

**SECTION 00030**

**ADVERTISEMENT FOR BIDS**

Sealed proposals will be received by Tuscola County for Remodeling Probate Court located at Tuscola County Courthouse, Caro, Michigan.

Bids are to be addressed to Mike Hoagland, and will be received until **2:00 p.m. local time on March 18, 2011, at the following:**

**Tuscola County**  
125 W. Lincoln  
Caro, Michigan 48723

at which time and place bids will be opened publicly and read aloud.

A single combined proposal will be received for all the work of the trades. Bid documents will be available via the County web site. Contact Mike Miller at (989) 672-3756 for information on how to review/receive the documents.

A performance bond and labor and material payment bonds, as described in the Instructions to Bidders are required for bids over \$50,000.00 in the amounts as detailed in Section 00610 - Performance Bond, Labor and Material Bond.

The bid documents, including plans and specifications, are on file at the following locations:

**ARCHITECT'S OFFICE**  
TSSF Architects, Inc.  
122 N. Washington Ave.  
Saginaw, Michigan 48607  
(989) 752-7311

All other requirements for bidding are detailed in the Instructions to Bidders and Supplementary Instructions to Bidders.

## SECTION 00150

### SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

#### PART I GENERAL

##### 1.1 INTRODUCTION

The following supplements modify, change, delete from or add to the instructions to Bidders, AIA Document A701, 1997 Edition. Where any Article of the Instructions to Bidders is modified or any paragraph, subparagraph or clause thereof is modified by these supplements, the unaltered provisions of that Article, paragraph, subparagraph, or clause shall remain in effect.

##### 1.2 BIDDING

- A. Bids are to be addressed to and will be received at the place, until the time, and in the manner indicated in the Advertisement for Bids. Proposals received after the time specified will be returned unopened.
- B. Bids shall be submitted as stated on proposal forms furnished by the Architect and shall be completely executed in strict accordance with the bid documents. No telephonic bids will be accepted.
- C. Prior to the execution of the contract, the successful Trades Contractor shall furnish a certificate of insurance covering their own work.
- D. Interpretation of plans and specifications: Any person contemplating submittal of a bid for the proposed contract who is in doubt about the true meaning of any part of the plans and/or specifications must submit an interpretation request to the Architect, structural, mechanical or electrical engineers designed. It is intended that any item of work or material shown on plans or listed in specifications shall be the responsibility of the respective contractors to provide and install, with the exception of specific items indicated to be provided by one contractor and installed by a different contractor. Questions regarding responsibility shall be clarified prior to bid date.
- E. All bidders are expected to respond to any alternate listed on the proposal form. Bidders are also advised that only those alternates listed on the proposal form will be accepted for consideration in determining the low bidder, and that bidder-originated alternates will not be considered at this time. In general, the order in which alternates are listed on the proposal form is the order in which they will be evaluated for acceptance.
- F. Any addenda issued prior to receipt of bids are to be included in the proposal, and will become part of the contract. Bidders must acknowledge on bid form all addenda received. Failure of a bidder to receive any addendum shall not release the bidder from any obligations under his bid, provided said addendum was sent by U.S. mail or United Parcel Service to the address furnished by the bidder.
- G. Sales Tax: The state sales tax in the State of Michigan is applicable to the construction of this project.
- H. Bidders will note that any salvage from operations under this contract shall belong to the Owner, with the Owner having discretion as to retention of any or all salvage material. It shall be the responsibility of the respective contractors to remove and dispose of off site, as

they see fit, any salvage not desired by the Owner. Contractors and subcontractors shall check with Owner or Architect for allocation of any salvage items.

- I. The Owner reserves the right to accept or reject any or all proposals or to waive any informalities therein.
- J. The Owner will evaluate proposals and make an award within 60 days of bid due date, during which time bids may not be withdrawn by bidders.

**PART 2 PRODUCTS**

Not Used

**PART 3 EXECUTION**

Not Used

**END OF SECTION**

SECTION 00300

PROPOSAL FORM

Date \_\_\_\_\_

Name of Bidder \_\_\_\_\_

TO: Tuscola County  
Attn: Mike Hoagland  
125 W. Lincoln Street  
Caro, MI 48723

PROPOSAL FOR: Probate Court  
Tuscola County Courthouse  
Caro, MI 48723

1. **BASE BID/ADDENDA**

The undersigned has carefully examined the bidding and contract documents including the Instructions to Bidders, Agreement Between Owner and Contractor, General Conditions, Supplementary Conditions, Contract Requirements, General Requirements, Specifications, Drawings, and any and all Addenda issued, and has familiarized himself with all local conditions to be encountered affecting the cost of the work and does hereby propose to perform all work and to furnish all of the labor, materials, tools, equipment and services necessary to complete the contract in connection with the above project, all in accordance with the contract documents prepared by TSSF Architects, including the following addenda.....

Addendum No. \_\_\_\_\_, Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_, Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_, Dated \_\_\_\_\_

for the following BASE BID AMOUNT:

\_\_\_\_\_ Dollars  
(Bid in words)

\$ \_\_\_\_\_  
(Bid in figures)

3. **STARTING and COMPLETION DATES:** The undersigned agrees, if awarded the contract, that he will commence the work within ten (10) calendar days after the Owner gives the Bidder notice to commence the work, and shall complete the entire work within the following calendar days after the date of issuance of the notice to commence the work.

4. **FEEES FOR ADDITIONAL WORK - TO BE COMPLETED BY THE BIDDER:**  
For additional work performed upon instructions of the Owner by work forces of the undersigned, the charges shall be the actual cost of all labor and materials (less all discounts) plus a fee of 10% percent, which includes all charges of the undersigned for overhead, profit, etc.

**6. ADDRESS, LEGAL STATUS and SIGNATURE OF BIDDER**

The undersigned bidder does hereby designate the information given below as the legal name and address to which all notices, directions, or other communications may be served or mailed.

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE NUMBER: ( ) \_\_\_\_\_ FAX NUMBER: ( ) \_\_\_\_\_

The undersigned bidder does hereby declare that the bidder has the legal status checked below:

\_\_\_\_\_ Individual

\_\_\_\_\_ Co-partnership

\_\_\_\_\_ Corporation incorporated under the laws of the State of \_\_\_\_\_

If a Corporation,  
affix corporate seal here

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

**Note:** If Bid Form is signed by an Agent, attach a certified Power of Attorney

**NOTE:** Submit two (2) copies of this proposal unless otherwise instructed.

**SECTION 00500**

**AGREEMENT BETWEEN OWNER AND CONTRACTOR**

**PART 1 GENERAL**

**1.1 AGREEMENT FORM**

- A. Agreement between Owner and Contractor will be AIA Document A101, Standard Form of Agreement Between Owner and Contractor, 1997 Edition.

**1.2 RELATED SECTIONS**

- A. Section 00300 - Proposal Form
- B. Section 00650 - Insurance Requirements
- C. Section 00700 - General Conditions of the Contract
- D. Section 00750 - Supplementary Conditions

**PART 2 PRODUCTS**

Not Used

**PART 3 EXECUTION**

Not Used

**END OF SECTION**

**SECTION 00610**

**PERFORMANCE BOND, LABOR AND MATERIAL BOND**

**PART 1 GENERAL**

**1.1 BONDS REQUIRED**

- A. The successful Contractor, shall within fifteen (15) days after acceptance of his proposal, furnish a Performance Bond, in an amount equal to one hundred percent (100%) of the contract sum as security for the faithful performance of this contract and also a Labor and Material Payment Bond in an amount not less than one hundred percent (100%) of the contract sum as security for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract.
- B. Cost of said bonds shall be included as a part of the Base Bid.
- C. The Contractor shall obtain such bonds in a manner consistent with Michigan law.
- D. Bonds signed by Attorney-In-Fact must be accompanied by a certified and effectively dated copy of their Power of Attorney.

**1.2 RELATED SECTIONS**

- A. Section 00500 - Agreement Between Owner and Contractor
- B. Section 00700 - General Conditions of the Contract
- C. Section 00750 - Supplementary Conditions

**PART 2 PRODUCTS**

Not Used

**PART 3 EXECUTION**

Not Used

**END OF SECTION**

**SECTION 00650**

**INSURANCE REQUIREMENTS**

**PART 1 GENERAL**

**1.1 INSURANCE REQUIREMENTS**

- A. Certificates of Insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the work. Certificates shall contain a provision that coverages afforded under the policies will not be modified or canceled until at least 30 days prior written notice has been given to the Owner. Submit two copies of each certificate to the Architect. Furnish to the Architect copies of any endorsements that are subsequently issued amending coverage or limits.
- B. All insurance shall be carried with companies which are financially responsible. If any such insurance is due to expire during the term of the Contract, the Contractor shall not permit the coverage to lapse and shall furnish evidence of continuing coverage to the Architect/Owner.
- C. Workmen's Compensation: As required by all applicable Federal and State laws, including Employer's Liability with a limit of at least \$100,000.00.
- D. Comprehensive General Liability: Including Contractor's Liability, Contingent Liability, Contractual Liability, Elevator Liability, Products including Completed Operations, all on occurrence basis with Personal Injury Coverage and Broad Form Property Damage. Including CCU related to Explosion, Collapse and Underground Property Damage. Products, including Completed Operations Liability shall be kept in force for at least 2 years after date of final completion.
- E. Contractor's Liability Insurance, including Contractual Liability (Comprehensive General Liability Form):

**Minimum Coverage**

<b>Bodily Injury:</b>	
Each Occurrence	\$1,000,000.00
Aggregate	\$2,000,000.00
<b>Property Damage:</b>	
Each Accident	\$1,000,000.00
Aggregate	\$2,000,000.00
Fire Damage	\$ 50,000.00
Medical Expenses	\$ 5,000.00

- F. Comprehensive Automobile Liability: including non-ownership and hired car coverage as well as vehicles.

**Minimum Coverage**

<b>Bodily Injury and Death:</b>	
Each Person	\$1,000,000.00
Each Occurrence	\$1,000,000.00
<b>Property Damage:</b>	
Each Occurrence	\$1,000,000.00

G. Umbrella Liability

Each Occurrence	\$2,000,000.00
Aggregate	\$2,000,000.00

H. Worker's Compensation and Employer's Liability

Each Accident	\$100,000.00
Disease - Policy Limit	\$500,000.00
Disease - Each Employee	\$100,000.00

- I. Contractor's insurance shall include coverage for liability assumed by Contractor under General Conditions A201, Paragraph 4.18, indemnification of General Conditions.
- J. The Contractor shall furnish Owner with Certificates of Insurance showing by specific reference that each of the foregoing items has been provided. Furnish three copies of Certificate of Insurance, using AIA Document G705.
- K. Owner's Insurance: The Owner shall carry fire, extended coverage, hydrostatic coverage, vandalism and malicious mischief insurance in the "completed value" form in an amount equal to full insurable value of the work including theft. Owner's insurance to be broad form Builder's Risk, naming Owner and all prime contractors as additional insured.

1.2 RELATED SECTIONS

- A. Section 00500 - Agreement Between Owner and Contractor
- B. Section 00700 - General Conditions of the Contract
- C. Section 00750 - Supplementary Conditions

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION

## SECTION 00700

### GENERAL CONDITIONS OF THE CONTRACT

#### PART 1 GENERAL

##### 1.1 GENERAL CONDITIONS

- A. The 1997 edition of the AIA General Conditions of the Contract for Construction (AIA Document A-201) as amended by the Supplementary Conditions, is hereby made a part of this Contract and shall be as fully binding on all contractors and subcontractors as if bound herein.
- B. This document may be inspected at the office of the Architect.

##### 1.2 RELATED REQUIREMENTS

- A. Section 00300 - Proposal Form
- B. Section 00500 - Agreement Between Owner and Contractor
- C. Section 00650 - Insurance Requirements
- D. Section 00750 - Supplementary Conditions

##### 1.3 CONTRACTOR'S RESPONSIBILITY

- A. Prior to the beginning of construction, the Contractor shall acquaint each contractor, subcontractor, superintendent of construction, foreman, workman, supplier, or others who are or will be responsible for the execution of any section or trade under this contract with all provisions of the Conditions of the Contract (General, Supplementary and other conditions), the drawings, the specifications, all addenda issued prior to bid, and all modifications issued after execution of the contract.

#### PART 2 PRODUCTS

Not Used

#### PART 3 EXECUTION

Not Used

END OF SECTION

## SECTION 00750

### SUPPLEMENTARY CONDITIONS

#### INTRODUCTION

- A. The following supplements modify the "General Conditions of the Contract for Construction", AIA Document A-201, 1997 Edition. Where a portion of the General Conditions is modified or any paragraph, subparagraph or clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that Article, paragraph, subparagraph, or clause shall remain in effect.
- B. The following supplements are set forth under the title of the respective Articles to which they relate.

#### ARTICLE 1 - GENERAL PROVISIONS

##### 1.2 Correlation and Intent of the Contract Documents

Add the following paragraph:

- 1.2.4 In the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following priorities:
1. The Agreement.
  2. Addenda, with those of later date having precedence over those of earlier date.
  3. The Supplementary Conditions.
  4. The General Conditions of the Contract for Construction.
  5. Drawings and Specifications.

In the case of an inconsistency between Drawings and Specifications or within other Document not clarified by addendum, the better quality or greater quality of Work shall be provided in accordance with the Architect's interpretation.

#### ARTICLE 3 - CONTRACTOR

##### 3.4 Labor and Materials

Add the following clauses 3.4.2.1 and 3.4.2.2 to 3.4:

- 3.4.2.1 After the Contract has been executed, the Owner and the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements. (Division 1 of the specifications).
- 3.2.2 By making requests for substitution based on Clause 3.4.2.1 above, the Contractor:
1. represents that he has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified;
  2. represents that he will provide the same warranty for the substitution that he would for that specified;

3. certifies that the cost data presented is complete and includes all related costs under this Contract but excludes costs under separate contracts, and excludes the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and
4. will coordinate the installation of the accepted substitute, making such changes as may be required for the work to be complete in all respects.

### **3.9 Superintendent**

Add the following clause:

- 3.9.1 Superintendent shall be present on site during performance of all contracts and supervise all operations being performed. (Bid Category #6 Carpentry & General Trades)

## **ARTICLE 5 - SUBCONTRACTORS**

### **5.2 Award of Subcontracts and Other Contracts for Portions of the Work**

Add the following subparagraph 5.2.1.1 to 5.2.1:

- 5.2.1.1 Not later than 14 days after the date of commencement, the Contractor shall furnish in writing to the Owner through the Architect the names of persons or entities proposed as manufacturers for each of the products identified in the General Requirements (Division 1 of the Specifications) and where applicable, the name of the installing Subcontractor.

## **ARTICLE 8 - TIME**

### **8.2 Progress and Completion**

Add the following subparagraph 8.2.4 to 8.2:

- 8.2.4 The penalty for non-compliance by the above-stated completion date shall be suspension of all further payments on the Contract until completion of the work and acceptance of same by the Owner. Said penalty shall be invoked unless an extension of time has been granted due to strikes or other causes beyond the Contractor's control, as stated in Article 8.3. The Construction Manager shall be the judge in matters concerning the application of the stated penalty for failure to complete contract work on time.

## **ARTICLE 9 - PAYMENTS**

### **9.3 Application for Payment**

Add the following sentence to Subparagraph 9.3.1:

- 9.3.1 The form of Application for Payment shall be a Company Invoice including a brief description of work completed.

Add the following clauses 9.3.1.3 and 9.3.1.4 to 9.3.1:

- 9.3.1.3 Until final payment, the Owner will pay 90 percent of the amount due the Contractor on account of progress payments. If the manner of completion of the Work and its progress are and remain satisfactory to the Construction Manager, and in the absence of other good and sufficient reasons, for each Work category shown to be 50 percent or more complete in the Application for

Payment, the Architect will, without reduction of previous retainage (on presentation by the Contractor of Consent of Surety for each application), certify any remaining progress payments for each Work category to be paid in full.

- 9.3.1.4 The full contract retainage may be reinstated if the manner of completion of the Work and its progress do not remain satisfactory to the Construction Manager or for other good and sufficient reasons.

## **ARTICLE 11 - INSURANCE**

### **11.1 Contractor's Liability Insurance**

Add the following subparagraphs:

- 11.1.1.9 Liability Insurance shall include all major divisions of coverage and be on a comprehensive basis including:

1. Premises Operations (including X, C and U coverages as applicable)
2. Independent Contractor's Protective
3. Products and Completed Operations
4. Personal Injury Liability with Employment Exclusion deleted
5. Contractual, including specified provision for Contractor's obligation under Paragraph 3.18
6. Owned, non-owned and hired motor vehicles
7. Broad Form Property Damage including Completed Operations

- 11.1.1.10 If the General Liability coverages are provided by a Commercial General Liability Policy on a claims-made basis, the policy date or Retroactive Date shall predate the Contract; the termination date of the policy or applicable extended reporting period shall be no earlier than the termination date of coverages required to be maintained after final payment, certified in accordance with subparagraph 9.10.2.

Add the following clause 11.1.2.1 to 11.1.2:

- 11.1.2.1 The insurance required by Subparagraph 11.1.1 shall be written for not less than the following limits, or greater if required by law: Refer to AIA Document G610 (Part B) Owner's Instructions for Bonds and Insurance, included under Section 00650 - Insurance Requirements.

- 11.1.3 Add the following sentence to Subparagraph 11.1.3:

If this insurance is written on the Comprehensive General Liability policy form, the Certificates shall be AIA Document G705, Certificate of Insurance. If this insurance is written on a Commercial General Liability policy form, ACORD form 25S will be acceptable.

END OF SECTION

**SECTION 00800**

**DRAWING INDEX**

**PART 1 GENERAL**

**1.1 DRAWING INDEX**

Cover Sheet

- A1.0 Demolition Plan, Demolition Notes, Key Notes, Salvage Schedule and Specifications
- A2.0 Floor Plan, Door/Finish Schedules, Door/Frame Types, Interior Elevations, Misc. Details
- A3.0 Reflected Ceiling Plan, Door Details, Misc. Details
  
- E1.1 Electrical Specifications
- E2.1 Electrical Plans
  
- M1.1 Mechanical Plans
- M3.1 Mechanical Schedules, Specifications

**END OF SECTION**

## SECTION 01001

### BASIC REQUIREMENTS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

###### A. Summary:

1. Contract description.
2. Work by Owner.
3. Contractor's use of premises.
4. Future work.
5. Specification conventions.

###### B. Price and Payment Procedures:

1. Schedule of values.
2. Applications for payment.
3. Change procedures.
4. Unit prices.
5. Alternates.

###### C. Administrative Requirements:

1. Coordination.
2. Field engineering.
3. Meetings.
4. Progress meetings
5. Equipment electrical characteristics and components.
6. Cutting and patching.

###### D. Submittals:

1. Submittal procedures.
2. Construction progress schedules.
3. Proposed products list.
4. Product data.
5. Samples.
6. Manufacturer's instructions.
7. Manufacturer's certificates.

###### E. Quality Requirements:

1. Quality control.
2. Tolerances.
3. References.
4. Manufacturer's field services and reports.
5. Examination.
6. Preparation.

###### F. Temporary Facilities and Controls:

1. Temporary electricity.
2. Temporary lighting for construction purposes.
3. Temporary heating and cooling.
4. Temporary ventilation.
5. Temporary water service.

6. Temporary sanitary facilities.
7. Field offices and sheds.
8. Access roads.
9. Parking.
10. Progress cleaning and waste removal.
11. Project identification.
12. Barriers and fencing.
13. Enclosures.
14. Protection of installed work.
15. Security.
16. Water control.
17. Pollution and environmental control.
18. Removal of utilities, facilities, and controls.

G. Product Requirements:

1. Products.
2. Delivery, handling, storage, and protection.
3. Product options.
4. Substitutions.

H. Execution Requirements:

1. Closeout procedures.
2. Final cleaning.
3. Starting of systems.
4. Demonstration and instructions.
5. Testing, adjusting and balancing.
6. Protecting installed construction.
7. Project record documents.
8. Operation and maintenance data.
9. Spare parts and maintenance materials.
10. Warranties.

1.2 CONTRACT DESCRIPTION

- A. Perform Work of Contract under a fixed cost contract with Owner in accordance with Conditions of Contract.

1.3 WORK BY OWNER

- A. Contractor(s) shall coordinate work being contracted directly by owner including:
1. Phone system
  2. Cable TV system
  3. Data System

1.4 CONTRACTOR'S USE OF PREMISES

- A. Limit use of premises to allow:
1. Work by others and work by Owner.

## 1.5 SPECIFICATION CONVENTIONS

- A. The specifications are written in imperative mood and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words "shall be" are included by inference where a colon (:) is used within sentences or phrases.

## 1.6 APPLICATIONS FOR PAYMENT

- A. Company Invoice with progress description.
- B. Payment Period: Monthly

## 1.7 CHANGE PROCEDURES

- A. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation.

## 1.8 COORDINATION

- A. Coordinate scheduling, submittals, and Work of various sections of specifications to ensure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirement characteristics of operating equipment are compatible with building utilities.
- C. Coordinate space requirements and installation of mechanical and electrical work indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable.
- D. In finished areas, conceal pipes, ducts, and wiring within construction.

## 1.9 FIELD ENGINEERING

- A. Employ experienced instrument technician to locate reference datum and protect survey control and reference points.
- B. Establish elevations, lines, and levels and certify elevations and locations of the Work conform with Contract Documents.
- C. Verify field measurements are as indicated on shop drawings or as instructed by manufacturer.

## 1.10 PRECONSTRUCTION, SITE MOBILIZATION, PREINSTALLATION MEETINGS

- A. Contractor will schedule preconstruction, site mobilization, meeting after Notice of Award for affected parties.

## 1.11 PROGRESS MEETINGS

- A. Contractor shall schedule and administer meetings throughout progress of the Work at maximum (2) week intervals.
- B. Contractor shall preside at meetings, record minutes, and distribute copies within two days to those affected by decisions made.

## 1.12 EQUIPMENT ELECTRICAL CHARACTERISTICS AND COMPONENTS

- A. Motors: NEMA MG1 Type; specific motor type is specified in individual specification sections.
- B. Wiring Terminations: Terminal lugs to match branch circuit conductor; size terminal lugs to NFPA 70.
- C. Cord and Plug: Minimum 6 foot cord and plug including grounding connector; cord of longer length is specified in individual sections.

## 1.13 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching new Work; restore Work with new Products.
- B. Submit written request in advance of cutting or altering structural or building enclosure elements.
- C. Execute cutting, fitting, and patching including excavation and fill, to complete Work, and to:
  - 1. Fit several parts together, to integrate with other Work.
  - 2. Uncover Work to install or correct ill-timed Work.
  - 3. Remove and replace defective and non-conforming Work.
  - 4. Remove samples of installed Work for testing.
  - 5. Provide openings in elements of Work for penetrations of mechanical and electrical Work.
- D. Cut masonry and concrete materials using masonry saw or core drill. Restore Work with new Products in accordance with requirements of Contract Documents.
- E. Fit Work tight to adjacent elements. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- F. Fit Work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- G. Refinish surfaces to match adjacent finishes.

## 1.14 SUBMITTAL PROCEDURES

- A. Submittal form to identify Project, Contractor, subcontractor or supplier; and pertinent Contract Document references.
- B. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.
- C. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of completed Work.
- D. Revise and resubmit submittals as required; identify changes made since previous submittal.

## 1.15 PRODUCT DATA

- A. Product Data:
  - 1. Submitted to Architect/Engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.

2. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents purposes as specified.
- B. Submit number of copies which Contractor requires, plus two copies which will be retained by Architect/Engineer.
  - C. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturer's standard data to provide information unique to this project.

#### 1.16 SAMPLES

- A. Samples for Review:
  1. Submitted to Architect/Engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
  2. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents purposes as specified.
- B. Samples For Selection:
  1. Submitted to Architect/Engineer for aesthetic, color, or finish selection.
  2. Submit samples of finishes from full range of manufacturer's standard colors, textures, and patterns for Architect/Engineer selection.
  3. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents purposes as specified.
- C. Submit samples to illustrate functional and aesthetic characteristics of Product.
- D. Submit samples of finishes from full range of manufacturer's standard colors, textures, and patterns for Architect/Engineer's selection.

#### 1.17 MANUFACTURER'S INSTRUCTIONS

- A. Submit manufacturer printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data.

#### 1.18 MANUFACTURER'S CERTIFICATES

- A. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

#### 1.19 QUALITY CONTROL

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturer's instructions.
- C. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

#### 1.20 TOLERANCES

- A. Monitor fabrication and installation tolerance control of installed Products over suppliers, manufacturers, Products, site conditions, and workmanship, to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply fully with manufacturer's tolerances.

#### 1.21 REFERENCES

- A. Conform to reference standards by date of issue current as of date of Contract Documents.
- B. When reference standard conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

#### 1.22 EXAMINATION

- A. Verify existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify utility services are available, of correct characteristics, and in correct location.

#### 1.23 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

#### 1.24 TEMPORARY ELECTRICITY

- A. Electrical Contractor to coordinate temporary electricity services as required for construction of the project.
- B. Provide power outlets for construction operations, branch wiring, distribution boxes, and flexible power cords as required.
- C. Provide no disruption of power to ongoing operations.

#### 1.25 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

Electrical Contractor to:

- A. Provide and maintain temporary lighting for construction operations.
- B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- C. Permanent building lighting may be utilized during construction. Repair, clean, and replace lamps at end of construction.

#### 1.26 TEMPORARY HEATING AND COOLING

HVAC Contractor to:

- A. Provide heating and cooling devices and heat as needed to maintain specified conditions for construction operations and ongoing credit union operations.
- B. Cost of energy to be by Owner.
- C. Provide and pay for maintenance, and regular replacement of filters and worn or consumed parts.
- D. Maintain minimum ambient temperature of 65 degrees F in areas where construction is in progress, unless indicated otherwise in specifications. 70 degrees for areas occupied by credit union employees.

#### 1.27 TEMPORARY VENTILATION

- A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

#### 1.28 TEMPORARY WATER SERVICE

- A. Plumbing Contractor to provide suitable water as required for construction of project.

#### 1.29 TEMPORARY SANITARY FACILITIES

- A. Utilize existing in building.

#### 1.30 PARKING

- A. Arrange for parking areas to accommodate construction personnel at Owner's direction.

#### 1.31 PROGRESS CLEANING AND WASTE REMOVAL

- A. Collect and maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.

#### 1.32 BARRIERS AND FENCING

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage.
- B. Construction: Contractor's option.

#### 1.33 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Prohibit traffic or storage upon waterproofed or roofed surfaces.

#### 1.34 SECURITY

- A. Maintain secure facility throughout construction period to protect Work and Owner's operations from unauthorized entry, vandalism, or theft.

### 1.35 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion review.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

### 1.36 PRODUCTS

- A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work.
- B. Do not use materials and equipment removed from existing premises, except as specifically identified or allowed by the Contract Documents.
- C. Provide interchangeable components of same manufacture for components being replaced.

### 1.37 DELIVERY, HANDLING, STORAGE, AND PROTECTION

- A. Deliver, handle, store, and protect Products in accordance with manufacturer's instructions.

### 1.38 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Any Product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Products of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with Provision for Substitutions: Submit request for substitution for manufacturers not named.

### 1.39 SUBSTITUTIONS

- A. Substitutions will only be considered when Product becomes unavailable through no fault of Contractor.
- B. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.

### 1.40 CLOSEOUT PROCEDURES

- A. Submit written certification Contract Documents have been reviewed, Work has been inspected, and Work is complete in accordance with Contract Documents and ready for Architect/Engineer's inspection.
- B. Submit final Application for Payment identifying total adjusted Contract Sum/Price, previous payments, and amount remaining due.

#### 1.41 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.
- B. Clean interior and exterior surfaces exposed to view. Vacuum carpeted and soft surfaces.
- C. Clean debris from site, roofs, gutters, downspouts, and drainage systems.
- D. Replace filters of operating equipment.
- E. Remove waste and surplus materials, rubbish, and construction facilities from site.

#### 1.42 STARTING OF SYSTEMS

- A. Provide seven days notification prior to start-up of each item.
- B. Ensure each piece of equipment or system is ready for operation.
- C. Execute start-up under supervision of responsible persons in accordance with manufacturer's instructions.
- D. Submit written report stating equipment or system has been properly installed and is functioning correctly.

#### 1.43 DEMONSTRATION AND INSTRUCTIONS

- A. Demonstrate operation and maintenance of Products to Owner's personnel two weeks prior to date of final review.
- B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- C. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at agreed-upon times, at designated location.

#### 1.44 PROTECTING INSTALLED CONSTRUCTION

- A. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- B. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- C. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- D. Prohibit traffic from landscaped areas.

#### 1.45 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of Contract Documents to be utilized for record documents.

- B. Record actual revisions to the Work. Record information concurrent with construction progress.
- C. Specifications: Legibly mark and record at each Product section description of actual Products installed.
- D. Record Documents and Shop Drawings: Legibly mark each item to record actual construction.
- E. Submit documents to Architect/Engineer with claim for final Application for Payment.

#### 1.46 OPERATION AND MAINTENANCE DATA

- A. Submit two sets prior to final inspection, bound in 8-1/2 x 11 inch text pages, three D side ring binders with durable plastic covers.
- B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS" and title of project.
- C. Internally subdivide binder contents with permanent page dividers, logically organized, with tab titles legibly printed under reinforced laminated plastic tabs.
- D. Contents:
  - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, subcontractors, and major equipment suppliers.
  - 2. Part 2: Operation and maintenance instructions, arranged by system.
  - 3. Part 3: Project documents and certificates.

#### 1.47 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Provide Products, spare parts, maintenance and extra materials in quantities specified in individual specification sections.
- B. Deliver to Project site and place in location as directed by Owner; obtain receipt prior to final payment.

#### 1.48 WARRANTIES

- A. One year on all materials and labor unless otherwise exceeded by contractor or manufacturer.
- B. Execute and assemble transferable warranty documents from subcontractors, suppliers, and manufacturers.
- C. Submit prior to final Application for Payment.

#### PART 2 PRODUCTS

Not Used.

#### PART 3 EXECUTION

Not Used.

END OF SECTION



# GENERAL DEMOLITION NOTES

1. NOTIFY THE ARCHITECT IN WRITING OR ANY DISCREPANCIES IN EXISTING CONDITIONS THAT MAY ALTER THE CONSTRUCTION PRIOR TO COMMENCING DEMOLITION / CONSTRUCTION.
2. CONTRACTOR TO REVIEW ALL DRAWINGS AND NOTES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ADDITIONAL INFORMATION REQUIRED FOR THE PROPER COMPLETION OF PROJECT BEFORE SUBMITTING A BID AND UNDERTAKING CONSTRUCTION.
3. DAMAGE TO EXISTING DUCTWORK TO REMAIN SHALL BE REPAIRED.
4. EXISTING STRUCTURE (COLUMNS, BEAMS, GIRTS, ETC., DOOR HEADERS, JAMBS, ETC.) TO BE PROTECTED DURING THE DEMOLITION PROCESS (UNO).
5. REMOVE AND DISPOSE OF TEMPORARY PROTECTION AS REQUIRED FOR NEW CONSTRUCTION.
6. ALL MATERIALS ARE EXISTING UNLESS NOTED OTHERWISE.
7. MECHANICAL, ELECTRICAL ITEMS TO BE DEMOLISHED SHALL BE BY THE RESPECTIVE TRADE CONTRACTOR.
8. LOOSE FURNITURE, EQUIPMENT SHALL BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.
9. FOR ADDITIONAL ITEMS TO BE DEMOLISHED SEE COMPLETE MECHANICAL, ELECTRICAL, CIVIL DRAWINGS.
10. ITEM INDICATED THIS TO BE REMOVED. 
11. REMOVE ALL ABANDONED ANCHORS E.T.C.
12. SEE SALVAGE SCHEDULE FOR A LIST OF ITEMS TO BE CAREFULLY REMOVED AND STORED

# DEMOLITION KEY NOTES

- 1 REMOVE CARPET, BASE, ADHESIVE RESIDUE AS REQUIRED FOR NEW FIN. FLR.
- 2 REMOVE WALL CONSTRUCTION - EXISTING CONSTRUCTION. HOLLOW CLAY TILE FLOOR TO CONC. DECK ABOVE WITH PLASTER BOTH SIDES
- 3 REMOVE WALL CONSTRUCTION - EXISTING CONSTRUCTION. GYP. BD. / STUD CONSTRUCTION FLOOR TO CEILING (V.F. HEIGHT)
- 4 REMOVE DOOR - SEE SALVAGE SCHEDULE
- 5 REMOVE DOOR CASING / TRIM, TRANSOM, E.T.C. - SEE SALVAGE SCHEDULE
- 6 REMOVE DOOR HARDWARE
- 7 EXISTING DOOR TO REMAIN
- 8 REMOVE COUNTERTOP, BASE CABINET, JUDGES BENCH, PODIUM, BOOK SHELF - SEE SALVAGE SCHEDULE
- 9 REMOVE RAISED FLOOR SYSTEM
- 10 REMOVE CEILING SYSTEM INCLUDING COVE / CROWN
- 11 REMOVE DIVIDER
- 12 REMOVE SUPPLY DIFFUSER / TRANSFER GRILLES - SEE SALVAGE SCHEDULE
- 13 REMOVE CLOCK - SEE SALVAGE SCHEDULE
- 14 REMOVE DATA RACK - SEE SALVAGE SCHEDULE
- 15 REMOVE BENCHES - SEE SALVAGE SCHEDULE
- 16 REMOVE EXISTING EQUIPMENT BY OWNER
- 17 EXISTING SYSTEM FURNITURE TO BE REMOVED BY OWNER
- 18 REMOVE WALL PAPER BORDER
- 19 EXISTING SYSTEM FURNITURE TO BE MODIFIED BY OWNER
- 20 SANGUIT EXISTING REINF. CONC. VAULT AS REQ'D FOR NEW CONSTRUCTION
- 21 EXISTING COUNTER SYSTEM FURNITURE WALL WALL TO REMAIN, REMOVE GLASS & FRAME - SEE SALVAGE SCHEDULE
- 22 REMOVE MARLE SILL
- 23 REMOVE FIN TUBE RADIATION COVERS BELOW WINDOWS

# SALVAGE SCHEDULE

- A JUDGES BENCH - 2'-4" x 6'-0"
- B COURT ROOM BENCHES - 1'-1" x 10'-0"
- C TRANSFER GRILLES - 20" x 20" SUPPLY DIFFUSER (WALL)
- D WOOD PANEL DOOR - 3'-4" x 6'-8" WD. TRIM
- E PANEL DOOR - 3'-0" x 6'-8" WD. TRIM AND HARDWARE INCLUDING BUZZER SYSTEM
- F PODIUM - FREESTANDING, WOOD
- G DATA RACK RELOCATE BY OWNER N.I.C.
- H COFFEE COUNTER & BASE CABINET
- I PANEL DOORS, TRANSOM, TRIM HARDWARE - SIZE 2'-8" x 6'-8" DOOR - VERIFY SIZE IN FIELD
- J PANEL DOORS, TRANSOM, TRIM HARDWARE - SIZE 2'-8" x 6'-8" DOOR - VERIFY SIZE IN FIELD
- K PANEL DOORS, TRANSOM, TRIM HARDWARE - SIZE 2'-8" x 6'-8" DOOR - VERIFY SIZE IN FIELD
- L HARDWARE BASE AS REQ'D FOR REINSTALLATION AT PUBLIC LOBBY

# SPECIFICATIONS:

## DEMOLITION:

WORK INCLUDES DESIGNATED BUILDING CONSTRUCTION, CUTTING AND ALTERATIONS FOR COMPLETION OF THE WORK. REMOVING ITEMS FOR RE-USE (SALVAGE, PROTECTING ITEMS TO REMAIN, DISPOSING OF NON-SALVAGE MATERIALS).

CONFORM WORK TO APPLICABLE CODE, OBTAIN REQUIRED PERMITS. CONFORM WORK TO OWNER DIRECTED PROCEDURES WHEN HAZARDOUS MATERIALS ARE DISCOVERED. WORK SHALL COINCIDE WITH NEW WORK. COOPERATE WITH OWNER IN SCHEDULING NOISY OPERATIONS AND WASTE REMOVAL THAT MAY IMPACT OWNERS OPERATIONS IN ADJOINING SPACES.

PROVIDE TEMPORARY BARRIERS TO PREVENT SPREAD OF DUST AND NOISE TO PERMIT CONTINUE OWNER OCCUPANCY. PROTECT ITEMS TO REMAIN. CAREFULLY REMOVE BUILDING COMPONENTS & EQUIPMENT TO BE SALVAGED. PACKAGE SMALL AND LOOSE PARTS TO AVOID LOSS. MARK COMPONENTS TO PERMIT REINSTALLATION.

DEMOLISH IN ORDERLY AND CAREFUL MANNER. REMOVE MATERIALS AS WORK PROGRESSES. LEAVE ARE IN CLEAN CONDITION.

## METALS:

STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL CONFORM TO ASTM A-36

## CARPENTRY:

FRAMING LUMBER SHALL BE DOUGLAS FIR, SOUTHERN PINE, HEMLOCK, WESTERN LARCH OR EQUIVALENT SPECIES

PROVIDE PRESSURE TREATED LUMBER FOR ALL NAILERS, BLOCKING, GROUND, OR OTHER FRAMING MEMBERS IN CONTACT WITH MASONRY, CONCRETE OR METAL.

CONSTRUCT COUNTERS, CABINETS AND DIVIDERS AS DETAILED ON DRAWINGS, INCLUDING ADJUSTABLE SHELF HARDWARE, HINGES. PLASTIC LAMINATE COLORS TO BE SELECTED BY ARCHITECT FROM MANUF. STANDARD. COMPLY WITH PREMIUM AWH QUALITY STANDARDS

## CAULKING:

WORK INCLUDES ALL CAULKING THROUGHOUT THE PROJECT. COMPLETELY SEAL ALL CONTROL AND EXPANSION JOINTS, OPENINGS AROUND WINDOWS, LOUVERS, DOOR FRAMES AND ALL SIMILAR MATERIAL JUNCTURES.

CAULKING COMPOUND SHALL BE SINGLE COMPONENTS, POLYURETHANE SEALANT, COLOR AS SELECTED, MANUFACTURED BY PECORA CORP. OR EQUAL

## HOLLOW METAL DOORS AND FRAMES:

HOLLOW METAL FRAMES SHALL BE 16 GAUGE STEEL, GALVANIZED AND PRIME PAINTED ON EXTERIOR DOORS.

INTERIOR DOORS: SDI-100, GRADE II, MODEL 2

FURNISH FRAMES COMPLETE WITH RESILIENT RUBBER BUMPERS, HARDWARE REINFORCEMENT, FIRE RATING LABELS, TOP & BOTTOM CLOSURES ON DOORS.

## WOOD DOORS

WOOD DOORS SHALL BE FLUSH TYPE, SOLID CORE CONSTRUCTION, EQUAL TO ALGOMA HARDWOODS. PLASTIC LAMINATE DOOR WITH MAPLE TOP CAP FIELD APPLIED.

## FINISH HARDWARE

FURNISH AND INSTALL HARDWARE FOR WOOD AND STEEL DOORS AS SCHEDULES BELOW.

DOOR LOCKS SHALL BE KEYED IN LIKE GROUPS AND MASTER KEYED INCLUDING CONSTRUCTION KEYING. DETERMINE KEYING WITH OWNER AND PROVIDE TWO KEYS FOR EACH NEW LOCK.

- GROUP 1:
- 2 PAIR HINGES BB 1219, 4 1/2" x 4 1/2" SATIN BRASS
  - 1 EACH MORTISE LOCKSET LEVER SATIN BRASS
  - 1 EACH CLOSER, 4111 CUSH x AL
  - 1 SET SMOKE SEAL

- GROUP 2:
- 1 1/2 PAIR HEAVY DUTY CONCEALED HINGE - SATIN BRASS EQUAL TO S055 #218
  - 1 EACH INVISIBLE CLOSER - SATIN BRASS EQUAL TO S055 #218

## GYPSUM BOARD SYSTEMS:

WORK INCLUDES FURNISHING AND INSTALLATION OF GYPSUM BOARD SYSTEMS INCLUDING STUDS, SUPPORTING FRAMING, GYPSUM BOARDS, TRIM CORNER BEADS AND ALL RELATED ACCESSORIES NECESSARY TO COMPLETE THE WORK AS INDICATED ON DRAWINGS

ALL MATERIALS SHALL BE MANUFACTURED BY U.S. GYPSUM, NATIONAL GYPSUM, GEORGIA-PACIFIC CO. OR APPROVED EQUAL. THICKNESS AS SHOWN ON DRAWINGS.

METAL STUDS SHALL BE SCREWED TYPE 1 1/2" AND 3 5/8" BY 25 GAUGE, GALVANIZED STEEL, ASTM C-645, WITH STANDARD FLOOR AND CEILING RUNNERS. RESILIENT CHANNELS SHALL BE APPLIED AT RIGHT ANGLES TO STUDS ONE SIDE ONLY PER MANUFACTURER RECOMMENDATIONS. BOARD SHALL BE 48" WIDE WITH REGULAR TAPERED EDGE FOR WALL AND CEILING. USE BOARD CONFORMING TO ASTM C-36 (TYPE X) FOR FIRE RATED CONDITIONS NOTED ON DRAWINGS

DRYWALL FASTENERS SHALL BE 1" TYPE 5, BUGLE HEAD SCREWS, SPACE SCREWS 8" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD.

APPLY VENEER PLASTER FINISH TO WALLS & CEILINGS PER MANUFACTURER RECOMMENDATIONS.

SOUNDS INSULATION SHALL BE SEMI-RIGID, SPIN MINERAL FIBER BLANKETS WITHOUT MEMBRANE COVERING, MEETING FEDERAL SPEC. HH-5202, TYPE I. BLANKETS SHALL BE 3" THICK, 4.0 PCD DENSITY. ATTACH BLANKETS TO ONE BASE LAYER OF DRYWALL WITH FIVE 9/16" LONG STAPLES DRIVEN THROUGH BLANKET, SPACE STAPLES 3" IN FROM EACH CORNER AND IN CENTER OF BLANKET.

CORNER BEAD AND TRIM SHALL BE GALVANIZED METAL. JOINT TREATMENT SHALL BE READY MIXED, ALL PURPOSE JOINT COMPOUND. LIGHTWEIGHT ALL PURPOSE COMPOUND IS NOT ACCEPTABLE

## ACOUSTICAL WORK:

WORK INCLUDES FURNISHING AND INSTALLATION OF ALL ACOUSTICAL CEILING INCLUDING SUSPENSION SYSTEMS AND ALL MISCELLANEOUS ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION

ACOUSTICAL MATERIALS ARE NOTED ON REFLECTED CEILING PLAN DRAWING

## CARPET FLOORING:

RESILIENT FLOORS TO BE ARMSTRONG, OR EQUAL, "EXCELON SERIES" VINYL COMPOSITION TILE, 12" x 12" x 1/8", CONFORMING TO FEDERAL SPECIFICATIONS 55-T-312 B, TYPE IV, COMP. 1. COLOR TO BE SELECTED

STANDARD 4" HEIGHT, 080 GAUGE WALL BASE, COLOR TO BE SELECTED. PROVIDE COVE BASE AT TILE AREAS AND STRAIGHT TOELESS BASE AT CARPET AREAS

## PAINT SCHEDULE:

INTERIOR SURFACES:

1. VENEER PLASTER/ GYP. BD.: ONE COAT LATEX PRIMER-SEALER  
TWO COATS LATEX ENAMEL, EGGSHELL
2. STEEL-PRIMED: TOUCH UP WITH ORIGINAL PRIMER  
TWO COATS ALKYD ENAMEL, GLOSS
3. WOOD-TRANSPARENT FINISH: FILLER COAT (OPEN GRAINED WOOD ONLY)  
ONE COAT STAIN  
TWO COATS VARNISH - FLAT SHEEN

## CARPET TILE FLOORING:

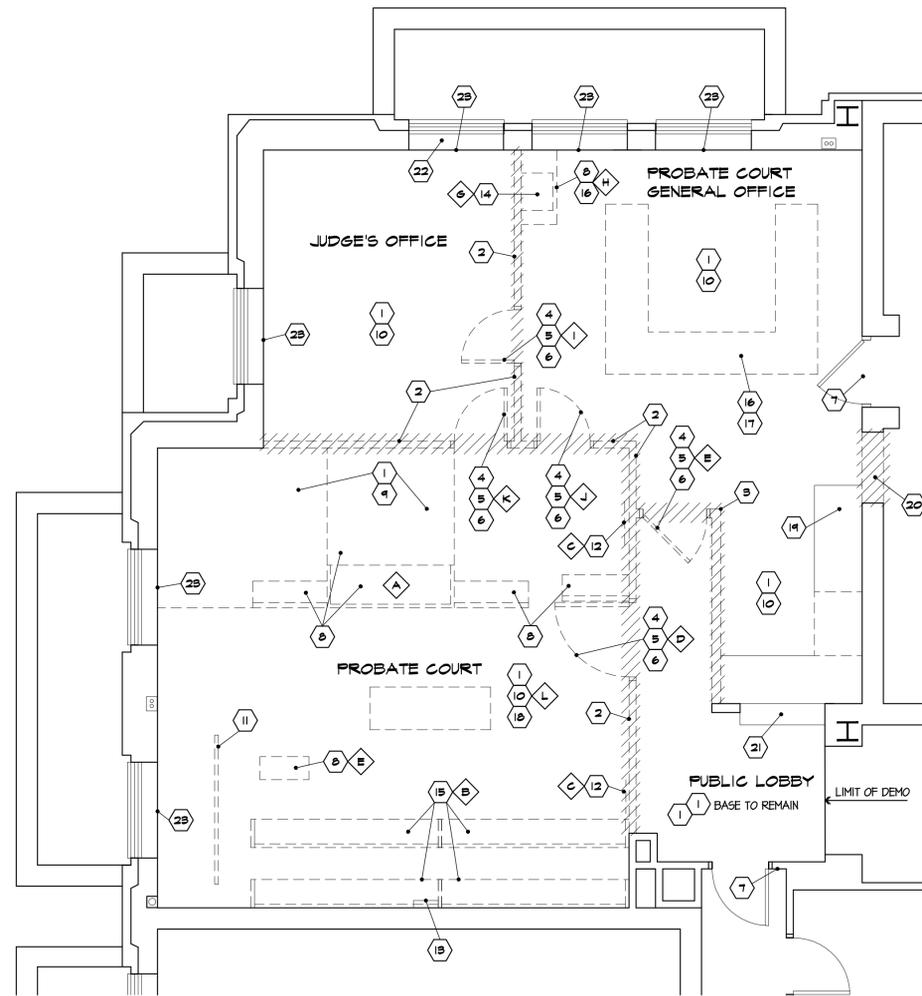
WORK INCLUDES CARPET TILE, VINYL BACKED CARPET ROLLS AND INSTALLATION. CARPET SHALL BE AS SELECTED EQUAL TO BLUE RIDGE KALEIDOSCOPE (6) FEET WIDE ROLL. INSTALLATION SHALL BE DIRECT GLUED TO 1/4" LUAN BOARD PER MANUFACTURERS INSTRUCTIONS

## RESILIENT BASE:

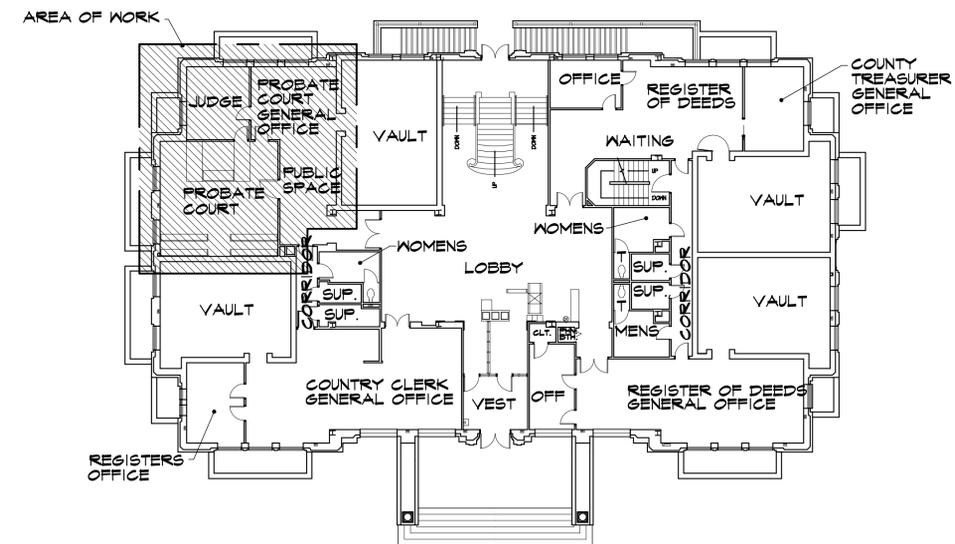
WORK INCLUDES INSTALLATION OF 5 1/4" HIGH VINYL BASE EQUAL TO JOHNSONITE PRODUCT MILLWORK CLASSIC MASQUERADE. COLOR AS SELECTED FROM WOOD GRAIN MANUFACTURERS STANDARDS. INSTALLATION SHALL BE PER MANUFACTURERS STANDARDS

## RESILIENT CHAIR RAIL:

WORK INCLUDES INSTALLATION OF VINYL CHAIR RAIL AS INDICATED ON DRAWINGS. COLOR SELECTED FROM MANUFACTURERS STANDARDS. INSTALLATION SHALL BE TRUE AND PLUMB PER MANUFACTURERS RECOMMENDATIONS



**DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**REFERENCE PLAN**  
SCALE: 1/16" = 1'-0"

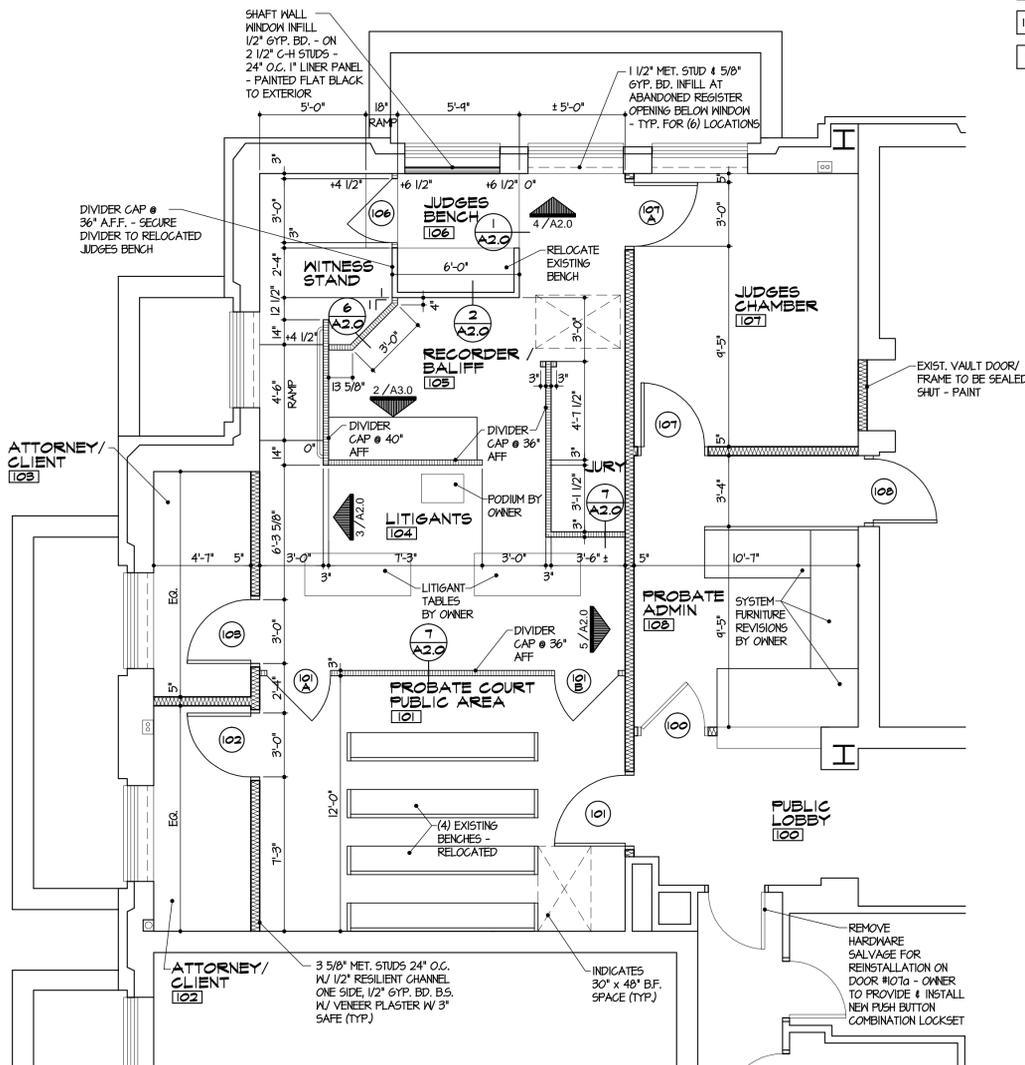


DATE NO.
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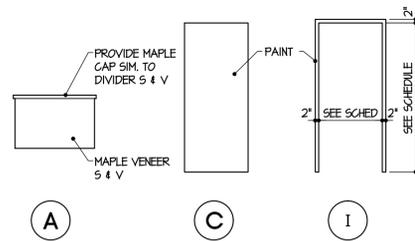
DRAWN BY J.A.M.
DATE 02/22/11
APPROVED
SHEET NO.
A1.0
OF
PROJECT NO. 1046

ROOM NO.	ROOM NAME	FLOORS		WALLS								CEILING		REMARKS			
		MATERIAL	FINISH	BASE	NORTH		EAST		SOUTH		WEST		TYPE		HEIGHT		
					MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN					
100	PUBLIC LOBBY	EXIST	CARPET	VINYL	6YP	P	6YP	P	EX	P	EX	P	EX	P	ACT	MATCH EXIST	10
101	PROBATE COURT	EXIST	CARPET	VINYL	EX	P	EX	P	-	-	6YP	P	6YP	P	ACT	±10'-5"	10
102	ATTORNEY/CLIENT	EXIST	CARPET	VINYL	EX	P	EX	P	-	-	6YP	P	6YP	P	ACT	10'-1"	10
103	ATTORNEY/CLIENT	EXIST	CARPET	VINYL	6YP	P	EX	P	EX	P	6YP	P	6YP	P	ACT	10'-1"	10
104	LITIGANTS	EXIST	CARPET	VINYL	-	-	6YP	P	-	-	6YP	P	6YP	P	ACT	±10'-5"	10
105	RECORDER/BALIFF/JURY	EXIST	CARPET	VINYL	-	-	EX	P	-	-	6YP	P	6YP	P	ACT	±10'-5"	10
106	WITNESS/JUDGES BENCH	RAISED WOOD	CARPET	VINYL	-	-	EX	P	EX	P	6YP	P	6YP	P	ACT	±10'-5"	11
107	JUDGES CHAMBER	EXIST	CARPET	VINYL	6YP	P	6YP	P	EX	P	EX	P	6YP	P	ACT	10'-1"	10
108	PROBATE ADMIN.	EXIST	CARPET	VINYL	6YP	P	6YP	P	6YP	P	EX	P	6YP	P	ACT	±10'-0"	10

DOOR NO.	TYPE	MAT.	SIZE			FRAME	DETAILS			CLASS RATING	HDW. GROUP	REMARKS
			WIDTH	HT.	THICK		TYPE	MAT.	HEAD			
100	EXIST	SCM	3'-0"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	1
101	EXIST	SCM	3'-4"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	2
101A	A	WD	3'-0"	2'-6"	1 1/2"	-	-	-	8/A3.0	-	-	2
101B	A	WD	3'-0"	2'-6"	1 1/2"	-	-	-	8/A3.0	-	-	2
102	EXIST	SCM	2'-8"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	4
103	EXIST	SCM	2'-8"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	5
106	A	WD	3'-0"	2'-6"	1 1/2"	-	-	-	8/A3.0	-	-	2
107	EXIST	SCM	2'-8"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	6
107A	EXIST	SCM	2'-8"	7'-0"	1 3/4"	EX	WD	4/A3.0	5/A3.0	-	-	7
108	C	HM	3'-0"	7'-0"	1 3/4"	I	H.M.	6/A3.0	1/A3.0	-	90 MIN	1



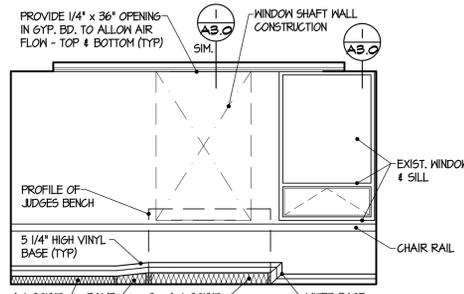
**PROBATE COURT AREA FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**DOOR AND FRAME TYPES**  
SCALE: 1/4" = 1'-0"

**DOOR/FINISH SCHEDULE KEY NOTES**

- 1 STRIP, REPAIR AND REFINISH DOOR AND FRAME - REINSTALL SALVAGE DOOR & REUSE EXIST. HARDWARE, INCLUDING BUZZER SYSTEM.
- 2 STRIP, REPAIR AND REFINISH DOOR AND FRAME - SALVAGE DOOR & REINSTALL EXIST. HARDWARE.
- 3 BY CASEWORK FINISH CARPENTRY SUPPLIER - PART OF LITIGATION DIVIDER OR JUDGES BENCH.
- 4 STRIP, REPAIR AND REFINISH DOOR AND FRAME - SALVAGE DOOR & REINSTALL EXISTING HARDWARE.
- 5 SAME AS 4 EXCEPT <math>\diamond</math> IN LIEU OF <math>\diamond</math>
- 6 STRIP, REPAIR AND REFINISH DOOR AND FRAME - SALVAGE DOOR & REUSE AND REINSTALL EXIST. HARDWARE - THIS INCLUDES TRANSOM.
- 7 OWNER TO FURNISH EXIST'S DOOR, FRAME, (FROM PREVIOUS WORK) REINSTALL HARDWARE FROM EXIST. LOBBY DOOR. SEE FLOOR PLAN.
- 8 MATCH EXISTING LAY-IN CEILING HEIGHT AT LOBBY NEAR DOOR #100
- 9 VENEER PLASTER NEW & EXIST. WALL CONSTRUCTION.
- 10 PROVIDE VINYL CHAR RAIL @ 34" AFF TO TOP - SEE ALSO INTERIOR ELEVATIONS.
- 11 EXTEND MAPLE TRIM ON NORTH SIDE OF JUDGES BENCH.



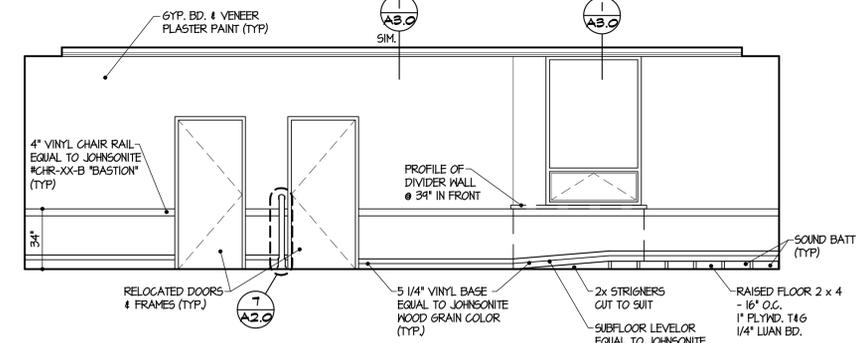
**ELEVATION 4**  
SCALE: 1/4" = 1'-0"



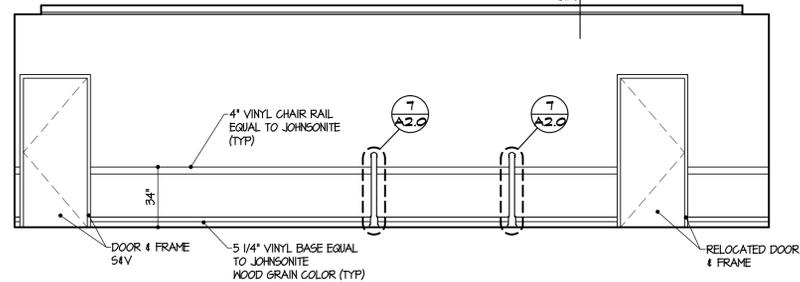
**STEP DETAIL**  
SCALE: 3" = 1'-0"



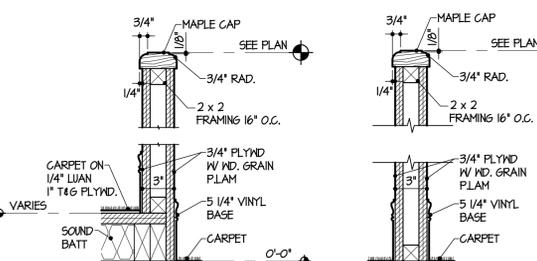
**DETAIL 2**  
SCALE: 3" = 1'-0"



**ELEVATION 3**  
SCALE: 1/4" = 1'-0"

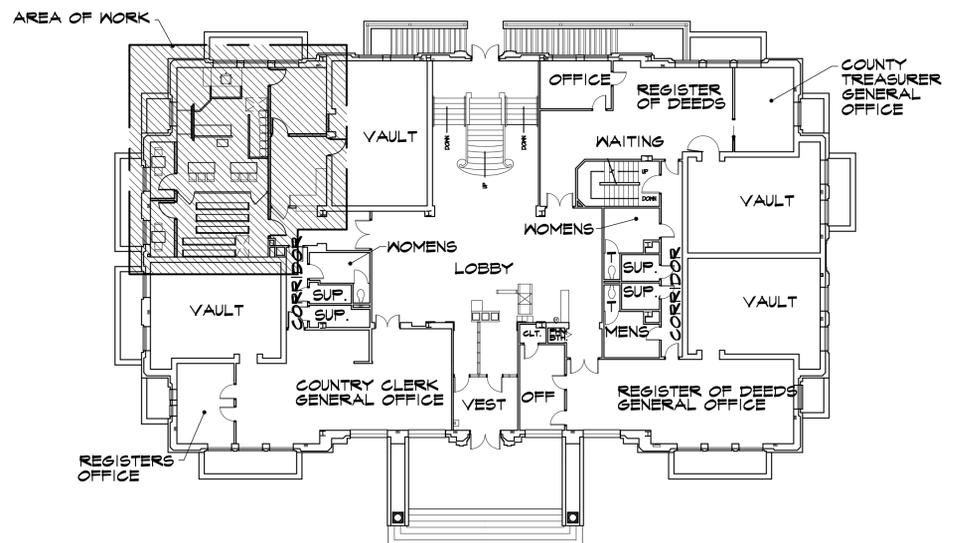


**ELEVATION 5**  
SCALE: 1/4" = 1'-0"

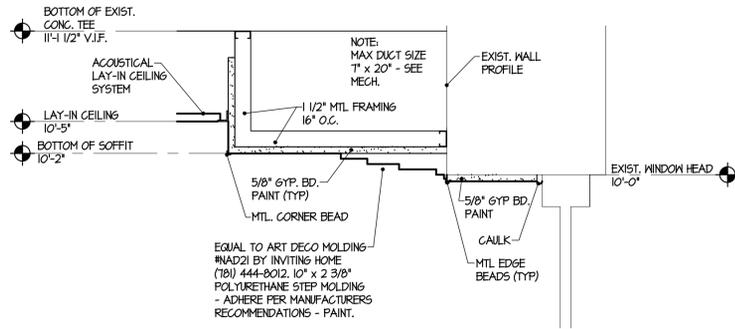


**DETAIL 6**  
SCALE: 1 1/8" = 1'-0"

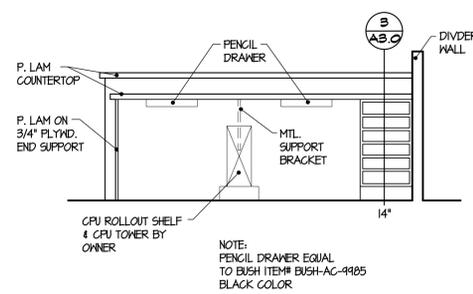
**DETAIL 7**  
SCALE: 1 1/2" = 1'-0"



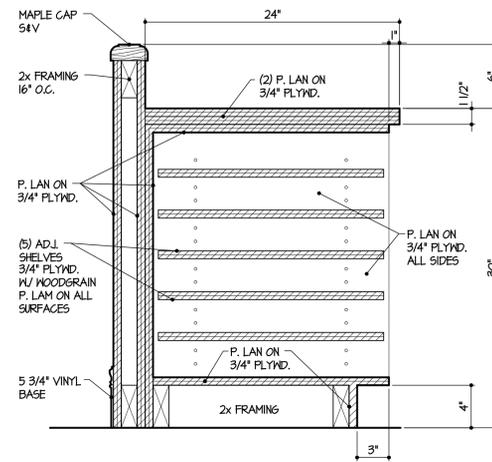
**REFERENCE PLAN**  
SCALE: 1/16" = 1'-0"



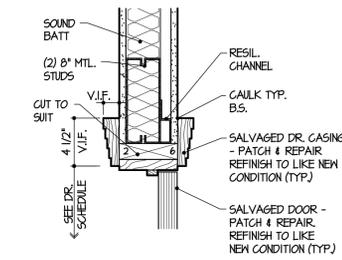
**1 DETAIL**  
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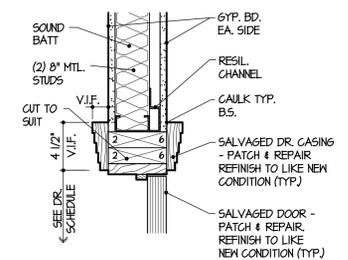
**2 BALIFF / RECORDER**  
SCALE: 1/2" = 1'-0"



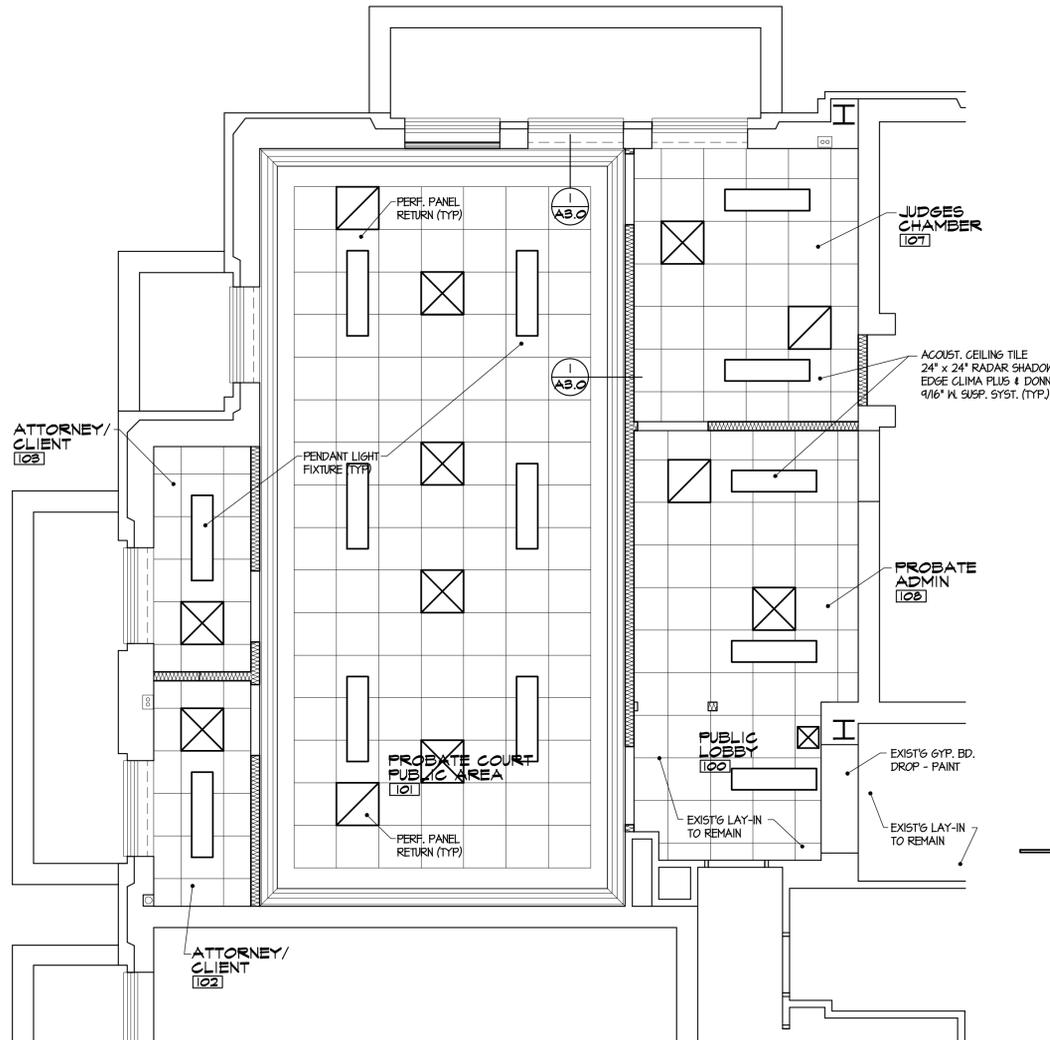
**3 CASEWORK**  
SCALE: 1/2" = 1'-0"



**4 HEAD**  
SCALE: 1/2" = 1'-0"

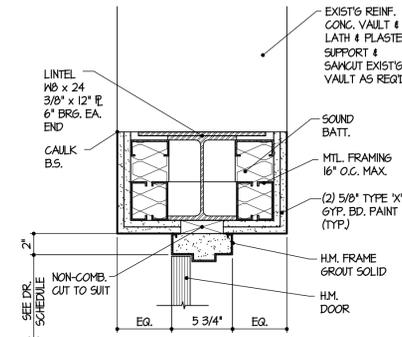


**5 JAMB**  
SCALE: 1/2" = 1'-0"

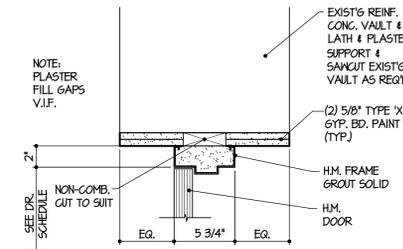


**PROBATE COURT AREA FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

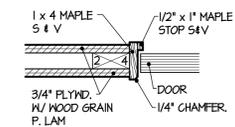
- KEY:**
- SUSP. LAY-IN CEILING SYSTEM.
  - LIGHT FIXTURE
  - RECESSED INCANDESCENT FIXTURE
  - DIFFUSER, REGISTER
  - EXH. GRILLE
  - GYPSUM BOARD CEILING
  - EXIT LIGHTS
  - EMERGENCY LIGHTS
  - CABINET UNIT HEATER SEE MECH.



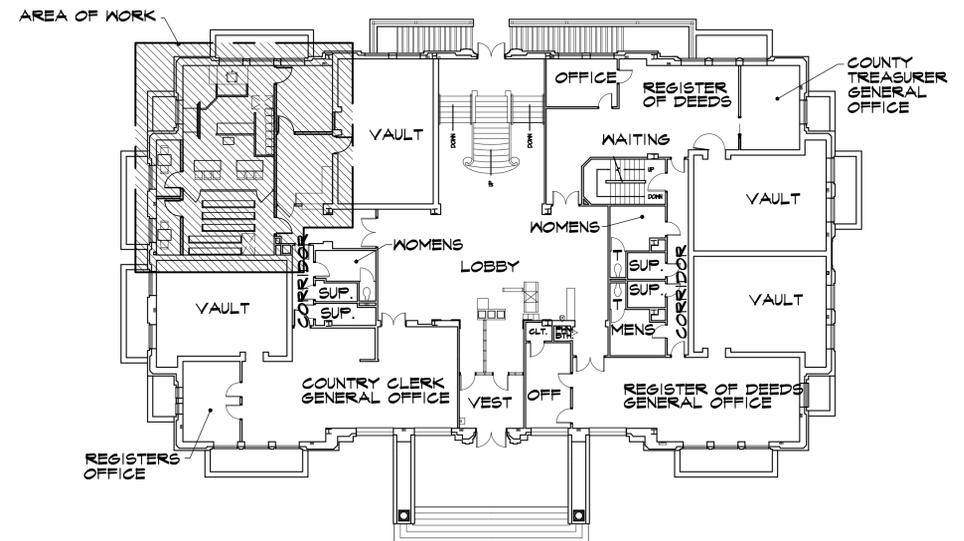
**6 HEAD**  
SCALE: 1/2" = 1'-0"



**7 JAMB**  
SCALE: 1/2" = 1'-0"



**8 JAMB**  
SCALE: 1/2" = 1'-0"



**REFERENCE PLAN**  
SCALE: 1/16" = 1'-0"



GENERAL ELECTRICAL SPECIFICATIONS

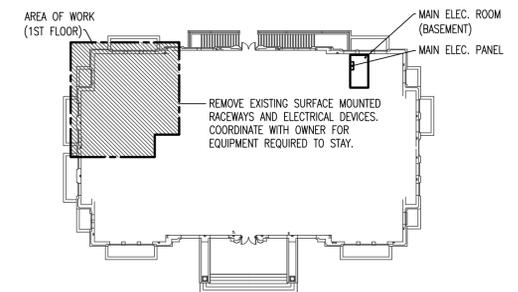
1. GENERAL
  - 1.1. ELECTRICAL CHARACTERISTICS
    - 1.1.1. SERVICE RATING: 1,200 AMPS, 208/120V, 3-PHASE, 4-WIRE.
  - 1.2. SUBMITTALS – SUBMIT PRODUCT DATA FOR THE FOLLOWING:
    - 1.2.1. SWITCHES
    - 1.2.2. RECEPTACLES
    - 1.2.3. CIRCUIT BREAKERS
    - 1.2.4. PANELBOARDS
    - 1.2.5. DISCONNECTS AND SAFETY SWITCHES
    - 1.2.6. LAMPS AND LIGHTING FIXTURES
    - 1.2.7. PREVENTION OF CORROSION
  - 1.3. PROTECT METALLIC MATERIALS AGAINST CORROSION. PROVIDE EQUIPMENT ENCLOSURES WITH THE STANDARD FINISH BY THE MANUFACTURER WHEN USED FOR MOST INDOOR INSTALLATIONS. DO NOT USE ALUMINUM WHEN IN CONTACT WITH EARTH OR CONCRETE AND WHERE CONNECTED TO DISSIMILAR METAL. PROTECT BY APPROVED FITTINGS AND TREATMENT. FERROUS METALS SUCH AS, BUT NOT LIMITED TO, ANCHORS, BOLTS, BRACES, BOXES, BODIES, CLAMPS, FITTINGS, GUARDS, NUTS, PINS, RODS, SHIMS, THIMBLES, WASHERS, AND MISCELLANEOUS SPARE PARTS NOT OF CORROSION-RESISTANT STEEL SHALL BE HOT-DIP GALVANIZED EXCEPT WHERE OTHER EQUIVALENT PROTECTIVE TREATMENT IS SPECIFICALLY APPROVED IN WRITING.
  - 1.4. DEFINITIONS
    - 1.4.1. FURNISH – PURCHASE NEW AND TURN OVER TO OWNER.
    - 1.4.2. INSTALL – CONNECT COMPLETE AND OPERATIONAL.
    - 1.4.3. RELOCATE – REMOVE FROM EXISTING LOCATION AND INSTALL IN A NEW SPECIFIED LOCATION.
    - 1.4.4. PROVIDE – FURNISH AND INSTALL.
  - 1.5. MANUFACTURER'S NAMEPLATE
    - 1.5.1. EACH ITEM OF EQUIPMENT SHALL HAVE A NAMEPLATE BEARING THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER SECURELY AFFIXED IN A CONSPICUOUS PLACE, THE NAMEPLATE OF THE DISTRIBUTING AGENT WILL NOT BE ACCEPTABLE.
  - 1.6. FIELD FABRICATED NAMEPLATES
    - 1.6.1. PROVIDE LAMINATED PLASTIC NAMEPLATES FOR EACH EQUIPMENT ENCLOSURE, TRANSFORMER, DISCONNECT SWITCH, PANELBOARD AND DEVICE MATCHING THE NAMES AS INDICATED ON THE DRAWINGS. NAMEPLATES SHALL BE MELAMINE PLASTIC, 0.125 INCH THICK, WHITE WITH BLACK CENTER CORE. SURFACE SHALL BE MATE FINISH. CORNERS SHALL BE ACCURATELY ALIGN LETTERING AND ENGRAVE INTO THE CORE. MINIMUM SIZE OF NAMEPLATES SHALL BE ONE BY 2.5 INCHES. LETTERING SHALL BE A MINIMUM OF 0.25 INCH HIGH NORMAL BLOCK STYLE.
  - 1.7. DRAWINGS ARE DIAGRAMMATIC. LOCATION OF ELECTRICAL EQUIPMENT AND CONDUIT ROUTES ARE APPROXIMATE. VERIFY LOCATIONS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
  - 1.8. DIMENSIONS SHOWN ABOVE FINISHED FLOOR (AFF) ARE TO THE CENTER OF THE ELECTRICAL BOX UNLESS NOTED OTHERWISE.
  - 1.9. PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR CONSTRUCTION.
    - 1.9.1. COORDINATE WITH THE OWNER TO PROVIDE TEMPORARY POWER.
  - 1.10. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS.
  - 1.11. PROVIDE ELECTRICAL PERMITS.
  - 1.12. DRILL AND PATCH PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS TO ORIGINAL CONDITION. PROVIDE CONDUIT SLEEVES FOR PENETRATIONS. FILL PENETRATIONS THROUGH FIRE WALLS WITH FIREPROOF COMPOUND PER NEC.
  - 1.13. GROUND AND BOND ELECTRICAL EQUIPMENT PER NEC ARTICLE 250.
  - 1.14. PROVIDE EMPTY FLUSH BOX WITH COVER AND 3/4" CONDUIT WITH PULL STRING STUBBED ABOVE CEILING FOR TELEPHONE/DATA DROPS (50" MAX LENGTH). CONDUIT TO HAVE A MAXIMUM OF TWO 90° BENDS PER LENGTH. LOCATE BOXES AT THE SAME ELEVATION AS ROOM RECEPTACLES. PROVIDE COVERS TO MATCH RECEPTACLE COLOR.
  - 1.15. UPON COMPLETION OF THE SPECIFIED WORK, PROVIDE "AS-BUILT" DRAWINGS INDICATING FINAL LOCATIONS AND CIRCUITING OF DEVICES AND EQUIPMENT.
    - 1.15.1. PROVIDE TYPED PANELBOARD SCHEDULES BASED ON FINAL "AS-BUILTS".
  - 1.16. TESTING AND INSPECTION
    - 1.16.1. INSPECT INSTALLATION FOR A CLEAN AND CONCEALED FINISH.
    - 1.16.2. VERIFY ALL TERMINATIONS ARE TIGHT.
    - 1.16.3. VERIFY SWITCH AND RECEPTACLE BOXES AND COVER ARE TIGHT AND SECURED IN PLACE AND PARALLEL AND PERPENDICULAR TO BUILDING LINES.
    - 1.16.4. TEST OPERATION OF ELECTRICAL EQUIPMENT AND DEVICES FOR INTENDED USE. TEST GFI RECEPTACLE FUNCTION.
    - 1.16.5. REPAIR OR REPLACE MALFUNCTIONING DEVICES AND RETEST TO DEMONSTRATE COMPLIANCE.
  - 1.17. WARRANTY
    - 1.17.1. WARRANTY COMPONENTS AND SYSTEM AGAINST COMPONENT DEFECTS AND WORKMANSHIP FOR ONE YEAR FROM ACCEPTANCE DATE.
    - 1.17.2. PROVIDE LABOR TO REPAIR OR REPLACE DEFECTIVE COMPONENTS, AT NO ADDITIONAL CHARGE, DURING THE WARRANTY PERIOD.
2. PRODUCTS
  - 2.1. MATERIALS
    - 2.1.1. MATERIALS AND EQUIPMENT TO BE PROVIDED SHALL BE THE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCTS.
    - 2.1.2. RIGID STEEL CONDUIT
      - 2.1.2.1. RIGID STEEL CONDUIT SHALL COMPLY WITH UL 6 AND BE GALVANIZED BY THE HOT-DIP PROCESS. RIGID STEEL CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) COATED IN ACCORDANCE WITH NEMA RN 1, WHERE UNDERGROUND AND IN CORROSIVE AREAS, OR MUST BE PAINTED WITH BITUMASTIC.
      - 2.1.2.2. FITTINGS FOR RIGID STEEL CONDUIT SHALL BE THREADED.
      - 2.1.2.3. GASKETS SHALL BE SOLID. CONDUIT FITTINGS WITH BLANK COVERS SHALL HAVE GASKETS, EXCEPT IN CLEAN, DRY AREAS OR AT THE LOWEST POINT OF A CONDUIT RUN WHERE DRAINAGE IS REQUIRED.
      - 2.1.2.4. COVERS SHALL HAVE CAPTIVE SCREWS AND BE ACCESSIBLE AFTER THE WORK HAS BEEN COMPLETED.
    - 2.1.3. ELECTRICAL METALLIC TUBING (EMT)
      - 2.1.3.1. EMT SHALL BE IN ACCORDANCE WITH UL 797 AND BE ZINC COATED STEEL. COUPLINGS AND CONNECTORS SHALL BE ZINC-COATED, AND MATCH EXISTING INSTALLATION.
    - 2.1.4. FLEXIBLE METALLIC CONDUIT
      - 2.1.4.1. FLEXIBLE METALLIC CONDUIT SHALL COMPLY WITH UL 1 AND BE GALVANIZED STEEL.
      - 2.1.4.2. FITTINGS FOR FLEXIBLE METALLIC CONDUIT SHALL BE SPECIFICALLY DESIGNED FOR SUCH CONDUIT.
    - 2.1.5. WIREWAYS AND AUXILIARY GUTTERS
      - 2.1.5.1. WIREWAY AND AUXILIARY GUTTERS SHALL BE A MINIMUM 4- BY 4 INCH TRADE SIZE CONFORMING TO UL 870.
    - 2.1.6. SURFACE RACEWAYS AND ASSEMBLIES
      - 2.1.6.1. SURFACE METAL RACEWAYS AND MULTI-OUTLET ASSEMBLIES SHALL CONFORM TO NFPA 70. RECEPTACLES SHALL CONFORM TO NEMA WD 1, TYPE 5-20R.

- 2.2. WIRE AND CABLE
  - 2.2.1. CONDUCTORS INSTALLED IN CONDUIT SHALL BE COPPER 600-VOLT TYPE THHN/THWN.
  - 2.2.2. CONDUCTORS INSTALLED IN PLENUMS SHALL BE MARKED PLENUM RATED.
- 2.3. SPLICES AND CONNECTORS
  - 2.3.1. MAKE ALL SPLICES IN AWG NO. 8 AND SMALLER WITH APPROVED INSULATED ELECTRICAL TYPE.
  - 2.3.2. MAKE ALL SPLICES IN AWG NO. 6 AND LARGER WITH BOLTED CLAMP-TYPE CONNECTORS. JOINTS SHALL BE WRAPPED WITH AN INSULATING TAPE THAT HAS AN INSULATION AND TEMPERATURE RATING EQUIVALENT TO THAT OF THE CONDUCTOR.
- 2.4. SWITCHES
  - 2.4.1. SAFETY SWITCHES
    - 2.4.1.1. SAFETY SWITCHES SHALL COMPLY WITH NEMA KS 1, AND BE THE HEAVY-DUTY TYPE WITH ENCLOSURE, VOLTAGE, CURRENT RATING, NUMBER OF POLES, AND FUSING AS INDICATED. SWITCH CONSTRUCTION SHALL BE SUCH THAT, WHEN THE SWITCH HANDLE IN THE "ON" POSITION, THE COVER OR DOOR CANNOT BE OPENED. COVER RELEASE DEVICE SHALL BE COIN PROOF AND BE SO CONSTRUCTED THAT AN EXTERNAL TOOL SHALL BE USED TO OPEN THE COVER. MAKE PROVISIONS TO LOCK THE HANDLE IN THE "OFF" POSITION, BUT THE SWITCH SHALL NOT BE CAPABLE OF BEING LOCKED IN THE "ON" POSITION.
    - 2.4.1.2. PROVIDE SWITCHES OF THE QUICK-MAKE, QUICK-BREAK TYPE. APPROVE TERMINAL LUGS FOR USE WITH COPPER CONDUCTORS.
  - 2.4.2. TOGGLE SWITCHES
    - 2.4.2.1. TOGGLE SWITCHES SHALL COMPLY WITH EA 480, CONTROL INCANDESCENT, MERCURY, AND FLUORESCENT LIGHTING FIXTURES AND BE OF THE HEAVY DUTY, GENERAL PURPOSE, NON-INTERCHANGEABLE FLUSH-TYPE.
    - 2.4.2.2. TOGGLE SWITCHES SHALL BE SPECIFICATION GRADE TOGGLE TYPE, RATED 20 AMPERES AT 277 VOLTS, 60 HERTZ ALTERNATING CURRENT (AC) ONLY. COORDINATE COLOR AND STYLE WITH ARCHITECT.
    - 2.4.2.3. ALL TOGGLE SWITCHES SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
- 2.5. RECEPTACLES
  - 2.5.1. RECEPTACLES SHALL BE SPECIFICATION GRADE, 20A, 125 VAC, 2-POLE, 3-WIRE DUPLEX CONFORMING TO NEMA WD 6, NEMA 5-20R. COORDINATE COLOR AND STYLE WITH ARCHITECT.
  - 2.5.2. OUTLETS, OUTLET BOXES, AND PULL BOXES
    - 2.5.2.1. OUTLET BOXES FOR USE WITH CONDUIT SYSTEMS SHALL BE IN ACCORDANCE WITH NEMA PB 1 AND NEMA OS 1 AND BE NOT LESS THAN 1-1/2 INCHES DEEP. FURNISH ALL PULL AND JUNCTION BOXES WITH SCREW-FASTENED COVERS.
- 2.6. PANELBOARDS
  - 2.6.1. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS SHALL BE THE CIRCUIT-BREAKER TYPE IN ACCORDANCE WITH NEMA PB 1. BUSES SHALL BE COPPER OF THE RATING INDICATED, WITH MAIN LUGS OR MAIN CIRCUIT BREAKER AS INDICATED. PROVIDE ALL PANELBOARDS FOR USE ON GROUNDED AC SYSTEMS WITH A FULL-CAPACITY ISOLATED NEUTRAL BUS AND A SEPARATE GROUNDING BUS BONDED TO THE PANELBOARD ENCLOSURE. PANELBOARD ENCLOSURES SHALL BE NEMA 250, TYPE 1, IN ACCORDANCE WITH NEMA PB 1. PROVIDE ENCLOSURE FRONTS WITH LOCKABLE HINGED DOORS.
  - 2.6.2. MANUFACTURERS
    - 2.6.2.1. SQUARE-D TO MATCH EXISTING.
- 2.7. CIRCUIT BREAKERS
  - 2.7.1. CIRCUIT-BREAKER INTERRUPTING RATING SHALL BE NOT LESS THAN THOSE INDICATED AND IN NO EVENT LESS THAN 10,000 AMPERES ROOT-MEAN-SQUARE (RMS) SYMMETRICAL AT 240 VOLTS, RESPECTIVELY. MULTIPOLE CIRCUIT BREAKERS SHALL BE THE COMMON-TRIP TYPE WITH A SINGLE HANDLE. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE CONFORMING TO UL 489.
  - 2.7.2. PROVIDE HACR BREAKERS FOR HVAC EQUIPMENT.
  - 2.7.3. MANUFACTURERS
    - 2.7.3.1. SQUARE-D TO MATCH EXISTING.
- 2.8. LAMPS AND LIGHTING FIXTURES
  - 2.8.1. SEE DRAWINGS.
  - 2.8.2. FIXTURES CONTAINING BATTERY BACK-UP SHALL HAVE TEST BUTTON EITHER LOCAL TO THE FIXTURE OR LOCATED AT AN ACCESSIBLE REMOTE LOCATION NEAR THE FIXTURE.

3. EXECUTION
  - 3.1. CONDUITS, RACEWAYS AND FITTINGS
    - 3.1.1. CONDUIT RUNS BETWEEN OUTLET AND OUTLET, BETWEEN FITTING AND FITTING, OR BETWEEN OUTLET AND FITTING SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS, INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING.
    - 3.1.2. DO NOT INSTALL CRUSHED OR DEFORMED CONDUIT. AVOID TRAPPED CONDUIT RUNS WHERE POSSIBLE. TAKE CARE TO PREVENT THE LODGMENT OF FOREIGN MATERIAL IN THE CONDUIT, BOXES, FITTINGS, AND EQUIPMENT DURING THE COURSE OF CONSTRUCTION. CLEAR ANY CLOGGED CONDUIT OF OBSTRUCTIONS OR REPLACE.
    - 3.1.3. CONDUIT AND RACEWAY RUNS CONCEALED IN OR BEHIND NEW WALLS AND ABOVE NEW CEILINGS SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR MORE STRINGENT UNLESS SPECIFICALLY INDICATED OTHERWISE.
    - 3.1.4. RIGID STEEL CONDUIT
      - 3.1.4.1. MAKE FIELD-MADE BENDS AND OFFSETS WITH APPROVED CONDUIT BENDING MACHINE. CONDUIT ELBOWS LARGER THAN 2-1/2 INCHES SHALL BE LONG RADIUS.
    - 3.1.5. ELECTRICAL METALLIC TUBING (EMT)
      - 3.1.5.1. EMT SHALL BE GROUNDED IN ACCORDANCE WITH NFPA 70, USING PRESSURE GROUNDING CONNECTORS ESPECIALLY DESIGNED FOR EMT.
    - 3.1.6. FLEXIBLE METALLIC CONDUIT
      - 3.1.6.1. USE FLEXIBLE METALLIC CONDUIT TO CONNECT RECESSED FIXTURES FROM OUTLET BOXES IN CEILINGS, TRANSFORMERS, AND OTHER APPROVED ASSEMBLIES.
      - 3.1.6.2. BONDING WIRES SHALL BE USED IN FLEXIBLE CONDUIT AS SPECIFIED IN NFPA 70, FOR ALL CIRCUITS. FLEXIBLE CONDUIT SHALL NOT BE CONSIDERED A GROUND CONDUCTOR.
      - 3.1.6.3. ELECTRICAL CONNECTIONS TO VIBRATION-ISOLATED EQUIPMENT SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT.
      - 3.1.6.4. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED IN WET AND OILY LOCATIONS AND TO COMPLETE THE CONNECTION TO MOTOR-DRIVEN EQUIPMENT.
    - 3.1.7. WIREWAY AND AUXILIARY GUTTER
      - 3.1.7.1. STRAIGHT SECTIONS AND FITTINGS SHALL BE BOLTED TOGETHER TO PROVIDE A RIGID, MECHANICAL CONNECTION AND ELECTRICAL CONTINUITY. DEAD ENDS OF WIREWAYS AND AUXILIARY GUTTERS SHALL BE CLOSED. PLUG ALL UNUSED CONDUIT OPENINGS.
    - 3.1.8. SURFACE RACEWAYS AND ASSEMBLIES
      - 3.1.8.1. SURFACE RACEWAYS SHALL BE MOUNTED PLUMB AND LEVEL WITH THE BASE AND COVER SECURED. MINIMUM CIRCUIT RUN SHALL BE THREE-WIRE WITH ONE WIRE DESIGNATED AS GROUND.

- 3.2. WIRING
  - 3.2.1. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
    - 3.2.1.1. 208/120V: MATCH EXISTING SCHEME
  - 3.2.3. CONDUCTORS UP TO AND INCLUDING AWG NO. 2 SHALL BE MANUFACTURED WITH COLORED INSULATING MATERIALS. CONDUCTORS LARGER THAN AWG NO. 2 SHALL HAVE ENDS IDENTIFIED WITH COLOR PLASTIC TAPE IN OUTLET, PULL, OR JUNCTION BOXES.
  - 3.2.4. SPLICE IN ACCORDANCE WITH NFPA 70. PROVIDE CONDUCTOR IDENTIFICATION WITHIN EACH ENCLOSURE WHERE A TAP, SPLICE, OR TERMINATION IS MADE AND AT THE EQUIPMENT TERMINAL OF EACH CONDUCTOR. TERMINAL AND CONDUCTOR IDENTIFICATION SHALL MATCH AS INDICATED.
  - 3.2.5. WHERE SEVERAL FEEDERS PASS THROUGH A COMMON PULL BOX, THE FEEDERS SHALL BE TAGGED TO CLEARLY INDICATE THE ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER, AND PANEL DESIGNATION.
  - 3.2.4. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH CIRCUIT CONTAINING A NEUTRAL. NO SHARED NEUTRALS.
    - 3.2.4.1. PROVIDE NEUTRAL CONDUCTORS RATED 100% OF THE POWER CONDUCTORS.
  - 3.3. SAFETY SWITCHES
    - 3.3.1. INSTALL IN A LOCATION EASILY ACCESSIBLE AND WITHIN SITE OF THE EQUIPMENT.
  - 3.4. WIRING DEVICES
    - 3.4.1. WALL SWITCHES AND RECEPTACLES
      - 3.4.1.1. INSTALL WALL SWITCHES AND RECEPTACLES SO THAT WHEN DEVICE PLATES ARE APPLIED, THE PLATES WILL BE ALIGNED VERTICALLY TO WITHIN 1/16 INCH.
      - 3.4.1.2. GROUND TERMINAL OF EACH FLUSH-MOUNTED RECEPTACLE SHALL BE BONDED TO THE OUTLET BOX WITH AN APPROVED GREEN BONDING JUMPER WHEN USED WITH DRY WALL TYPE CONSTRUCTION.
    - 3.4.2. DEVICE PLATES
      - 3.4.2.1. DEVICE PLATES FOR SWITCHES THAT ARE NOT WITHIN SIGHT OF THE LOADS CONTROLLED SHALL BE SUITABLY ENGRAVED WITH A DESCRIPTION OF THE LOADS.
      - 3.4.2.2. RECEPTACLE COVER PLATES SHALL BE SUITABLY MARKED, SHOWING THE PANEL NAME AND CIRCUIT NUMBER OF THE POWER SOURCE. REQUIRED MARKING SHALL CONSIST OF A CLEAR SELF-ADHESIVE LABEL HAVING 1/4 INCH BLACK LETTERS.
  - 3.5. BOXES AND FITTINGS
    - 3.5.1. FURNISH AND INSTALL PULLBOXES WHERE NECESSARY IN THE CONDUIT SYSTEM TO FACILITATE CONDUCTOR INSTALLATION. CONDUIT RUNS LONGER THAN 100 FEET OR WITH MORE THAN THREE RIGHT-ANGLE BENDS SHALL HAVE A PULLBOX INSTALLED AT A CONVENIENT INTERMEDIATE LOCATION.
    - 3.5.2. SECURELY MOUNT BOXES AND ENCLOSURES TO THE BUILDING STRUCTURE WITH SUPPORTING FACILITIES INDEPENDENT OF THE CONDUIT ENTERING OR LEAVING THE BOXES.
    - 3.5.3. MOUNTING HEIGHT OF WALL-MOUNTED OUTLET AND SWITCH BOXES, MEASURED BETWEEN THE BOTTOM OF THE BOX AND THE FINISHED FLOOR, SHALL BE IN ACCORDANCE WITH ICC A117.1 AND AS FOLLOWS:
 

3.5.3.1. RECEPTACLES	18 INCHES
3.5.3.2. SWITCHES FOR LIGHT CONTROL	42 INCHES
  - 3.6. LAMPS AND LIGHTING FIXTURES
    - 3.6.1. INSTALL NEW LAMPS OF THE PROPER TYPE AND WATTAGE IN EACH FIXTURE. SECURELY FASTEN FIXTURES AND SUPPORTS TO STRUCTURAL MEMBERS AND INSTALL PARALLEL AND PERPENDICULAR TO MAJOR AXES OF STRUCTURES.
    - 3.6.2. PROVIDE EMERGENCY EGRESS LIGHTING AND EXIT SIGNS AS SHOWN ON THE DRAWING. CONNECT THE DEVICES TO A NON-SWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THEIR AREA.
  - 3.7. PANELBOARDS
    - 3.7.1. SECURELY MOUNT PANELBOARDS SO THAT THE TOP OPERATING HANDLE DOES NOT EXCEED 72-INCHES ABOVE THE FINISHED FLOOR. DO NOT MOUNT EQUIPMENT WITHIN 36 INCHES OF THE FRONT OF THE PANEL. DIRECTORY CARD INFORMATION SHALL BE TYPED COMPLETE AND LEGIBLE.

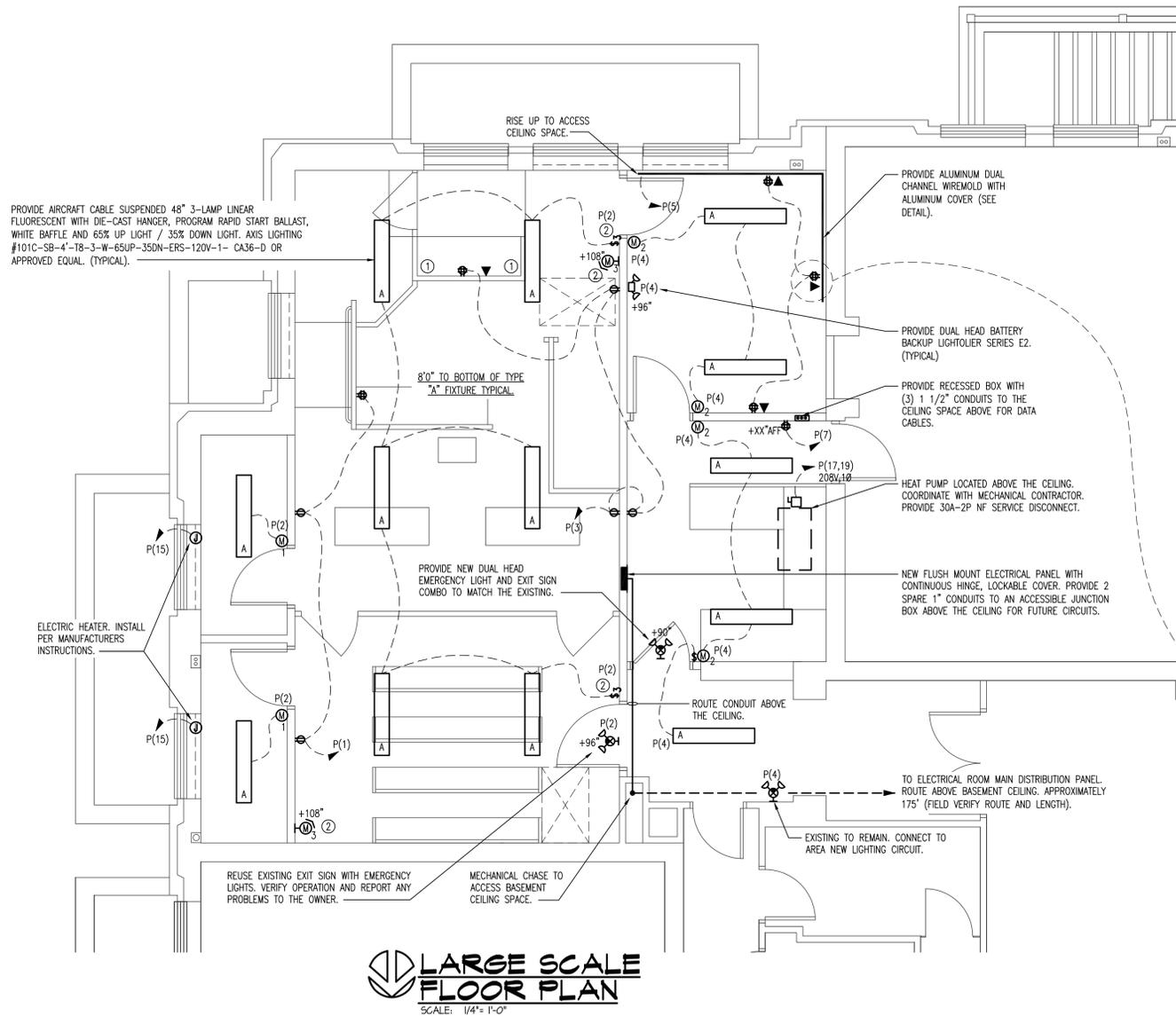


**SNYDER & STALEY ENGINEERING, P.L.C.**  
 CONSULTING ENGINEERS  
 3085 BAY ROAD, SUITE 6  
 SAGINAW, MI 48603  
 PH: (989) 797-1710 FX: (989) 797-1715  
 PROJECT NO. 11-316-021

**TSSF ARCHITECTS, INC.**  
 ARCHITECTS  
 PLANNERS  
 122 N. WASHINGTON AVENUE  
 SAGINAW, MICHIGAN

REMODELING TO:  
 PROBATE COUTROOM, JUDGES CHAMBERS, ADMINISTRATION  
**TUSCOLA COUNTY COURTHOUSE**  
 CARO, MICHIGAN

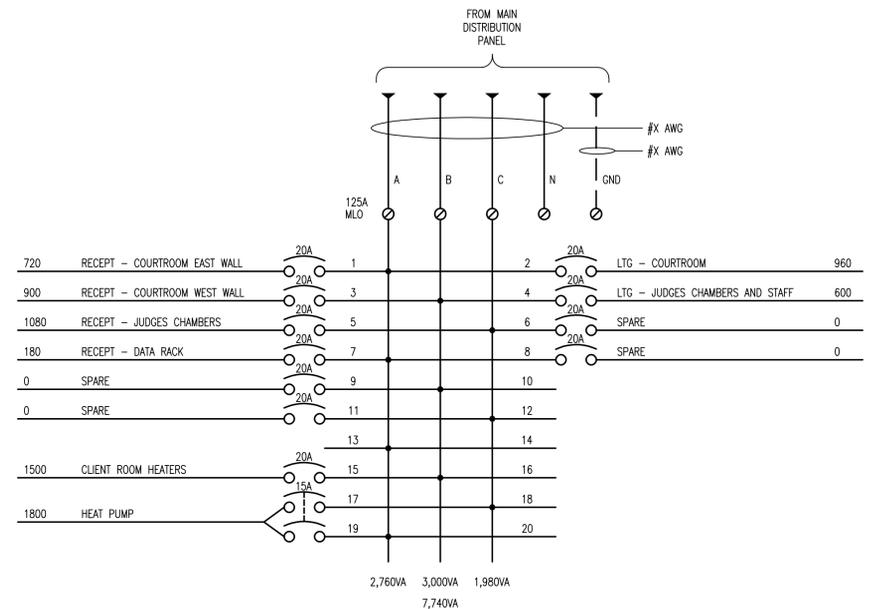
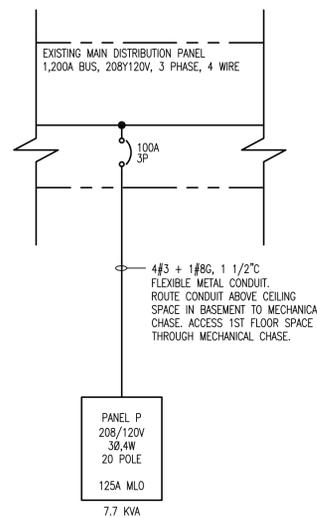
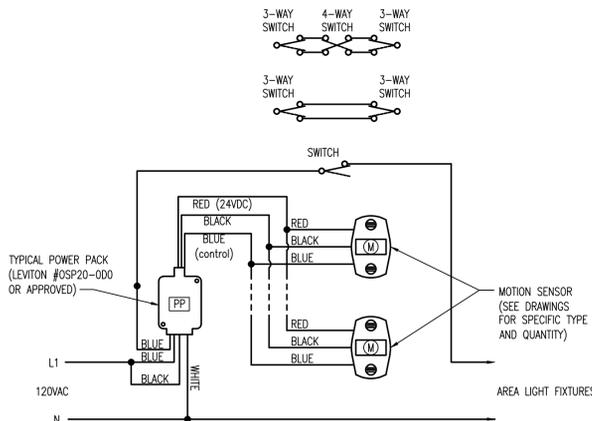
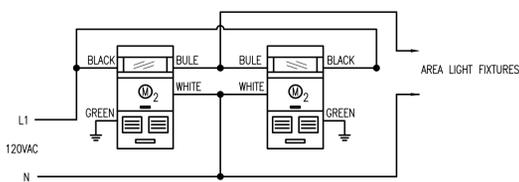
NO.	DATE
DRAWN BY <b>T.MacD</b>	
DATE <b>02/21/11</b>	
APPROVED	
SHEET NO.	
<b>E1.0</b>	
OF <b>2</b>	
PROJECT NO. <b>1046</b>	



**LARGE SCALE FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

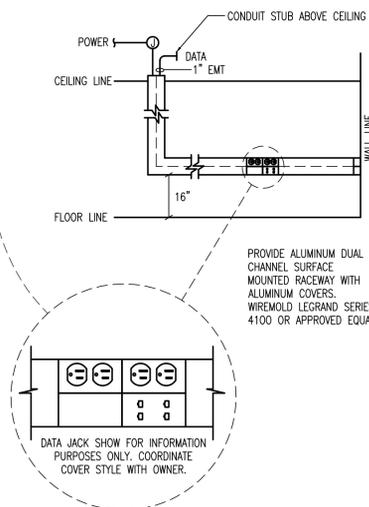
**MOTION SENSOR DEFINITIONS:**

- ① INFRARED OCCUPANCY SENSOR WALL SWITCH - LINE VOLTAGE (LEVITON #ODS10-ID).
  - ② DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH - LINE VOLTAGE (LEVITON #OSSMT-MOW). 1200FT<sup>2</sup>
  - ③ DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR WITH 115' VIEW - LOW VOLTAGE (LEVITON #OSW12-MOW). 1200FT<sup>2</sup>
  - PP1 POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS (LEVITON #OSP20-000).
- NOTE: CARROT INDICATES DIRECTION OF ULTRASONIC SENSOR.



**PANEL P 208/120V 3Ø 4W PANEL SCHEDULE**  
RECESSED MOUNTED

- NOTES:
- LOADS ARE ESTIMATED.
  - PANEL IDENTIFICATIONS IS SHOWN FOR INSTALLATION PURPOSES. COORDINATE PANEL NAME WITH OWNER PRIOR TO LABELING.



**KEYNOTES**

- ① PROVIDE NEW CORD AND PLUG FOR EXISTING BENCH LAMPS.
- ② SEE MOTION SENSOR WIRING DIAGRAM.

**NOTES**

1. REMOVE EXISTING POWER AND LIGHTING DEVICES WITHIN THE CONSTRUCTION AREA. REMOVE DEVICE AND ASSOCIATED WIRING BACK TO THE SOURCE. PROVIDE BRUSH STAINLESS STEEL COVERS FOR EMPTY BOXES.

LEGEND	
▽	TELEPHONE/DATA
⊕	DUPLEX RECEPTACLE
⊕	QUADRUPLEX
⊕	POWER DISTRIBUTION PANEL
⊕	DISCONNECT
⊕	MANUAL STARTER
⊕	MOTOR
⊕	EMERGENCY LIGHT WITH BATTERY
⊕	EXIT LIGHT CEILING MOUNTED
⊕	EXIT LIGHT WITH DIRECTION CHEVRON
⊕	EXIT LIGHT WALL MOUNTED
⊕	EXIT LIGHT SINGLE FACED
⊕	EXIT LIGHT DUAL FACED
⊕	LIGHT SWITCH
⊕	LIGHT SWITCH - 3 WAY
PP1	LIGHTING CONTROL POWER PACK
⊕	PUSH BUTTON
AFF	ABOVE FINISHED FLOOR
WP	WEATHER PROOF
NF	NON-FUSED
NL	NIGHT LIGHT
MLO	MAIN LUG ONLY
MCB	MAIN CIRCUIT BREAKER

**SNYDER & STALEY ENGINEERING, P.L.C.**  
CONSULTING ENGINEERS  
3085 BAY ROAD, SUITE 6  
SAGINAW, MI 48603  
PH: (989) 797-1710 FX: (989) 797-1715  
PROJECT NO. 11-316-021



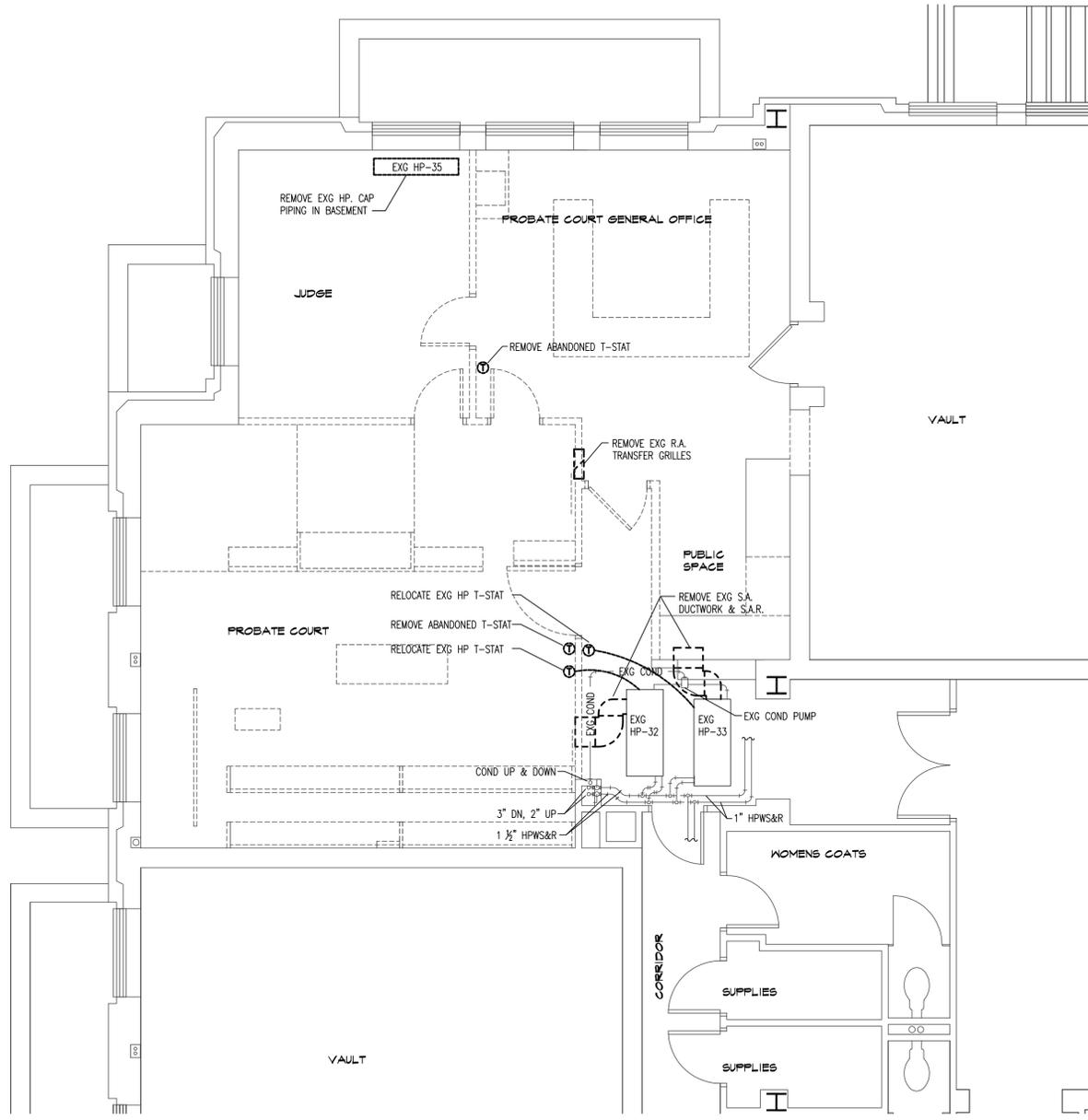
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DATE **02/21/11**

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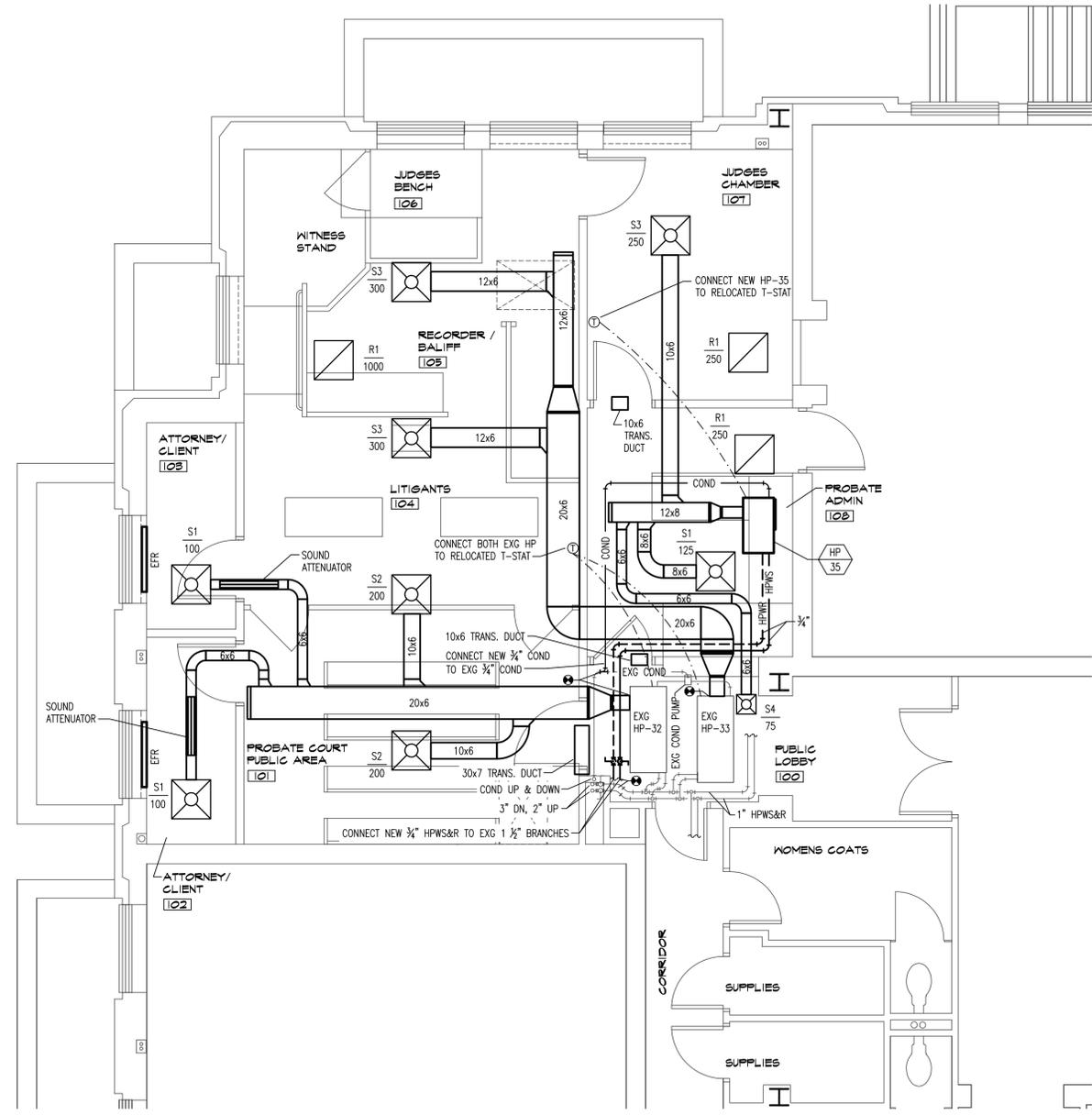
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OF 2  
PROJECT NO. **1046**

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**MECHANICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

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PROJECT NO. 11-316-021

**TSSF ARCHITECTS, INC.**  
ARCHITECTS  
122 N. WASHINGTON AVENUE  
SAGINAW, MICHIGAN



REMODELING TO:  
PROBATE COUTROOM, JUDGES CHAMBERS, ADMINISTRATION  
**TUSCOLA COUNTY COURTHOUSE**  
CARO, MICHIGAN

DATE	NO.
DRAWN BY	SSC
DATE	2/21/11
APPROVED	
SHEET NO.	
<b>M1.1</b>	
OF	
PROJECT NO.	1046

**MECHANICAL SPECIFICATIONS**

1. PERMITS
  - 1.1. THE CONTRACTOR IS TO SECURE PERMITS FOR ALL INSPECTION AND PERFORM ALL TESTS REQUIRED IN CONNECTION WITH THIS WORK. UPON COMPLETION OF WORK, THE CONTRACTOR MUST SECURE AND PRESENT TO THE OWNER CERTIFICATES OF INSPECTION AND APPROVAL FROM THE DEPARTMENT HAVING JURISDICTION OVER HIS WORK, IF SUCH IS ISSUED.
2. EXAMINATION OF PREMISES
  - 2.1. BEFORE SUBMITTING PROPOSALS FOR WORK, EACH BIDDER MUST EXAMINE THE PREMISES AND VERIFY EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE WORK. NO EXTRAS WILL BE ALLOWED ON ACCOUNT OF HIS FAILURE TO MAKE THE ABOVE EXAMINATION OR NEGLECT TO INCLUDE ALL MATERIAL AND LABOR REQUIRED TO COMPLETE WORK.
3. GUARANTEE
  - 3.1. THE CONTRACTOR SHALL FURNISH, OVER AND ABOVE MANUFACTURERS' GUARANTEES, WRITTEN GUARANTEE COVERING ALL MATERIALS AND WORKMANSHIP UNDER HIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. UNDER THE ABOVE GUARANTEE, THE CONTRACTOR AGREES TO REMEDY ANY DEFECTS IN MATERIALS AND WORKMANSHIP APPEARING DURING THE GUARANTEE PERIOD AND TO PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM.
4. RECORD DOCUMENTS
  - 4.1. SUBMIT TWO SETS OF CLEAN, READABLE, MARKED-UP RECORD PRINTS.
  - 4.2. RECORD DRAWINGS
    - 4.2.1. RECORD PRINTS; MAINTAIN ONE SET OF BLACK-LINE WHITE PRINTS OF THE CONTRACT DRAWINGS AND SHOP DRAWINGS.
    - 4.2.2. PREPARATION: MARK RECORD PRINTS TO SHOW THE ACTUAL INSTALLATION WHERE INSTALLATION VARIES FROM THAT SHOWN ORIGINALLY. REQUIRE INDIVIDUAL OR ENTITY WHO OBTAINED RECORD DATA, WHETHER INDIVIDUAL OR ENTITY IS INSTALLER, SUBCONTRACTOR, OR SIMILAR ENTITY, TO PREPARE THE MARKED-UP RECORD PRINTS; GIVE PARTICULAR ATTENTION TO INFORMATION ON CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO IDENTIFY OR MEASURE AND RECORD LATER. RECORD DATA AS SOON AS POSSIBLE AFTER OBTAINING IT. RECORD AND CHECK THE MARKUP BEFORE ENCLOSING CONCEALED INSTALLATIONS.
    - 4.2.3. MARK RECORD SETS WITH ERASABLE, RED-COLORED PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN CHANGES FOR DIFFERENT CATEGORIES OF THE WORK AT SAME LOCATION.
    - 4.2.4. NOTE CONSTRUCTION CHANGE DIRECTIVE NUMBERS, ALTERNATE NUMBERS, CHANGE ORDER NUMBERS, AND SIMILAR IDENTIFICATION, WHERE APPLICABLE.
    - 4.2.5. FORMAT: IDENTIFY AND DATE EACH RECORD DRAWING; INCLUDE THE DESIGNATION "PROJECT RECORD DRAWING" IN A PROMINENT LOCATION. ORGANIZE RECORD PRINTS AND NEWLY PREPARED RECORD DRAWINGS INTO MANAGEABLE SETS. BIND EACH SET WITH DURABLE PAPER COVER SHEETS. INCLUDE IDENTIFICATION ON COVER SHEETS INCLUDING: PROJECT NAME, DATE, DESIGNATION "PROJECT RECORD DRAWINGS," NAME OF ENGINEER AND ARCHITECT (IF APPLICABLE), NAME OF CONTRACTOR.
  - 4.3. RECORDING: MAINTAIN ONE COPY OF EACH SUBMITTAL DURING THE CONSTRUCTION PERIOD FOR PROJECT RECORD DOCUMENT PURPOSES; POST CHANGES AND MODIFICATIONS TO PROJECT RECORD DOCUMENTS AS THEY OCCUR; DO NOT WAIT UNTIL THE END OF PROJECT.
  - 4.4. MAINTENANCE OF RECORD DOCUMENTS: STORE RECORD DOCUMENTS IN THE FIELD OFFICE APART FROM THE CONTRACT DOCUMENTS USED FOR CONSTRUCTION. DO NOT USE PROJECT RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. MAINTAIN RECORD DOCUMENTS IN GOOD ORDER AND IN A CLEAN, DRY, LEGIBLE CONDITION, PROTECTED FROM DETERIORATION AND LOSS.
5. DEMONSTRATION AND TRAINING
  - 5.1. INSTRUCTION PROGRAM: PROVIDE TRAINING FOR THE OWNER'S MAINTENANCE PERSONNEL INCLUDE INSTRUCTION FOR THE FOLLOWING:
    - 5.1.1. DOCUMENTATION: REVIEW OPERATIONS, AND MAINTENANCE MANUALS; PROJECT RECORD DOCUMENTS; IDENTIFICATION SYSTEMS; WARRANTIES AND BONDS; AND MAINTENANCE SERVICE AGREEMENTS.
    - 5.1.2. EMERGENCIES: INCLUDE INSTRUCTIONS ON STOPPING, SHUTDOWN INSTRUCTIONS; OPERATING INSTRUCTIONS FOR CONDITIONS OUTSIDE NORMAL OPERATING LIMITS; INSTRUCTIONS ON MEANING OF WARNINGS, TROUBLE INDICATIONS, AND ERROR MESSAGES; AND REQUIRED SEQUENCES FOR ELECTRIC OR ELECTRONIC SYSTEMS.
    - 5.1.3. OPERATIONS: INCLUDE STARTUP, BREAK-IN, CONTROL, AND SAFETY PROCEDURES; STOPPING AND NORMAL SHUTDOWN INSTRUCTIONS; ROUTINE, NORMAL, SEASONAL, AND WEEKEND OPERATING INSTRUCTIONS; OPERATING PROCEDURES FOR EMERGENCIES AND EQUIPMENT FAILURE; AND REQUIRED SEQUENCES FOR ELECTRIC OR ELECTRONIC SYSTEMS.
    - 5.1.4. ADJUSTMENTS: INCLUDE ALIGNMENTS AND CHECKING, NOISE, VIBRATION, ECONOMY, AND EFFICIENCY ADJUSTMENTS.
    - 5.1.5. TROUBLESHOOTING: INCLUDE DIAGNOSTIC INSTRUCTIONS AND TEST AND INSPECTION PROCEDURES.
    - 5.1.6. CLEANING: PROCEDURES FOR PREVENTIVE AND ROUTINE MAINTENANCE, AND INSTRUCTION ON USE OF SPECIAL TOOLS.
    - 5.1.7. REPAIRS: INCLUDE DIAGNOSIS, REPAIR, AND DISASSEMBLY INSTRUCTIONS; INSTRUCTIONS FOR IDENTIFYING PARTS; AND REVIEW OF SPARE PARTS NEEDED FOR OPERATION AND MAINTENANCE.
  - 5.2. SCHEDULING: PROVIDE INSTRUCTION AT MUTUALLY AGREED ON TIMES. FOR EQUIPMENT THAT REQUIRES SEASONAL OPERATION, PROVIDE SIMILAR INSTRUCTION AT START OF EACH SEASON. SCHEDULE TRAINING WITH OWNER, WITH AT LEAST SEVEN DAYS' ADVANCE NOTICE. INFORM ENGINEER OF SCHEDULED TIMES.
6. SLEEVES AND FLASHING
  - 6.1. THE CONTRACTOR SHALL FURNISH AND SET ALL SLEEVES AND FLASHING FOR HIS WORK AS REQUIRED FOR PIPING, ETC. WHERE PASSING THRU FLOORS OR WALLS.
7. CUTTING AND PATCHING
  - 7.1. ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE SYSTEMS SPECIFIED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ACCOMPLISHED UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE ARCHITECT. COORDINATE WITH ALL OTHER TRADES. NO CUTTING OF STRUCTURAL WORK SHALL BE PERMITTED UNTIL THE ENGINEER GIVES APPROVAL.
8. DAMAGE TO OTHER WORK
  - 8.1. EACH CONTRACTOR WILL BE RESPONSIBLE FOR ALL DAMAGE CAUSED BY HIS WORK OR THRU NEGLIGENCE OF HIS WORKMAN. ALL PATCHING AND REPAIRING OF DAMAGED WORK WILL BE DONE BY THE CONTRACTOR WHO INSTALLED THE WORK, AS DIRECTED BY THE ARCHITECT OR ENGINEER, BUT COST OF SAME SHALL BE PAID BY CONTRACTOR CREATING DAMAGE.
9. CLEANING UP
  - 9.1. THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED WHILE PERFORMING WORK, AND AT COMPLETION OF WORK, HE SHALL REMOVE ALL RUBBISH, TOOLS, AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING. THE CONTRACTOR SHALL LEAVE THE AREA "BROOM CLEAN."
10. EQUIPMENT AND MATERIAL INSTALLATION
  - 10.1. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS AND REQUIREMENTS.
11. PIPING
  - 11.1. HEAT PUMP WATER
    - 11.1.1. 2" & SMALLER: TYPE "L" COPPER W/ WROUGHT COPPER FITTINGS AND GRADE 95TA SOLDER JOINTS.
  - 11.2. CONDENSATE DRAIN PIPING
    - 11.2.1. TYPE "L" COPPER W/ 95-5 SOLDER.
12. EQUIPMENT AND PIPE IDENTIFICATION
  - 12.2. LABEL EACH PIPE INDICATING ITS RESPECTIVE SERVICE W/ ARROWS SHOWING DIRECTION OF FLOW ADJACENT TO EACH LABEL. APPLY IDENTIFICATION AT FIFTY FEET MAXIMUM INTERVALS IN STRAIGHT RUNS, AT EACH WALL SLEEVE, AT EACH DIRECTION CHANGE, AT SHUT-OFF VALVES, AND IN ACCESS PANELS. LABELS SHALL BE INSTALLED IN ACCESSIBLE AREAS. PIPE IDENTIFICATION SHALL BE PAINTED STENCIL OR STANDARD PRE-PRINTED, STRAP-ON LABELS.
  - 12.3. IDENTIFY EQUIPMENT WITH PAINTED STENCIL OR BLACK MICARTA PLATES WITH WHITE ENGRAVED LETTERING AFTER COVERING OR FINISH PAINTING. STENCILING FOR EQUIPMENT SHALL BE 1-1/8" HIGH. EQUIPMENT NUMBERS SHALL CORRESPOND TO THOSE INDICATED ON THE DRAWINGS.
13. VALVES
  - 13.1. ALL VALVES TO BE PRESSURE RATED TYPE.
  - 13.2. BALL VALVES
    - 13.2.1. 2" & SMALLER: MSS SP-110 COMPLIANT AND DESIGNED FOR WATER, OIL, GAS OR STEAM IN COMMERCIAL OR LIGHT INDUSTRIAL USE. THE VALVE SHALL BE FULL PORT MADE FROM ASTM B584 CAST BRONZE. THE BALL SHALL BE SOLID STYLE, BRASS AND CHROME PLATED. MULTI-FILL PTFE SEATS AND SEALS AND AN ADJUSTABLE PACKING DESIGN SHALL BE USED AROUND A BLOW OUT PROOF BRASS STEM. THE VALVE SHALL BE RATED 600 PSIG CWP AND 150 PSIG SWP. END CONNECTIONS SHALL BE IN COMPLIANCE WITH ANSI B16.18. LEVER OPERATOR.
    - 13.2.1.1. ACCEPTABLE: APOLLO 77C OR PRE-APPROVED EQUAL BUTTERFLY VALVES

- 13.3. BALANCE VALVES
  - 13.3.1. MANUAL (CSBV)
    - 13.3.1.1. PRE-SET BALANCE FEATURE: VALVES TO BE DESIGNED TO ALLOW INSTALLING CONTRACTOR TO PRE-SET BALANCE POINTS FOR PROPORTIONAL SYSTEM BALANCE PRIOR TO SYSTEM START-UP.
    - 13.3.1.2. VALVE DESIGN AND CONSTRUCTION: ALL VALVES 1/2" TO 3" PIPE SIZE TO BE OF BRONZE BODY/BRASS BALL CONSTRUCTION WITH GLASS AND CARBON FILLED TFE SEAT RINGS. VALVES TO HAVE DIFFERENTIAL PRESSURE READ-OUT PORTS ACROSS VALVE SEAT AREA. READ-OUT PORTS TO BE FITTED WITH INTERNAL EPT INSERTS AND CHECK VALVES. VALVE BODIES TO HAVE 1/4" NPT TAPPED DRAIN/PURGE PORT. VALVES TO HAVE MEMORY STOP FEATURE TO ALLOW VALVE TO BE CLOSED FOR SERVICE AND THEN REOPENED TO SET POINT WITHOUT DISTURBING BALANCE POSITION. ALL VALVES TO BE CALIBRATED NAMEPLATES TO ASSURE SPECIFIC VALVE SETTINGS. VALVES SHALL BE DESIGNED FOR POSITIVE SHUT-OFF. DESIGN PRESSURE/TEMPERATURE: 200 PSIG AT 250°F.
    - 13.3.1.3. ACCEPTABLE: BELL & GOSSETT CIRCUIT SETTER, ARMSTRONG OR PRE-APPROVED EQUAL.
14. SOUND ATTENUATORS
  - 14.1. GENERAL
    - 14.1.1. FURNISH AND INSTALL ABSORPTIVE RECTANGULAR SILENCERS, SILENCER INLET AND OUTLET CONNECTIONS SHALL BE EQUAL TO THE DUCT SIZES SHOWN ON THE DRAWINGS. DUCT TRANSITIONS ARE NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS AND APPROVED BY THE ENGINEER.
  - 14.2. PERFORMANCE
    - 14.2.1. SILENCER PERFORMANCE CHARACTERISTICS INCLUDING INSERTION LOSS, PRESSURE DROP, AND GENERATED NOISE SHALL HAVE BEEN ATTAINED THROUGH TESTING IN ACCORDANCE WITH THE ASTM E477-06A TEST STANDARD FOR ACOUSTICAL DUCT SILENCERS. LABORATORY PERFORMANCE VERIFICATION MAY BE REQUESTED IN THE MANUFACTURER'S TEST FACILITY AND A COMPARATIVE TEST REPORT MADE AVAILABLE TO THE ENGINEER.
  - 14.3. CONSTRUCTION
    - 14.3.1. SILENCERS SHALL CONSIST OF SOLID STEEL CASINGS, PERFORATED LINERS AND ABSORPTIVE ACOUSTIC FIBERGLASS MEDIA.
    - 14.3.2. CONSTRUCTION CLASS 1: 22GA GALVANIZED CASING / 22GA GALVANIZED PERFORATED LINER
    - 14.3.3. THE SILENCER NOZZLES AND PERFORATED LINERS SHALL BE RIGIDLY FASTENED TO THE CASING OF THE SILENCER ON BOTH THE TOP AND BOTTOM.
    - 14.3.4. ACOUSTIC MEDIA SHALL BE SHOT FIBER FREE INORGANIC GLASS FIBER WITH LONG, RESILIENT FIBERS, BONDED WITH THERMOSETTING RESIN. GLASS FIBER SHALL BE PACKED WITH A MINIMUM 10% COMPRESSION TO ELIMINATE VOIDS AND SETTLING; DENSITY SHALL BE CONSISTENT WITH THAT USED TO GENERATE CATALOGUED TEST DATA.
    - 14.3.5. WHERE INTERNAL VELOCITIES EXCEED 4000 FPM A FIBERGLASS CLOTH SHALL BE ADDED TO THE SILENCER BETWEEN THE INTERNAL PERFORATED LINER AND THE ACOUSTIC MEDIA TO PROTECT THE MEDIA FROM EROSION.
    - 14.3.6. COMBUSTION RATINGS FOR ACOUSTIC MEDIA SHALL BE EQUAL TO OR LESS THAN THE COMBUSTION RATINGS NOTED BELOW WHEN TESTED IN ACCORDANCE WITH ASTM E84, UL723, AND NFPA255: FLAME SPREAD CLASSIFICATION: 25, SMOKE DEVELOPMENT RATING: 50
- 14.4. BASED ON PRICE "RM" MODELS.
15. BALANCING
  - 15.1. TAB CONTRACTOR QUALIFICATIONS: ENGAGE AN INDEPENDENT TAB ENTITY CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL (AABC); NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB); OR TESTING, ADJUSTING, AND BALANCING BUREAU (TABB).
  - 15.2. CERTIFY TAB FIELD DATA REPORTS AND PERFORM THE FOLLOWING:
    - 15.2.1. REVIEW FIELD DATA REPORTS TO VALIDATE ACCURACY OF DATA AND TO PREPARE CERTIFIED TAB REPORTS.
    - 15.2.2. CERTIFY THAT THE TAB TEAM COMPLIED WITH THE APPROVED TAB PLAN AND THE PROCEDURES.
  - 15.3. INSTRUMENTATION TYPE, QUANTITY, ACCURACY, AND CALIBRATION: AS DESCRIBED IN ASHRAE 111, SECTION 5, "INSTRUMENTATION."
  - 15.4. GENERAL PROCEDURES FOR TESTING AND BALANCING
    - 15.4.1. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN ASHRAE 111, NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS," OR SMACNA'S "HVAC SYSTEMS - TESTING, ADJUSTING, AND BALANCING."
    - 15.4.2. CUT DUCTS, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY FOR TAB PROCEDURES. AFTER TESTING AND BALANCING, PATCH PROBE HOLES IN DUCTS WITH SAME MATERIAL AND THICKNESS AS USED TO CONSTRUCT DUCTS. INSTALL AND JOIN NEW INSULATION THAT MATCHES REMOVED MATERIALS. RESTORE INSULATION, COVERINGS, VAPOR BARRIER, AND FINISH.
    - 15.4.3. MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.
    - 15.4.4. TAKE AND REPORT TESTING AND BALANCING MEASUREMENTS IN INCH-POUND (IP) UNITS.
  - 15.5. GENERAL PROCEDURES FOR BALANCING AIR SYSTEMS
    - 15.5.1. PREPARE TEST REPORTS. OBTAIN MANUFACTURER'S OUTLET FACTORS AND RECOMMENDED TESTING PROCEDURES. CROSSCHECK THE SUMMATION OF REQUIRED OUTLET VOLUMES WITH REQUIRED FAN VOLUMES.
    - 15.5.2. DETERMINE THE BEST LOCATIONS IN MAIN AND BRANCH DUCTS FOR ACCURATE DUCT-AIRFLOW MEASUREMENTS.
    - 15.5.3. VERIFY THAT MOTOR STARTERS ARE EQUIPPED WITH PROPERLY SIZED THERMAL PROTECTION.
    - 15.5.4. CHECK DAMPERS FOR PROPER POSITION TO ACHIEVE DESIRED AIRFLOW PATH.
    - 15.5.5. CHECK FOR AIRFLOW BLOCKAGES.
    - 15.5.6. CHECK CONDENSATE DRAINS FOR PROPER CONNECTIONS AND FUNCTIONING.
    - 15.5.7. VERIFY THAT AIR DUCT SYSTEM IS SEALED.
    - 15.5.8. ADJUST AIR SYSTEMS TO +/-10% OF DESIGN CONDITIONS.
  - 15.6. GENERAL PROCEDURES FOR HYDRONIC SYSTEMS
    - 15.6.1. PREPARE HYDRONIC SYSTEM BRANCH FOR TESTING AND BALANCING ACCORDING TO THE FOLLOWING, IN ADDITION TO THE GENERAL PREPARATION PROCEDURES SPECIFIED ABOVE:
      - 15.6.1.1. OPEN ALL MANUAL VALVES FOR MAXIMUM FLOW.
      - 15.6.1.2. SET SYSTEM CONTROLS SO AUTOMATIC VALVES ARE WIDE OPEN TO HEAT EXCHANGERS.
      - 15.6.1.3. CHECK AIR VENTS FOR A FORCEFUL LIQUID FLOW EXITING FROM VENTS WHEN MANUALLY OPERATED.
  - 15.9. PROCEDURES FOR CONSTANT-FLOW HYDRONIC SYSTEMS
    - 15.9.1. SET CALIBRATED BALANCING VALVES, IF INSTALLED, AT PREVIOUSLY MEASURED PRESETTINGS.
    - 15.9.2. VERIFY BALANCE OF EXISTING 1 1/2" BRANCH IN AREA OF WORK. ADJUST HYDRONIC SYSTEM IN THIS AREA TO +/-5% OF DESIGN CONDITIONS.
  - 15.10. FINAL REPORT
    - 15.10.1. GENERAL: PREPARE A CERTIFIED WRITTEN REPORT; TABULATE AND DIVIDE THE REPORT INTO SEPARATE SECTIONS FOR TESTED SYSTEMS AND BALANCED SYSTEMS.
    - 15.10.2. INCLUDE A CERTIFICATION SHEET AT THE FRONT OF THE REPORT'S BINDER, SIGNED AND SEALED BY THE CERTIFIED TESTING AND BALANCING ENGINEER.
    - 15.10.3. INCLUDE A LIST OF INSTRUMENTS USED FOR PROCEDURES, ALONG WITH PROOF OF CALIBRATION.
    - 15.10.4. INCLUDE PRE-CONSTRUCTION BALANCE INFORMATION.
    - 15.10.5. FINAL REPORT CONTENTS: IN ADDITION TO CERTIFIED FIELD-REPORT DATA, INCLUDE THE FOLLOWING: FAN CURVES, MANUFACTURERS' TEST DATA, FIELD TEST REPORTS PREPARED BY SYSTEM AND EQUIPMENT INSTALLERS, OTHER INFORMATION RELATIVE TO EQUIPMENT PERFORMANCE; DO NOT INCLUDE SHOP DRAWINGS AND PRODUCT DATA.
16. MECHANICAL DRAWINGS
  - 16.1. DRAWINGS SHOW ARRANGEMENT, GENERAL DESIGN, EXTENT OF WORK, ARE MORE OR LESS DIAGRAMMATIC WITH EQUIPMENT IN ITS GENERAL LOCATION. CONTRACTOR IS REQUIRED TO PROVIDE INSTALLATION THAT CONFORMS TO CODES, LAWS, RULES AND OR REGULATIONS WHETHER SPECIFICALLY DETAILED OR NOT.
  - 16.2. THE CONTRACTOR SHALL INSTALL/RELOCATE PIPING, DUCTWORK, ETC. TO ALLOW MAXIMUM CEILING HEIGHTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONTRACTORS OF ALL TRADES SHALL COORDINATE INSTALLATION OF THEIR RESPECTIVE EQUIPMENT/MATERIALS WITH EACH OTHER IN ORDER TO PROVIDE MAXIMUM SPACE TO MEET THE INTENT OF THE DESIGN.

**HEAT PUMP SCHEDULE**

TAG	TYPE	AREA	CFM	S.P.	COIL GPM	COOL MBH	HEAT MBH	EER	COP	V/ø	MCA	WEIGHT (LB)	REFRIG.	MODEL	NOTES
HP-35	HORIZONTAL CABINET	JUDGE'S CHAMBER	450	0.2	3.0	12.4	15.6	12.2	4.2	208/1	8.0	145	R-410A	RSH-012	1

BASED ON JOHNSON CONTROLS  
 NOTES:  
 1. PROVIDE WITH BRAIDED STAINLESS STEEL HOSE KIT, CONDENSATE PUMP.

PERFORMANCE CONDITIONS (PER MANUFACTURER):  
 COOLING EWT: 86°F      COOLING EAT: 81°DBT/66°WBT  
 HEATING EWT: 68°F      HEATING EAT: 68°DBT/59°WBT

**DIFFUSER & REGISTER SCHEDULE**

TAG	SYSTEM	NOMINAL FACE SIZE	NECK SIZE	STYLE	MODEL	NOTES
S1	SUPPLY	24x24	6	PLAQUE FULL FACE LAY-IN	SPD	1,2,3
S2	SUPPLY	24x24	8	PLAQUE FULL FACE LAY-IN	SPD	1,2,3
S3	SUPPLY	24x24	10	PLAQUE FULL FACE LAY-IN	SPD	1,2,3
S4	SUPPLY	12x12	6	PLAQUE FACE LAY-IN	SPD	1,2,3
R1	RETURN	24x24	22x22	PERFORATED FACE	PDDR	3

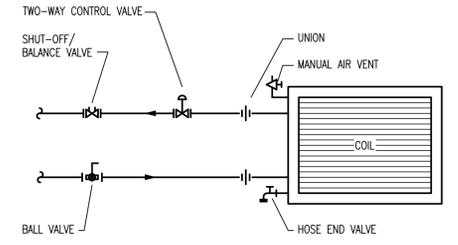
BASED ON PRICE NOTES:  
 1. 4-WAY THROW UNLESS NOTED OTHERWISE.  
 2. PROVIDE W/ BALANCE DAMPER.  
 3. DIFFUSERS & GRILLS SHALL BE WHITE U.N.O.

TAG KEY: TAG S1  
 CFM 150

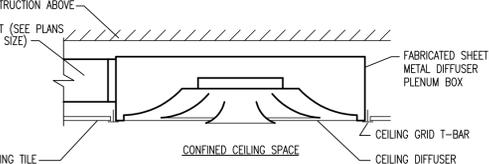
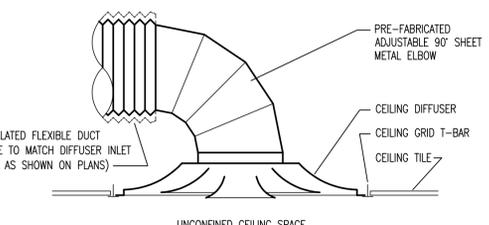
**ELECTRIC FIN RADIATION SCHEDULE**

TAG	STYLE	WATTS	BTU/H	V/ø	AMPS	HEATER LENGTH	CABINET SIZE	MODEL	NOTES
EFR	ARCH. STYLE ELEC. BASEBOARD HTR	750	2550	120/1	6.3	40"	3'x8.5"	E3707-040	1

BASED ON MARKEL (ACCEPTABLE: MARKEL)  
 NOTES:  
 1. PROVIDE W/ BUILT-IN THERMOSTAT, FACTORY DISCONNECT. COLOR BY ARCHITECT.



**HEAT PUMP PIPING SCHEMATIC**  
 NO SCALE



**DIFFUSER CONNECTION DETAILS**  
 NO SCALE

**MECHANICAL GENERAL NOTES**

1. ALL WORK TO COMPLY WITH ALL APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND ORDINANCES.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
3. SEAL ALL DUCT JOINTS.
4. PROVIDE ACCESS PANELS TO ALL VALVES, DAMPERS, TRAPS, FILTERS, EQUIPMENT, ETC.
5. COORDINATE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND CEILING MOUNTED EQUIPMENT WITH THE REFLECTED CEILING PLAN AND/OR LIGHTING PLAN.
6. DUCT SIZES NOTED REPRESENT NET FREE INTERIOR DIMENSIONS.
7. PROVIDE BALANCE DAMPERS IN EACH SUPPLY DUCT BRANCH.
8. HEAT PUMP WATER PIPING TO BE MINIMUM 3/4" DIAMETER.
9. ALL VALVES SHOWN ON FLOOR PLANS ARE IN ADDITION TO ALL VALVES SHOWN ON PIPING SCHEMATICS.
10. REFER TO PIPING SCHEMATIC DETAILS FOR UNIONS, VALVES, AIR VENTS, THERMOMETERS, ETC. REQUIRED AT SPECIFIC PIECES OF EQUIPMENT.
11. SUPPLY AIR DIFFUSERS MAY BE CONNECTED WITH A MAXIMUM 5 FEET OF INSULATED FLEXIBLE DUCT.
12. EQUIPMENT NUMBERS DO NOT NECESSARILY INDICATE QUANTITIES TO BE PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE QUANTITIES OF MATERIALS, EQUIPMENT, FIXTURES, ETC. BY CAREFUL REVIEW OF THE PLANS AND SPECIFICATIONS.
13. INSTALL DUCTWORK AS HIGH AS POSSIBLE TO ALLOW FOR CEILING HEIGHTS INDICATED ON REFLECTED CEILING PLAN. MINIMIZE VERTICAL OFFSETS IN DUCTWORK.

**MECHANICAL DEMOLITION GENERAL NOTES**

1. ALL SURFACES DISTURBED OR HOLES CREATED DUE TO DEMOLITION TO BE PATCHED TO MATCH SURROUNDING SURFACE.
2. ALL MATERIALS RESULTING FROM DEMOLITION OPERATION SHALL BE PROMPTLY REMOVED FROM PREMISES AND LEGALLY DISPOSED. CONTRACTOR TO CONTACT OWNER PRIOR TO REMOVAL AND TURN OVER TO OWNER ANY EQUIPMENT OR MATERIALS REQUESTED.
3. PIPE CAPPING TO BE DONE WITH MATERIALS TO MATCH EXISTING PIPING.
4. REMOVAL OF MECHANICAL EQUIPMENT SHALL INCLUDE REMOVAL OF CONTROLS, CONTROL WIRING/TUBING, THERMOSTATS, ETC.

**MECHANICAL SYMBOLS LIST**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR	M.C.	MECHANICAL CONTRACTOR
A.S.M.E.	AMERICAN SOCIETY OF MECH. ENGINEERS	N.A.	NOT APPLICABLE
BTU/H	BRITISH THERMAL UNITS PER HOUR	PSI	POUNDS PER SQUARE INCH
CD	CEILING DIFFUSER	R.A.	RETURN AIR
CFM	CUBIC FEET PER MINUTE	RAR	RETURN AIR REGISTER
COND	CONDENSATE	SAR	SUPPLY AIR
CSBV	CIRCUIT SETTER BALANCE VALVE	SA	SUPPLY AIR REGISTER
DBT	DRY BULB TEMPERATURE (°F)	S.P.	STATIC PRESSURE
DN	DOWN	U.N.O.	UNLESS NOTED OTHERWISE
EAT	ENTERING AIR TEMPERATURE	V/ø	VOLTAGE/PAGE (ELECTRICAL)
E.C.	ELECTRICAL CONTRACTOR	WBT	WET BULB TEMPERATURE
EFT	ELECTRIC FIN RADIATION	Ø-Ø	BALANCE VALVE (CSBV)
EWT	ENTERING WATER TEMPERATURE	⊕	BALL VALVE
EXG	EXISTING	⊕	CAP OR PLUG
FFP	FINS PER FOOT	⊕	CONNECT TO EXISTING
G.C.	GENERAL CONTRACTOR	⊕-Ø	CONTROL VALVE (TWO WAY)
GPM	GALLONS PER MINUTE	⊕	HOSE END VALVE
HPWR	HEAT PUMP WATER RETURN	⊕	MANUAL AIR VENT
HPWS	HEAT PUMP WATER SUPPLY	⊕	STRAINER
HP	HEAT PUMP	⊕	THERMOSTAT
KW	KILOWATT	⊕	UNION

P:\S&S Eng Projects\S&S Eng Projects-11\11-021-516\Mechanical\SSSE11021-N301.dwg, M3.1, 2/21/2011 17:34:04, scotfield

**TSSF ARCHITECTS, INC.**  
 ARCHITECTS  
 122 N. WASHINGTON AVENUE  
 SAGINAW, MICHIGAN



REMODELING TO:  
 PROBATE COUTROOM, JUDGES CHAMBERS, ADMINISTRATION  
**TUSCOLA COUNTY COURTHOUSE**  
 CARO, MICHIGAN

DATE **NO.**

DRAWN BY **SSC**  
 DATE **2/21/11**  
 APPROVED

SHEET NO.

**SNYDER & STALEY ENGINEERING, P.L.C.**  
 CONSULTING ENGINEERS  
 3085 BAY ROAD, SUITE 6  
 SAGINAW, MI 48603  
 PH: (989) 797-1710 FX: (989) 797-1715  
 PROJECT NO. 11-316-021

**M3.1**  
 OF .  
 PROJECT NO. **1046**

Tuscola County  
Probate Court Remodeling  
Caro, MI

TSSF Architects, Inc.  
122 N. Washington Avenue  
Saginaw, MI 48607

ADDENDUM NO. ONE

March 2, 2011

This addendum authorizes the following revisions to the plans and specifications dated February 22, 2011 for the above named project and will be considered fully a part of said plans and specifications.

Item 1: The following specification sections are a part of the project documents:

Section 00030, Section 00150, Section 00300, Section 00500, Section 00610, Section 00650, Section 00700, Section 00750, Section 00800, Section 01001. These sections are available on the county website via 2011-02-23-Probate-Court-Final-Full-Set\_2.pdf

Item 2: A walk thru has been scheduled for Tuesday, March 8, 2011, at 9:00 A.M. Meet in the existing Probate Court Room.

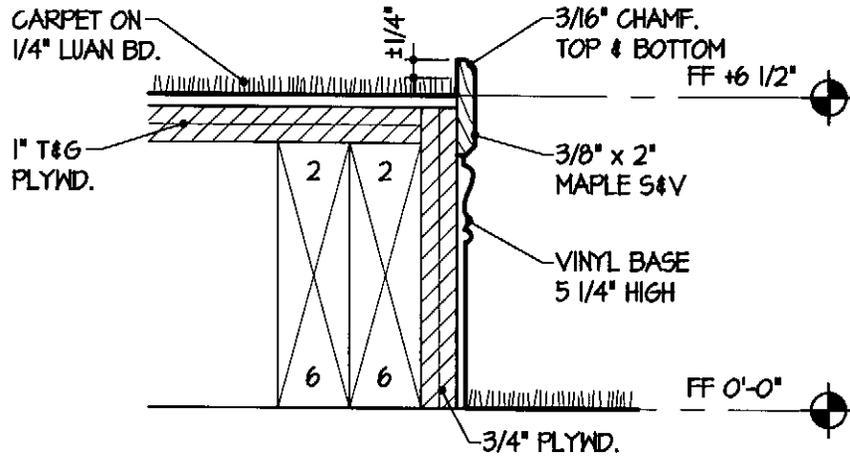
**ADDENDUM NO. TWO**

**March 9, 2011**

This addendum authorizes the following revisions to the plans and specifications dated February 22, 2011 for the above named project and will be considered fully a part of said plans and specifications.

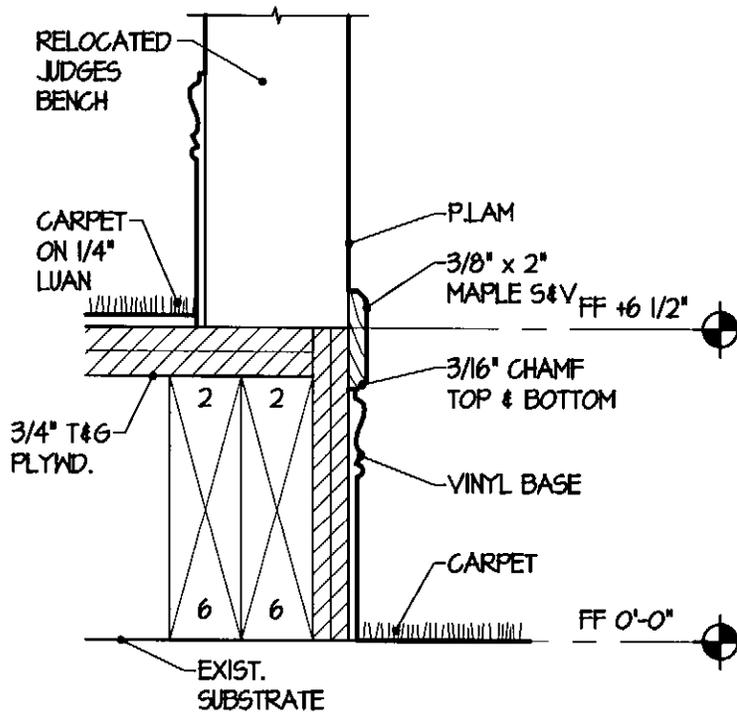
- Item 1: Revise Details 1/A2.0 and 2/A2.0. See Sketch 201.
- Item 2: Extend lobby finishes including, base carpet, ceiling, lighting for a distance of +/- 11'-0" towards County Clerk area. This is the passage across the Public Lobby.
- Item 3: The Owner will be utilizing Johnson Controls for the mechanical work on this project. Solicit and include Johnson Controls cost in your proposal.

Attached: Sketch 201



# STEP DETAIL

SCALE: 3" = 1'-0"



# DETAIL

SCALE: 3" = 1'-0"

REMODELING TO:  
 PROBATE COUTROOM, JUDGES CHAMBERS, ADMIN  
 TUSCOLA COUNTY COURTHOUSE  
 CARO, MICHIGAN



**TSSF ARCHITECTS, INC.**

ARCHITECTS

PLANNERS

122 N. WASHINGTON AVENUE

SAGINAW, MICHIGAN

DRAWN BY: A.D.Z.

DATE: 3/9/11

PROJECT NO. 1046

SHEET NO. SK-201