

P R O J E C T M A N U A L

PRELIMINARY

PROJECT

BCM – TWO STORY LABORATORY OPTION
2575 West Belfort
Houston, Texas 77046

CLIENT

BAYLOR COLLEGE OF MEDICINE
One Baylor Plaza, Suite 286A
Houston, Texas 77030

ARCHITECT

MUNSON KENNEDY PARTNERSHIP
7026 Old Katy Road, Suite 257
Houston, Texas 77024
(713) 869-4242

CONSULTING ENGINEER – MEP

ASEI ENGINEERING
4527 N. 16th Street, Suite 105
Phoenix, Arizona 85016
(602) 287-0300

RICHARD E. MUNSON

NOT FOR REGULATORY APPROVAL,
PERMITTING OR CONSTRUCTION.

DATE: April 03, 2017

PROJECT NO.: 16-010A

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(Not used)

00 10 10 - INVITATION TO BID

1. You are invited to submit a Stipulated Lump Sum Proposal for this project per Division 00 and per Division 01.
2. Proposals shall be received at the Architect's office by 2:00 P.M., C.S.T., on April 13, 2017. E-mailed and/or faxed bids will be accepted, but absolutely no bids will be accepted after the assigned bid time. Deliver one original bid, fully executed, to the Architect's office by 12:00 Noon, the day following the bid date.
3. Bid openings will be private and Contractors who submit proposals will be notified of the successful bidder as soon as possible. The proposal amounts of all bidding contractors will be made public at the discretion of the Owner.
4. Bidders shall receive Bid Documents from the office of the Architect. No bid security will be required for this project. All bidders shall return such sets promptly and in good condition at the completion of the Bidding Phase. Additional copies may be obtained for the cost of reproduction.

END OF SECTION

00 20 10 - INSTRUCTIONS TO BIDDERS

1. The "Instructions to Bidders" AIA Document A701-1997, shall become a part of this Project Manual and shall govern the bidding. Copies may be inspected at the office of the Architect.
2. The Bidder is hereby specifically directed, as a condition of the bidding to obtain copies of the Document A701 to acquaint himself with the Articles contained therein and to notify and apprise any and all parties to the bidding as to its contents.
3. No contractual adjustments shall be made as a result of failure on the part of the Bidder to fully acquaint himself and all other parties with the conditions of Document A701.

END OF SECTION

00 20 11 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

The Supplementary Instructions to Bidders contain changes and additions to the Instructions to Bidders. Where any part of the Instructions to Bidders are modified or voided by the Supplementary Instructions to Bidders, the unaltered provisions shall remain in effect.

ARTICLE 3 - BIDDING DOCUMENTS

Delete sub-paragraph 3.2.2

Supplement sub-paragraph 3.3.1 as follows:

Where only one material or manufacturer or where several manufacturers are specified by name for one use, use only those specified. Where materials or manufacturers are followed by "or approved alternate", written approval by Addendum must be secured from the Architect prior to the bid date and time for any proposed substitution.

Delete first sentence of sub-paragraph 3.3.2.

Supplement first sentence of sub-paragraph 3.3.2 as follows:

No alternates or substitutions will be considered prior to the Date for receipt of Bids unless a request for approval has been made, in writing, to the Architect by 12:00 noon on the fourth calendar day prior to the Date for receipt of Bids. In addition, no alternates or substitutions will be considered after Bids are submitted. Acceptable alternates and substitutions will be issued by a written addendum only.

Delete sub-paragraph 3.4.3.

ARTICLE 4 - BIDDING PROCEDURES

Supplement sub-paragraph 4.1.1 as follows:

Bidders shall submit two executed originals of Bid.

Delete sub-paragraphs 4.2.1, 4.2.2 and 4.2.3

Add new sub-paragraph as follows:

4.2.1 A Bid Bond will not be required on this project.

ARTICLE 5 - CONSIDERATION OF BIDS

Delete sub-paragraph 5.1.1.

ARTICLE 6 - POST BID INFORMATION

Delete sub-paragraph 6.2

Add new sub-paragraph as follows:

6.3.1.4 A statement of costs for each major item of work included in the Bid, categorized by the Project Manual Section.

ARTICLE 8 - FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

Supplement this sub-paragraph as follows:

Reference Section 00 50 11 – AGREEMENT FORM.

END OF SECTION

00 20 12 - DEFINITIONS

1. ABBREVIATIONS AND SYMBOLS: The following abbreviations and symbols apply to the Contract Documents.

a.	P.S.I.	pounds per square inch
b.	S.F.	square feet (foot)
c.	S.Y.	square yard
d.	L.F.	linear feet (foot)
e.	C.Y.	cubic yard
f.	A.F.F.	above finished floor
g.	F.	Fahrenheit
h.	C.	Celsius
i.	U.O.N.	unless otherwise noted
j.	O.C.	on center
k.	C.C.	center to center
l.	GA.	gauge
m.	GALV.	galvanized
n.	C.J.	control joint
o.	E.J.	expansion joint
p.	JT.	joint
q.	CMU	concrete masonry unit
r.	TYP.	typical
s.	DET.	detail
t.	SHT.	sheet
u.	R.	radius
v.	DIA.	diameter
w.	EIFS	Exterior Insulation and Finish System

2. ORGANIZATION ABBREVIATIONS: The following organization abbreviations apply to the Contract Documents.

a.	AAMA	Architectural Aluminum Manufacturers Association
b.	AASHTO	American Association of State Highway and Transportation Officials
c.	ACI	American Concrete Institute
d.	AGA	American Gas Association
e.	AIA	American Institute of Architects
f.	AIEE	American Institute of Electrical Engineers
g.	AISC	American Institute of Steel Construction
h.	AISI	American Iron and Steel Institute
i.	AITC	American Institute of Timber Construction
j.	ANSI	American National Standards Institute
k.	APA	American Plywood Association
l.	ASHRAE	American Society of Heating, Refrigeration & Air Conditioning
m.	ASME	American Society of Mechanical Engineers
n.	ASTM	American Society of Testing Materials
o.	AWI	American Woodwork Institute
p.	AWPA	American Wood Preserver's Association
q.	AWPB	American Wood Preserver's Bureau
r.	AWS	American Welding Society
s.	CRSI	Concrete Reinforcing Steel Institute
t.	FM	Factory Mutual Research Corporation
u.	FS	Federal Specifications
v.	NAAMM	National Association of Architectural Metal Manufacturers
w.	NBS	National Bureau of Standards
x.	NEC	National Electric Code
y.	NEMA	National Electrical Manufacturers Association

z.	NFPA	National Fire Protection Association
aa.	PCI	Precast / Prestressed Concrete Institute
bb.	SDI	Steel Deck Institute
cc.	SJI	Steel Joist Institute
dd.	SMACNA	Sheet Metal & Air Conditioning Contractor's National Association, Inc.
ee.	SPIB	Southern Pine Inspection Bureau
ff.	SSPC	Steel Structures Painting Council
gg.	TCA	Tile Council of America, Inc.
hh.	UL	Underwriter's Laboratories, Inc.
ii.	WCLB	West Coast Lumber Inspection Bureau
jj.	WWPA	Western Wood Products Association

END OF SECTION

00 20 13 - SCOPE OF BIDS

1. The bid for this project shall include all labor and materials required by the Bidding Documents for the General Construction of this project and per the following description:

Renovation of approximately 24,000 square feet of lease improvements inclusive of drywall, interior plastic laminated solid core doors with aluminum frames, plastic laminated millwork, solid surface countertops, paint, carpet, vinyl composition tile, lay-in acoustical ceiling and grid, lighting, electrical power, plumbing fixtures and sinks, and rooftop mechanical systems.

END OF SECTION

00 40 10 - BID FORM

(Bidder's Letterhead)

C/O: MUNSON KENNEDY PARTNERSHIP
7026 Old Katy Road, Suite 257
Houston, Texas 77024

Gentlemen:

We have received the Bidding Documents consisting of the Project Manual and the Drawings, both entitled BCM – Two Story Laboratory Option, 2575 West Belfort, Houston, Texas 77046.

We acknowledge receipt of Addenda Nos. and have included their provisions in our Bid. We have visited the site, examined all conditions affecting the work and have included their provisions in our Bid based upon the requirements of the Bidding Documents.

Reference Exhibit "A" for the results of the flow test performed at the jobsite.

In submitting this Bid, we agree:

- a. to hold our bid open for a period of thirty calendar days from Bid Date.
- b. to enter into and execute a contract, if awarded on the basis of this Bid, and to furnish guaranty bonds in accordance with Article 7 of the Instruction to Bidders, AIA Document A701-1997.
- c. to accomplish the work in accordance with the Bidding Documents.
- d. to complete the work by the time stipulated in this Bid Form.

We will construct this project complete for the _____:

_____ (\$ _____).

Reference Division 00 Exhibit - List of Proposed Subcontractors included in the Base Bid and that Portion of the Work which they shall perform.

Cost of Performance Bond and Labor and Material Payment Bond, if required, will add to the Bid:

_____ (\$ _____).

If awarded the contract, we will execute and complete the work within _____ calendar days from the date of the contract.

For alternates specified in the Bidding Documents, you may add or deduct the following amounts:

Alternate No. One:

(Add or Deduct) _____).

Alternate No. Two:

(Add or Deduct) _____).

Where changes in the work are ordered involving extra cost over and above the contract sum, the cost of such work shall be agreed upon in advance, in writing, plus ____% for overhead and profit combined.

It is my understanding that the right, as interests of the Owner may require, is reserved by the Owner to reject any and all proposals.

Respectfully submitted,

Contractor

Authorized Signature

Title

SEAL IF A CORPORATION

State of Incorporation

Dated this _____ day of _____ (Month), _____(Year).

00 50 11 – AGREEMENT FORM

The following is the Agreement Form that shall be used for the project.

1. AIA Document A101-2007 – Standard Form of Agreement Between Owner and Contractor – Stipulated Sum

END OF SECTION

00 60 10 – PERFORMANCE & LABOR AND MATERIALS PAYMENT BOND FORM

Shall be provided as outlined in Division 00 General Conditions, Division 00 Supplementary General Conditions, and in the form of AIA Document A312 – 2010. This document can be found on the AIA website at www.aia.org/contractsdocs/index.htm.

END OF SECTION

00 61 10 – SUBMITTAL TRANSMITTAL FORM

The following Submittal Transmittal Form, on Contractor’s letterhead, shall be used for all submittals for the project.

Project Name: _____ Project No.: _____

Submittal No.: _____ Submittal Name: _____

(NOTE: Only one (1) submittal per transmittal. Do not combine submittals on one transmittal.)

Date Submitted: _____ Final Due Date: _____

MKPA’s Project No.: _____

For Review:

To: (Responsible Party/Company)
(Address)
(Attention)

cc: MUNSON KENNEDY PARTNERSHIP
7026 Old Katy Road, Suite 257
Houston, Texas 77024
Attn: (Project Manager)

NOTE: If the submittal review is to be performed by a Consultant only and not by the Architect, provide a **copy of the submittal transmittal only** to the Architect to submittals@mkpa84.com. Reference Section 01 60 10 – Shop Drawings, Product Data & Samples for distribution requirements.

Submittal No.	Description	Response

NOTES:

1. Fabrication can proceed from submittals marked “No Exception Taken”.
2. All submittals marked “Resubmit” or “Rejected” must be returned for approval prior to fabrication.

COMMENTS:

Submitted by: _____ Date: _____

Title: _____

SUBMITTAL STAMP PAGE

Project Name:

Project No.:

MKPA:

Consultant:

(Consultant's stamp, comments, signature and date required.)

END OF SECTION

* 09/12

00 61 11 – CERTIFICATE OF INSURANCE FORM

Shall be provided as outlined in Division 00 General Conditions, Division 00 Supplementary General Conditions, and in the form of Acord Corporation's Certificate of Liability Insurance Form 25. This document can be found on the Acord Corporation website at www.acord.org.

END OF SECTION

* 06/12

00 61 12 – APPLICATION FOR PAYMENT FORM

Shall be provided as outlined in Division 00 General Conditions, Division 00 Supplementary General Conditions, and in the form of AIA Documents G702-1992 and G703-1992. These documents can be found on the AIA website at www.aia.org/contractsdocs/index.htm.

END OF SECTION

00 62 10 - REQUEST FOR INFORMATION FORM

The following Request for Information Form shall be used for all requests for information for the project.

REQUEST FOR INFORMATION

The following Request for Information Form shall be used for all information requests for the project.

(Contractor's Letterhead)

(Date) _____ RFI No. _____
Project No.: _____

NOTE: Only **one** (1) RFI per request. Do not combine RFI's on one form.

MKPA's Project No.: _____

To:	(Responsible Party)	(Company)	(Email Address)
	(Responsible Party)	(Company)	(Email Address)
	(Responsible Party)	(Company)	(Email Address)
	(Responsible Party)	(Company)	(Email Address)

cc: MUNSON KENNEDY PARTNERSHIP
7026 Old Katy Road, Suite 257
Houston, Texas 77024
Attn: (Project Manager)

NOTE: Project Manager **must** be copied on all RFI's. If the RFI is not directed to the Architect, provide a **copy of the RFI only** to the Architect, as well as the response from the respective Consultant after their response is returned.

QUESTION:	Re: Dwg. No.:	Re: Spec.:	Date Needed:
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RESPONSE:	Response By:	Date:
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Submitted by: _____ RFI NO. _____
Title: _____

END OF SECTION

* 08/11

00 62 11 - CHANGE REQUEST/RESPONSE/OWNER APPROVAL FORM

The following Change Request/Response/Owner Approval form shall be used for all change requests for the project.



CHANGE REQUEST / RESPONSE / OWNER APPROVAL NO. _____

MUNSON KENNEDY PARTNERSHIP
7026 OLD KATY ROAD, SUITE 257
HOUSTON, TEXAS 77024

TEL: 713 / 869-4242
FAX: 713 / 869-5149
www.mkpa84.com

DATE:

TO: (CONTRACTOR)

PROJECT:

PROJECT NO.:

SCOPE OF WORK:

Please provide a cost proposal to perform the modifications indicated below, along with any adjustments in the Contract Time, and respond in the space provided on the lower half of this form.

1.

CONTRACTOR'S CHANGE REQUEST RESPONSE:

OWNER'S RESPONSE:

1.

Accepted Rejected
{ } { }

Architect

Contractor

Project Manager

Owner

Munson Kennedy Partnership

(Company)

(Name)

(Name)

Date: _____

Date: _____

Date: _____

Date: _____

END OF SECTION

* 06/12

00 62 12 – CHANGE ORDER FORM

Shall be provided as outlined in Division 00 General Conditions, Division 00 Supplementary General Conditions, and in the form of AIA Document G701-2001. This document can be found on AIA's website at www.aia.org/contractsdocs/index.htm.

END OF SECTION

00 63 10 – CERTIFICATES OF INSPECTIONS AND APPROVALS

A copy of all certificates of inspection, testing and approval as required by Division 00 and the applicable authorities having jurisdiction shall be provided at the time of Project Closeout. These shall include a Certificate of Occupancy, if required by the local authority having jurisdiction, and **written** approvals from the authorities having jurisdiction, and the Owner's insurance carrier for the completed installation of the fire protection system.

END OF SECTION

00 63 11 – CERTIFICATE OF SUBSTANTIAL COMPLETION FORM

Shall be provided as outlined in Division 00 General Conditions, and in the form of AIA Document G704-2000. This document can be found on AIA's website at www.aia.org/contractdocs/index.htm.

END OF SECTION

00 63 12 – WARRANTY FORMS

The following Warranty Forms shall be provided as outlined in Division 00 General Conditions and Division 00 Supplementary General Conditions in the same wording and format.

SAMPLE "A" – CONTRACTOR FOR ONE AND TWO YEAR PERIODS

(Contractor's Letterhead)

Date: (Current Date)

To: (Owner's Name)
(Address)

Project: (Project Name and Address)

Date of Substantial Completion: (Date)

Gentlemen:

(The Contractor) insures and warrants that all work, whether it be movable, adjustable, or fixed, performed under this Contract, including, but not limited to, all workmanship, materials, machinery, equipment and hardware shall be free of any defects, shrinkages, warpages, defective materials and workmanship. Ordinary wear and tear is not covered by this warranty unless such wear and tear is caused by defective workmanship. (The Contractor) further insures and warrants to repair or replace, at his own expenses, such defective materials and workmanship for a period of one year from the Date of Substantial Completion.

(The Contractor) insures and warrants the water resistance and weather resistance of the Project and all penetrations through the roof, exterior walls and all components of the building's exterior and all installations of glazing, doors and other exterior openings required by the Contract in every respect. (The Contractor) further insures and warrants to repair or replace at his own expense, all damages due to the entrance of dampness and the point of entrance for a period of two years from the Date of Substantial Completion.

(The Contractor) insures and warrants the roof system against failure for a period of two years from the Date of Substantial Completion.

Nothing herein intends or implies that this warranty shall apply to work which has been abused and neglected by the Owner or his successor interests.

Authorized Signature

Title

STATE:
COUNTY OF:

This instrument was acknowledged before me on the ____ day of (Year)
by _____ on behalf of (The Contractor).

Notary Public in and for:

SAMPLE "B" – SUBCONTRACTOR FOR ONE YEAR PERIOD

(Subcontractor's Letterhead)

Date: (Current Date)

To: (Owner's Name)
(Address)

Project: (Project Name and Address)

Date of Substantial Completion: (Date)

Gentlemen:

(The Subcontractor) insures and warrants that all work performed by (The Subcontractor), whether it be movable, adjustable, or fixed, performed under this Contract, including, but not limited to, all workmanship, materials, machinery, equipment and hardware shall be free of any defects, shrinkages, warpages, defective materials and workmanship. Ordinary wear and tear is not covered by this warranty unless such wear and tear is caused by defective workmanship. (The Subcontractor) further insures and warrants to repair or replace, at his own expense, such defective materials and workmanship for a period of one year from the Date of Substantial Completion.

Nothing herein intends or implies that this warranty shall apply to work which has been abused and neglected by the Owner or his successor interests.

Authorized Signature

Title

STATE:
COUNTY OF:

This instrument was acknowledged before me on the ____ day of (Year)
by _____ on behalf of (The Subcontractor).

Notary Public in and for:

SAMPLE "C" – SUBCONTRACTOR FOR TWO YEAR PERIOD

(Subcontractor's Letterhead)

Date: (Current Date)

To: (Owner's Name)
(Address)

Project: (Project Name)
(Address)

Date of Substantial Completion: (Date)

Gentlemen:

(The Subcontractor) insures and warrants the water resistance and weather resistance of that part of the Project and all penetrations through the roof, exterior walls, and all components of the building's exterior performed by (The Subcontractor) in every respect. (The Subcontractor) further insures and warrants to repair or replace, at his own expense, all damages due to the entrance of dampness and the point of entrance for a period of two years from the Date of Substantial Completion.

Nothing herein intends or implies that this warranty shall apply to work which has been abused and neglected by the Owner or his successor interests.

Authorized Signature

Title

STATE:
COUNTY OF:

This instrument was acknowledged before me on the _____ day of (Year)
by _____ on behalf of (The Subcontractor).

Notary Public in and for:

SAMPLE "D" – ASBESTOS FREE MATERIAL

(Contractor's Letterhead)

Date: (Current Date)

To: (Owner's Name)
(Address)

Project: (Project Name and Address)

Gentlemen:

The undersigned hereby certifies that to the best of his/her knowledge, information and belief, the materials incorporated into the project, and as used during the construction process are free of any type of asbestos material.

Authorized Signature

Title

STATE:

COUNTY OF:

This instrument was acknowledged before me on the _____ day of (Year)
by _____ on behalf of (Contractor).

Notary Public in and for:

END OF SECTION

00 64 10 – CONTRACTING DEFINITIONS

Shall be provided as outlined in Division 00 and in the form of AIA Document A201-2007. This document can be found on AIA's website at www.aia.org/contractdocs/index.htm.

END OF SECTION

00 64 11 - GENERAL CONDITIONS

1. The "General Conditions of the Contract for Construction", AIA Document A201-2007, shall become a part of the Project Manual and shall govern the administration of the Contract. Copies may be inspected at the office of the Architect.
2. The Contractor is hereby specifically directed, as a condition of the Contract, to obtain copies of AIA Document A201-2007 to acquaint himself with the Articles contained therein and to notify and apprise any and all parties to the Contract as to its contents.
3. No contractual adjustments shall be made as a result of failure on the part of the Contractor to fully acquaint himself and all other parties to the Contract with the conditions of AIA Document A201-2007.

END OF SECTION

00 64 12.10 - SUPPLEMENTARY GENERAL CONDITIONS

The Supplementary General Conditions contain changes and additions to Division 00 General Conditions. Where any part of the General Conditions are modified or voided by these Supplementary General Conditions, the unaltered provisions shall remain in effect.

ARTICLE 1 - GENERAL PROVISIONS

Supplement sub-paragraph 1.1.5 as follows:

Figure dimensions shall take precedence over scale measurements, detail drawings over general drawings and drawings of later date over those of earlier date.

Supplement sub-paragraph 1.1.5 as follows:

The Contractor shall receive five copies of the Drawings. Additional copies may be obtained for the cost of reproduction.

Supplement sub-paragraph 1.1.6 as follows:

The Contractor shall receive five copies of the Project Manual. Additional copies may be obtained for the cost of reproduction.

ARTICLE 3 - CONTRACTOR

Supplement sub-paragraph 3.2.1 as follows:

All clarifications shall be issued in writing. The Architect and the Owner will not be responsible for oral clarifications.

Supplement sub-paragraph 3.9.1 as follows:

The superintendent, once assigned to this project, shall remain on this project through the Date of Substantial Completion unless otherwise agreed to, in writing, by the Owner.

Add new sub-paragraphs as follows:

- 3.3.4 The Contractor and subcontractors shall coordinate their work with adjacent work and shall cooperate with other trades so as to facilitate the general progress of the work. Each trade shall afford other trades every reasonable opportunity for installation of their work and for storage of their materials.
- 3.5.2 The Contractor insures and warrants all work as specified in Division 00 – Warranty Forms, Sample “A”, for a period of one year from the Date of Substantial Completion.
- 3.5.3 The Contractor insures and warrants the water resistance and weather resistance of the Project and all roof penetrations performed as part of this Work against failure also as specified in Division 00 – Warranty Forms, Sample “A”, for a period of two years from the Date of Substantial Completion.
- 3.5.4 Nothing herein intends or implies that this warranty shall apply to work which has been abused and neglected by the Owner or his successor interests.
- 3.5.5 Reference individual Project Manual sections for additional warranties.

- 3.5.6 In the case of work performed by subcontractors, secure warranties from these subcontractors addressed to and in favor of the Owner.

Supplement sub-paragraph 3.15.2 as follows:

The Contractor shall guarantee all surfaces and equipment to be clean and free of stains, paint, float compound, dirt and any foreign material.

ARTICLE 5 - SUBCONTRACTORS

Add new sub-paragraphs as follows:

- 5.5 Warranty.
- 5.5.1 The Subcontractor insures and warrants all work as specified in Division 00 – Warranty Forms, Sample “B”, for a period of one year from the Date of Substantial Completion.
- 5.5.2 The Subcontractors listed under the Project Closeout section of Division 01 of this Project Manual insures and warrants the water resistance and weather resistance of the Project as specified in Division 00 – Warranty Forms, Sample “C”, for a period of two years from the Date of Substantial Completion.
- 5.5.3 Nothing herein intends or implies that this warranty shall apply to work which has been abused and neglected by the Owner or his successor interests.
- 5.5.4 Reference individual Project Manual sections for additional warranties.

ARTICLE 7 - CHANGES IN THE WORK

Change sub-paragraph 7.1.2 to read as follows:

A Change Order shall be based upon agreement among the Owner, Contractor and Architect. An order for a minor change in the Work may be issued by the Architect alone.

Supplement sub-paragraph 7.2.1 as follows: All Change Orders shall be made using the form specified in Division 00.

Delete sub-paragraph 7.2.2 as published.

Add new sub-paragraphs as follows:

- 7.2.2 The value of extra work or changes to the Work shall be determined by submittal of a lump sum price by the Contractor and acceptance of this lump sum price by the Owner prior to execution of such extra work or changes to the Work.
- 7.5.1 The Contractor's itemized estimate for charges or credits for additions to or deductions from the Work required by the Contract shall always be open to inspection by the Architect and the Owner.

ARTICLE 9 - PAYMENTS AND COMPLETIONS

Supplement sub-paragraph 9.3.1 as follows: All Applications for Payment shall be made using the form as specified in Division 00.

Supplement sub-paragraph 9.3.2 as follows:

In all cases, not more than fifty percent (50%) of the total value per line item as shown on the Schedule of Values shall be paid for materials or equipment stored off site. All Applications for Payment containing requests for payment for materials or equipment stored off site shall be provided with the following support documentation:

1. A Bill of Sale containing a comprehensive list of all materials and equipment and there associated cost value with a total cost value. The total cost value on the Application for Payment must match this total cost value or a written explanation must be attached explaining why it does not.
2. The address of the location at which the material is stored.
3. Photographic or written proof in the form of a notarized certificate that the materials and equipment are labeled and identified specifically for this project.
4. A Certificate of Insurance stating that these materials and equipment are covered by all insurance issued for this project and naming the Owner as additionally insured.

ARTICLE 11 - INSURANCE AND BONDS

Add new sub-paragraph as follows:

11.1.4 The insurance required by sub-paragraph 11.1 may be combined into comprehensive policies, must be with carriers acceptable to the Owner and are to be endorsed to waive insurer's rights of subrogation against the Owner and Architect. Insurance shall not be changed or canceled without giving (30) days written notice to the Owner. Minimum limits shall be as follows:

1. Employer's Liability: \$100,000.00 minimum.
2. Worker's Compensation Insurance: Statutory.
3. Contractor's Comprehensive Liability:
 - a. Contractor's Public Liability (remove XCU exclusion)
Bodily Injury (including personal injuries)
\$250,000.00 each person
\$500,000.00 each occurrence
 - b. Property Damage Liability (Broad Form):
\$100,000.00 each person
\$100,000.00 aggregate
 - c. Contractor's Protective Liability Insurance with limits same as Contractor's Public Liability coverage.
 - d. Contractual Liability Insurance as applicable to the Contractor's obligations under Paragraph 4.18 with limits same as Contractor's Public Liability coverage.
4. Automobile Liability Insurance (covering all Contractor, Owner and non-owned vehicles):
Bodily Injury Liability: \$500,000.00 each occurrence
Bodily Injury Liability: \$250,000.00 each person
Property Damage Liability: \$ 50,000.00 each occurrence

11.1.5 The Contractor shall be responsible for determining and enforcing the extent of insurance coverage required of his subcontractors.

Delete sub-paragraph 11.2.1

Add new sub-paragraph as follows:

11.2.1 The Contractor shall provide the following kinds of insurance with the minimum limits indicated:

1. Owner's Protective Liability:
Personal Injury: \$250,000.00 each person
\$500,000.00 each occurrence
\$100,000.00 each occurrence
\$100,000.00 aggregate
2. All Risk Builder's Risk Insurance
Fire, extended coverage, vandalism and malicious mischief insurance on the completed value form for the full contract amount in the names of the Owner and Contractor, as their interests may appear.

Add new sub-paragraphs as follows:

11.5.3 Bonds, if required, shall be approved by the Owner and filed together with a copy of the Agreement between the Contractor and the Owner in the Office of the County Clerk. The rights and liabilities of the Owner and the Contractor, in regard to claims for unpaid bills arising by virtue of the contract, shall be prescribed by the applicable provisions of state and local laws. These state and local laws are hereby made a part of this Contract to the same extent as if copies were bound herein. The cost of the bonds shall be shown separately on the Bid Form and shall be in the form as specified in Division 00 and amounts as follows:

1. Performance Bond: In the penal sum of the contract price, signed by the Contractor as Principal and by a Corporate Surety, satisfactory to the Owner and authorized to do business in the state in which the work is to be performed.
2. Labor and Material Payment Bond: Issued simultaneously with the Performance Bond in favor of the Owner conditioned on the full and faithful performance of the Contract, and by its express terms complies with all applicable state and local laws. Such Bond shall be in the penal sum of the contract price, signed by the Contractor as Principal and by a Corporate Surety satisfactory to the Owner and authorized to do business in the state in which the work is to be performed.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

Revise sub-paragraph as follows:

13.5.1 Lines 5 and 6; DELETE "and shall bear related costs of tests, inspections and approvals."

Delete the last sentence of sub-paragraph 13.5.1.

Supplement sub-paragraph 13.5.1 as follows:

Unless otherwise provided, the Owner shall bear all costs of initial inspections, tests or approvals. The Contractor shall bear all costs of retakes of tests or additional inspections due to failure of the initial tests or failure of the Work as determined by the initial inspections.

END OF DIVISION

01 10 10 - SUMMARY OF THE WORK

1. GENERAL: Division 00 General Conditions, Division 00 Supplementary General Conditions, and Division 01 of this Project Manual apply to all Sections of this Project Manual, to the Drawings and to all Contract Documents.
2. "RECORD" DRAWINGS:
 - a. During the progress of the Work, the Contractor shall maintain a current (daily) record set of Drawings, indicating thereon all work installed at variance with these Contract Documents, including work covered by supplemental contracts, addenda, change orders, directives and indicating the dimensions of underground utilities.
 - b. The Contractor shall, at the completion of the Contract and prior to the release of retainage, furnish to the Architect, as part of the Project Closeout, a complete set of the Record Drawings specified in the paragraph above and a scanned copy of this same as-built set in .pdf format on a compact disk.

END OF SECTION

01 10 11 – WORK RESTRICTIONS

1. SITE: All construction activities shall be limited to the project site and adjacent public rights-of-way, if required, to perform the Work indicated.
2. CONSTRUCTION ACCESS: The construction access to the site shall be approved by the Owner prior to mobilization. Maintenance of this access and the adjacent public roadway and rights-of-way shall be kept safe and clean. The use, safety, maintenance and cleanliness of all adjacent roadways and public rights-of-way shall conform to all requirements of the authority having jurisdiction over them.

END OF SECTION

01 10 12.10 – INTERIOR PARTITION CONSTRUCTION

1. INTERIOR PARTITIONS:
 - A. Construction and Type: Reference the Drawings.
 - B. Wall Type Locations:
 - 1) Wall Type "A" : Shall be the typical wall used around and between all offices.
 - 2) Wall Type "B" : Shall be the wall used around and between all laboratories.
 - 3) Wall Type "C": Shall be a sound wall that is used as the plumbing chase wall in the renovated Toilet.
 - 4) New Corridor Wall: Shall match the exiting corridor wall construction and fire rating.
 - C. Trim: (At all drywalls, manufactured by Ragland Manufacturing Company):
 - 1) All partitions that terminate at the ceiling grid shall have a Raco header, No. PR-1.
 - 2) All partitions that penetrate the ceiling grid shall have Raco Trim Molding, No. PR-21.

END OF SECTION

01 10 12.11 - FINISHES

1. FLOOR FINISHES: Refer to the other sections of the Project Manual for floor finish specifications.
2. FLOOR FINISH LOCATIONS:
 - A. Carpet: Typical floor finish for all existing and new offices and all areas where indicated on the Drawings.
 - B. Vinyl Composition Tile: Typical floor finish for all laboratory areas and corridors and where noted as VCT on the Drawings.
3. WALL FINISHES: Refer to the other sections of the Project Manual for wall finish specifications.
4. WALL FINISH LOCATIONS:
 - A. Paint:
 - 1) Latex: Typical wall finish throughout unless other finish is specified herein or indicated on the Drawings.
 - 2) Enamel: In the renovated Toilet except at Ceramic Tile Walls and in the Break Room.
 - 3) Antimicrobial: In all Laboratory Areas, Rooms and Corridors.
 - B. Ceramic Tile: In renovate Toilet on the walls indicated on the Drawings.

END OF SECTION

01 10 12.12 – DOORS AND HARDWARE

1. INTERIOR DOORS: Shall be 3'-0" wide x 1-3/4" thick x 8'-10-1/2" tall, Per Section 08 20 11 and shall match existing.
2. INTERIOR DOOR FRAMES: Shall be demountable frames per Section 08 10 11 and shall match existing.
3. FINISH HARDWARE (For all New Doors):
 - A. General: Shall be per Section 08 50 10.10.
 - B. Typical Interior Doors: Shall have latchset.
 - C. Private Office Doors: Shall have one lockset.
 - D. Renovated Toilet Room Door: Shall have one privacy lock and one closer.
 - E. Closers: Provide on renovated Toilet Door and all Doors where indicated on the Drawings.
 - F. New Corridor Door: Hardware on the new Corridor Door shall match existing Corridor Door hardware.

END OF SECTION

01 20 12 – SUBSTITUTION PROCEDURES

All substitutions shall be requested by the bidders a minimum of four (4) calendar days prior to the bid date.

Substitution requests shall include documentation of the specified item along with documentation of the requested substitute item and a brief comparison between the two. Also include the reason this request is being made. If the request is granted, this item will be included in an addenda issued to all bidders.

END OF SECTION

01 20 13.10 – REQUEST FOR INFORMATION

All clarifications shall be issued in writing. The Architect and the Owner will not be responsible for oral clarifications.

The Contractor and his subcontractors shall verify all existing conditions prior to the fabrication, manufacture and construction of any machinery, equipment, hardware, and all items that relate to existing conditions. Dimensions and notes shown in the Contract Documents relating to existing conditions shall be verified prior to fabrication, manufacture, and construction, and any discrepancies shall be reported to the Architect.

END OF SECTION

01 20 13.11 – CHANGE REQUEST/RESPONSE/OWNER APPROVAL

All Change Requests shall be submitted in the form as outlined in Division 00.

END OF SECTION

01 20 13.12 – CHANGE ORDERS

All Change Orders shall be submitted in the form as outlined in Division 00.

END OF SECTION

01 30 10 – PROGRESS PAYMENT PROCEDURES

Shall be provided as outlined in Division 00 General Conditions, Division 00 Supplementary General Conditions, and in the form of AIA Documents G702-1992 and G703-1992. These documents can be found on the AIA website at www.aia.org/contractsdocs/index.htm.

END OF SECTION

01 40 10 - PROJECT MANAGEMENT AND COORDINATION

1. PRE-CONSTRUCTION: Following the signing of the Construction Contract and prior to beginning construction, a conference may be held between the Owner, the Contractor, the Architect and the Consultants. The intent of this conference, if held, shall be to clarify and review, in general, the Scope of the Work.
2. PROGRESS: Conferences may be requested by any party to the Construction Contract at the project site or at some other agreed upon meeting place as deemed necessary.

END OF SECTION

01 50 10 – CONSTRUCTION PROGRESS SCHEDULE

1. The Contractor shall provide a Construction Progress Schedule and present it at the Preconstruction Meeting.
2. The Contractor shall update the Construction Progress Schedule and a 2-Week Look Ahead Schedule and present it at each Construction Meeting. The 2-Week Look Ahead Schedule shall indicate the work scheduled to be performed for this time period.

END OF SECTION

01 60 10 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

1. SAMPLES: The Contractor shall provide at the project site or other location specified by the Architect the following samples for approval by the Owner and Architect:
 - a. Paint.
 - b. Interior Finishes.
 - c. Interior Door Laminate.
 - d. Any other samples requested in the Contract Documents.

2. SHOP DRAWINGS AND SUBMITTALS:
 - a. Requirements: The Contractor shall provide shop drawings and submittals, in PDF file format, which have been stamped and approved by the Contractor on all items which differ from those specified, all details that differ from the Drawings or Project Manual, any items or details requested by the Architect and all required shop drawings and submittals specified in this Section. The Contractor shall allow two weeks for review of each submittal.
 - b. Owner's Copy: The Contractor shall maintain a separate file during the Construction Phase which shall contain the reviewed and approved copy, in PDF file format, of all shop drawings and submittals made during this phase. A CdRom with all these files shall be delivered as part of the Project Closeout at the completion of the project and prior to the release of retainage.
 - c. Routing: All shop drawings and submittals required "for Consulting Engineer's review" as noted in Paragraph 2.d below shall be submitted, in PDF file format, via email directly to the appropriate Consulting Engineer with a copy of the transmittal only to the Architect to submittals@mkpa84.com. Following the Consulting Engineer's review of the shop drawings and/or submittals they shall be forwarded, in PDF file format, via email directly back to the Contractor with a copy of the submittal in its entirety to the Architect to submittals@mkpa84.com. All shop drawings or submittals not required to be reviewed by Consulting Engineers shall be sent, in PDF file format, via email directly to the Architect at the following address unless instructed otherwise: submittals@mkpa84.com.
 - d. Required Submittals: The following is a list of the shop drawings and submittals required to be submitted by the Contractor.
 - 1) All Consultant items specified in those Documents to be submitted (for Consulting Engineer's review).
 - 2) All Millwork and Finish Carpentry.
 - 3) Finish Hardware.
 - 4) Interior Doors and Frames.
 - 5) Painting.
 - 6) Specialty Items.
 - 7) Roof curbs.
 - 8) Details of All New Roof Penetrations.

END OF SECTION

01 90 10 - PRODUCT STORAGE AND HANDLING REQUIREMENTS

1. All construction materials which are sensitive to weather conditions shall be stored on site in such a manner so as to protect them from any form of damage.
2. All construction materials which are sensitive to weather conditions during the course of the Work shall be protected in such a manner so as to protect them from any form of damage until the Work has been completed.
3. Any and all work found to be defective by the Architect shall be replaced whether it is stored on site or has been incorporated in the Work.

END OF SECTION

01 100 10 - PROJECT CLOSEOUT

1. GENERAL: The Contractor shall, following the Date of Substantial Completion and prior to the release of retainage, deliver to the Project Manager for delivery to the Owner, the following items (two hard copies each, unless another quantity is specified elsewhere in the Contract Documents) in three ring binders. Submit one original and the remaining as copies unless "originals only" are specified. Also include an electronic version of the entire package on a CDROM or external drive device.
2. MANUALS, INSTRUCTIONS AND SCHEDULES:
 - a. Typewritten operating, servicing, maintenance and cleaning instructions and parts lists for all items, equipment and fixtures installed in the Work by the Contractor. Include a list containing the equipment supplier's and local representative's names and addresses.
 - b. A typed list of all finishes used, giving their location, manufacturer, type, color number and any special mixes and design numbers for each product.
 - c. Instruct the Owner's representative in the operation of all mechanical, electrical, plumbing, and other systems.
 - d. A keying schedule. De-activate all construction keyed locks, if used.
 - e. A typewritten list of all subcontractors used including the name of each company, its address, a telephone number and the person to contact.
3. HVAC BALANCE REPORT: A written report including when the tests were performed and by whom.
4. SHOP DRAWINGS AND SUBMITTALS: Submit the Owner's copy of all shop drawings and submittals approved by the Contractor for the project.
5. CERTIFICATES OF INSPECTIONS AND APPROVALS: All certificates of inspection, testing and approval as required by the General Conditions and the applicable authorities having jurisdiction. These shall include a Certificate of Occupancy, if required by the local authority having jurisdiction, and **written** approvals from the authorities having jurisdiction and the Owner's Insurance Carrier for the completed installation of the fire protection system.
6. WARRANTIES AND BONDS:
 - a. Furnish on the Contractor's letterhead a blanket warranty, executed in the name of the Owner, in the exact form and wording as outlined in Division 00 and referencing the Date of Substantial Completion.
 - b. Furnish all Bonds required by the Owner.
 - c. Furnish on the Subcontractor's letterhead, a blanket warranty, executed in the name of the Owner, in the exact form and wording as outlined in Division 00 and referencing the Date of Substantial Completion.
 - d. Furnish from the following list of Subcontractors, on their letterhead, a blanket warranty, executed in the name of the Owner, in the exact form and wording as outlined in Division 00 and referencing the Date of Substantial Completion.
 - 1) Roofing.
 - 2) Sealants.
 - 3) Roof Accessories.
 - 4) Any other Subcontractor involved with the exterior of the building or buildings and any exterior building penetrations including roof and wall mounted mechanical equipment.
8. CERTIFICATE OF SUBSTANTIAL COMPLETION: Provide a copy of the Certificate of Substantial Completion, signed by all parties in each binder.

9. CHANGE ORDERS (Copies only): Submit in each binder a copy of all Change Orders, signed by all parties.
10. RECORD DRAWINGS: Furnish as specified in Division 01.
11. ASBESTOS FREE MATERIALS LETTER: Furnish on the Contractor's letterhead, executed in the name of the Owner, in the exact form and wording per Division 00, Sample "D" Warranty Forms.

END OF SECTION

02 10 11 - EXISTING CONDITIONS ASSESSMENT

The Contractor and his subcontractors shall verify all existing conditions prior to the fabrication, manufacture and construction of any machinery, equipment, hardware, and all items that relate to existing conditions. Dimensions and notes shown in the Contract Documents relating to existing conditions shall be verified prior to the fabrication, manufacture, and construction and any discrepancies shall be reported to the Architect.

END OF SECTION

03 10 13 - CONCRETE WORK AND FLOOR FINISH

1. CONCRETE FLOOR SLAB:
 - a. General: Where existing elevated floor slab shall be removed, saw-cut the slab a minimum 1" deep and remove carefully and/or core the slab. Replace with a minimum five and one half sacks of cement per cubic yard, 3,500 p.s.i. minimum compressive strength concrete at 28 days, reinforced with No. 3 bars at 12" on center each way. New concrete floor slabs shall be flush with existing and the finish shall match the existing. Seal all penetrations as required to maintain fire rating of the elevated slab, if any.
2. NEW OPENINGS: All new openings through existing structural concrete including the elevated floor slab, whether or not shown in the Contract Documents, shall be certified in writing as "Approved" by a Structural Engineer approved by the Owner.

END OF DIVISION

05 10 10 - MISCELLANEOUS METALS

1. SCOPE OF THE WORK: Furnish and install all Miscellaneous Metal items and accessories not provided in other sections as specified herein.
2. MATERIALS:
 - a. Miscellaneous metals shall conform to the edition of the following standards referenced in the code specified in the Contract Documents in effect on the date this Project Manual was issued.
 - 1) Steel: ASTM A 36.
 - 2) Cast Iron: ASTM A 48.
 - 3) Cast Steel: ASTM A 27.
 - 4) Wrought Iron and Wrought Steel Pipes: ASA Standard Specification B36-10-36.
 - 5) Sheet Steel or Iron: Standard Brand open hearth copper bearing steel, copper molybdenum iron or pure iron sheets furnished in black or galvanized form; zinc coated on all surfaces by hot dip process.
 - b. Galvanizing: Shall conform to ASTM A 123, latest edition.
 - c. Arc Welding Electrodes: Shall conform to ASTM A 233, latest edition.
 - d. Welds: Shall be ground smooth and primed.
 - e. Primer: Shall meet the minimum performance requirements of the Steel Structures Painting Council Specification 15-68T, Type 1 or Federal Specification TT-P-636. The primer color shall match the color of the structural steel primer.
3. FABRICATION:
 - a. Fabrication: Shall conform to the latest edition of the standard specifications of the AISC.
 - b. Welding: Shall conform to the latest edition of the standards of the American Welding Society.
 - c. Shop Priming: Power tool clean all steel per SSPC-SP3, latest edition. Shop prime all miscellaneous metals with one coat of primer with a minimum dry thickness of 2.0 mils.

END OF SECTION

06 10 10 - ROUGH CARPENTRY

1. SCOPE OF THE WORK:
 - a. Furnish and install all permanent and temporary Rough Carpentry as specified herein. This work shall include wood framing, wood blocking, nailers, grounds, braces, fasteners, and plywood backing.
 - b. Install the following items furnished by others:
 - 1) Wood doors, reference Division 08.
 - 2) Finish hardware, reference Division 08.
 - e. Finish on wood in Division 09.

2. MATERIALS:
 - a. Lumber: Shall be air dried or kiln dried and shall contain no more than 19% moisture. Lumber shall conform to the American Lumber Standards, Simplified Practice Recommendation, R-16, latest edition; the Grading Rules of the manufacturer's association under whose rules the lumber was produced; or an approved agency listed by the Board of Review of the American Lumber Standards Committee. Lumber shall include the mill identification. All 2 x lumber shall be Structural Light Framing, No. 2 Southern Yellow Pine or Douglas Fir-Larch and shall have the following minimum values:
 - 1) Modulus of Elasticity (E): 1,400,000 p.s.i.
 - 2) Extreme Fiber Stresses:
 - A) Bending (Fb): 1,250 p.s.i.
 - B) Tension (Ft): 725 p.s.i.
 - C) Compression (Fc): 345 p.s.i.
 - D) Horizontal Sheer (Fv): 75 p.s.i.
 - b. Plywood: Shall be Structural I, C-C, Exterior - APA.
 - c. Fire Retardant Treatment: Shall be pressure impregnated with fire retardant chemicals in accordance with U.L. FR-S fire hazard classification. All lumber and plywood must be dried following treatment in accordance with AWPB Standard C-20 Lumber and Standard C-27 Plywood.
 - d. Preservative Treatment: Shall be pressure impregnated with waterborne preservative in accordance with AWPB Standards and all applicable codes.
 - e. Fasteners: Shall be of the type and size best suited for the particular application and condition. Nails shall be annular ring type. Reference the Contract Documents for other fastener requirements.

END OF SECTION

06 20 11 - PLASTIC-LAMINATE-CLAD ARCHITECTURAL CASEWORK

1. SCOPE OF THE WORK: Furnish and install all Plastic Laminate-Clad Architectural Casework as specified herein.
2. MATERIALS:
 - a. General: All material and workmanship shall comply with the quality standards and guide specifications for Custom Grade architectural millwork as defined and specified by Section 400, Division B of the Architectural Woodwork Institute Standards. All construction shall comply with the details and elevations on the Drawings. Construction not detailed on the Drawings shall comply with AWI Standards.
 - b. Backs: Provide all millwork with solid backs unless specifically noted otherwise on the Drawings.
 - c. Shelves: All shelves shall be adjustable unless specifically noted otherwise on the Drawings.
 - d. Components:
 - 1) Casework Body Members, Backs and Shelves: Shall be melamine surfaced, medium density particleboard. All shelves shall be adjustable and shall be a minimum of 1-1/8" thick.
 - 2) Casework Stringers and Hang Strips: Shall be plywood complying with AWI Standards.
 - 3) Drawer Sides, Drawer Backs, Drawer Bottoms and Drawer Subfronts: Shall be lumber. These components shall have 1/4" grooves to receive the bottom. All interior surfaces of drawers shall be painted.
 - 4) Exposed Casework Members, Doors, Drawer Fronts and Splashes: Shall be medium density fiberboard clad with plastic laminate. Splashes shall be clad with chemical resistant plastic laminate.
 - 5) Countertops: Shall be 45 pound fiberboard clad with chemical resistant plastic laminate.
 - e. Edge Treatment: Shall comply with Section 400B-S-6 of the AWI Standards and the following:
 - 1) Cabinets and Casework: All exposed (visible) edges shall be banded with matching plastic laminate.
 - 2) Doors: All edges shall be banded with matching plastic laminate.
 - 3) Shelves:
 - A) Exposed to View: All edges shall be banded with matching plastic laminate.
 - B) Concealed within Cabinets and Casework: Only the front edge shall be banded with matching plastic laminate.
 - f. Hardware: Furnish and install the following hardware in US 26D, Satin Chromium Plated finish.
 - 1) Hinges: Grass, concealed, No. 3703, two per door.
 - 2) Door and Drawer Pulls: Stanley No. 4484.
 - 3) Drawer Slides: Knappe and Vogt, No. 1260, two per drawer.
 - 4) Adjustable Shelves: Multiple holes with metal pin inserts.
 - 5) Removable Skirts (below lavatories and sinks): Provide with concealed aluminum, flush mounted, gravity type, zee clips, Series 500412 by Cabinetmakers Hardware.
 - g. Toe Space: When a 2-1/2" high, vinyl base is specified, the toe space of all millwork shall be plastic laminated.

3. INSTALLATION:
 - a. General: All workmanship shall comply with AWI Standards for Custom Grade millwork and with Section 400, Division B of the AWI Standards.
 - b. Drawers: All joints of all drawer assemblies shall be glued solid and mechanically secured using screws to prevent any movement between components. The only exception being drawer fronts which may be secured to the subfronts by screw attachment only from the interior of the drawer. Adequate number of screws shall be used to prevent any warpages of the drawer fronts. Alternate methods of drawer front attachment may be used but only if approved, in writing, by the Architect.
4. SUBMITTALS: Supply complete shop drawings and hardware submittals to the Contractor for his review and approval. One copy will be forwarded by the Contractor to the Architect for his review and comment.

END OF SECTION

06 40 10 - SPECIAL COUNTERTOPS

1. SCOPE OF THE WORK: Furnish and install all Special Countertops as specified herein.
2. MATERIALS:
 - a. General: Shall be one piece monolithic design made of Corian, as manufactured by DuPont Company of Wilmington, Delaware, or approved alternate.
 - b. Thickness: Countertops, toilet lavatories and splashes shall be 1/2" thick.
 - c. Construction: Lavatories, backsplashes and side splashes shall be integral with the countertop with no visible seams. The countertops shall have a 1-1/2" hard seam edge. All top and bottom edges shall have 1/4" round over.
 - d. Location: Special countertops shall be furnished and installed with integral lavatories in all toilets. Special countertops shall be furnished and installed in the laboratories where noted and specified on the Drawings.
3. INSTALLATION:
 - a. General: Install countertop unit as recommended by the manufacturer.
 - b. Countertop: Slope countertops from front toward wall 1/4".

END OF SECTION

07 50 12 – EXISTING ROOFING

1. PENETRATIONS: All penetrations shall be made and flashed by the roofing subcontractor specified, in writing, by the building/facility Owner. Vents, drains and other piping penetrations through the roof shall be provided with flashings per the Mechanical and Plumbing Documents. Electrical conduit penetrations through the roof shall be provided with a roof jack and cap per the Electrical Documents.
2. EQUIPMENT SUPPORTS AND CURBS:
 - a. Supports: Shall be prefabricated, custom built, Model No. CES-2, as manufactured by Custom Curb, Inc., or approved alternate, in required lengths as determined by the manufacturer of the item to be supported.
 - b. Prefabricated Built Curbs: Shall be Model No. CRC-2, as manufactured by Custom Curb, Inc., or approved alternate, full size, in required length and width as determined by the manufacturer of the item to be supported.
 - c. Factory Curbs: Shall be a full size, continuous type and model provided by the manufacturer of the item to be supported.
3. COORDINATION AND APPROVAL: The building/facility Owner shall approve, in writing, all installation designs of all supports and curbs prior to their construction and installation. The General Contractor shall coordinate all work with all trades involved.

END OF SECTION

07 90 11 - DISSIMILAR MATERIALS

1. SCOPE OF THE WORK: It is the intent of this Section to cover all intersections of dissimilar materials, whether specifically detailed or not.
2. INSTALLATION: All intersections of dissimilar materials and assemblies shall allow for a 1/2" joint unless otherwise detailed. Example: Drywall to tiltwall and structural steel; masonry to tiltwall and structural steel. All joints shall be sealed, both sides, with Dymeric sealant, joint filler (reference Division 07) and appropriate primer, typical. In all cases, the joint shall comply with any and all fire rating requirements of the assembly. Example: A two-hour fire rated wall shall have a joint complying with a two-hour fire rating.

END OF SECTION

08 10 11 - ALUMINUM METAL FRAMES

1. SCOPE OF THE WORK: Furnish all Aluminum Metal Frames as specified herein.
2. MATERIALS:
 - a. Interior Aluminum Door Frames: Shall be Classic Prestige Series, demountable, extruded aluminum frames in throat size required by wall thickness as manufactured by Raco Altura. Color shall be as selected by the Architect. Finish shall be factory applied baked enamel coating complying with AAMA Specification No. 603. Acceptable alternate manufacturers shall be Alfab, Inc. and Frameworks Manufacturing, Inc.
 - b. Interior Steel/Aluminum Fire Rated Door Assemblies (In One Hour Fire Rated Wall): Shall be 60 minute fire rated, mineral core doors with 60 minute fire rated, steel frames as manufactured by Raco Altura.
 - c. Interior Aluminum Glazing Frames: Shall be Series 487 in all 4-7/8" thick walls and Series 375 in all other walls, as manufactured by Raco Altura. Finish and color shall match interior door frames unless otherwise noted.
3. INSTALLATION:
 - a. General: All installations shall comply with the manufacturer's recommendations, printed installation instructions and approved shop drawings.
 - b. Interior Aluminum Door and Glazing Frames: Install frames plumb and square, free from warp or twist, securely anchored to substrates with fasteners recommended by frame manufacturer. Maintain dimensional tolerances and alignment with adjacent work. Ensure joints are hairline tight and surfaces flush with adjacent components. Do not attempt installation in areas where wall thickness exceeds tolerances of specified throat size. Door frames shall be adjustable type when required to fully cap the wall unless the frame is mated with an adjacent, interior aluminum glazing frame. The upper intersections of all glazing frames shall be beveled at a 45 degree angle.

END OF SECTION

08 20 11 - PLASTIC LAMINATE WOOD DOORS

1. SCOPE OF THE WORK: Furnish all Interior Doors and Frames as specified herein.
2. MATERIALS:
 - a. Solid Core Doors: Shall be 303 Series Perma Clad, 3-ply, 1-3/4" thick, solid core particleboard with plastic laminate faces and stained edges (stained and/or painted to match the face laminate) as manufactured by VT Industries.
 - b. Double Doors: Typical Door and Frames sized as noted on the Drawings. Furnish with plastic laminated T-astragal as manufactured by the door manufacturer.
 - c. Interior Steel/Aluminum Fire Rated Door Assemblies (One Hour Fire Rated Wall): Shall be Perma Clad by VT Industries, 1111 Series, 5-ply, 60 minute fire rated, mineral core doors.
3. INSTALLATION:
 - a. General: All installations shall comply with the manufacturer's recommendations, printed installation instructions and approved shop drawings.
 - b. Solid Core Doors: Door sizes shall be as shown in the Contract Documents and shall allow for maximum clearances between the door and its frame of 1/8" at head and jambs and 1/4" above the specified floor finish. Set all doors in correct locations as shown on the Drawings, level, square, plumb and in alignment with other work.

END OF SECTION

08 50 10.10 - DOOR HARDWARE

1. SCOPE OF THE WORK:
 - a. Furnish and install all Door Hardware as specified herein.
 - b. Cabinet Hardware in Division 06.
2. MATERIALS:
 - a. General: This section contains the descriptions and manufacturers of the items specified in the Hardware Section of the Door Schedule shown on the Drawings.
 - b. Acceptable Alternate Manufacturers: Only products specified herein shall be used except products of acceptable function, quality and appearance as manufactured by Schlage, Corbin, Best, Hager, Russwin, Sargent and Yale. Any substitution of one of these acceptable manufacturers shall be approved in writing by the Architect prior to their use.
 - c. Hinges: Typical No. TA3750 (two knuckle), Heavy Weight, 4-1/2" x 4-1/2" by McKinney. Provide a minimum of three per door, typically, and four per door when door leaf exceeds 3'-0" wide, on all hollow metal doors taller than 7'-0" and as required by the fire rating of the door.
 - d. Closer: Series 4010 - Del (delayed action) with full molded cover and mounting plate (sized as required) by LCN. Do not install on main corridor side of any door and do not thru-bolt any door.
 - e. Cylinder (Typical): 23-013 by Schlage.
 - f. Latchset: D10S Athens 11-020 x 10-025 by Schlage.
 - g. Privacy Lock: D40S Athens 11-020 x 10-025 with complete strike box, by Schlage.
 - h. Lockset: D53RD Athens 11-096 x 10-025 with complete strike box, by Schlage.
 - i. Stop: Typical - No. 1211ES by Trimco and at carpet, No. 1212 ES by Trimco. Stop shall be floor mounted, one per door.
 - j. Threshold: No. 896 Aluminum by National Guard Products, Inc.
 - k. Door Bottom Seal: No. 35A by National Guard Products, Inc.
3. FINISHES: All finishes shall be US 26D, Satin Chromium Plated, or hardware manufacturer's equivalent finish, except door hinges which shall match the door frames in finish type and color, unless otherwise noted.
4. KEYING:
 - a. Any equipment received on the jobsite with a lock not corresponding to this specification will be rejected and relocked to meet this specification at the expense of the equipment manufacturer.
 - b. Construction cores shall be furnished by the Contractor in accordance with the manufacturers construction core policy to assure that during the period of construction the Contractor will be able to lock the building while avoiding the risk of master keyed cores and keys being issued to unauthorized personnel. All permanent cores shall be included in the Contract Price and shall be furnished to the Contractor through the Owner for the Contractor's final installation in the Work.
 - c. All lock housings are to accept a (7) pin interchangeable core. The interchangeable removable core body, sleeve and plug shall be made of extruded brass.
 - d. All cores shall be recombinable by removing pin segments on one individual barrel without disturbing the seat of pins of the other barrels of the same core.
 - e. The removable core shall be instantly interchangeable without modification for use in any lock throughout this system.
5. SCHEDULES AND APPROVALS:
 - a. The supplier shall furnish six copies of a complete detailed schedule showing all hardware to be furnished for every item of hardware required, their locations, sizes and hands. In addition, the schedule shall contain a detailed list explaining any and all abbreviations and symbols used.

- b. No assembly or shipment of hardware shall be made until an approved schedule has been returned to the supplier.
6. MOUNTING HEIGHTS: Handles, pulls, latchsets, locksets and door operating devices on all doors shall be mounted no higher than 38" above finish floor.

END OF SECTION

08 60 11 - MIRRORS

1. SCOPE OF THE WORK: Furnish and install all Mirrors as specified herein.
1. MATERIALS: Shall be 1/4" polished plate glass, No. 1 quality, electroplated copper back, 5 year guarantee on breakdown of silvering, frameless.
2. INSTALLATION: Hang mirrors on concealed wall hangers.

END OF SECTION

09 10 11 - GYPSUM BOARD WALL ASSEMBLIES

1. SCOPE OF THE WORK:
 - a. Furnish and install all Gypsum Board Wall Assemblies as specified herein.
 - b. Insulation in Division 07.
 - c. Door and Glazing Frames in Division 08.

2. MATERIALS:
 - a. Manufacturer: United States Gypsum Company products are specified herein to establish quality. Equivalent products by National Gypsum Company, Flintkote, Merco and Gold Bond are acceptable, however, only products of one manufacturer shall be used on the project.
 - b. Drywall Metal Studs: Shall be Dietrich Industries studs, ST Series. Typical studs shall be 25 gauge galvanized steel. Reference the Drawings for other required gauges.
 - c. Drywall Metal Runners: Shall be Dietrich Industries runners, CR Series. Runners shall be galvanized steel and their gauge and size shall match that of the drywall studs.
 - d. Gypsum Board: Shall be tapered edge sheetrock, regular type, in 5/8" thickness, unless another thickness is shown in the Contract Documents, 48" wide, in long lengths to minimize the number of joints, conforming to ASTM C 36, latest edition. Provide water resistant wallboard for all walls in toilet rooms, all walls within two feet of all sinks and electric drinking fountains and where noted on the Drawings. Provide "Firecode" wallboard for firewalls and where otherwise noted on the Drawings.
 - e. Furring Channels: Shall be DWC drywall furring channels.
 - f. Fasteners:
 - 1) Drywall Metal Studs and Runners: Shall be 3/8" Buildex Type S, pan head screw.
 - 2) Gypsum Board: Shall be Buildex Type Bugle head screw, length as required by assembly.
 - g. Drywall Trim:
 - 1) Corner Bead: Shall be No. 800.
 - 2) Metal Trim: Shall be No. 701B.
 - h. Tape: Shall be Type "S".
 - i. Joint Compound: Shall be Durabond joint compound.
 - j. Adhesive: Shall be Laminating Adhesive or other cement recommended by manufacturer.
 - k. Drywall Trim: Shall be PR-1 header cap, PR-1A casing cap and PR-21 reveal molding as manufactured by Raco Altura. All items shall be fabricated from aluminum alloy and the finish shall match the interior aluminum door frame finish.
 - l. Support Post: Shall be Raco R-15 Bank Rail support post with anchors as manufactured by Raco Altura.
 - m. Sound Sealant: Shall be OSIS-175 Acoustical Sound Sealant, nonflammable as manufactured by Henkel Corporation.

3. INSTALLATION:
 - a. General: Install all work in accordance with the printed instructions of the manufacturer of the material used in the work. This shall include the installation of control joints. Isolation joints shall be installed if required by the conditions. All joint locations shall be reviewed with the Architect and the Client.
 - b. Studs: Accurately place floor and ceiling runners and securely attach studs in correct spacing so that partitions will be sturdy and plumb when complete. All studs shall be spaced at 16" on center unless otherwise noted. Install studs to the roof or floor deck for partitions indicated and anchor all others to the ceiling system.

- c. Gypsum Board:
- 1) General: Install gypsum board vertically with staggered screws along abutting edges. Space screws 12" center to center in the field and 12" center to center staggered at vertical joints. Butt ends and edges for a tight joint. No edge joints allowed directly above and aligning with edges of openings. No dissimilar edges adjacent. Tape and float all gypsum board the full height of the walls.
 - 2) Preparation: Prepare all drywall within any warehouse or unfinished area to receive paint whether it is specified by the Contract Documents to be painted or not. If the project contains existing drywalls, prepare all such walls to receive the new specified finishes including removing all blemishes and imperfections from these walls. Reference the Finish Schedule on the Drawings for the location of all interior finishes.
 - 3) Finishing: All gypsum board surfaces specified to receive a finish shall receive a Level 4 finish as defined by GA-214 by the Gypsum Association. All other gypsum board surfaces shall receive a Level 2 finish as defined by GA-214 by the Gypsum Association.
- d. Door Frames: Securely anchor in drywall partitions using anchors furnished with frames; double studs at door frames.
- e. Walls to Deck: Install gypsum board on both sides of studs full height of wall, unless otherwise noted. This shall include boxing around any and all structural framing members to complete the wall on both sides to the bottom of the deck. Tape and float all walls the full height of the wall and on both sides of the wall. Seal all non-fire rated walls on both sides solid and tightly to floor and roof surface, including metal deck flutes, with Dymeric sealant. Seal all fire rated walls with fire proofing material as specified elsewhere in the Contract Documents. Extend all full height partitions (finished floor to roof or floor deck above) to the extreme exterior face of the building including metal canopies, floor or roof extensions and overhangs, etc.
- f. Sound Walls: Install sound batts in partitions noted and to heights noted on the Drawings. Seal all sound walls on both sides, solid and tightly, between the wall and floor and the floor/roof system at the top of the wall with sealant.
- g. Drywall Trim: Install where all partitions meet ceiling system and glazing sections. Install casing caps at partition ends and around all cased openings. Size and type of trim shall be selected as per job condition.
- h. Half and Free Standing Walls: Shall be constructed with minimum 3-5/8" metal studs, unless otherwise noted on the Drawings and support post as required to stabilize the wall.
- i. End of Walls: Unless otherwise noted on the Drawings, all walls with exposed end conditions shall be capped with a Raco PR-1A Partition Casing.
- j. Door Location: Unless otherwise shown on the Drawings, locate the edge of the door jamb/opening 4" from the face of the adjacent wall.

END OF SECTION

09 20 10.11 - CERAMIC WALL TILE

1. SCOPE OF THE WORK: Furnish and install all Ceramic Wall Tile as specified herein.
2. MATERIALS:
 - a. Materials: Tile shall be product of American Olean Tile Company or approved alternate, Mortars and grouts shall be as manufactured by Texas Cement Products, Inc., or approved alternate.
 - b. Wall Tile: Shall be 12" x 12" square matte glazed ceramic with semi-cushion edge. Provide bullnose tiles at top and exposed edges.
 - c. Base Tile: Shall be wall tile with coved base.
 - d. Dry Set Mortar: Use wall mix.
 - e. Grout: Use drywall grout for walls as selected by the Architect.
3. INSTALLATION:
 - a. General: All tile work shall be set in accordance with, and shall conform to, the requirements of the Tile Council of America, Inc. and ASA Standard A118.1, latest edition.
 - b. Thin Set Tile:
 - 1) Apply dry set mortar bed in 1/16" to 1/8" thickness.
 - 2) Apply sheets of tiles in position and press firmly into mortar bed. Bring all tiles to proper elevation and true level. Leveling must be done within one hour after placing sheets.
 - 3) Lay out to accomplish necessary cutting at walls and floor with cuts at parallel walls and at floor to be equal.
 - 4) All joints shall be straight, in line and of even width. All floor tile joints shall align with wall tile joints.
 - c. Grouting: All grout joints shall be even, tooled, dense and full. Fill tile joints completely, wipe to base of cushion edge of tile. All joint grout shall be sealed.
 - d. Curing: Cover tile work with waterproof paper, not polyethylene sheeting, lapped to prevent escape of moisture. Acid cleaning shall not be done until 10 days after setting.

END OF SECTION

09 30 10 - ACOUSTICAL CEILING

1. SCOPE OF THE WORK: Furnish and install all Acoustical Ceiling as specified herein.
2. MATERIALS:
 - a. Manufacturer:
 - 1) Acoustical Lay-In Panels: Shall be Armstrong or approved alternate.
 - 2) Suspension System: Shall be Donn Corporation or approved alternate.
 - b. Acoustical Lay-In Panels: Shall be Class A, Non-Fire Rated, 24" x 48" x 5/8" Cortega (Nondirectional).
 - c. Suspension System:
 - 1) Exposed T-System, Non-Fire Rated (typical), of cold rolled, electroplated steel with baked enamel "White" paint finish and spring holddown clips, Series DX.
 - 2) Lay-In Fixtures shall be suspended at all four corners as a minimum.
 - d. Accessories: Include 12 gauge galvanized annealed hanger wires, main support runners, cross members, trim angles and support angles at perimeters of ceiling areas, spring holddown clips and other accessories necessary for a complete ceiling installation.
3. INSTALLATION:
 - a. Install ceilings and grid system as shown on the Drawings in accordance with the manufacturer's printed instructions.
 - b. Maximum spacing of hanger wires on carrying channels shall be 4'-0".
 - c. Level carrying channels and main runners to 1/8" in 12".
 - d. When assembled, all parts, metal and acoustical materials shall fit snugly together with no exposed cracks. Exposed support members shall be aligned true with a taut wire.
 - e. Make all junctures with wall and other ceiling surfaces or openings neat and tight fitting.
 - f. Supply one extra box of each type of tile for the Owner's use.

END OF SECTION

09 50 10.10 - VINYL COMPOSITION TILE

1. SCOPE OF THE WORK: Furnish and install Vinyl Composition Tile as specified herein.
2. MATERIALS:
 - a. General: Reference Color Selection Letter for type, color, series and manufacturer.
 - b. Floor Tiles: Shall be vinyl composition, 1/8" thick, 12" x 12" Premium Series, as manufactured by Armstrong, GAF, or Kentile.
 - c. Base: Shall be 1/8" thick, rubber, 2-1/2" high, standard toe, coved, as manufactured by Roppe, GAF Products or approved alternate. All corners shall be premolded. Reference Division 01 for color.
 - d. Underlayment: Shall be trowelled liquid underlayment recommended by tile manufacturer.
 - e. Adhesive: Shall be cold application recommended by tile and base manufacturers.
3. INSTALLATION:
 - a. General: The subsurface preparation and all material installations shall comply with the manufacturer's specifications and requirements.
 - b. Subsurface Preparation: Before installing tile, thoroughly clean the floor of all dirt, dust, grease and other foreign matter. Test the slab for moisture prior to installing the tile. If unacceptable moisture or other conditions are found, report the results to the Owner and the Architect. Installation of the flooring shall be deemed as the Contractor's acceptance of the slab conditions. Use only adhesive manufactured or recommended by the tile manufacturer. Following installation and at completion of the job, thoroughly clean the floor and finish with one coat of wax.
 - c. Tile: Lay tile square with axis of room, unless otherwise shown or directed, with equal cuts on opposite sides of the room. Roll floor thoroughly to eliminate air bubbles.
 - d. Temperature: Do not lay tile if interior temperature is below 70 degrees F.
 - e. Edge Molding: Provide at transitions between vinyl tile and carpet, between vinyl tile and concrete, etc.
 - f. Completion: Following installation and at completion of the job, thoroughly clean the floor and finish with one coat of wax.

END OF SECTION

09 50 11.10 - ROLL CARPET

1. SCOPE OF THE WORK: Furnish and install all Roll Carpet as specified herein.
2. MATERIALS:
 - a. Carpet: Shall be nylon level loop, minimum 28 ounces per square yard finished face weight, woven polypropylene primary and secondary backing and a minimum 64 ounces per square yard total weight.
 - b. Base: Shall be 1/8" thick, rubber, 2-1/2" high, standard toe, coved, manufactured by Roppe, GAF Products, or approved alternate. Reference Division 01 for color.
 - c. Door Mats: At all exterior doors and all doors leading to unfinished areas where carpet runs up to the door, furnish rectangular door mats with sewn border edges in the same carpet as the floor. Size shall be 3'-0" long x door width.
3. INSTALLATION:
 - a. General: All carpet shall be direct glue down. Carpet shall be installed so as to produce a minimum number of seams. Carpet nap shall run in one direction. Inspect surface prior to installation and report problem areas to the Contractor. Installation of material shall be deemed as acceptance of the surfaces. Imperfections in surfaces below the materials reflected through the materials will not be accepted.
 - b. Edge Molding: Provide at transitions between carpet and vinyl tile, carpet and concrete, etc.

END OF SECTION

09 70 10 - PAINTING

1. SCOPE OF THE WORK:
 - a. General: Furnish and install the Painting of all surfaces and equipment as specified herein.
 - b. References and Standards: All references and standards referred to herein shall be the edition referenced in the code specified in the Contract Documents in effect on the date this Project Manual was issued.

2. MATERIALS:
 - a. General: All materials shall be the specified products in the Coating paragraph below as manufactured by Glidden Professional. Products manufactured by Pittsburgh Paints, DuPont and Sherwin Williams are acceptable provided they have the same quality and minimum percentages of solids as the specified products. All colors shall be selected by the Architect. When specific manufacturers and/or colors are specified, either on the Drawings or in a Color Selection Letter (reference Division 01), only those manufacturers and colors shall be used.
 - b. Putty (for use on woodwork): Shall be three parts dry whiting and one part white lead with sufficient linseed oil and drier to produce proper working consistency and setting quality.
 - c. Raw Linseed Oil: ASTM D 260.
 - d. Boiled Linseed Oil: ASTM D 260.
 - e. Turpentine: ASTM D 13.
 - f. Zinc Oxide: ASTM D 79.
 - g. Caulk: Acrylic latex by Tremco, color as selected by the Architect. Apply per the manufacturer's specifications. Caulk shall be used only on the interior of the building and only where specifically noted. Do not use caulk in locations noted to be "sealant" in the Contract Documents.

3. SURFACE PREPARATION:
 - a. General: Prepare all surfaces specified to be painted as recommended by the product manufacturer for the specific application.

4. METHOD OF APPLICATION: All products shall be applied in strict accordance with the manufacturer's instructions per surface as follows, unless otherwise noted in the Contract Documents or approved by the Owner.
 - a. Drywall: Roller.
 - b. Metal: Brush.

5. FILM THICKNESS: All surfaces shall receive a minimum total dry film thickness (DFT) of five mils. However, in all cases, full coverage of the surface being painted is required.

6. COATING: All surfaces shall receive a minimum number of coats per the following schedule. However, in all cases, full coverage of the surfaces and the minimum dry film thickness as specified above shall be required.
 - a. Drywall:
 - 1) Acrylic Latex Flat Paint: First coat shall be ½ Glidden Professional Dulux No. 1000 Primer Sealer and ½ redi-mix drywall compound. Top coat shall be Glidden Professional Dulux Pro Premium 1200 flat wall and ceiling paint.
 - 2) Acrylic Latex Eggshell Paint: First coat shall be 1/2 Glidden Professional Dulux No. 1000 Primer Sealer and 1/2 redi-mix drywall compound. Top coat shall be Glidden Professional Dulux Pro Premium 1402 Eggshell wall and trim paint.
 - 3) Antimicrobial Paint: First coat shall be Portersept with Intersept drywall primer by Porter Paints. Top coat shall be Portersept with Intersept latex semi-gloss vinyl acrylic paint by Porter Paints.

- 4) Texture: The exact texture to be used on interior drywalls shall be selected by the Architect and the Owner from jobsite samples.
 - b. Wood: One coat of Glidden Professional No. 2900 Woodpride Exterior Solventborne Natural Woodtones Deck/Siding Finish. Must comply with VOC requirements.
 - c. Metal:
 - 1) Interior Steel:
 - A) Shop Coat: If required, reference Division 05. If shop coat is not required, the first coat shall be Glidden Professional Devflex 4020 Direct to metal primer and flat finish paint. Top coat shall be Glidden Professional Devflex 4216V High Performance Waterborne Acrylic Semi-Gloss Enamel.
 - B) Galvanized: First coat shall be Glidden Professional Devflex 4020 Direct to metal primer. Top coat shall be Glidden Professional Devflex 4216V High Performance Waterborne Acrylic Semi-Gloss Enamel.
 - C) Dry Fog: One coat of Glidden Professional Spraymaster Pro Uni-Grip-WB Aquacrylic Dryfall Eggshell Primer and Finish No. 1482-1200.
 - 2) Exterior Steel:
 - A) Shop Coat: If required, reference Division 05. If shop coat is not required, the first coat shall be Glidden Professional Devflex 4020 Direct to metal primer and flat finish paint. Top coat shall be Glidden Professional Devflex No. 4216V, High Performance Waterborne Acrylic Semi-Gloss Enamel.
 - B) Galvanized: First coat shall be Glidden Professional Devflex 4020 Direct to metal primer and flat finish paint. Top coat shall be Glidden Professional Devflex No. 4216V, High Performance Waterborne Acrylic Semi-Gloss Enamel.
 - d. Stain: first coat and top coat shall be Glidden Professional Flood TWF-SEMI, semi-transparent wood finish stain.
7. STORAGE: All flammable materials shall be stored and handled as required by all applicable codes, laws, ordinances and regulations. Proper ventilation shall be maintained at all times. A fire extinguisher of suitable chemicals and capacity shall be furnished near all stored and in-use flammable materials.

END OF SECTION

10 20 10.10 - METAL TOILET COMPARTMENTS

1. SCOPE OF THE WORK: Furnish and install all Metal Toilet Compartments as specified herein.
2. MATERIALS:
 - a. General: Shall be floor supported Type "Regal" by Global Steel Products Corporation. Acceptable alternate manufacturers shall be All American Metal Corporation and American Sanitary Partition Corporation.
 - b. Compartment: Shall be floor supported (without overhead brace or "header" bar) with clear depth of 60" minimum. Doors and partitions shall be 22 gauge steel, and pilasters shall be 20 gauge steel. Doors shall be 2'-0" wide, typical. Doors on compartments required to be accessible by the physically handicapped must be a **minimum 33" clear** but in all cases shall comply with all applicable Federal, State and local codes.
 - c. Finish: Baked enamel, color as selected by the Architect.
 - d. Hardware and Fittings: Wall and panel connecting brackets shall be heavy gauge stainless steel with satin finish. All screw and bolt heads shall match. Shoes for pilasters shall be one piece stainless steel trim at least 3" high. Doors shall have chrome plated brass hinges, gravity pivot assembly, strike bumper stop and lever type handle which complies with handicap accessibility laws. Mount rubber tipped coat hook and bumper on door at 47" above finish floor.
3. INSTALLATION:
 - a. General: Install system per manufacturer's specifications and approved shop drawings. Use toggle bolts to secure mount brackets in all hollow partitions. Attach all hardware and fittings with tamperproof fasteners.
 - b. Doors: All doors on stalls shall stand 3" ajar except doors on handicap accessible stalls which shall be self closing and shall close completely.

END OF SECTION

10 30 10 - TOILET ACCESSORIES

1. SCOPE OF THE WORK: Furnish and install all Toilet Accessories as specified herein.
2. MATERIALS:
 - a. General: All Toilet Accessories specified herein shall be manufactured by Bobrick. All mounting heights and locations shall comply with A.D.A., City and State handicap codes. Provide all blocking and wall bracing/strengthening as required.
 - b. Approved Alternate Manufacturers: Products manufactured by American Specialties, Inc., General Accessory Manufacturing Co., McKinney/Parker or alternate manufacturers approved as specified in Division 00 may be used if they are similar in appearance and quality to those specified as determined by the Architect.
 - c. Towel Combination Dispenser and Disposal Unit: Shall be B-3944, recessed with adapter for any fold towel and stainless insert. Mount dispenser at 48" A.F.F. maximum. Use B-3942, semi-recessed if the wall stud is less than 3-5/8".
 - d. Toilet Tissue Holder: Shall be B-685, mount centerline at 1'-7" A.F.F. Provide one at each water closet.
 - e. Counter Mounted Soap Dispenser: Shall be B-82216. Provide one at each counter mounted lavatory.
 - f. Feminine Napkin Disposal: Shall be B-270. Provide one at each water closet. Mount top at 2'-0" A.F.F.
 - g. Grab Bars:
 - 1) At Rear Wall at Handicap Water Closet: Shall be B-5806, (36"). Mount at 2'-10-1/2" A.F.F. to the top of the gripping surface.
 - 2) At Sidewall at Handicap Water Closet: Shall be B-5806, (42"). Mount at 2'-10-1/2" A.F.F. to the top of the gripping surface. Mount front of bar at 54" from rear wall, reference Drawings.
3. INSTALLATION:
 - a. General: Install in accordance with the manufacturer's specifications.
 - b. Blocking and Bracing: Furnish and install all blocking and bracing or strengthening required for the item to be installed.

END OF SECTION