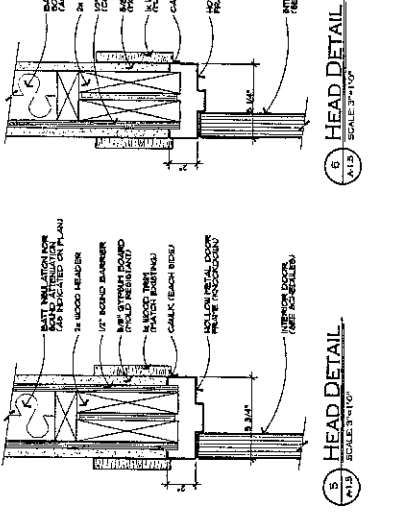
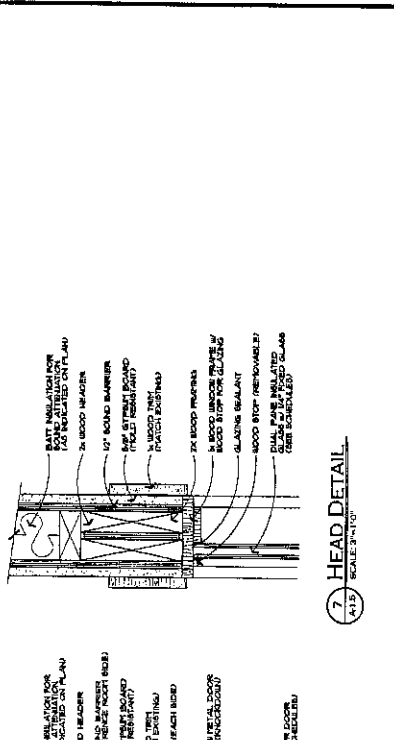
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Okaloosa County Visitors Center
 Interior Renovation for
 1540 Mirada Strip Parkway, SE (Hwy 98)
 Fort Walton Beach, Florida 32548
 Okaloosa County



ROOM FINISH SCHEDULE

NO.	ROOM	FLOOR	WALLS	CEILING	DETAILS
1	RECEPTION	WOOD	WOOD	WOOD	
2	OFFICE	WOOD	WOOD	WOOD	
3	CONFERENCE	WOOD	WOOD	WOOD	
4	RESTROOM	WOOD	WOOD	WOOD	
5	STORAGE	WOOD	WOOD	WOOD	
6	MEETING	WOOD	WOOD	WOOD	
7	RECEPTION	WOOD	WOOD	WOOD	
8	OFFICE	WOOD	WOOD	WOOD	
9	CONFERENCE	WOOD	WOOD	WOOD	
10	RESTROOM	WOOD	WOOD	WOOD	
11	STORAGE	WOOD	WOOD	WOOD	
12	MEETING	WOOD	WOOD	WOOD	
13	RECEPTION	WOOD	WOOD	WOOD	
14	OFFICE	WOOD	WOOD	WOOD	
15	CONFERENCE	WOOD	WOOD	WOOD	
16	RESTROOM	WOOD	WOOD	WOOD	
17	STORAGE	WOOD	WOOD	WOOD	
18	MEETING	WOOD	WOOD	WOOD	
19	RECEPTION	WOOD	WOOD	WOOD	
20	OFFICE	WOOD	WOOD	WOOD	
21	CONFERENCE	WOOD	WOOD	WOOD	
22	RESTROOM	WOOD	WOOD	WOOD	
23	STORAGE	WOOD	WOOD	WOOD	
24	MEETING	WOOD	WOOD	WOOD	
25	RECEPTION	WOOD	WOOD	WOOD	
26	OFFICE	WOOD	WOOD	WOOD	
27	CONFERENCE	WOOD	WOOD	WOOD	
28	RESTROOM	WOOD	WOOD	WOOD	
29	STORAGE	WOOD	WOOD	WOOD	
30	MEETING	WOOD	WOOD	WOOD	
31	RECEPTION	WOOD	WOOD	WOOD	
32	OFFICE	WOOD	WOOD	WOOD	
33	CONFERENCE	WOOD	WOOD	WOOD	
34	RESTROOM	WOOD	WOOD	WOOD	
35	STORAGE	WOOD	WOOD	WOOD	
36	MEETING	WOOD	WOOD	WOOD	
37	RECEPTION	WOOD	WOOD	WOOD	
38	OFFICE	WOOD	WOOD	WOOD	
39	CONFERENCE	WOOD	WOOD	WOOD	
40	RESTROOM	WOOD	WOOD	WOOD	
41	STORAGE	WOOD	WOOD	WOOD	
42	MEETING	WOOD	WOOD	WOOD	
43	RECEPTION	WOOD	WOOD	WOOD	
44	OFFICE	WOOD	WOOD	WOOD	
45	CONFERENCE	WOOD	WOOD	WOOD	
46	RESTROOM	WOOD	WOOD	WOOD	
47	STORAGE	WOOD	WOOD	WOOD	
48	MEETING	WOOD	WOOD	WOOD	
49	RECEPTION	WOOD	WOOD	WOOD	
50	OFFICE	WOOD	WOOD	WOOD	
51	CONFERENCE	WOOD	WOOD	WOOD	
52	RESTROOM	WOOD	WOOD	WOOD	
53	STORAGE	WOOD	WOOD	WOOD	
54	MEETING	WOOD	WOOD	WOOD	
55	RECEPTION	WOOD	WOOD	WOOD	
56	OFFICE	WOOD	WOOD	WOOD	
57	CONFERENCE	WOOD	WOOD	WOOD	
58	RESTROOM	WOOD	WOOD	WOOD	
59	STORAGE	WOOD	WOOD	WOOD	
60	MEETING	WOOD	WOOD	WOOD	
61	RECEPTION	WOOD	WOOD	WOOD	
62	OFFICE	WOOD	WOOD	WOOD	
63	CONFERENCE	WOOD	WOOD	WOOD	
64	RESTROOM	WOOD	WOOD	WOOD	
65	STORAGE	WOOD	WOOD	WOOD	
66	MEETING	WOOD	WOOD	WOOD	
67	RECEPTION	WOOD	WOOD	WOOD	
68	OFFICE	WOOD	WOOD	WOOD	
69	CONFERENCE	WOOD	WOOD	WOOD	
70	RESTROOM	WOOD	WOOD	WOOD	
71	STORAGE	WOOD	WOOD	WOOD	
72	MEETING	WOOD	WOOD	WOOD	
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75	CONFERENCE	WOOD	WOOD	WOOD	
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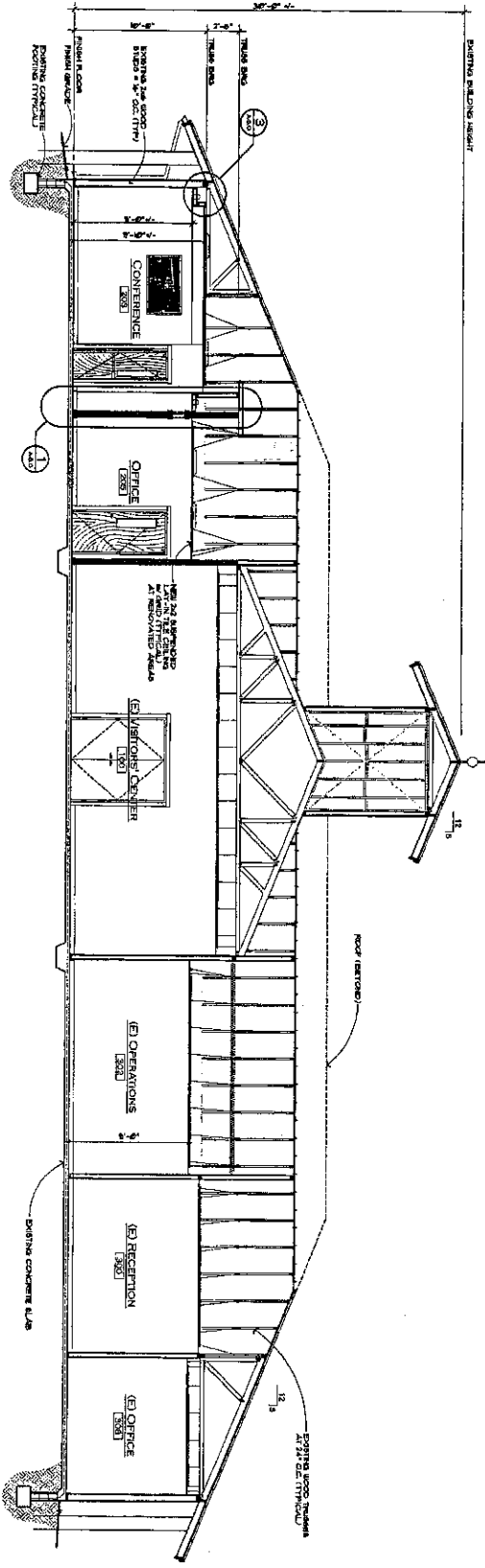


DOOR SCHEDULE

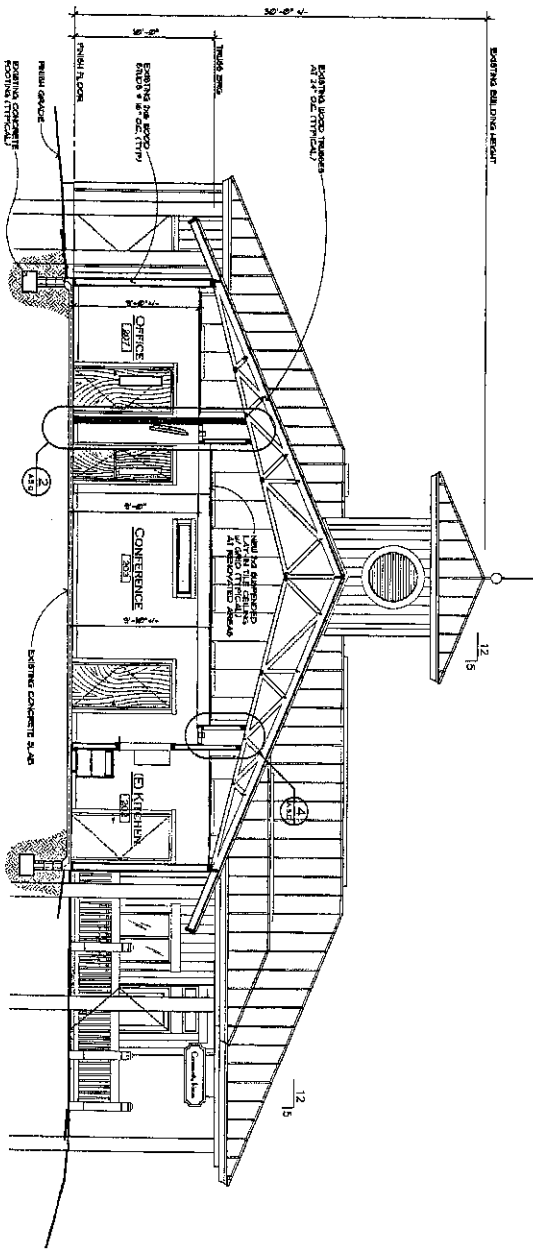
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3	CONFERENCE	WOOD	WOOD	
4	RESTROOM	WOOD	WOOD	
5	STORAGE	WOOD	WOOD	
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7	RECEPTION	WOOD	WOOD	
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25	RECEPTION	WOOD	WOOD	
26	OFFICE	WOOD	WOOD	
27	CONFERENCE	WOOD	WOOD	
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29	STORAGE	WOOD	WOOD	
30	MEETING	WOOD	WOOD	
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100	RESTROOM	WOOD	WOOD	

WINDOW SCHEDULE

NO.	ROOM	TYPE	FINISH	DETAILS
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3	CONFERENCE	WOOD	WOOD	
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34	RESTROOM	WOOD	WOOD	
35	STORAGE	WOOD	WOOD	
36	MEETING	WOOD	WOOD	
37	RECEPTION	WOOD	WOOD	
38				



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"

PERMIT SET

A-2.5	DATE	1/20/10
	BY	STOKES ARCHITECTURAL, INC.
BUILDING SECTIONS	PROJECT	INTERIOR RENOVATION FOR OKALOOSA COUNTY VISITORS CENTER
	LOCATION	1540 MIRACLE STRIP PARKWAY, SE (HWY 98) FORT WALTON BEACH, FLORIDA 32548
DRAWING NO.	DATE	1/20/10
	BY	STOKES ARCHITECTURAL, INC.

Interior Renovation for Okaloosa County Visitors Center
 1540 Miracle Strip Parkway, SE (Hwy 98)
 Fort Walton Beach, Florida 32548

Okaloosa County

David R. Stokes
 David R. Stokes
 Architectural, Inc.
 1/20/10

Stokes Architectural, Inc.
 Architecture • Master Planning • Interior Design
 9 Miracle Strip Parkway, S.W.
 Fort Walton Beach, Florida 32548
 Phone: (850) 664-2220 Fax: (850) 664-6943
 FL License # AF0206811 FL Corp License # AAC07725

Stokes Architectural, Inc.
 STOKES ARCHITECTURAL, INC.

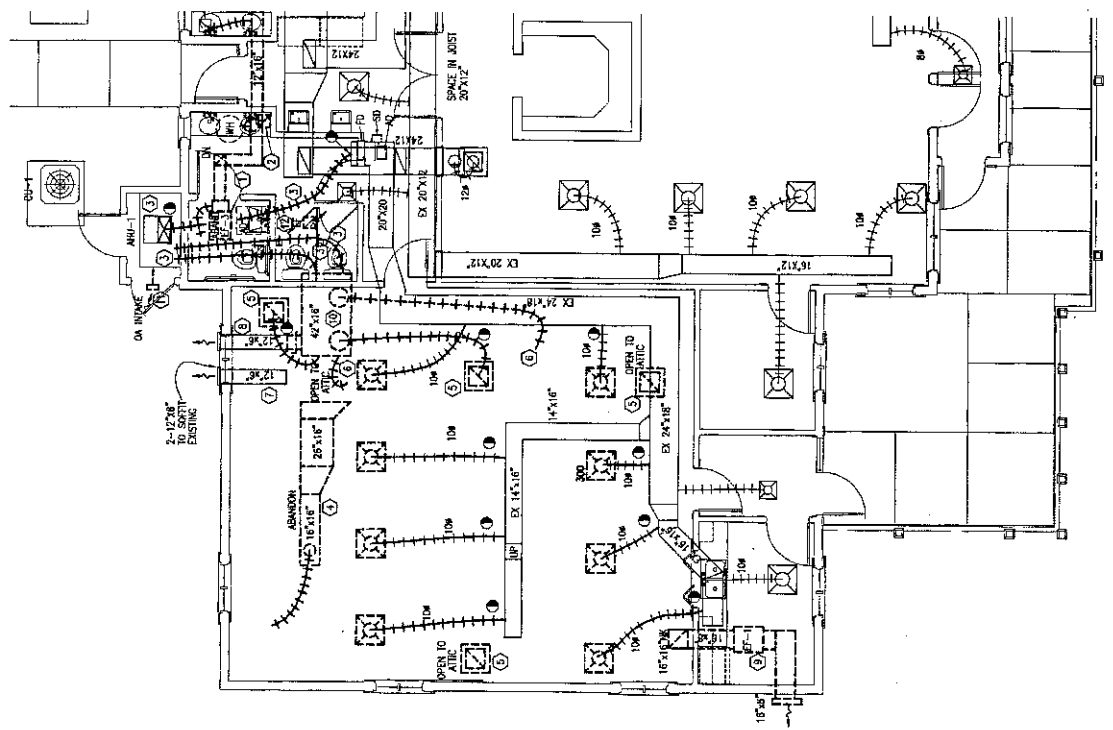
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Stokes Architectural, Inc.
 Architectural Interior Planning
 Fort Worth, Texas 76102
 Fort Worth, Texas 76102
 Fort Worth, Texas 76102

**Interior Renovation for
 Oklahoma County Visitors Center**
 1540 Midway Plaza, Suite 2250
 Fort Worth, Texas 76102
 817-339-1111
 M-101

- SHEET NOTES:**
- REMOVE EXISTING ABANDONED EF-3 AND ASSOCIATED DUCT AND ACCESSORIES. EXISTING ELECTRICAL AND CONTROLS TO BE REUSED. EXISTING ELECTRICAL PANELS TO REMAIN. ACCESS TO ABOVE HC TOILET (ACCESS DOOR AS SHOWN). VERIFY BUILDING AND SPACE FOR NEW DUCT BEFORE FABRICATION OF DUCT.
 - REMOVE EXISTING ABANDONED EXHAUST GRILL AND DUCT AT THESE LOCATIONS. PATCH EXISTING HARD CEILING TO MATCH EXISTING CONDITIONS.
 - REMOVE EXISTING SUPPLY AND RETURN FLEX DUCT FROM AHU AND MECHANICAL CLOSET ALUMINUM THAT EXTENDS OUT TO EXISTING HARD DUCT HARD CEILING OVER THE HANGING TOILET. PATCH AND SPACE FOR NEW DUCT BEFORE FABRICATION OF NEW DUCT (SEE NEW WORK PLAN). THE HANGING TOILET MAY NEED TO BE REMOVED FOR ACCESS TO REMOVE EXISTING EQUIPMENT AND INSTALL NEW DUCT INTO MECHANICAL CLOSET.
 - REMOVE ABANDONED RETURN DUCT AND ALL ASSOCIATED ACCESSORIES.
 - REMOVE EXISTING RETURN DUCT, FLEX DUCT AND GRILLS COMPLETE.
 - REMOVE OPEN RETURN FLEX TO ABOVE CEILING.
 - EXISTING 17"Ø DUCT TO EXTERIOR OF BUILDING.
 - EXISTING 17"Ø DUCT TO EXTERIOR OF BUILDING. DISCONNECT FROM EXISTING RETURN DUCT AND CAP INSIDE END OF DUCT.
 - EXISTING DUCT AND WALL LOWER AGE TO BE USED FOR AN EXHAUST OUTLET FOR NEW EXHAUST FANS.
 - EXISTING EF-1 IS TO BE REMOVED, FAN AND ALL ACCESSORIES. PATCH EXTERIOR OPENINGS TO MATCH EXISTING.
 - EXISTING SMOKE DETECTORS ARE TO BE REMOVED FROM EXISTING DUCT AND REINSTALLED IN NEW DUCT. DO NOT DISPOSE OF EXISTING DETECTORS.
 - REMOVE THE EXISTING OUTSIDE AIR INTAKE. IT IS TO BE RELOCATED TO OPPOSITE SIDE OF MECHANICAL CLOSET. SEE NEW WORK. PATCH EXTERIOR MURCH AND SEAL EXISTING WINDBOR PENETRATION.
 - REMOVE EXISTING CEILING MOUNTED EXHAUST FANS. CEILING PENETRATION ARE TO BE USED FOR NEW EXHAUST FANS. SEE NEW WORK.

- GENERAL NOTES:**
- REMOVE EXISTING DUCT AND FLEX DUCT CONNECTIONS. SEAL ALL LEAKS AND REPAIR ALL UNMATED INSULATED DUCT AND FLEX DUCT HANGERS AND REMOVE ALL DUCT IS SUPPORTED AND ALL FLEX DUCTS ARE HANG FREE.
 - PART THE CEILING MAY NEED TO BE REMOVED FROM THE WOMEN'S ROOM FOR REMOVAL OF EXISTING EQUIPMENT AND INSTALLATION OF NEW DUCT AND WALL PENETRATIONS.
 - VERIFY ALL EXISTING CONDITIONS AND CONDITIONS BEFORE STARTING WORK.
 - CONTRACTOR TO PROVIDE CERTIFIED TEST AND BALANCE REPORT FOR THE BUILDING SYSTEMS. ALL EXISTING DEFICIENCIES AND SHORT FALLS ARE TO BE REPORTED TO THE ENGINEERS AND FACILITIES MANAGER.
 - REMOVE ABANDONED DUCT, PIPING, CONDUIT, AND EQUIPMENT NO LONGER IN USE ABOVE THE CEILING.
 - ALL RETURNS ARE TO BE DUCTED. THE SPACE ABOVE THE GRID IS NOT TO BE USED AS A RETURN AIRWAY.
 - REMOVE EXISTING NUMBER AND INSULATION ATTACHED TO THE BOTTOM OF THE TRAYS. INSURE THERE ARE NO BRACKS IN THE WORK BARREER OR INSULATION OF THE BUILDING ENVELOPE.



MECHANICAL PARTIAL FLOOR PLAN
 SCALE: 1/4"=1'-0"

PETERSON ENGINEERING INC.
 75 SOUTH T STREET
 POKOKA, IDAHO 83403
 208-843-1111
 PE - 201070

ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FINISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND OUTLETS SHALL BE FINISHED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL ROOMS/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATURAL LIGHTING CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT HEAD OF LOCAL SWITCH.
- ALL PANELS, SWITCHES, DISCONNECTS, TERMINAL CUBICLES, DISCONNECTS, ETC. SHALL HAVE CUSTOM ENGRAVED MOUNTING PLATE MECHANICALLY AFFIXED TO EXISTING SYSTEM.
- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- CONTRACTOR SHALL OBTAIN ALL LOCAL CODES, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL JURISDICTIONS.
- GENERAL ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- DISCREPANCY COVER PLATES FOR RECEPTACLE OUTLETS, SWITCHES, ETC. SHALL BE STAINLESS STEEL; REFER TO ELECTRICAL SPECIFICATIONS.
- REPAIR OCCUPANCY SENSORS AND ACCESSORIES FOR MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS (INCLUDING CONDUITS) ASSOCIATED WITH EQUIPMENT SENSORS AND POWER FACTS SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM.
- ELECTRICAL CONTRACTOR SHALL PRINT AND LABEL ALL JUNCTION BOXES TO IDENTIFY PANEL AND CIRCUIT; SEE ELECTRICAL SPECIFICATIONS.
- ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER.

ELECTRICAL LEGEND

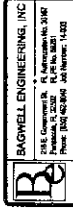
- CEILING OUTLETS**
- 2" x 4" RECESSED 2" x 4" FLUORESCENT FIXTURE MARK "A"
 - INDICATES FIXTURE WITH EMERGENCY LINE BATTERY PACK
 - EXIT LIGHT
- WALL OUTLETS**
- DIFFUSE RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, ALUMINUM, 1/2" DEPTH, 1/2" WIDE, 1/2" HIGH, UNLESS NOTED OTHERWISE
 - WALL MOUNTED EXIT LIGHT
 - 2" x 4" JUNCTION BOX WITH 1/2" CONDUIT WITH PULLSTRING TO EXISTING TELEPHONE BACKBOARD.
 - NEW FIRE ALARM SMOKE MOUNT BY AFF O.A. ENSURE NEW DEVICE IS COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
 - WALL SWITCHES UNLESS OTHERWISE NOTED, MOUNT AT AFF. TO 21/2"
 - 5 AC. TYPE, 1-WAY, 20 AMP, 120/277 VOLT
 - 3 AC. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
 - 3-WAY SWITCH VERY COMPATIBLE WITH LED FIXTURES
- RECORD CONNECTIONS**
- RUN CONCEALED UNDER FLOOR OR IN DRAKE
 - RUN CONCEALED IN CEILING OR WALLS
 - HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 1/2" x 4" JUNCTION BOX WITH 1/2" CONDUIT WITH PULLSTRING TO EXISTING TELEPHONE BACKBOARD.
 - NUMBERS INDICATE PANEL AND CIRCUIT NUMBER. ALL CABLE WAY BE USED IN LEU OF CABLE AND CONDUIT WHERE ALLOWED BY CODE.
 - LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
 - SERVICE MOUNTED CONDUIT, RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- MISCELLANEOUS**
- A.F.F. ABOVE FINISH FLOOR
 - W.P. WEATHERPROOF
 - U.N.C. UNLESS NOTED OTHERWISE

ALL FIXTURES CONSIDERED EQUAL TO THE SPECIFIED FIXTURES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID FOR APPROVAL.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	TYPE	FINISHING	REMARKS
F7Z	OSRAM 270-54L-835-4-FFA-027-UNV	LED	CEILING LAY-IN	7.5" LED STATE LENSED TROFFER, ELECTRONIC BALLAST, SPRING LOADED LATCHES.
F7EE	OSRAM 270-54L-835-4-FFA-027-UNV	LED	CEILING LAY-IN	7.5" LED STATE LENSED TROFFER, ELECTRONIC BALLAST, SPRING LOADED LATCHES, UNIVERSAL VOLTAGE, DIMMABLE.
DL	LIGHTOLIER F110-15-16-710-11-10-PAR-B-3-10-PAR-D-CL	LED	CEILING RECESSED	1" ROUND DOWNGANG, ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, DIMMABLE.
X	PHILIPS ERSBOUT-1-12/27-W-R	LED	CEILING MOUNT	EMERGENCY EXIT SIGN WITH 1" x 4" ALUMINUM TROFFER, SELF-TEST, OVERVOLTAGE, SAFETY FOR SIGN WITH 1" x 4" ALUMINUM TROFFER, SELF-TEST, OVERVOLTAGE, UNIVERSAL VOLTAGE/PAUL MOUNT, APPROX AS INDICATED, UNIVERSAL VOLTAGE.
YCA	PHILIPS ERSBOUT-1-12/27-W-R	LED	CEILING MOUNT	

PERMIT SET



Stokes Architectural, Inc.
 Architecture • Modern Planning • Interior Design
 9 Mirada Strip Parkway, S.W.
 Fort Walton Beach, Florida 32548
 Phone: (850) 664-2220 Fax: (850) 664-6943
 Ft. Collins, Colorado 80521

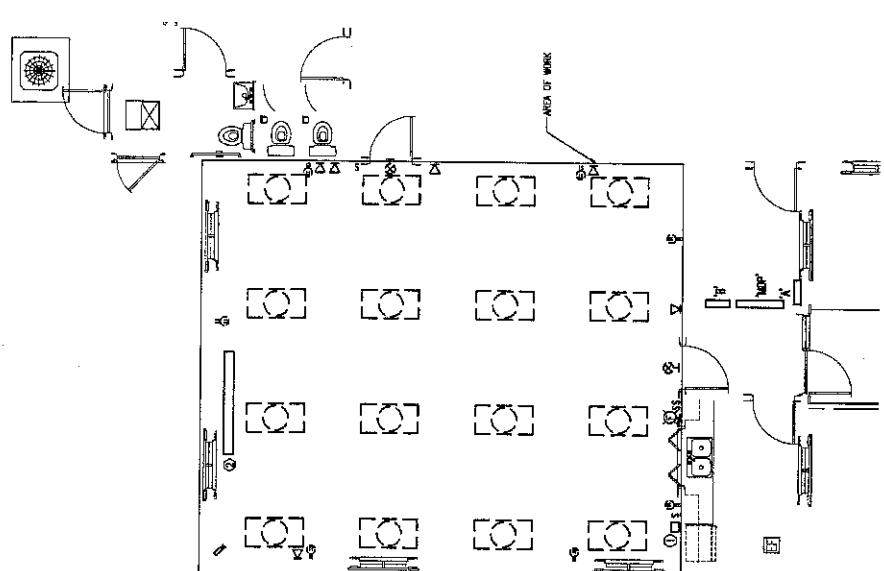
Interior Renovation for
Okaloosa County Visitors Center
 Fort Walton Beach, Florida 32548
 1540 Mirada Strip Parkway, SE (Hwy 98)
 Okaloosa County

100-1

ELECTRICAL DEMOLITION LEGEND (THIS SHEET ONLY)

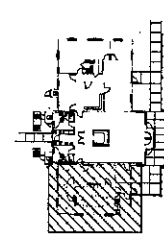
- ① REMOVE EXISTING SWITCH, RECEPTACLE AND CONDUIT. ASSOCIATED CONDUIT, CONDUCTORS, ETC. SHALL REMAIN FOR CONNECTION TO NEW DEVICE. SEE NEW WORK PLANS.
- ⊗ REMOVE EXISTING RECEPTACLE AND CONDUIT. ASSOCIATED CONDUIT AND WIRING SHALL REMAIN FOR CONNECTION TO NEW DEVICE. SEE NEW WORK PLANS.
- ⊕ REMOVE EXISTING 24V FLUORESCENT LIGHT FIXTURE. EXISTING LIGHTING CIRCUIT SHALL REMAIN FOR CONNECTION TO NEW LIGHTING FIXTURES. SEE NEW WORK PLANS.
- ⊘ REMOVE EXISTING SWITCH, ASSOCIATED CONDUITS SHALL BE REMOVED. EXISTING CONDUIT SHALL REMAIN AND BE REUSED.
- ⊚ REMOVE EXISTING EQUIPMENT AND ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC. SHALL BE REMOVED BACK TO SOURCE.
- ⊛ REMOVE EXISTING CHIMNEY. ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC. SHALL BE REMOVED BACK TO SOURCE.
- ⊜ EXISTING OUT LIGHT TO BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN FOR CONNECTION TO NEW LIGHTING FIXTURES. SEE NEW WORK LIGHTING PLAN.
- ⊝ EXISTING FIRE ALARM DEVICE TO BE REMOVED. EXISTING FIRE ALARM CIRCUIT SHALL REMAIN FOR CONNECTION TO NEW FIRE ALARM DEVICE. SEE NEW WORK LIGHTING PLAN.

- KEYNOTES:**
- ① EXISTING PROTECTOR SCREEN SWITCH TO BE REMOVED. REMOVE ASSOCIATED CONDUCTORS.
 - ② EXISTING MARKED PROTECTOR SCREEN TO BE REMOVED. ASSOCIATED CONDUIT, CONDUCTORS, ETC. SHALL BE REMOVED BACK TO SOURCE.

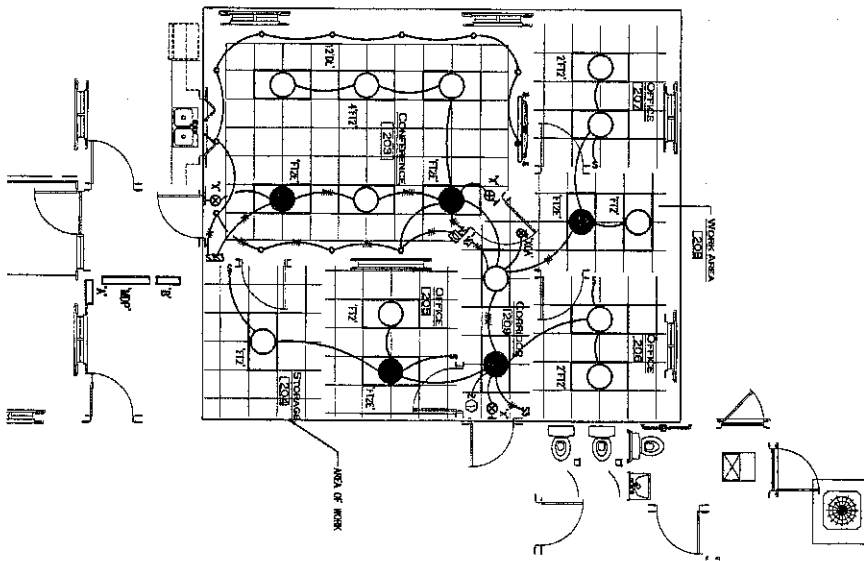


ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PERMIT SET
BAGWELL ENGINEERING, INC.
 116 Commercial St. • Tallahassee, FL 32301
 Phone: (904) 425-6666 • Job Number: 14-00

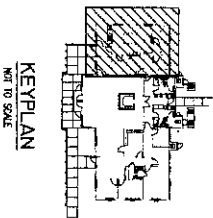


KEYPLAN
NOT TO SCALE



NEW WORK LIGHTING PLAN
SCALE 1/4" = 1'-0"

REMARKS
① CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA



PERMIT SET

B PAWELL ENGINEERING, INC.
Professional Engineer
No. 123456789
State of Florida
Professional Seal No. 123456789
Expiration Date 12/31/2023

PROJECT NO.	E-200
DATE	4/12/15
BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
SCALE	1/4" = 1'-0"
PROJECT NAME	Interior Renovation for Okaloosa County Visitors Center
PROJECT ADDRESS	1540 Miracle Strip Parkway, SE (Hwy 98) Fort Walton Beach, Florida 32548
COUNTY	Okaloosa County

Interior Renovation for Okaloosa County Visitors Center
1540 Miracle Strip Parkway, SE (Hwy 98)
Fort Walton Beach, Florida 32548
Okaloosa County

4/12/15
[Signature]

Stokes Architectural, Inc.
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