

A PROJECT OF THE
PEORIA PARK DISTRICT

TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, IL

PEORIA PARK DISTRICT
PEORIA, ILLINOIS



JULY 22, 2014

PROJECT #: 13-036

PROJECT MANUAL

PACKAGE #_____

PROJECT MANUAL INCLUDING SPECIFICATIONS FOR:

TAWNY OAKS WELCOME CENTER

715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS

ARCHITECT:

ANTHONY P. CORSO
1217 W. COLUMBIA TERRACE
PEORIA, IL 61606
anthonypcorso@gmail.com

OWNER:

PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA,
PEORIA, ILLINOIS

TRUSTEES:

TIMOTHY J. CASSIDY, PRESIDENT
ROBERT L. JOHNSON, SR.
JACQUELINE J. PETTY
JAMES T. HANCOCK
KELLY A. CUMMINGS
MATTHEW P. RYAN
NANCY L. SNOWDEN

PROJECT MANAGER:

MARY HARDEN
PLANNING, DESIGN & CONSTRUCTION DIVISION
BRADLEY PARK EQUIPMENT SERVICE
1314 N. PARK ROAD
PEORIA, ILLINOIS 61604
TELEPHONE: (309) 686-3386

ADMINISTRATIVE STAFF:

BONNIE W. NOBLE, EXECUTIVE DIRECTOR
MICHAEL BAIETTO, SUPERINTENDENT OF PARKS
JANET BUDZYNSKI, SUPERINTENDENT OF
FINANCE AND ADMINISTRATIVE SERVICES
BECKY FREDRICKSON, SUPERINTENDENT OF PLANNING,
DESIGN AND CONSTRUCTION
CYNDY MCKONE, SUPERINTENDENT OF
MARKETING/PUBLIC RELATIONS
DENNIS MANTICK, SUPERINTENDENT OF
RECREATION AND LEISURE SERVICE
SHALESSE PIE, SUPERINTENDENT OF HUMAN
RESOURCES
BILL ROEDER, SUPERINTENDENT OF RIVERFRONT
DIVISION
BRENT WHEELER, SUPERINTENDENT, RIVERPLEX
RECREATION AND WELLNESS CENTER
DAVID WHEELER, ADMINISTRATIVE ASSISTANT
BILL WOOLARD, SUPERINTENDENT OF GOLF

Address all communications regarding this work to the Project Manager listed above.

ADVERTISEMENT FOR BIDS

Sealed bids will be received by the Peoria Park District, Peoria, Illinois, hereinafter known as the Owner, for the following project:

Tawny Oaks Welcome Center
715 W. Singing Woods Rd.
Edelstein, IL

It is the intent of the Owner to receive Base Bids & Alternates for the project listed above.

Sealed bids will be received until Tuesday, August 12, 2014 @ 11:00 a.m. prevailing time, by the Owner, at the Peoria Park District Administrative Office, 1125 W. Lake Ave., Peoria, Illinois 61614. (The Board Room clock shall be the official time keeping device in respect to the bid submission deadline.)

An electronic file including Bid Documents is available at www.peoriaparks-planning.org at no charge. Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309) 686-3386. A non-refundable plan deposit of \$75.00 will be charged for each printed set of Bid Documents.

A list of planholders can be obtained upon request. This information will be available up to twenty-four (24) hours prior to the scheduled bid opening time. **After that deadline, no information pertaining to the project will be given.**

A 10% Bid Bond is required, and is to be included with the Bid Proposal. The successful Bidder will be required to furnish a 100% Performance Bond and a 100% Labor and Materials Payment Bond within ten (10) days of formal Award of Contract.

The general prevailing rate of wage for the Peoria area shall be paid for each craft or type of worker needed to execute this contract or perform this work as required by the State of Illinois Department of Labor. Additionally, it is required that provisions of the Illinois Preference Act, the Illinois Drug Free Workplace Act, and the Substance Abuse Prevention on Public Works Act must be adhered to. Bidders are also advised that contract documents for this project include the non-discrimination, equal opportunity and affirmative action provisions in the Human Rights Act and rules and regulations of the Department of Human Rights. The Peoria Park District is an AA/EEO organization and encourages participation by minority and female-owned firms.

This project is funded in part by an Open Space Land Acquisition and Development (OSLAD) Grant from the Illinois Department of Natural Resources.

The Peoria Park District reserves the right to reject any or all bids, waive technical deficiencies, informalities or irregularities or rebid any project.

PLEASURE DRIVEWAY AND PARK DISTRICT
OF PEORIA, ILLINOIS

BY: TIMOTHY J. CASSIDY, President

BY: V. JOYCE MCLEMORE, Secretary

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SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1. INSTRUCTIONS TO BIDDERS

- A. "Instructions to Bidders", AIA Document A701, 1997 Editions, published by the American Institute of Architects, including revisions adopted before date of this Project Manual, is hereby made part of these specifications with same force and effect as though set forth in full.
- B. The following modifies, changes, deletes from or adds 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 or deleted by these Supplementary Conditions, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.
- C. Parenthesis () indicates the appropriate section and Subparagraph of the Instructions to Bidders which each paragraph of the Supplementary Instructions to Bidders modifies or refers to.

2. PROJECT DESCRIPTION

- A. The Project description generally is as follows:
 - 1. **BASE BID:**

This project will convert an existing barn to a Welcome Center. Work shall include, but is not limited to, selective deconstruction, new concrete slab, partition walls and wood floor structure, accessible ramp, two bathrooms, plumbing, septic, electrical, mechanical, radiant floor heating, doors, windows and finish work.
 - 2. **ALTERNATES:**

Alternate #1: Use thermally broken aluminum entry door frames in lieu of standard aluminum door frames.

Alternate #2: Place 6" concrete floor slab in lieu of 4" concrete slab on main floor.
- B. **PRE-BID MEETING :**
 - 1. A pre-bid meeting will be held at the project site on Tuesday, July 29, 2014 @ 10 :00 a.m.

3. CODES AND PERMITS

- A. **COSTS ASSOCIATED WITH REGULATORY COMPLIANCE.** All Work performed in connection with this Project shall be in compliance with the requirements of all applicable local, state, and federal laws, regulations, and rules, as well as the requirements of the Construction Documents. The Bid Price shall reflect all costs of compliance to those requirements, whether or not specifically stated in the Construction Documents or specific sections of the Project Manual.
- B. **PERMITS/FEES.** Work shall not commence until all required building (and/or other) permits have been secured by the Contractor and copies of these permits submitted to the Owner's Representative. Cost of permits is to be included in the Bid Price.

4. BID GUARANTY

The bid must be accompanied by a Bid Guaranty which shall not be less than 10% of the amount of the Bid. At the option of the Bidder, the 10% Guaranty may be a Certified Check, Cashier's Check, or a Bid Bond. The Bid Bond shall be secured by a Guaranty or a Surety Company acceptable to the Owner. No bid will be considered unless it is accompanied by the required Guaranty. Funds must be made payable to the order of the Owner. Cash deposits will not be accepted. The Bid Guaranty shall ensure the execution of the Agreement and the furnishing of the Surety Bond or Bonds by the successful Bidder, all as required by the Contract Documents.

5. AWARD OF CONTRACT/REJECTION OF BIDS:

The Contracts will be awarded on the basis of Paragraph 5.3 of the Instructions to Bidders. The Bidders to whom the awards are made will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all Bids, to accept any combination of base bids and alternates and to waive any technical deficiencies, informalities, or irregularities in Bids received whenever such rejection or waiver is in its interest.

No bid shall be withdrawn for a period of sixty (60) days after the opening of bids without the consent of the Owner. The failure of the Bidder to submit a Bid Bond, Certified Check or Cashier's Check in the full amount to cover all proposals bid upon shall be sufficient cause for rejection of his bid. The award will be made contingent upon submittal and evaluation of Contractor's Qualification Statement, Bonds, Certificate of Insurance, Contractor Certification(s), including Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors, etc.

6. EXECUTION OF AGREEMENT:

Subsequent to the award and within ten (10) days after the prescribed forms are prepared and presented for signature by the Owner's Representative, the successful Bidder shall execute and return to the Owner's Representative an Agreement in the form included in the Contract Documents in such number of copies as the Owner may require. The President of the Board of Trustees will complete execution of Agreement after all bonds and any other required documents have been received by the Park District. One fully executed copy of Agreement will then be returned to Contractor.

7. PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND & INSURANCE

- A. **BONDS REQUIRED.** Having satisfied all conditions of award as set forth elsewhere in these Documents, the successful Bidder shall, within ten (10) calendar days after award of contract, furnish Surety Bonds in penal sums, each not less than the amount of the Contract

as awarded as security for the faithful performance of the Contract (Performance Bond), and for the payment (Labor and Materials Payment Bond) of all persons, firms or corporations to whom the Contractor may become legally indebted for labor, materials, tools, equipment or services employed or used by him in performing the work.

- B. FORM OF BONDS.** Such bonds shall be in the same form as the samples included in the Project Manual and shall bear the same date as or a date subsequent to that of the Agreement. The current Power of Attorney for the person who signs for any Surety Company shall be attached to such Bonds. Bonds shall be signed by a Guaranty or Surety Company acceptable to the Owner.
- C. COST OF PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND.** All costs for the Performance Bond/Labor and Material Payment Bond shall be included in the submitted Bid Price.
- D. INSURANCE.** Insurance requirements for this project are addressed both in the Supplementary General Conditions and in "Attachment A.6", in the "Exhibits" section of this Project Manual.
 - a) In respect to the property ("builders risk") insurance coverages referenced in the Supplementary General Conditions: the successful Bidder will be required to provide such coverages as the work of the Project will be accomplished by one general contractor(s).
- E. TIME FRAMES.** The successful Bidder shall, within ten (10) days after award of contract by the Board of Trustees, submit Proof of Insurance coverages/Bonds in the form and amounts required to the Owner's Representative. Should the Bidder be unable to provide the required Proof of Insurance(s)/Bonds within the specified ten day period the Owner reserves the right, at its sole discretion, to withdraw its award of contract from that Bidder.

8. DEFAULT

- A.** The failure of the successful Bidders to execute the Agreement, supply the required Bonds or proof of required insurance coverage(s) within (ten) 10 days after award of contract, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Owner, may constitute a default. In such case, award of contract will be transferred to the second lowest bidder.

9. CONTRACTOR'S QUALIFICATION STATEMENT

- A.** Contractor's Qualification Statement (AIA Document 305) shall be submitted by low bidder for evaluation prior to award of contract if so requested by the Owner or his representatives.

10. LIST OF SUBCONTRACTORS/PRODUCT & EQUIPMENT SUBSTITUTIONS

- A.** Each Bidder shall submit a "MAJOR SUBCONTRACTORS LIST" proposed to be used in the execution of the Work. If there will be no subcontractors, the Bidder shall state "No Subcontractors" on this form. The completed form is due with the Bid Proposal.
 - 1) Identify the trade name, address, telephone number, and category of work of each subcontractor.
 - 2) Failure to submit the "Major Subcontractors List" with the Bid Proposal may result in the rejection of the Bid.
 - 3) Delete Subparagraphs (6.3.1.1) and (6.3.1.2) from AIA A701.
- B.** The Bidder, by submission of a signed bid form, agrees to install all products and equipment by brand name or names specified in the Technical Specifications sections of this Project Manual. "Or equal" substitutions will be allowed only if approved in writing prior to the bid opening and listed in the "Substitutions" section of the Bid Form.

11. CONTRACT ADMINISTRATION FORMS/COSTS OF FORMS

- A. REQUIRED FORMS.** The following AIA forms will be used (AIA forms will be supplied by the Owner if requested, and charged to the Contractor at cost) in the administration of the project:
 - 1) **AIA Document A310:** "Bid Bond", February 1970 edition
 - 2) **AIA Document A305:** "Contractor's Qualification Statement", 1986 edition
 - 3) **AIA Document G702:** "Application and Certificate of Payment", May 1992 edition
 - 4) **AIA Document G703:** "Continuation Sheet", May 1992 edition
- B. OTHER FORMS.** Other contract administration forms (to be provided by the Owner unless otherwise noted) required for use in the Project are:
 - 1) **Major Subcontractors List**
 - 2) **Contractor's Affidavit**
 - 3) **Individual Contractor Form**
 - 4) **Corporate or Partnership Form**
 - 5) **Performance Bond**
 - 6) **Labor and Material Payment Bond**
 - 7) **Lien Waiver Forms**

- 8) **Weekly Workforce Report**
- 9) **Certified Payroll Form** (Contractor may use own form)
- 10) **Insurance Forms: As required in Attachment A (at end of Project Manual)** (will not be provided by Owner)
- 11) **Agreement Between Owner and Contractor**
- 12) **Contractor Compliance Form**

Examples of these forms are included in the Project Manual.

13. CONSTRUCTION TIME AND LIQUIDATED DAMAGES CLAUSE:

2.5.1 PROJECT COMPLETION. The Agreement will include the following paragraph(s) or language substantially the same, regarding construction time and liquidated damages:

- 1) **LIQUIDATED DAMAGES:** Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not Substantially Complete within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
- 2) Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty) Contractor shall pay Owner TWO HUNDRED AND FIFTY DOLLARS (\$250.00) for each calendar day that expires after two hundred twelve (12) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on August 28, 2014 and be at Substantial Completion by March 27, 2015.
- 3) After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within ten (10) calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner TWO HUNDRED AND FIFTY DOLLARS (\$250.00) dollars for each day that expires after the time specified.
- 4) Owner and Contractor agree that the per day liquidated damage amounts set forth in subparagraphs "2" and "3" of this section constitute a reasonable forecast of the financial losses, actual costs and increased expenses the Owner may incur as a result of delayed Substantial or Final Completion of the Project.

14. PROJECT MANUAL/PLANS & SITE VISITATION

- A. A set of Bid Documents may be examined, at no charge, at the office of the Owner's Representative.
- B. **PLAN DEPOSIT.** An electronic file including Bid Documents is available at www.peoriaparks-planning.org at no charge. A printed set of Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309)686-3386. A non-refundable plan deposit of \$75.00 will be charged for each printed set of Bid Documents.
- C. **FAMILIARITY WITH BID DOCUMENTS & SITE VISITATION.** Bidders, by submission of their Bids, represent that they have visited the site to acquaint themselves with the local conditions in which the Work is to occur, and that they are familiar with all the requirements of the Project, as defined in the Project Manual and the Plan(s).

15. OTHER MODIFICATIONS TO AIA-701/OTHER CONDITIONS

- A. Add the following sentence to (4.1.7): "Bidder shall submit two (2) completed copies of Bid Form and retain one (1) copy for his files."
- B. Delete Section (6.2) - "Owner's Financial Capability"; and last sentence of Paragraph (4.2.1.)
- C. In reference to (7.2.1), the Peoria Park District reserves the right of final approval of bonding companies.
- D. Delete paragraph (7.1.3).

16. EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT

- A. The "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" shall be filled out and returned with the Bid. Failure to submit a completed "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" may result in rejection of the bid.
- B. Effective July 1, 1993, every party to a public contract and every party bidding on public contracts is required to have a written "Sexual Harassment Policy" that contains:
 - 1) A definition of sexual harassment under state law;
 - 2) A description of sexual harassment utilizing examples;
 - 3) A formalized complaint procedure;

- 4) A statement of victim's rights;
- 5) Directions on how to contact the Illinois Department of Human Rights - **Illinois companies**. Out-of-State companies must include directions on how to contact the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
- 6) A recitation that there cannot be any retaliation against employees who elect to file charges.

Recommendation: Your "**Sexual Harassment Policy**" should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

In order to conduct business with the Peoria Park District, you must have a written "Sexual Harassment Policy" that conforms to the new Act.

FAILURE TO DO SO WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR.

- C. Lowest responsible bidder not meeting the Park District's goal of 12% for minority/women participation, must provide proof of efforts made in contacting an adequate number of minority and women owned firms and/or labor.

17. BID SUBMISSION

- A. **DATE, TIME & PLACE OF RECEIVING BIDS.** Bids will be received until the date and time listed in the "Advertisement for Bids", at which time they will be publicly opened, read aloud and recorded. The Bid Opening will be held at the place listed in the "Advertisement for Bids".
- B. **REQUIRED ITEMS.** The following items must be included as part of the "BID":
 - 1) Two (2) signed copies of the **BID FORM**. (Retain the third copy for your files.)
 - 2) The **PEORIA PARK DISTRICT CERTIFICATE OF EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE FOR CONTRACTORS AND VENDORS FORM** and **SEXUAL HARASSMENT POLICY**.
 - 3) The **WORKFORCE PROFILE**.
 - 4) The **ILLINOIS DRUG FREE WORKPLACE CERTIFICATION**.
 - 5) The **CONTRACTOR CERTIFICATION** (individual or corporate/partnership).
 - 6) The **LIST OF SUBCONTRACTORS**. (Submit form and state "No Subcontractors" on the form, if none will be used.)
 - 7) The **BID GUARANTY**.
 - 8) The **CERTIFICATION OF SAFETY COMPLIANCE**.
 - 9) **SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION**
 - 10) **CONTRACTOR COMPLIANCE FORM**
- C. **BID SUBMISSION.** The "BID" shall be enclosed in envelopes (outer and inner), both of which shall be sealed and clearly labeled with the following information, in order to prevent premature opening of the bid:
 - "PROPOSAL"
 - NAME OF PROJECT
 - NAME OF BIDDER
 - DATE/TIME OF BID OPENING

END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Bid From: _____

PROJECT NO. 13-036
BID FOR: TAWNY OAKS WELCOME CENTER
LOCATION: EDELSTEIN, IL

BID FORM

BID TO: PEORIA PARK DISTRICT

UNDERSIGNED:

1. Acknowledges receipt of:
 - A. Project Manual and Drawings for:
Tawny Oaks Welcome Center
 - B. Addenda: No. _____ through No. _____
2. Has examined facility and the bid documents and shall be responsible for performing work specifically required of him by all parts of bidding documents including specifications for entire project, even though such work may be included as related requirements specified in other divisions or sections.
3. And agrees to enter into and execute Contract with Owner, if awarded on basis of this bid, and to:
 - A. Furnish Bonds and Insurance required by the Bidding & Contract Documents.
 - B. Accomplish work in accord with Contract.
 - C. Complete work within specified Contract time.
4. **CONTRACT TIME:** Contractor agrees to Substantially Complete ALL WORK as required by the Contract Documents per the Supplementary General Conditions and Supplementary Instructions to Bidders.
5. **BASE BIDS:**
 - A. Base Bid:
Bidder agrees to perform all building and site work, as set forth in the Project Manual and Drawings for the sum of:

_____ Dollars (\$_____._____)
6. **ALTERNATES:**
Bidder agrees to perform all building and/or site work items as set forth below. The prices submitted may be accepted either at the time of Base Bid approval or up to no later than ninety (90) days after award of the Bid; however, if not approved at the time of the award of the Base Bid, the contract times as set forth in the Project Manual and Drawings will be adjusted to compensate for the additional time taken in award of the Alternate:

Bid From: _____

PROJECT NO. 13-036
BID FOR: TAWNY OAKS WELCOME CENTER
LOCATION: EDELSTEIN, IL

A. Add Alternate #1:

Use thermally broken aluminum entry door frames in lieu of standard aluminum door frames.

_____ Dollars (\$_____._____)

B. Add Alternate #2:

Place 6" concrete floor slab in lieu of 4" concrete slab in first floor.

_____ Dollars (\$_____._____)

7. **UNIT PRICES:**

- A. Bidders submitting prices for the Base Bid shall submit Unit Prices for adding or deleting work. Unit Prices shall include all costs, including but not limited to preparation, labor, equipment, and materials necessary for a complete installation.

<u>ITEM</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
Haul away and dispose of excess soil from septic system	C.Y.	\$_____

8. **PROPOSED SUBSTITUTION LIST:**

Base Bid(s) and Alternates are understood to include only those product brands, items, and elements which are specified in the Bid Documents. The following is a list of substitute products, equipment or methods of construction which the Bidder proposes to furnish on this project, with difference in price being added or deducted from Base Bid(s).

Bidder understands that acceptance of any proposed substitution which has not been approved as an "equal" to the product brand, item, or element specified prior to bid opening is at Owner's option. Approval or rejection of any substitutions listed below will be indicated before executing Contract.

<u>ITEM</u>	<u>ADD</u>	<u>DEDUCT</u>
_____	\$_____	\$_____
_____	\$_____	\$_____
_____	\$_____	\$_____

9. **BIDDERS CHECKLIST:**

Did you visit the site?	Yes	No
Is Bid Security enclosed? (If applicable)	Yes	No
Is Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors and Sexual Harassment Policy enclosed?	Yes	No

Bid From: _____

PROJECT NO. 13-036
BID FOR: TAWNY OAKS WELCOME CENTER
LOCATION: EDELSTEIN, IL

Is Workforce Profile enclosed?	Yes	No
Is List of Subcontractors enclosed?	Yes	No
Is Contractor Certification enclosed?	Yes	No
Is Ill. Drug Free Workplace Certification enclosed?	Yes	No
Is Certificate of Safety Compliance enclosed?	Yes	No
Is Substance Abuse Prevention Program Certification enclosed?	Yes	No

10. **BIDDER INFORMATION:**

NAME OF BIDDER: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE NO.: _____

BY: _____
(Signature of Authorized Official)

TITLE: _____

BIDDER'S SEAL

WITNESS: _____

END OF BID FORM



Peoria Park District
Certificate of Equal Employment Opportunity Compliance
for
Contractors and Vendors

Office Use Only:
Approved: _____
Date: _____

Disclosure of the information requested in this form is required by the Peoria Park District. Failure to properly complete and sign this form will result in it being returned unprocessed thereby resulting in a delay or denial of eligibility to bid.

As part of the Company's commitment to equal employment opportunity practices, this company does the following:

- Recruits, trains, upgrades, promotes and disciplines persons without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all recruitment sources that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- When advertising is used, specifies that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all labor organizations which furnish this company with any skilled or non-skilled labor of the Company's responsibility to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Notifies all of its sub-contractors of their obligation to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Has an affirmative action program that assures the company's fair employment practices are understood and carried out by all of its managerial, administrative and supervisory personnel.

Is the Company a minority/woman owned business (MBE/WBE)? ____ YES ____ NO

The Company does not discriminate against any employees or applicants for employment because of race, color, religion, sex, national origin, veteran status, age, mental or physical ability.

The Company does not maintain segregated facilities for any of its employees on the basis of race, religion, color, national origin, because of habit, local custom, or otherwise.

By signing this form, the Company attests that it complies with all statements listed above as part of the Company's commitment to equal employment opportunity practices. The Company further agrees that it has completed the attached Workforce Profile Sheet truthfully, to the best of its knowledge.

Company Name

Company Address

Signature of Company Official

Name / Title

Telephone Number & Fax Number

Email Address

Rev. 6/2012

WORKFORCE PROFILE - FULL TIME ONLY

Job Classifications	Total Employees		Black		Hispanic		Native American		Asian		Veteran		Disabled	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1. Officials, Managers, Supervisors														
2. Professionals														
3. Technicians														
4. Sales														
5. Office/Clerical														
6. White Collar Trainees:														
7. Skilled Crafts:														
8. Apprentices:														
9. On-the-job Trainees:														
10. Semi-skilled														
11. Service Workers														
12. Unskilled														
TOTALS														

WORKFORCE PROFILE INSTRUCTIONS

RACE/ETHNIC IDENTIFICATION

WHITE (not of Hispanic origin): All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

BLACK (not of Hispanic origin): All persons having origins in any of the Black racial groups of Africa.

HISPANIC: All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

ASIAN or PACIFIC ISLANDER: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.

NATIVE AMERICAN or ALASKAN NATIVE: All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

DESCRIPTION OF JOB CLASSIFICATIONS

OFFICIALS, MANAGERS, AND SUPERVISORS - Occupations requiring administrative personnel who set broad policies, and exercise over-all responsibility for the execution of these policies, and direct individual departments or special phases of a firm's operations. Includes: officials, executives, middle management, plant managers, department managers/superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

PROFESSIONALS - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants/auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, personnel and labor relations workers, physical scientists, physicians, social scientists, teachers, and kindred workers.

TECHNICIANS - Occupations requiring combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes: drafters, engineering aids, junior engineers, scientific assistants, surveyors, technical illustrators, technicians (medical, dental, electronic physical sciences), and kindred workers.

SALES WORKERS - Occupations engaging wholly or primarily in direct selling. Includes: advertising agents/salespersons, insurance agents/brokers, real estate agents/brokers, stock and bond salespersons, demonstrators, salespersons and sales clerks, and kindred workers.

OFFICE AND CLERICAL WORKERS - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly non-manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, cashiers, collectors (bills and accounts), messengers and office couriers, office machine operators, shipping and receiving clerks, stenographers, typist and secretaries, telegraph and telephone operators, and kindred workers.

WHITE COLLAR TRAINEES - Persons engaged in formal training for official, managerial, professional, technical, sales, office and clerical occupations.

SKILLED CRAFTS - Manual worker of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

APPRENTICES - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with a Federal or State agency.

ON-THE-JOB TRAINEES - Persons engaged in formal training for craftsmen when not trained under apprentice programs; semi-skilled, unskilled and service occupations.

SEMI-SKILLED WORKERS - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

SERVICE WORKERS - Workers in both protective and non-protective service occupations. Includes: attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, fire fighters, guards, watchmen and doorkeepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, and kindred workers.

UNSKILLED WORKERS - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require the application of little or no independent judgement. Includes: garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, craftsmen and wood choppers, laborers performing lifting, digging, mixing loading and pulling operations, and kindred workers.

PLEASE BE ADVISED!

Every party to a public contract and every party bidding on public contracts are required to have a written sexual harassment policy that contains:

- (1) a definition of sexual harassment under state law;
- (2) a description of sexual harassment utilizing examples;
- (3) a formalized complaint procedure;
- (4) a statement of victims rights;
- (5) directions on how to contact the Illinois Department of Human Rights – **Illinois companies.** **Out-of-State companies must include directions on how to contact the enforcement agency within their state.** Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
- (6) a recitation that there cannot be any retaliation against employees who elect to file charges.

Recommendation: Your sexual harassment policy should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

In order to conduct business with the PEORIA PARK DISTRICT, you must have a written sexual harassment policy that conforms to the new ACT.

**FAILURE TO DO SO
WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR!!!**

Please be advised, effective July 1, 1993, Governor Jim Edgar established under Executive Order Number 7 (Public Act 87-1257) that every party to a public contract and every party bidding on a public contract within the State of Illinois must have a written policy statement prohibiting sexual harassment. The following model policy statement is a draft copy provided for use in formulating your company's policy statement

SEXUAL HARASSMENT POLICY STATEMENT

It is the responsibility of each individual employee to refrain from sexual harassment and it is the right of each individual employee to work in an environment free from sexual harassment.

DEFINITION OF SEXUAL HARASSMENT

According to the Illinois Human Rights Act, sexual harassment is defined as:

Any unwelcome sexual advances or requests for sexual favors or any conduct of a sexual nature when

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for employment decision(s) affecting such individual; or
3. such conduct has the purpose or effect of substantially interfering with an individual's work performance or creating an intimidating, hostile, or offensive working environment.

The courts have determined that sexual harassment is a form of discrimination under Title VII of the U.S. Civil Rights act of 1964, as amended in 1991. One such example is a case where a qualified individual is denied employment opportunities and benefits that are, instead, awarded to an individual who submits (voluntarily or under duress) to sexual advances or sexual favors. Another example is where an individual must submit to unwelcome sexual conduct in order to receive an employment opportunity.

Other conduct commonly considered to be sexual harassment includes.

- ⇒ Verbal: Sexual innuendoes, suggestive comments, insults, humor and jokes about sex, anatomy or gender-specific traits, sexual propositions, threats, repeated requests for dates, or statement about other employees, even outside of their presence, of a sexual nature.
- ⇒ Non-Verbal: Suggestive or insulting sounds (whistling), leering, obscene gestures, sexually suggestive bodily gestures, "catcalls", "smacking" or "kissing" noises.
- ⇒ Visual: Posters, signs, pin-ups, slogans of a sexual nature.
- ⇒ Physical: Touching, unwelcome hugging or kissing, pinching, brushing the body, coerced sexual intercourse or actual assault.

Sexual harassment most frequently involves a man harassing a woman. However, it can also involve a woman harassing a man or harassment between members of the same gender.

The most severe and overt forms of sexual harassment are easier to determine; however, some sexual harassment is more subtle and depends to some extent on individual perception and interpretation. The trend in the courts is to assess sexual harassment by a standard of what would offend a "reasonable woman" or a "reasonable man", depending upon the gender of the alleged victim.

An example of the most subtle form of sexual harassment is the use of endearments. The use of terms such as "honey", "darling", and "sweetheart" is objectionable to many women who believe that these terms undermine their authority and their ability to deal with men on an equal and professional level.

Another example is the use of a compliment that could potentially be interpreted as sexual in nature. Below are three statements that might be made about the appearance of a woman in the workplace:

- ⇒ “That’s an attractive dress you have on.”
- ⇒ “That’s an attractive dress. It really looks good on you.”
- ⇒ “That’s an attractive dress. You really fill it out well.”

The first statement appears to be simply a compliment. The last is most likely to be perceived as sexual harassment depending on individual perceptions and values. To avoid the possibility of offending an employee, it is best to follow a course of conduct above reproach, or to err on the side of caution.

RESPONSIBILITY OF INDIVIDUAL EMPLOYEES

Each individual employee has the responsibility to refrain from sexual harassment in the workplace. An individual employee who harasses a fellow worker is, of course, liable for his or her individual conduct. The harassing employee will be subject to disciplinary action up to and including discharge in accordance with company/organization policy or a collective bargaining agreement, as appropriate.

RESPONSIBILITY OF SUPERVISORY PERSONNEL

Each supervisor is responsible for maintaining a workplace free of sexual harassment. This is accomplished by promoting a professional environment and by dealing with sexual harassment as with all other forms of employee misconduct.

The courts have found companies/organizations as well as supervisors can be held liable for damages related to sexual harassment by a manager, supervisor, employee, or third party (an individual who is not an employee but does business with a company/organization, such as a contractor, customer, sales representative, or repair person).

Liability is based either on a company/organization's responsibility to maintain a certain level of order and discipline, or on the supervisor acting as an agent of the company/organization. As such, supervisors must act quickly and responsibly, not only to minimize their own liability, but also that the company/organization.

DRAFT

RESOLUTION OUTSIDE THE COMPANY/ORGANIZATION

It is hoped that most sexual harassment complaints and incidents can be resolved within a company/organization. However, an employee has the right to contact the Illinois Department of Human Rights (IDHR) or the U.S. Equal Employment Opportunity Commission (EEOC) about filing a formal complaint. An IDHR complaint must be filed within 180 days of the alleged incident(s) unless it is a continuing offense. A complaint with EEOC must be filed within 300 days.

Illinois Department of Human Rights

(217) 785-5100 – Springfield
(217) 785-5125 – TDD Springfield
(312) 814-6200 – Chicago
(312) 263-1579 – TDD Chicago

Illinois Human Rights Commission

(217) 785-4350 – Springfield
(217) 785-5125 – TDD Springfield
(312) 814-6269 – Chicago
(312) 814-4760 – TDD Chicago

U.S. Equal Employment Opportunity Commission

(312) 353-2613 – Chicago District Office
(800) 669-4000 – Toll Free Within State of Illinois
(800) 669-6820 – TDD Chicago

An employee who is suddenly transferred to a lower paying job or passed for promotion, after filing a complaint with IDHR or EEOC, may file a retaliation charge, also due 180 days (IDHR) or 300 days (EEOC) from the alleged retaliation.

An employee who has been physically harassed or threatened while on the job may also have grounds for criminal charges of assault and battery.

FALSE AND FRIVOLOUS COMPLAINTS

False and frivolous charges refer to cases where the accuser is using a sexual complaint to accomplish some end other than stopping sexual harassment. It does not refer to charges made in good faith which cannot be proven. Given the seriousness of the consequences for the accused, a false and frivolous charge is a severe offense that can itself result in disciplinary action.



ILLINOIS DRUG FREE WORKPLACE CERTIFICATION

The undersigned Contractor/Vendor hereby certifies that it will comply with all provisions of the Illinois Drug Free Workplace Act of 1991.

Dated this _____ day of _____, 20 _____

Contractor/Vendor

By: _____



SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION

Project Name: _____

Location: _____

The Substance Abuse Prevention on Public Works Act Public Act 95-0635, prohibits the use of drugs and alcohol, as defined in the Act, by employees of the Contractor and by employees of all approved Subcontractors while performing work on a public works project. The Contractor/Subcontractor herewith certifies that it has a superseding collective bargaining agreement or makes the public filing of its written substance abuse prevention program for the prevention of substance abuse among its employees who are not covered by a collective bargaining agreement dealing with the subject as mandated by the Act.

A. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has signed collective bargaining agreements that are in effect for all of its employees, and that deal with the subject matter of Public Act 95-0635.

Contractor/Subcontractor

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative Date

B. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has in place, for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act, the attached substance abuse prevention program that meets or exceeds the requirements of Public Act 95-0635.

Contractor/Subcontractor

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative Date



CERTIFICATION OF SAFETY COMPLIANCE

The undersigned Contractor/Vendor hereby certify that they and their sub-contractors will comply with any and all prevailing occupational safety and health standards including, but not limited to the following: hazard communication, hearing conservation, respirator use, permit required confined space entry, scaffolding, personal protective equipment, ladder usage, ventilation, flammable and combustible liquids handling and storage and lockout/tagout. Such compliance may include a training component or require a written program of compliance.

Dated this day of _____, 20 ____.

CONTRACTOR/VENDOR: _____

By: _____

“CONTRACT COMPLIANCE ATTACHMENT”

THIS PROJECT IS BEING FUNDED, IN PART, WITH FUNDS MADE AVAILABLE THROUGH THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES “OPEN SPACE LANDS ACQUISITION & DEVELOPMENT (OSLAD)” GRANT PROGRAM. THE FOLLOWING ARE COMPLIANCE REQUIREMENTS THAT SHALL BE INCORPORATED INTO AND MADE A PART OF ANY CONTRACT ISSUED PURSUANT THERETO.

1. The Contractor shall abide by and comply with all applicable local and State laws relating to 1) fair employment practices, affirmative action and prohibiting discrimination in employment as set forth in the IL Human Rights Act; 2) any and all applicable workmen’s compensation laws; and 3) wages and claims of laborers, mechanics and other workmen, agents, or servants in any manner employed in connection with contracts involving public funds or the development or construction of public works, buildings or facilities. The scale of wages to be paid shall be obtained from the IL Dept. of Labor and posted by the Contractor in a prominent and accessible place at the project work site.
2. The Contractor shall personally and individually agree and covenant, and shall furnish and provide evidence of general liability insurance in the amount of \$1,000,000.00, and shall indemnify, protect, defend at its own cost, and hold harmless the Local Agency and DNR from and against all losses, damages, injuries, or claims thereof to or by persons or property, arising out of, through, or by virtue of the construction and development of the specified project facilities.
3. The Contractor certifies that to the best of its knowledge, no officer or employee has been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has any officer or employee made an admission of guilt of such conduct which is a matter of record.
4. The Contractor certifies it has not been barred from being awarded a contract with a unit of State or local government as a result of a violation of Section 33E-3 or 33E-4 of the Criminal Code of 1961 (bid rigging or bid rotating).
5. The Contractor certifies, pursuant to the Illinois Human Rights Act (775 ILCS 5/2-105), that it has a written sexual harassment policy that includes, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment utilizing examples; (iv) the Contractor’s internal complaint process including penalties; (v) the legal recourse, investigation and complaint process available through the IL Dept. of Human Rights and the Human Rights Commission and directions on how to contact both; and (vi) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act. A copy of the policy shall be provided to the Dept. of Human Rights upon request.
6. The Contractor shall abide by the *“Employment of Illinois Workers on Public Works Act” (30 ILCS 570, sec 1-7)* which stipulates that whenever there is a period of excessive unemployment in Illinois, defined as any month immediately following two (2) consecutive calendar months during which the level of unemployment in Illinois exceeds five percent (5%) as measured by the U.S. Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ only Illinois laborers unless otherwise exempted as so stated in the Act. (“Illinois laborer” means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.) Other laborers may be used IF Illinois laborers are not available or are incapable of performing the particular type of work involved if so certified by the Contractor and approved by the project Engineer and Illinois Department of Natural Resources.

7. The Contractor certifies that neither it nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U. S. Department of Commerce promulgated under that Act.
8. Contractor certifies it and its employees will comply with applicable provisions of the U.S. Civil Rights Act, Section 504 of the Federal Rehabilitation Act, the Americans with Disabilities Act (42 U.S.C. 12101 et seq.) and applicable rules in performance under this contract.
9. Contractor certifies it is not in default on an educational loan (5 ILCS 385/3). This applies to individuals, sole proprietorships, partnerships and individuals as members of LLCs.
10. Contractor (if an individual, sole proprietor, partner or an individual as member of a LLC) certifies it has not received an (i) an early retirement incentive prior to 1993 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code, 40 ILCS 5/14-108.3 and 40 ILCS 5/16-133.3 or (ii) an early retirement incentive on or after 2002 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code, 40 ILCS 5/14-108.3 and 40 ILCS 5/16-133, (30 ILCS 105/15a).
11. Contractor certifies it is a properly formed and existing legal entity (30 ILCS 500/1.15.80, 20-43); and as applicable has obtained an assumed name certificate from the appropriate authority, or has registered to conduct business in Illinois and is in good standing with the Illinois Secretary of State.
12. To the extent there was an incumbent Contractor providing the services covered by this contract and the employees of that Contractor that provide those services are covered by a collective bargaining agreement, Contractor certifies (i) that it will offer to assume the collective bargaining obligations of the prior employer, including any existing collective bargaining agreement with the bargaining representative of any existing collective bargaining unit or units performing substantially similar work to the services covered by the contract subject to its bid or offer; and (ii) that it shall offer employment to all employees currently employed in any existing bargaining unit performing substantially similar work that will be performed under this contract (30 ILCS 500/25-80). This does not apply to heating, air conditioning, plumbing and electrical service contracts.
13. Contractor certifies it has not been convicted of bribing or attempting to bribe an officer or employee of the State of Illinois or any other State, nor has Contractor made an admission of guilt of such conduct that is a matter of record (30 ILCS 500/50-5).
14. If Contractor has been convicted of a felony, Contractor certifies at least five years have passed after the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor's office for the facts upon which the conviction was based continues to have any involvement with the business (30 ILCS 500/50-10).
15. If Contractor, or any officer, director, partner, or other managerial agent of Contractor, has been convicted of a felony under the Sarbanes-Oxley Act of 2002, or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953, Contractor certifies at least five years have passed since the date of the conviction. Contractor further certifies that it is not barred from being awarded a contract and acknowledges that the State shall declare the contract void if this certification is false (30 ILCS 500/50-10.5).
16. Contractor certifies it is not barred from having a contract with the State based on violating the prohibition on providing assistance to the state in identifying a need for a contract (except as part of a public request for information process) or by reviewing, drafting or preparing solicitation or similar documents for the State (30 ILCS 500/50-10.5e).

17. Contractor certifies that it and its affiliates are not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Contractor and its affiliates acknowledge the State may declare the contract void if this certification is false (30 ILCS 500/50-11) or if Contractor or an affiliate later becomes delinquent and has not entered into a deferred payment plan to pay off the debt (30 ILCS 500/50-60).
18. Contractor certifies that it and all affiliates shall collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with provisions of the Illinois Use Tax Act (30 ILCS 500/50-12) and acknowledges that failure to comply can result in the contract being declared void.
19. Contractor certifies that it has not been found by a court or the Pollution Control Board to have committed a willful or knowing violation of the Environmental Protection Act within the last five years, and is therefore not barred from being awarded a contract (30 ILCS 500/50-14).
20. Contractor certifies it has not paid any money or valuable thing to induce any person to refrain from bidding on a State contract, nor has Contractor accepted any money or other valuable thing, or acted upon the promise of same, for not bidding on a State contract (30 ILCS 500/50-25).
21. Contractor certifies it is not in violation of the "Revolving Door" section of the Illinois Procurement Code (30 ILCS 500/50-30).
22. Contractor certifies that it has not retained a person or entity to attempt to influence the outcome of a procurement decision for compensation contingent in whole or in part upon the decision or procurement (30 ILCS 500/50-38).
23. Vendor certifies it will report to the Illinois Attorney General and the Chief Procurement Officer any suspected collusion or other anti-competitive practice among any bidders, offerors, contractors, proposers or employees of the State (30 ILCS 500/50-40, 50-45, 50-50).
24. In accordance with the Steel Products Procurement Act, Contractor certifies steel products used or supplied in the performance of a contract for public works shall be manufactured or produced in the United States, unless the executive head of the procuring agency grants an exception (30 ILCS 565).
25. a) If Contractor employs 25 or more employees and this contract is worth more than \$5000, Contractor certifies it will provide a drug free workplace pursuant to the Drug Free Workplace Act.
- b) If Contractor is an individual and this contract is worth more than \$5000, Contractor shall not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance during the performance of the contract (30 ILCS 580).
26. Contractor certifies that neither Contractor nor any substantially owned affiliate is participating or shall participate in an international boycott in violation of the U.S. Export Administration Act of 1979 or the applicable regulations of the U.S. Department of Commerce. This applies to contracts that exceed \$10,000 (30 ILCS 582).
27. Contractor certifies it has not been convicted of the offense of bid rigging or bid rotating or any similar offense of any state or of the United States (720 ILCS 5/33 E-3, E-4).

28. Contractor certifies it complies with the Illinois Department of Human Rights Act and rules applicable to public contracts, including equal employment opportunity, refraining from unlawful discrimination, and having written sexual harassment policies (775 ILCS 5/2-105).
29. Contractor certifies it does not pay dues to or reimburse or subsidize payments by its employees for any dues or fees to any “discriminatory club” (775 ILCS 25/2).
30. Contractor certifies it complies with the State Prohibition of Goods from Forced Labor Act, and certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been or will be produced in whole or in part by forced labor, or indentured labor under penal sanction (30 ILCS 583).
31. Contractor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been produced in whole or in part by the labor or any child under the age of 12 (30 ILCS 584).
32. Contractor certifies that it is not in violation of Section 50-14.5 of the Illinois Procurement Code (30 ILCS 500/50-14.5) that states: “Owners of residential buildings who have committed a willful or knowing violation of the Lead Poisoning Prevention Act (410 ILCS 45) are prohibited from doing business with the State until the violation is mitigated”.
33. Contractor warrants and certifies that it and, to the best of its knowledge, its subcontractors have and will comply with Executive Order No. 1 (2007). The Order generally prohibits Contractors and subcontractors from hiring the then-serving Governor’s family members to lobby procurement activities of the State, or any other unit of government in Illinois including local governments if that procurement may result in a contract valued at over \$25,000. This prohibition also applies to hiring for that same purpose any former State employee who had procurement authority at any time during the one-year period preceding the procurement lobbying activity.
34. Contractor certifies that information technology, including electronic information, software, systems and equipment, developed or provided on this contract will comply with the applicable requirements of the Illinois Information Technology Accessibility Act Standards as published at www.dhs.state.il.us/iitaa. (30 ILCS 587).
35. Contractor certifies that it has read, understands, and is in compliance with the registration requirements of the Elections Code (10 ILCS 5/9-55) and the restrictions on making political contributions and related requirements of the Illinois Procurement Code (30 ILCS 500/20-160 and 50-37). Contractor will not make a political contribution that will violate these requirements. These requirements are effective for the duration of the term of office of the incumbent Governor or for a period of 2 years after the end of the contract term, whichever is longer.

(Contractor Name)

Date: _____

(Contractor Signature)

**PLEASURE DRIVEWAY AND PARK DISTRICT
OF PEORIA, ILLINOIS**

Individual Contractor Form

CONTRACTOR CERTIFICATION

I, _____, do hereby certify that I am a contractor who has not been barred from bidding on a public contract as a result of a violation of either Section 33E-3 (bid-rigging) or Section 33E-4(bid rotating) of the Illinois Criminal Code, Illinois Compiled Statutes 720 ILCS 5/33E-3 and 5/33E-4.

Contractor

By: _____

Subscribed and Sworn before me this _____ day of _____, 20____

Notary Public

My Commission Expires _____, 20____

**PLEASURE DRIVEWAY AND PARK DISTRICT
OF PEORIA, ILLINOIS**

Corporate or Partnership Contractor Form

CONTRACTOR CERTIFICATION

I, _____, a duly authorized agent of
(Agent)

_____, do hereby certify that neither
(Contractor)

_____, nor any individual presently
(Contractor)

affiliated with _____, has been barred from
(Contractor)

bidding on a public contract as a result of a violation of either Section 33E-3 (bid-rigging) or Section 33E-4 (bid rotating) of the Illinois Criminal Code, Illinois Compiled Statutes, 720 ILCS 5/33E-3 and 5/33E-4.

Contractor

By: _____

Subscribed and Sworn before me this _____ day of _____, 20____

Notary Public

My Commission Expires _____, 20____

MAJOR SUBCONTRACTORS LIST

The following tabulation of Major Subcontractors shall be attached and made a condition of the Bid. The Bidder expressly understands and agrees to the following provisions:

- A. If awarded a Contract as a result of this Bid, the major subcontractors used in the prosecution of the work will be those listed below.
- B. The following list includes all subcontractors who will perform work representing 5% (five percent) or more of the total Base Bid.
- C. The subcontractors listed below are financially responsible and are qualified to perform the work required.
- D. The subcontractors listed below comply with the requirements of the Contract Documents.
- E. Any substitutions in the subcontractors listed below shall be requested in writing by the Contractor and must be approved in writing by the Owner. No sub-subcontractors will be allowed unless specifically stated on the form. All pertinent financial, performance, insurance and other applicable information shall be submitted with the request for substitution(s). Owner shall respond to such requests within 14 calendar days following the submission of all necessary information to the full satisfaction of the Owner.
- F. Failure to submit the list of Major Subcontractors as stated herein shall constitute a material variation from the Invitation to Bid; and any such Bid may be rejected by the Owner.

Subcontractor Name	Address	Telephone	Area of Work	Minority/Women Owned Business (Yes/No)

(Attach additional sheets if required)

END OF MAJOR SUBCONTRACTORS FORM

Directory of Minority & Women Owned Business Enterprises

Compiled with Information from

City of Peoria Equal Opportunity Office

Peoria Housing Authority

Peoria Park District

Revised 11/13

Absolute Risk Management Strategies Kelly Peterson	MBE Construction Safety, Job Site Safety Plan Development, Job Site Risk Assessment, Construction OSHA Training 416 Main St., Suite 533, Peoria, IL 61602	309-256-8471 309-222-4050 Cell
Adams Septic & Sewer Services, Inc. Michelle Adams	WBE Septic and Sewer Contractor 1641 N. Tiber Ridge Ct., East Peoria, IL 61611	309-691-6113
Aerial Work Services Company	MBE Landscaping and Seeding 13805 Wadsworth Road, Wadsworth, IL	847-662-5321 847-662-5321 Fax
AFE Construction, Inc. Tommy and Monica Arbuckle	WBE General Contractor WBE P.O. Box 199, Mackinaw, IL 61755	309-303-7065 866- 491-2209 Fax
A & L Salvage, Inc. Archie Brown	MBE Clean Up, Tree Cutting & Removal, Truck Salvaging 824 W. Brons Peoria, IL 61604	309-682-4412
Alexander Brothers Construction Co. Allester Alexander	MBE Concrete, Demolition, Excavation, Landscaping P.O. Box 1508, Peoria, IL 61605	309-673-6768
A. Lucas & Sons Steel Margaret Hanley	WBE Structural Steel Fabrication 1328 SW Washington, Peoria, IL 61602	309-673-8547 309-673-7213 Fax
Ambri Inc. Robert J. Hunt. Jr.	MBE Drywall, Flooring, Painting, Cabinetry 9101 S. Nashville Ave., Oak Lawn, IL 60453	708-233-0217 Ph and Fax
Atherton, P.A. Patricia Atherton	WBE Asphalt, Concrete, Demolition, Excavation 57 Eichorn Road, Spring Bay, IL 61611	309-822-8575 309-822-8782 Fax
A Unique Maintenance Service Andrea McKnight	MBE Commercial and Industrial Construction Cleanup 2101 N. North St., Peoria, IL 61604	309-685-7197 309-685-4472 Fax
BJB Enterprises, Inc. Jim Bryant	MBE Concrete, Demolition, Excavation, General, Landscaping, Trucking/Hauling 1220 SW Washington St., Peoria, IL 61602	309-671-4415 Ph 309-673-4308 Fax
Braun Excavating, Inc. Teresa Braun	WBE Demolition, Digging of Footings, Excavation, Pipe Laying 24 Gulf Stream Bartonville, IL 61607	309-697-5454 309-697-6567 Fax
Brown, Leo Trucking, Inc. Leo Brown	MBE Trucking/Hauling P. O. Box 9057, Peoria, IL 61612	309-685-6710 309-685-0759 Fax
Buddy's Landscaping Dexter Davis	MBE Landscaping P. O. Box 1836, Bloomington, IL 61702	309-824-9211 309-454-3342 Fax
Capitol Trucking Eddie Washington	MBE Janitorial Service, Snow Removal, Trucking 2803 Creston Ln., Peoria, IL 61604	309-679-9388 309-339-5313 Cell
Central IL Construction Inc. Jessica Youngman	WBE Land Surveying 416 Germantown Rd., Germantown, IL 61548	309-383-3156
Central IL Rebar Insulators Roger Fleming	MBE Structural Steel and Rebar Replacement 4719 Ridgelawn, Peoria, IL 61615	309-258-1379 888-387-5716 Fax
Central Landscaping Donna Brandenburg	WBE Landscaping 12512 Mendell Rd., Princeville, IL 61559	309-385-4832 309-385-2644 Fax
CJL Landscaping, Inc. Rebecca J. Kelch	WBE Landscaping 10902 W. U. S. Highway 150, Brimfield, IL 61517	309-691-9200 309-691-5131 Fax

C & L Construction & Roofing Co. Jeanette Burns	WBE Roofing, Electrical, Plumbing P.O. Box 416, Peoria, IL 61651	309-672-2641
Clean Sweep Lead Abatement Ricky Walker	MBE Lead-Based Paint Removal 4014 Brighton Peoria, IL 61615	309-689-1146
Clevenger Contractors Inc. Verlee Clevenger	WBE Guardrail, Bridge Rail, Seeding, Fencing 355 Naples Rd., P.O. Box 19, Bluffs, IL 62621	217-754-3411 217-754-3537 Fax
CNS Forestry & Landscaping LLC Christine Schilling	WBE Landscaping, Seeding, Sodding, Tree Removal 1813 1000 th St., Lincoln, IL 62656	217-792-3808 217-792-3808 Fax
Cordova Construction Tina Christopher	WBE Concrete Removal, Curb & Gutter Removal, Sidewalk Removal 2424 N. Ellory Road, Peoria, IL 61615	309-674-8810
Cornerstone Builders & Developers Ron Touilly	WBE 6129 W. Southport Rd., Peoria, IL 61615	309-674-9000 309-673-7783 Fax
CSS (Construction Specialties & Services) Dave Suzuki	MBE Building Specialties, Design, Engineering, Estimating P. O. Box 120703 Peoria, IL 61614	309-685-8453
Davis Brothers Construction Company Russell Davis	MBE Trucking/Hauling 1522 W. Kettelle St. Peoria, IL 61605	309-683-6931
DECA Realty Eddie J. Washington	MBE Real Estate Broker, Appraiser 417 W. Main, Peoria, IL 61606	309-637-3322 309-682-3922 Fax
Design Air Inc. Courtney Eston	MBE Commercial Air Duct Cleaning 3806 W. Hearthwood Dr., Dunlap, IL 61525	309-693-8632 309-243-2102 Fax
Dunbar Transfer	WBE Trucking P.O. Box 315, Chillicothe, IL 61523-0315	309-303-5122
E & D Trucking and Hauling, Inc. Eddie Proctor	MBE Trucking/Hauling 1913 N. Idaho, Peoria, IL 61604	309-682-4336 309-251-6736 Cell
Earth Care Unlimited, Inc. Monica Thomley	WBE Seeding, Sodding, Landscaping 3108 Panther Grove Rd., Ashland, IL 62612	217-452-7320 217-452-7178 Fax
Economy Painting & Decorating Linda Coffman	MBE Painting 9315 W. Goetz, Hanna City, IL 61536	309-565-7300
Elegant Installations James Barrett	MBE Installation/sales custom drapery, blinds, shade, shutters 125 E. Elaine, Peoria, IL 61614	309-648-8118 309-93-0007 Fax
Fashion Floors, Inc. Yvonne Hand	WBE Floorcoverings 930 S. 2 nd Street, Suite B, Pekin, IL 61554	309-353-8272 309-347-1109 Fax
Fire & Ice Heating and Air J.T. Toombs	MBE HVAC Maintenance, Installment 922 W. Smith St., Peoria, IL 61605	309-219-3708
Fuhrmann Engineering Inc. Kathy Shelter	WBE Civil Engineers / Land Surveyors 456 Fulton St., Suite 146	309-713-3498 Ext. 5
Flessner Electric	WBE Electrical 3600 S. Cameron Ln., Mapleton, IL 61547	309-697-2484
G&L Trucking & Construction	WBE 1113 W. Groveland Ave., Peoria, IL 61604	309-686-9334
Garza Heating & Cooling	MBE 1304 S. Western Ave., Peoria, IL 61605	309-645-6294
Ronald A. Givens & Associates Ronald A. Givens	MBE Insurance & Investments 2616 N. Lehman, Peoria, IL 61602	309-685-4588 309-676-3152 Fax
Gutters & More	WBE 157 Thunderbird Ln., East Peoria, IL 61611	309-694-4000 309-694-3356 Fax

Hancock Trucking, Inc. Nancy Hancock	WBE Trucking/Hauling 30570 Hancock Road Mackinaw, IL 61755	309-447-6733
Hanley Steel, Inc. Jill Hanley	WBE Fabricated Structural and Miscellaneous Steel 8811 N. Industrial Rd., Peoria, IL 61615	309-692-5250 309-692-5251 Fax
Heart Technologies Jim Bainter, Brad Armstrong	WBE Data and Telephone, Communication and Construction 3105 N. Main Street, Peoria, IL 61611	309-427-7000 309-427-7007 Fax
Hermann & Associates Alisha Hermann	WBE Consultant Engineering 5835 N. Galena Rd., Peoria, IL 61614	309-687-5566 309-687-0571 Fax
Hoops Painting Monty Hoops	MBE Painting 136 Middle Park Dr., Canton, IL 61520	309-224-0736
Horan Construction, Inc. Susan Arnholt	WBE Carpentry, Concrete, Demolition, General, Wrecking 1720 W. Chanute Road Peoria, IL 61615	309-691-3133 309-691-1841 Fax
Infrastructure Engineering Thu Truitt	MBE Civil Engineering 456 Fulton St., Suite 104, Peoria, IL 61602	309-637-9200 309-637-9210
Intech Innovations John McCrary	WBE Audio/Video Design and Integration Washington, IL 61571	309-370-6676 309-745-9691 Fax
J Construction Frank Coates	MBE General 1810 Stever, Peoria, IL 61605	309-303-3919 Cell
JAKS Construction Inc. John Spencer	Disabled Vet Concrete Cutting, Drilling, Sealing 19319 Great Crane Rd., Bloomington, IL 61705	800-455-9662 309-455-9662 Fax
J. D. Masonry Services Hurdestine Dabbs	M/WBE Concrete 907 E. Arcadia, Peoria, IL 61603	309-453-6533 Cell
J&J Manufacturing	110 W. Walnut, Chillicothe, IL 61523	209-274-3141
J & J Construction Herman Johnson	MBE Demolition, Excavation 1710 W. Garden Street, Peoria, IL 61605	309-673-8616 309-676-8292 Fax
J & K Construction James Tilman	MBE General 4003 N. Rochelle, Peoria, IL 61615	309-685-8554 309-685-8554 Fax
JM Industrial Supply Ron Given	MBE Maintenance Items, Tools, Soaps 2323 Lakeshore, Pekin, IL 61554	309-346-5796 309-347-5100 Fax
Joseph & Associates Construction Inc. Elva Jones	M/WBE Rough and Finish Carpentry 325 Sanford St., East Peoria, IL 61611	309-550-5639 309-282-6013 Fax
Kahbeah Contracting & Trucking Larry Kahbeah	MBE Trucking/Hauling 510 N. Yates, P. O. Box 56, Tallula, IL 62688	217-634-4157 217-634-4157 Fax
Kreiling Roofing Co.	WBE Slate, Wood Shakes, Tile, Thatch, Custom Fabricated Copper and Steel, Residential and Commercial 2335 W. Altorfer Dr., Peoria, IL 61615	309-673-3649
LNR Construction & Trucking Demonte Davis	MBE Concrete, Trucking 2200 Linsley St., Peoria, IL 61604	309-682-6331
LV Enterprise John L. Palmer	MBE Trucking/Hauling 303 E. Archer Avenue, Peoria, IL 61603	309-657-2420 309-682-8872 Fax
M & A Plumbing Michael Abner	MBE Plumbing 6216 N. Devonshire Avenue, Peoria, IL 61615	309-689-0133 309-689-0133 Fax
McGinnis Transportation Beth McGinnis	WBE Trucking, Tandem, 24 » Box Truck 336 Riverview Dr., Creve Cœur, IL 61610	309-369-4465 309-694-1604 Fax
M&K Heating & Cooling Reggie Williams	MBE HVAC 2406 W. Newman Parkway, Peoria, IL 61604	309-256-6129
M & L Plumbing Manzell Lawson	MBE Plumbing 1309 W. Lincoln, Peoria, IL 61605	309-674-8466

Mid-Illinois Companies, Corp.	WBE Metal Framing, Insulation, Drywall, Plaster and Exterior Insulation, Acoustical Ceilings and Wall Panels, Painting and Wall Covering, Access Flooring 905 NE Adams St., Peoria, IL 61603	309-674-0717 309-674-5802 Fas
Midwest Construction Services Sheila Shover	M/WBE Traffic Control Products, Trucking/Hauling P. O. Box 4185, Bartonville, IL 61607	309-697-1000 309-697-1004 Fax
Millennia Professional Services of IL Paul Moreno	MBE Civil Engineering, Erosion Control, Landscaping, Sewer Construction, Surveying, Retaining Walls 850 N. Main St., Morton, IL 61550	309-321-8141 309-321-8142
Molleck Electric	WBE Electrical 14926 W. Winchester Dr., Brimfield, IL 61517	309-446-3483
Ordaz Construction Co. Inc. Elizabeth Ordaz Mercer	WBE Concrete 8010 N. Sommer St., Peoria, IL 61615	309-693-3338 309-693-5505 Fax
Pendleton Excavating Darold Pendleton	MBE Excavation, Sand & Gravel 1207 W. MacQueen Peoria, IL 61605	309-685-9133 309-685-9133 Fax
Porter, V. L. Vincent Porter	MBE Concrete, General 500 W. North, Suite 10, Springfield, IL 62704	217-744-8050
RNS Electric Inc. Regina Slonneger	WBE Electrical 28558 Irish Lane, Washington, IL 61571	309-444-5200 309-444-5201 Fax
RTM Concrete Construction Morris Stokes	MBE Concrete 2207 W. Wiswall, Peoria, IL 61605	309-637-4237
N. E. Rudd Trucking Nanette Jenkins-Rudd	WBE Trucking/Hauling P.O. Box 14, 107 Washington St., Kingston Mines, IL 61539	309-389-4150 309-389-2849 Fax
Nelton Construction Damon Nelton	MBE Concrete, Residential and Commercial Construction 1180 Upper Spring Bay Rd., East Peoria, IL 61611	309-694-9837 309-694-9852 Fax
Professional Contracting Services Inc. Don Mackey	MBE Concrete, Masonry, Carpentry, Site Work 2669 N. County Hwy. 19, Canton, IL 61520	309-647-9744 309-208-7089 Cell
Ridge Painting Vickie Ridge	MBE Painting 4216 N. Patricia Ct., Peoria, IL 61615	309-688-5610
Rufus Construction Company Rufus Nelson	MBE Painting, Roofing, Remodeling 1819 S. Idaho Street, Peoria, IL 61605	309-673-6776 309-497-9453 Cell
Searle Trucking, Inc. Debbie Searle	WBE Trucking/Hauling P. O. Box 1084, Peoria, IL 61653	309-686-0708 309-688-5365 Fax
Sherwin Baker & Associates, Inc. Sherwin Baker	MBE Construction Management, Consulting, Engineering, Technical Services 103 E. Archer, Peoria, IL 61603	309-688-4203 309-688-4203 Fax
Smeltz, V.	MBE Excavation P. O. Box 64, Washington, IL 61571	
Tabitha Ventures, Inc. Edward O. Taiwo	MBE Asphalt, Concrete, Demolition, Earthwork, Electrical, Excavation, General, HVAC, Landscaping, Painting, Plumbing, Resurfacing, Roofing, Trucking/Hauling 2000 W. Pioneer Parkway, Suite 7B, Peoria, IL 61615	309-692-1473 309-692-1564 Fax
The Communication Connection Jennifer Stone	WBE Communication, Wire and Cable, Electrical and Telephone Products 604 Filmore Street Harrisburg, PA 17104	717-561-7267
Three Cross Development J. T. Donelson	MBE Concrete, General, Sidewalk 1519 W. Millman Peoria, IL 61605	309-637-1238
Third Hand Landscaping Tommy Harris	MBE Landscaping 2313 W. Lincoln, Peoria, IL 61605	309-673-6702

Thompson Brothers Inc. Todd Thompson	MBE General Carpentry and Construction, Interior Finish Work, Millwork 221 Court St., Pekin, IL 61554	309-613-0254
Thornton Rave dba Illini Concrete Co. of Illinois	MBE Precast and Prestressed Concrete, Demolition, Excavating and Grading, Drainage, Aggregate Bases and Surfaces, Pavement Patching 929 E. Grove St., Suite A, Bloomington, IL 61701	309-585-2376 309-585-2472 Fax
Tilman Electric James Tilman	MBE Electrical 4003 N. Rochelle, Peoria, IL 61615	309-685-8554 309-264-3903 Cell
TOS Trucking John McCullum	MBE Trucking 11501 Farmington Rd., Hanna City, IL 61536	309-208-1927
Wards Custom Landscaping Wardine Smith	MBE Landscaping 3804 W. Pagewood Dr., Peoria, IL 61615	309-671-1890 309-671-1893 Fax
Whitaker Construction Lionel Whitaker	MBE Concrete, General, Curb & Gutter, Sidewalk 4010 N. Marbleway Dr., Peoria, IL 61615	309-682-9305 309-208-0476 Cell
Wiegand & Storrer Inc. Leslie Savant	WBE Horizontal Boring, Sewer, Watermain 3210 E. Washington Road, East Peoria, IL 61611	309-699-6457 309-699-9660 Fax
Willie Veneble Construction Willie Venable	MBE Construction, Concrete Removal, Demolition 1000 E. Wilcox, Peoria, IL 61605	309-686-1429 309-360-0757 Cell
Willis Electric Phyllis Willis	WBE Electrical P.O. Box 545, Chillicothe, IL 61523	309-579-2926

Peoria County Prevailing Wage for July 2014

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac
Trng											
=====	==	===	=	=====	=====	=====	===	===	=====	=====	=====
=====											
ASBESTOS ABT-GEN 0.800		BLD		26.470	27.970	1.5	1.5	2.0	7.700	15.07	0.000
ASBESTOS ABT-GEN 0.800		HWY		29.580	31.080	1.5	1.5	2.0	7.700	16.19	0.000
ASBESTOS ABT-MEC 0.720		BLD		32.140	34.640	1.5	1.5	2.0	11.17	10.76	0.000
BOILERMAKER 0.350		BLD		36.750	39.750	2.0	2.0	2.0	7.070	15.84	0.000
BRICK MASON 0.590		BLD		32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000
CARPENTER 0.520		BLD		30.380	32.630	1.5	1.5	2.0	8.000	14.71	0.000
CARPENTER 0.520		HWY		31.650	33.900	1.5	1.5	2.0	8.000	15.46	0.000
CEMENT MASON 0.500		BLD		27.090	28.840	1.5	1.5	2.0	8.140	14.76	0.000
CEMENT MASON 0.500		HWY		28.280	29.780	1.5	1.5	2.0	8.140	15.13	0.000
CERAMIC TILE FNSHER 0.580		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000
ELECTRIC PWR EQMT OP 0.380		ALL		38.300	45.290	1.5	1.5	2.0	6.150	10.73	0.000
ELECTRIC PWR GRNDMAN 0.260		ALL		26.280	45.290	1.5	1.5	2.0	5.790	7.360	0.000
ELECTRIC PWR LINEMAN 0.430		ALL		42.540	45.290	1.5	1.5	2.0	6.280	11.92	0.000
ELECTRIC PWR TRK DRV 0.280		ALL		27.560	45.290	1.5	1.5	2.0	5.830	7.720	0.000
ELECTRICIAN 0.400		BLD		34.820	37.320	1.5	1.5	2.0	5.600	11.07	0.000
ELECTRONIC SYS TECH 0.400		BLD		27.480	29.480	1.5	1.5	2.0	5.850	10.52	0.000
ELEVATOR CONSTRUCTOR 0.600		BLD		41.070	46.200	2.0	2.0	2.0	12.73	13.46	3.290
GLAZIER 1.250		BLD		31.870	33.870	1.5	1.5	1.5	10.25	7.700	0.000
HT/FROST INSULATOR 0.720		BLD		42.850	45.350	1.5	1.5	2.0	11.17	11.96	0.000
IRON WORKER 0.540		BLD		31.810	33.710	1.5	1.5	2.0	9.390	12.91	0.000
IRON WORKER 0.540		HWY		35.340	37.340	1.5	1.5	2.0	9.390	12.91	0.000
LABORER 0.800		BLD		25.470	26.970	1.5	1.5	2.0	7.700	15.07	0.000
LABORER 0.800		HWY		28.830	30.330	1.5	1.5	2.0	7.700	16.19	0.000
LABORER, SKILLED 0.800		BLD		25.870	27.370	1.5	1.5	2.0	7.700	15.07	0.000
LABORER, SKILLED 0.800		HWY		29.130	30.630	1.5	1.5	2.0	7.700	16.19	0.000
LATHER 0.520		BLD		30.380	32.630	1.5	1.5	2.0	8.000	14.71	0.000
MACHINERY MOVER 0.540		HWY		35.340	37.340	1.5	1.5	2.0	9.390	12.91	0.000
MACHINIST 0.000		BLD		44.350	46.850	1.5	1.5	2.0	6.760	8.950	1.850
MARBLE FINISHERS 0.580		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000
MARBLE MASON 0.580		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000
MILLWRIGHT 0.520		BLD		30.800	33.050	1.5	1.5	2.0	8.000	14.63	0.000
MILLWRIGHT 0.520		HWY		32.220	34.470	1.5	1.5	2.0	8.000	15.39	0.000
OPERATING ENGINEER 3.000		BLD	1	37.050	40.050	1.5	1.5	2.0	7.000	17.48	0.000
OPERATING ENGINEER 3.000		BLD	2	34.450	40.050	1.5	1.5	2.0	7.000	17.48	0.000

OPERATING ENGINEER 3.000	BLD 3	30.160	40.050	1.5	1.5	2.0	7.000	17.48	0.000
OPERATING ENGINEER 3.000	HWY 1	37.000	40.000	1.5	1.5	2.0	7.000	17.48	0.000
OPERATING ENGINEER 3.000	HWY 2	34.400	40.000	1.5	1.5	2.0	7.000	17.48	0.000
OPERATING ENGINEER 3.000	HWY 3	30.110	40.000	1.5	1.5	2.0	7.000	17.48	0.000
PAINTER 1.350	ALL	33.000	35.000	1.5	1.5	1.5	10.00	8.200	0.000
PAINTER SIGNS 0.000	BLD	33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000
PILEDRIIVER 0.520	BLD	31.380	33.630	1.5	1.5	2.0	8.000	14.71	0.000
PILEDRIIVER 0.520	HWY	32.650	34.900	1.5	1.5	2.0	8.000	15.46	0.000
PIPEFITTER 1.060	BLD	37.400	41.510	1.5	1.5	2.0	7.000	11.63	0.000
PLASTERER 0.650	BLD	27.770	29.770	1.5	1.5	2.0	8.140	13.71	0.000
PLUMBER 0.900	BLD	34.520	37.630	1.5	1.5	2.0	7.000	13.31	0.000
ROOFER 0.250	BLD	30.580	32.110	1.5	1.5	2.0	8.450	7.220	0.000
SHEETMETAL WORKER 0.780	BLD	32.150	33.760	1.5	1.5	2.0	8.620	14.18	0.000
SIGN HANGER 0.540	HWY	35.340	37.340	1.5	1.5	2.0	9.390	12.91	0.000
SPRINKLER FITTER 0.350	BLD	37.120	39.870	1.5	1.5	2.0	8.420	8.500	0.000
STEEL ERECTOR 0.540	HWY	35.340	37.340	1.5	1.5	2.0	9.390	12.91	0.000
STONE MASON 0.590	BLD	32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000
SURVEY WORKER -> NOT IN EFFECT 0.800		28.900	30.400	1.5	1.5	2.0	7.700	14.86	0.000
TERRAZZO FINISHER 0.580	BLD	29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000
TERRAZZO MASON 0.580	BLD	31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000
TILE MASON 0.580	BLD	31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000
TRUCK DRIVER 0.250	ALL 1	31.230	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	ALL 2	31.680	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	ALL 3	31.890	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	ALL 4	32.180	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	ALL 5	33.020	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	O&C 1	24.980	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	O&C 2	25.340	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	O&C 3	25.510	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	O&C 4	25.740	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TRUCK DRIVER 0.250	O&C 5	26.420	0.000	1.5	1.5	2.0	10.30	4.840	0.000
TUCKPOINTER 0.590	BLD	32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000

Legend: RG (Region)
TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)
C (Class)
Base (Base Wage Rate)
FRMAN (Foreman Rate)
M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.
OSA (Overtime (OT) is required for every hour worked on Saturday)
OSH (Overtime is required for every hour worked on Sunday and Holidays)
H/W (Health & Welfare Insurance)
Pensn (Pension)
Vac (Vacation)
Trng (Training)

Explanations

PEORIA COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

LABORER, SKILLED - BUILDING

The skilled laborer building (BLD) classification shall encompass the following types of work, irrespective of the site of the work: cutting & acetylene torch, gunnite nozzlemen, gunnite pump men & pots, kettlemen & carriers of men handling hot stuff, sandblaster nozzle men, sandblasting pump men & pots, setting up and using concrete burning bars, wood block setters, underpinning & shoring of existing buildings, and the unload-ing and handling of all material coated with creosote.

LABORER, SKILLED - HIGHWAY

The skilled laborer heavy & highway (HWY) classification shall encompass the following types of work,irrespective of the site of the work: jackhammer & drill operator, gunite pump & pot man, puddlers, vibrator men, wire fabric placer, sandblast pump & pot man, strike off concrete, unloading, handling & carrying of all creosoted piles, ties or timber, concrete burning bars, power wheelbarrows or buggies, asphalt raker, brickset-ters, cutting torchman (electric & acetylene), men setting lines to level forms, form setters, gunite nozzle man & sandblasting nozzle man, power man, and rip-rapping by hand.

SURVEY WORKER - Operated survey equipment including data collectors,

G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING

Class 1. Cranes; Overhead Cranes; Gradall; All Cherry Pickers; Mechanics; Central Concrete Mixing Plant Operator; Road Pavers (27E - Dual Drum - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Koehring Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Power Blades - Dumore - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Yumbo and similar types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Ross Carrier; Helicopter; Tournapulls - all and similar types; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Heavy Equipment Greaser; CMI, CMI Belt Placer, Auto Grade & 3 Track and similar types; Side Booms; Multiple Unit Earth Movers; Creter Crane; Trench Machine; Pump-crete-Belt Crete-Squeeze Cretes-Screw-type Pumps and Gypsum; Bulker & Pump - Operator will clean; Formless Finishing Machine; Flaherty Spreader or similar types; Screed Man on Laydown Machine; Wheel Tractors (industrial or Farm-type w/Dozer-Hoe-Endloader or other attachments); F.W.D. & Similar Types; Vermeer Concrete Saw.

Class 2. Dinkeys; Power Launches; PH One-pass Soil Cement Machine (and similar types); Pugmill with Pump; Backfillers; Euclid Loader; Forklifts; Jeeps w/Ditching Machine or other attachments; Tunneluger; Automatic Cement and Gravel Batching Plants; Mobile Drills (Soil Testing) and similar types; Gurries and Similar Types; (1) and (2) Drum Hoists (Buck Hoist and Similar Types); Chicago Boom; Boring Machine & Pipe Jacking Machine; Hydro Boom; Dewatering System; Straw Blower; Hydro Seeder; Assistant Heavy Equipment Greaser on Spread; Tractors (Track type) without Power Unit pulling Rollers; Rollers on Asphalt -- Brick Macadam; Concrete Breakers; Concrete Spreaders; Mule Pulling Rollers; Center Stripper; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Cement Finishing Machine; Barber Green or similar loaders; Vibro Tamper (All similar types) Self-propelled; Winch or Boom Truck; Mechanical Bull Floats; Mixers over 3 Bag to 27E; Tractor pulling Power Blade or Elevating Grader; Porter Rex Rail; Clary Screed; Truck Type Hoptoe Oilers; Fireman; Spray Machine on Paving; Curb Machines; Truck Crane Oilers; Oil Distributor; Truck-Mounted Saws.

Class 3. Air Compressor; Power Subgrader; Straight Tractor; Trac Air

without attachments; Herman Nelson Heater, Dravo, Warner, Silent Glo, and similar types; Roller: Five (5) Ton and under on Earth or Gravel; Form Grader; Crawler Crane & Skid Rig Oilers; Freight Elevators - permanently installed; Pump; Light Plant; Generator; Conveyor (1) or (2) - Operator will clean; Welding Machine; Mixer (3) Bag and Under (Standard Capacity with skip); Bulk Cement Plant; Oiler on Central Concrete Mixing Plant.

OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

CLASS 1. Cranes; Hydro Cranes; Shovels; Crane Type Backfiller; Tower, Mobile, Crawler, & Stationary Cranes; Derricks; Hoists (3 Drum); Draglines; Drott Yumbo & Similar Types considered as Cranes; 360 Degree Swing Excavator (Shears, Grapples, Movacs, etc.); Back Hoe; Derrick Boats; Pile Driver and Skid Rigs; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tri Batcher; Motor Patrols & Power Blades - Dumore - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plant Engineers; Gradall; Caisson Rigs; Skimmer Scoop - Koering Scooper; Dredges (all types); Hoptoe; All Cherry Pickers; Work Boat; Ross Carrier; Helicopter; Dozer; Tournadozer; Tournapulls - all and similar types; Operation of Concrete and all Recycle Machines; Multiple Unit Earth Movers; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Operation of Material Crusher, Screening Plants, and Tunnel Boring Machine; Heavy Equipment Greaser (top greaser on spread); CMI, Auto Grade, CMI Belt Placer & 3 Track and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Hoe or Endloader Attachments); CAT Earthwork Compactors and Similar Types; Blaw Knox Spreader and Similar Types; Trench Machines; Pump Crete - Belt Crete - Squeeze Crete - Screw Type Pumps and Gypsum (operator will clean); Creter Crane; Operation of Concrete Pump Truck; Formless Finishing Machines; Flaherty Spreader or Similar Types; Screed Man on Laydown Machine; Vermeer Concrete Saw; Operation of Laser Screed; Span Saw; Dredge Leverman; Dredge Engineer; Lull or Similar Type; Hydro-Boom Truck; Operation of Guard Rail Machine; and Starting Engineer on Pipeline or Construction (11 or more pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc, and Ground Heater (Trailer Mounted).

CLASS 2. Bulker & Pump; Power Launches; Boring Machine & Pipe Jacking Machine; Dinkeys; Operation of Carts, Powered Haul Unit for a Boring Machine; P & H One Pass Soil Cement Machines and Similar Types; Wheel Tractors (Industry or Farm Type - Other); Back Fillers; Euclid Loader; Fork Lifts; Jeep w/Ditching Machine or Other Attachments; Tunneluger; Automatic Cement & Gravel Batching Plants; Mobile Drills - Soil Testing and Similar Types; Pugmill with Pump; All (1) and (2) Drum Hoists; Dewatering System; Straw Blower; Hydro-Seeder; Bump Grinders (self-propelled); Assistant Heavy Equipment Greaser; Apsco Spreader; Tractors (Track-Type) without Power Units Pulling Rollers; Rollers on Asphalt - Brick or Macadam; Concrete Breakers; Concrete Spreaders; Cement Strippers; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Vibro-Tampers (All Similar Types Self-Propelled); Mechanical Bull Floats; Self-Propelled Concrete Saws; Truck Mounted Power Saws; Operation of Curb Cutters; Mixers - Over Three (3) Bags; Winch and Boom Trucks; Tractor Pulling Power Blade or Elevating Grader; Porter Rex Rail; Clary Screed; Mule Pulling Rollers; Pugmill without Pump; Barber Greene or Similar Loaders; Track Type Tractor w/Power Unit attached (minimum); Fireman; Spray Machine on Paving; Curb Machines; Paved Ditch Machine; Power Broom; Self-Propelled Sweepers; Self-Propelled Conveyors; Power Subgrader; Oil Distributor; Straight Tractor; Truck Crane Oiler; Truck Type Oilers; Directional Boring Machine; Horizontal Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

CLASS 3. Straight Framed Truck Mounted Vac Unit (separately powered); Trac Air Machine (without attachments); Rollers - Five Ton and Under on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and Starting Engineer on Pipeline or Construction (3 - 5 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters

(regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

SAMPLE ADDENDUM

Peoria Park District
Planning, Design and Construction Department
1314 N. Park Road
Peoria, IL 61604
Telephone: (309) 686-3386

ADDENDUM NO. _____

PROJECT TITLE: _____

ISSUANCE DATE: _____

LOCATION: _____

The proposed Contract Documents for this Work are modified as follows:

- I. **DRAWINGS**: (Delete/Change/Modify/Etc.)

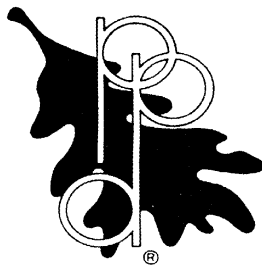
- II. **PROJECT MANUAL/SPECIFICATIONS/GENERAL CONDITIONS/ETC.**:
(Delete/Change/Modify/Etc.)

- III. **INVITATION TO BID**: (Delete/Change/Modify/Etc.)

END OF ADDENDUM NO. _____

(Addendum may be bound into Project Manual, attached to front cover, faxed, mailed or delivered to bidders.)

Addendum No. _____
Page 1 of 1



Pleasure Driveway and Park District of Peoria, Illinois
Sample Agreement Between Owner and Contractor

This **AGREEMENT** for

TAWNY OAKS WELCOME CENTER

is made as of the _____ day of _____ in the year of Two Thousand Fourteen (2014)

Between the Owner:

PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, ILLINOIS
1125 W. LAKE AVENUE
PEORIA, IL 61614

And the Contractor:

PLANNING, DESIGN AND CONSTRUCTION DEPARTMENT
1314 N. PARK ROAD
PEORIA, IL 61604

The Owner's Representative is:

The Architect or Engineer is:

ANTHONY P. CORSO
1217 W. COLUMBIA TERRACE
PEORIA, IL 61606

The Owner and Contractor agree as follows:

I. THE CONTRACT DOCUMENTS. The Contract Documents consist of this AGREEMENT, the Plans/Drawings for the Project dated July 22, 2014, all sections of the Project Manual dated July 22, 2014, including but not limited to the Instructions and Supplementary Instructions to Bidders, the Bid Form, the General Conditions (1997 AIA Document A201) and Supplementary General Conditions, the General Requirements, the Specifications, and other documents as enumerated in Section 10 and Attachment #1 of this AGREEMENT, and including addenda issued prior to the execution of this AGREEMENT. The Contract Documents form the CONTRACT between the Owner and the Contractor. The CONTRACT represents the entire and integrated contract for the construction of the Work of the Project between the parties hereto and supersedes prior proposals, contracts, negotiations, or representations, either written or oral.

II. THE WORK OF THE CONTRACT. The Contractor shall execute the entire Work described in the Contract Documents, unless modified in Section XI of this AGREEMENT.

III. BASIS OF PAYMENT. The Work of the CONTRACT shall be performed on a lump sum basis.

IV. CONTRACT SUM. The Owner shall pay the Contractor the sum of

--

(and incorporates the acceptance of bid alternates as defined in sub-paragraph "A", below) for the Contractor's performance of the Work required by the Contract Documents, subject to modifications made by Owner approved Change Orders. If this CONTRACT calls for a unit price basis of payment, the contract sum stated above shall be adjusted by Change Order based upon multiplying the unit prices submitted by the Contractor on the Bid Form (and included herein as an Attachment to this CONTRACT) times (x) the actual quantities installed.

A. ACCEPTANCE OF ALTERNATES. The contract sum stated above is based on the acceptance of the following alternates, which are described in the Project Manual:

<u>ITEM</u>	<u>ADD</u>	<u>DEDUCT</u>

V. DATES OF COMMENCEMENT AND COMPLETION OF THE WORK. The Owner's Representative will issue a written Notice to Proceed with the Work of the Project after receiving the required Performance Bond, Labor and Material Payment Bond, and Certificate of Insurance (in proper form and providing the required coverages and amounts from a company [or companies] acceptable to the Owner, and naming the Owner as an Additional Insured), and any other pre-construction submittals required by the Contract Documents. The Contractor hereby acknowledges and agrees that failure to provide such submittals in a timely manner shall not be cause to adjust the date(s) for completion of the Work.

- A. LIQUIDATED DAMAGES.** Owner and Contractor recognize that time is of the essence of this CONTRACT and that Owner will suffer financial loss if the Contractor has not achieved Substantial Completion and Final Completion of the Work within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
- B. SUBSTANTIAL COMPLETION.** Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty), Contractor shall pay Owner TWO HUNDRED FIFTY DOLLARS (\$250.00) for each calendar day that expires after two hundred twelve (212) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on August 28, 2014 and be at Substantial Completion by March 27, 2015.
- C. FINAL COMPLETION.** After Substantial Completion if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within ten (10) calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner TWO HUNDRED FIFTY DOLLARS (\$250.00) for each day that expires after the time specified.

VI. PROGRESS PAYMENTS, REDUCTION OF RETAINAGE AND FINAL PAYMENT.

- A.** Unless otherwise specified elsewhere in the Contract Documents, the Contractor may submit monthly applications for progress payments ("Application for Payment") to the Owner's Representative. Each Application for Payment must be certified by the Architect or Engineer (if applicable), or the Owner's Representative if an Architect or Engineer has not been engaged for construction phase services. An Application for Payment shall be for a period of no less than one calendar month ending on the last day of the month, unless otherwise approved in writing by the Owner's Representative. Application forms shall be subject to Owner's approval. Each Application for Payment shall be based upon the Schedule of Values submitted by the Contractor, in accordance with the Contract Documents. The Schedule of Values shall be approved by the Owner's Representative and the Architect or Engineer (if applicable) in advance of the Contractor's first Application for Payment and the approved schedule shall be used by the Contractor as the basis for submitting payment requests. The Owner's Representative and/or

Architect/Engineer's (if applicable) approval of the Schedule of Values shall not constitute a complete check for accuracy, and shall not relieve the Contractor from responsibility for errors of any sort.

- B. An Application for Payment (certified by the Architect or Engineer, if applicable) shall be submitted to the Owner's Representative no later than the fifth (5th) day of the month following the period for which the application is being submitted. In such case, the Owner shall make the progress payment to the Contractor not later than the twentieth day of the next month. A progress payment request on an Application for Payment (certified by the Architect or Engineer, if applicable) received by the Owner's Representative after the fifth (5th) day of a month shall be made by the Owner not later than forty-five days after receipt by the Owner's Representative.
- C. Based upon its review of the certified (by the Architect or Engineer, if applicable) Application for Payment, the Owner shall make a progress payment to the Contractor in such amount as the Owner reasonably determines is properly due, subject to a retainage of ten percent (10%) of the value of the Work completed and covered by the Application for Payment, less the aggregate of previous payments in each case. In determining the amount properly due, the Owner shall consider the value of labor, materials and equipment incorporated in the Work, or properly allocable to materials and equipment suitably stored at the site or at some other location previously agreed upon in writing by the parties. The Owner's Representative shall have the sole right to determine that materials or equipment stored off-site have been properly delivered, protected, and/or secured. The Owner's Representative (or the Architect or Engineer, if applicable) may nullify or withhold a Certificate of Payment, in whole or in part, for the reasons set forth in Section 9.5 of the General Conditions. Upon Substantial Completion of the Work, the Owner shall pay the Contractor a sum sufficient to increase the total payments to ninety-five percent (95%) of the Contract Sum, less such amounts as the Owner's Representative shall determine for incomplete work and unsettled claims.

VII. Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner when **1)** the Contract has been fully performed by the Contractor except for the Contractor's responsibility to correct nonconforming Work as provided in Subparagraph 12.2.2 of the General Conditions and to satisfy other requirements, if any, which necessarily survive final payment; and **2)** a final Certificate of Payment has been issued by the Architect/Engineer or Owner's Representative; such final payment shall be made by the Owner not more than forty-five (45) days after the receipt of the final Certificate of Payment by the Owner.

VIII. CHANGE ORDERS. The Owner and Contractor agree that changes in the Work are sometimes required and necessary, and that timely: **a)** submission of proposed changes in the Work or the scope of Work by the Owner, **b)** pricing by the Contractor, **c)** review by the Owner's Representative and/or Architect/Engineer, and **d)** final approval by the Owner are necessary in order to assure that the Work of the Project is completed on schedule. The Contractor hereby acknowledges and agrees that an increase in the scope of the Work does not grant or imply an increase in the Contract Time, unless specifically so stated on the final approved Change Order. The Contractor also agrees that any and all Work which deviates from the plans and specifications and/or results in additional Work performed by Contractor's forces, including those of his sub-contractor's, will not result in additional expense to the Owner, unless **finally approved both by the Owner and the Architect/Engineer (if applicable) prior to the additional Work being performed.** No claim for an addition to the Contract Sum shall be valid unless approved by a written Change Order signed by the Owner and the architect/engineer (if applicable) **prior to the additional Work being performed.**

IX. TERMINATION OR SUSPENSION. The CONTRACT may be terminated by the Owner or the Contractor as provided by Article 14 of the General Conditions. The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

X. ENUMERATION OF CONTRACT DOCUMENTS. The Contract Documents, except for modifications issued after the execution of this Agreement, consist of:

- A.** this Standard Form of Agreement Between Owner and Contractor, of the Pleasure Driveway and Park District of Peoria, Illinois.
- B.** the Plans or Drawings titled Tawny Oaks Welcome Center, dated July 22, 2014, and enumerated in ATTACHMENT #1 - "LIST OF DRAWINGS".
- C.** Supplementary and other Conditions of the CONTRACT, and the Specifications, are those found in the Project Manual titled "Tawny Oaks Nature Center", and dated July 22, 2014 enumerated as follows:
 - 1)** Supplementary Instructions to Bidders
 - 2)** Contractor's Proposal, as accepted by the Owner
 - 3)** General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition
 - 4)** Supplementary General Conditions
 - 5)** Major Subcontractor List
 - 6)** Directory of Minority & Women Owned Business Enterprises
 - 7)** Illinois Drug Free Workplace Certification
 - 8)** Contractor Certification (Individual or Corporate/Partnership)
 - 9)** Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors
 - 10)** Workforce Profile
 - 11)** Performance Bond
 - 12)** Labor and Material Payment Bond
 - 13)** Proof of Insurance
 - 14)** Specifications: Division 010000, "General Requirements"; Divisions 020000-350000 as applicable
 - 15)** Attachment A.6 - Insurance Requirements
 - 16)** Certificate of Safety Compliance
 - 17)** Peoria Park District Weekly Workforce Report
 - 18)** Certified Payroll Form
 - 19)** Substance Abuse Prevention Program Certification
 - 20)** Contractor Compliance

XI. MISCELLANEOUS PROVISIONS. Other Provisions of this Agreement are as follows:

This AGREEMENT is entered into as of the day and year first written above and is executed in at least three original copies of which one is to be delivered to the Contractor, one to the Architect/Engineer (if any) for use in the administration of the CONTRACT, and one to the Owner.

OWNER:

CONTRACTOR :

(Signature)

(Signature)

TIMOTHY J. CASSIDY, Park Board President

(Printed Name and Title)

ATTEST:

ATTEST:

ATTACHMENT #1 - LIST OF DRAWINGS

<u>Number</u>	<u>Title</u>	<u>Date</u>
A100	BASEMENT PLANS	July 22, 2014
A110	FIRST FLOOR PLANS	July 22, 2014
A120	SECOND FLOOR PLANS	July 22, 2014
A130	ROOF PLAN/DETAILS	July 22, 2014
A140	LONGITUDINAL SECTION/ELEVATIONS	July 22, 2014
A150	CROSS SECTIONS/ELEVATIONS	July 22, 2014
A160	PLAN AND SECTION DETAILS	July 22, 2014
A170	CONSTRUCTION DETAILS	July 22, 2014
E100	ELECTRICAL LIGHTING PLANS	July 22, 2014
E110	ELECTRICAL POWER AND EQUIPMENT CONNECTION PLANS	July 22, 2014
M100	MECHANICAL PLANS	July 22, 2014
P100	PLUMBING PLANS	
CE-1	PRIVATE SEWAGE DISPOSAL SYSTEM PLAN	July 22, 2014
CE-2	PRIVATE SEWAGE DISPOSAL AND EROSION CONTROL DETAILS	July 22, 2014
CE-3	SOIL BORING DATA AND LOCATION MAP	July 22, 2014

PERFORMANCE BOND

**TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA
PEORIA, ILLINOIS**

KNOW ALL MEN BY THEIR PRESENTS;

That _____

as Principal, and _____
_____ as
corporation of the State of _____, as Surety, are held and firmly bound unto the
PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, PEORIA, ILLINOIS, as Obligee, in the amount of _____
(\$ _____), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators,
successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____, 20 _____ entered into a contract
with Obligee for _____
_____ in accordance with contract documents prepared by the Architect-Engineer, which Contract is by reference made a part hereof and
is hereinafter referred to as "the Contract".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly and faithfully
perform the Contract and all changes thereof, and during the life of any guaranty or warranty required under the Contract, and, if
Principal shall fully secure and protect the Obligee from all liability and from all loss or expense of any kind, including all court
costs, engineering fees and attorneys' fees made necessary or arising from the failure, refusal or neglect of Principal to comply
with all obligations assumed by Principal in connection with the performance of the Contract and all changes thereof, then this
obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof. Whenever
Principal shall be and is declared to be in default under the Contract, Obligee having performed Obligee's obligations thereunder,
Surety shall, after notice of such default, reserve all rights against all parties, take over and complete the Contract and become
entitled to payment of the balance of any monies due or to become due to such defined Principal in accordance with the progress
of the work.

A condition of this Bond is that the Principal shall faithfully perform in accordance with the prevailing wage clause provided in
the bid specification or Contract pursuant to Illinois Compiled Statutes 820 ILCS 130/1 *et. seq.*

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Obligee named
herein.

Signed and Sealed this _____ day of _____, 20 _____.

CONTRACTOR

Contractor Firm Name

By: _____
Signature

Title

ATTEST:

Corporate Secretary (Corporations only)

SURETY

Surety Name

By: _____
Attorney-in-Fact

Resident Agent

LABOR & MATERIAL PAYMENT BOND

**TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA
PEORIA, ILLINOIS**

KNOW ALL MEN BY THESE PRESENTS:

That: _____

as Principal, and _____

_____ a corporation of the State of _____ as Surety, are held and firmly bound unto the PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, PEORIA, ILLINOIS, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of _____ Dollars (\$ _____), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____, 20 _____, entered into a Contract with Obligee for _____

_____ in accordance with contract documents prepared by the Architect-Engineer which Contract is by reference made a part hereof, and is hereinafter referred to as "the Contract".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 820 ILCS 130/1 et. seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. A claimant is defined as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.

2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, materialman or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place of business within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the Contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between the Obligee and the Contractor shall have been made prior to the expiration of the 120 day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.

4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.

5. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.

6. The Principal and Surety shall be liable for any attorneys fees, engineering costs, or court costs incurred by the Obligee relative to claims made against this Bond.

Signed and Sealed this _____ day of _____, 20 _____.

CONTRACTOR

SURETY

Contractor Firm Name:

By: _____
Signature

By: _____
Attorney-in-Fact

Title

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

CONTRACTOR'S AFFIDAVIT

STATE OF ILLINOIS)
) SS
COUNTY OF PEORIA)

TO WHOM IT MAY CONCERN:

THE undersigned, being duly sworn, deposes and says that he is _____
_____ of the _____
who is the contractor for the _____
building located at _____
owned by _____.

That the total amount of the contract including extras is \$_____ on which he has received payment of \$_____ prior to this payment. That all waivers are true, correct and genuine and delivered unconditionally and that there is no claim either legal or equitable to defeat the validity of said waivers. That the following are the names of all parties who have furnished material or labor, or both, for said work and all parties having contracts or sub-contracts for specific portions of said work or for material entering into the construction thereof and the amount due or to become due to each, and that the items mentioned include all labor and material required to complete said work according to plans and specifications:

NAMES	WHAT FOR BALANCE	CONTRACT	AMOUNT	THIS	
		PRICE	PAID	PMT.	DUE

TOTAL ALL LABOR AND MATERIAL TO COMPLETE

There are no other contracts for said work outstanding, and that there is nothing due or to become due to any person for material, labor or other work of any kind done or to be done upon or in connection with said work other than above stated.

Signed this _____ day of _____, 20 ____.

Signature: _____

Subscribed and sworn to before me this _____ day of _____, 20 ____.

Notary Public

FINAL WAIVER OF LIEN

STATE OF ILLINOIS)
) SS
COUNTY OF PEORIA)

TO WHOM IT MAY CONCERN:

WHEREAS, the undersigned _____ ha_____ been employed by THE
PEORIA PARK DISTRICT to furnish material and labor for the _____
at the premises commonly known as _____
located in the City of _____, County of Peoria, State of Illinois.

The undersigned, for and in consideration of _____
(\$ _____) Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged,
do_____ hereby waive and release any and all lien or claim or right of lien under the statutes of the State of Illinois relating to
mechanics' liens, with respect to and on said above-described premises and improvements thereon and on the money, funds or
other considerations due or become due from the owner on account of labor or services, material, fixtures, apparatus or machinery
heretofore furnished or which may be furnished at any time hereafter by the undersigned for the above described premises.

Dated this _____ day of _____ 20 _____.

[Affix corporate seal here.]

(Name of sole owner, corporation or partnership)

ATTEST:

(Signature of secretary of corporation)

_____(SEAL)
(Signature of sole owner or authorized
representative of corporation or partnership)

WAIVER OF LIEN

**GENERAL CONTRACTOR'S PARTIAL
TO COVER ONLY CERTAIN PAYMENTS**

STATE OF ILLINOIS)
) SS
COUNTY OF PEORIA)

TO ALL WHOM IT MAY CONCERN:

WHEREAS, the undersigned _____ has been employed
by THE PEORIA PARK DISTRICT to furnish material and labor for the _____ at
the premises commonly known as _____

_____ located in the City of Peoria, County of Peoria, and State of Illinois.

NOW, THEREFORE, the undersigned, for and in consideration of the sum of _____ Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged by the undersigned, does hereby waive and release to the extent only of the aforesaid amount of _____ Dollars, paid simultaneously herewith, any and all lien or right or claim of lien under the statutes of the State of Illinois relating to mechanics' liens, with respect to and on said above-described premises, and the improvements thereon and on the money, funds, or other consideration due or to become due from the owner on account of labor, services, material, fixtures, apparatus or machinery, furnished by the undersigned, to or on account of the said owner, for the above-described premises, but only to the extent of the payment aforesaid.

Dated this _____ day of _____, 20 _____.

[Affix corporate seal here]

(Name of sole owner, corporation or partnership)

ATTEST:

(Signature of secretary of corporation)

(SEAL)
(Signature of sole owner or authorized
representative of corporation or partnership)

SUB-CONTRACTOR'S FINAL WAIVER OF LIEN

[illegible]

TO WHOM IT MAY CONCERN:

WHEREAS, the undersigned _____
(sub-contractor)
has been employed by _____
(general contractor)
to furnish material and labor for the _____ at the
premises commonly known as _____, in the City of _____,
County of Peoria, State of Illinois.

The undersigned, for and in consideration of _____

_____ (\$ _____) Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged, do _____ hereby waive and release any and all lien or claim or right of lien under the statutes of the State of Illinois relating to Mechanics Liens, on the above described premises and improvements thereon and on the money, funds or other considerations due or become due from the owner on account of labor or services, material, fixtures, apparatus or machinery heretofore furnished or which may be furnished at any time hereafter by the undersigned for the above described premises.

Dated this _____ day of _____, 20 _____.

[Affix corporate seal here.]

ATTEST: _____

(Name of sole owner, corporation or partnership)

(Signature of sole owner or authorized
representative of corporation or partnership)

_____(SEAL)
(Signature of secretary of corporation)

SUB-CONTRACTOR'S PARTIAL
TO COVER ONLY CERTAIN PAYMENTS

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PEORIA PARK DISTRICT

Weekly Workforce Report

Instructions

This weekly workforce report must be completed and returned to the Peoria Park District project manager for each week that you are working on Peoria Park District property. You are to report only those employees that are actually working on the Peoria Park District project identified on this report. Do not report employees that are not working on the project identified on this report.

If you have further questions regarding this report, please contact the Owner's Project Manager.

I. Trade and Hour Breakdown Table

- List the different trades (carpenter, laborer, plumber, etc.) and report the number of hours by race/gender for each trade;
- Total the hours for each trade on the right.

II. New Hires by Race and Gender

- If additional employees are hired for the job, please record the number of employees hired by race/gender.

III. Total Project Employee Breakdown

- Please track total hours by race/gender for the project if project lasts longer than a week.

Weekly Workforce Report (Peoria Park District Form) Date:_____ Week Ending: _____

Contractor/Subcontractor:_____ Project: _____

Trade & Hour Breakdown:

TRADE	FEMALE HOURS	CAUCASIAN HOURS	AFRICAN- AMERICAN HOURS	HISPANIC HOURS	NATIVE AMERICAN HOURS	ASIAN, PAC. ISLANDER HOURS	TOTAL HOURS

New Hires by Race & Gender

TRADE	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN, PACIFIC ISLANDER	MALE	FEMALE

Total Project Employee Breakdown

	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN, PACIFIC ISLANDER	MALE	FEMALE

ADDRESS

NAME, ADDRESS, TELEPHONE NUMBER
AND SOCIAL SECURITY NUMBER
OF EMPLOYEE

[illegible]

1

(Title)

(1) That I pay or supervise the payment of the persons employed by

on the

_____ that during the payroll period commencing on the _____ day of _____ and ending the _____ day of _____ all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

from the full

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete;

that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates mandated by the Illinois Prevailing Wage Act and that the classifications set forth therein for each laborer or mechanic conform with the work performed.

(3) _____ does remit/does not remit (circle correct statement) contributions to fringe benefit funds that are jointly (Contractor or Subcontractor) maintained and jointly governed by one or more employers and one or more labor organizations in accordance with the Federal Labor Management Relations Act (LMRA).

(4) If _____ does not remit contributions to a fringe benefit fund that is jointly maintained and jointly governed (Contractor or Subcontractor)

by one or more employers and one or more labor organizations in accordance with the LMRA, but does remit contributions to a fringe benefit fund, the following information is required:

(a) The worker's hourly fringe benefit rates: _____

(b) The name and address of each fringe benefit fund: _____

(c) The plan sponsor of each fringe benefit fund, if applicable: _____

(d) The plan administrator of each fringe benefit fund, if applicable: _____

REMARKS:	
NAME AND TITLE	SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 5 (620 ILCS 1305) OF THE PREVAILING WAGE ACT OF THE STATE OF ILLINOIS.

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	Exemptions (see instructions): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number									
				-				-	
Employer identification number									
				-					

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below), and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. The IRS has created a page on IRS.gov for information about Form W-9, at www.irs.gov/w9. Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the

withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity,
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust, and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* on page 1.

What is FATCA reporting? The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

Partnership, C Corporation, or S Corporation. Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA) name" on the "Business name/disregarded entity name" line.

Disregarded entity. For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulation section 301.7701-2(c)(2)(iii). Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Note. Check the appropriate box for the U.S. federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

Limited Liability Company (LLC). If the person identified on the "Name" line is an LLC, check the "Limited liability company" box only and enter the appropriate code for the U.S. federal tax classification in the space provided. If you are an LLC that is treated as a partnership for U.S. federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation, as appropriate. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for U.S. federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.

Other entities. Enter your business name as shown on required U.S. federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/disregarded entity name" line.

Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the *Exemptions* box, any code(s) that may apply to you. See *Exempt payee code* and *Exemption from FATCA reporting code* on page 3.

Exempt payee code. Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends. Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following codes identify payees that are exempt from backup withholding:

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements.

- A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
- B—The United States or any of its agencies or instrumentalities
- C—A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Reg. section 1.1472-1(c)(1)(i)
- E—A corporation that is a member of the same expanded affiliated group as a corporation described in Reg. section 1.1472-1(c)(1)(i)
- F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt payee code* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee ¹ The actual owner ¹
5. Sole proprietorship or disregarded entity owned by an individual	The owner ³
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity ⁴
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

*Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

A complete copy of AIA Document A201, 1997 Edition, with Supplementary General Conditions incorporated, is available for review in the Peoria Park District's Planning, Design and Construction Office.

SUPPLEMENTARY GENERAL CONDITIONS

1. A. **"GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION"**, AIA Document A201, 1997 Edition, published by the American Institute of Architects, including revisions adopted before the date of the Project Manual, is hereby made part of these Specifications with same force and effect as though set forth in full.
 - B. The following modifies, changes, deletes from or adds to the General Conditions of the Contract for Construction (AIA Document A201, Fourteenth Edition, 1997). Where any Article 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.
 - C. Parenthesis () indicates the appropriate section and Subparagraph of the General Conditions which each paragraph of the Supplementary General Conditions modifies or refers to.
2. **INSERT THE FOLLOWING PHRASE TO PARAGRAPH (1.1.1) AFTER THE WORDS "The Contract Documents consist of the Agreement Between Owner and Contractor (hereinafter the Agreement)":**

“the Contractor's Bid, the Advertisement for Bids, the Instructions to Bidders, sample forms and addenda relating to these,”

DELETE THE LAST SENTENCE OF PARAGRAPH (1.1.1).

3. **ADD THE FOLLOWING SENTENCES TO END OF PARAGRAPH (1.2.1):**

The Contractor shall notify the Owner's Representative immediately if discrepancies are discovered. Full-size or large-scale details or drawings shall govern small-scale drawings that the former are intended to amplify. Dimensions from drawings shall not be determined by scale or rule. Where the Drawings and Specifications conflict with each other or with themselves, the Owner's Representative (in consultation with the Architect, if any) will decide which conflicting requirement governs. Should discrepancies or doubt occur, Contractor shall not proceed with the Work without clarification from the Owner. Contractor shall request clarification in a reasonable time to avoid delays and increases in the Contract Sum.

ADD THE FOLLOWING PARAGRAPHS TO SECTION (1.2):

1.2.4 If any item or material shown on the Drawings is omitted from the Specifications, or vice-versa (except when the Drawings and Specifications clearly exclude such omitted item), and when such item or material is clearly required to complete the detail shown or specified, the Contractor shall furnish and install such item or material of the type and quality established by the balance of the detail shown and specified at no increase to the Contract Sum.

1.2.5 Where a typical or representative detail is shown on the Drawings, this detail shall constitute the standard for workmanship and materials throughout those parts of the Work.

1.2.6 Any Summary of Work as outlined in the Specifications shall not be deemed to limit the work required by the Contract Documents. The Contractor and each Subcontractor shall be responsible for carefully examining all Drawings, including all details, plans, elevations, sections, schedules and diagrams for each particular type of work, and for coordinating the Work described in the Drawings, with the related Specifications. The Contractor shall also be responsible for determining the exact scope of work for each type of work per the Contract Documents and Contractor shall endeavor to check cross-references of work excluded from any division. The Contract Sum is deemed to be based on a complete installation. When additional details or instructions are clearly required to complete the work, the Contractor is deemed to have made an allowance in the Contract Sum for completion of such Work consistent with the local standard of care.

1.2.7 The Drawings are intended to show the arrangement, design and extent of the Work and are schematic in nature. They are not to be scaled for roughing-in measurements or used as shop drawings.

4. ADD THE FOLLOWING PARAGRAPH TO SECTION (1.5):

1.5.3 Neither any oral representation by or oral agreement with any officer, agent, or employee of Owner or Architect before execution of this Contract shall affect or modify any of the Contractor's rights or obligations hereunder. Contractor is not aware of any facts that make misleading or inaccurate in any material respect any information Owner or Architect has furnished to Contractor which would have a material adverse affect on the Contract Time or Contract Sum which Contractor has not advised Owner or Architect of, and if, during the course of the performance of the Work, Contractor learns of any such facts it will so advise Owner. Contractor shall not be entitled to any adjustments in the Contract Time or the Contract Sum as a consequence of Contractor's breach of the terms of this Subparagraph.

5. IN PARAGRAPH (1.6.1) DELETE THE WORD "Architect" IN THE FOURTH SENTENCE AND REPLACE IT WITH THE WORD "Owner".

DELETE SENTENCES #7, #8, #9 STARTING WITH "The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are"

6. DELETE PARAGRAPH (2.2.3) IN ITS ENTIRETY.

7. ADD THE FOLLOWING SENTENCE AT THE END OF PARAGRAPH (2.3.1):

"The Owner shall not be liable for any extra cost incurred by the Contractor by such an order."

8. IN PARAGRAPH (2.4.1) DELETE THE SECOND TO LAST SENTENCE.

9. IN PARAGRAPH (3.2.1, 3.2.2 AND 3.2.3) AFTER THE WORD "Architect" ADD THE WORDS "and Owner".

10. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.2):

3.2.4 Before starting any work, the Contractor shall examine work performed by others to which his work adjoins or is applied to and report to the Owner's Representative any conditions that will prevent the satisfactory accomplishment of his work. Failure to notify the Owner's Representative of deficiencies or faults in preceding work prior to commencing work shall constitute acceptance thereof and waiver of any claim of its unsuitability.

11. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.4):

3.4.4 Before ordering any material or doing any Work, the Contractor shall verify all measurements at the Project site and he shall be responsible for the correctness of same. No extra charge or compensation will be allowed to the Contractor on account of any difference between actual dimensions and the measurements shown on the Project Drawings.

3.4.5 The Contractor shall carefully inspect all materials delivered on and to the Project site and reject defective materials without waiting for the Owner's Representative or other representative of Owner to observe the materials.

12. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.5):

3.5.2 The Contractor agrees to assign to the Owner any and all manufacturer's warranties relating to materials and equipment furnished as part of the Work and further agrees to perform the Work in such manner so as to preserve any and all such manufacturer's warranties subject to installation directives and other terms of the Contract Documents. The Contractor agrees to deliver to the Owner, upon final payment, such assignments along with or as part of a reference manual, in form and detail reasonably acceptable to Owner, showing all such warranties and guarantees provided by the Contractor and Subcontractors. Such warranties and guarantees shall commence no sooner than the date of purchase from the supplier.

3.5.3 The warranty of Contractor provided in Paragraph 3.5 shall in no way limit or abridge the warranties of the suppliers of equipment and systems which are to comprise a portion of the Work, if they are broader, and all of such warranties shall be in form and substance as required by the Contract Documents. Contractor shall take no action or fail to act in any way which results in the termination or expiration of such third party warranties or which otherwise results in prejudice to the rights of the Owner under such warranties subject to installation directives and other terms of the Contract Documents. Contractor agrees to provide all notices required for the effectiveness of such warranties and shall include provisions in the contracts with the providers and manufacturers of such systems and equipment whereby Owner shall have a direct right of enforcement of such warranty obligations.

13. IN PARAGRAPH (3.6.1), DELETE THE WORD "Sales".

ADD THE FOLLOWING AT THE END OF PARAGRAPH (3.6.1):

The Peoria Park District is exempt from Federal, State and Local taxes. A certificate of exemption will be furnished upon request.

14. IN PARAGRAPH (3.10.2) BEFORE THE WORD "Architect's" ADD THE WORDS "Owner's and".

IN PARAGRAPH (3.10.2) AFTER THE WORD "Architect" ADD THE WORDS "and Owner's Representative".

ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.10):

3.10.4 The construction schedule shall provide for the most expeditious and practicable execution of the Work. The Contractor shall also work closely with the Owner to confirm that the construction schedule accurately reflects the status of the Project. The Contractor's construction schedule shall be updated every month by the Contractor and submitted to the Owner.

- .1** Whenever it becomes apparent from the updated construction schedule that any substantial completion previously established by the construction schedule cannot be met, the Contractor shall, at the Owner's request, take any or all of the following actions with no increase to the Contract Sum or Contract Time (unless the delay is caused by an event set forth in paragraph 8.3 of these General Conditions thereby permitting adjustment of the Contract Sum and/or Contract Time under Paragraph 4.3.5 of these General Conditions):

- .1.1** Increase construction manpower to substantially return the Project to schedule;
- .1.2** Increase the number of working hours per shift, shifts per day or the amount of construction equipment or any combination of the foregoing which will substantially return the Project to schedule;
- .1.3** Reschedule activities to concurrently accomplish activities, to the maximum degree practicable, in the time required by the Contract Documents.

If the Contractor fails to take any of these actions Owner shall have the notice and other rights set forth in Paragraph 2.4.

15. IN PARAGRAPH (4.1.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE THE FOLLOWING:

"The Architect, Owner's Representative, and Owner's Project Manager are defined in Paragraph C of "Section 01000 - General" of "Division 01000 - General Requirements".

16. IN PARAGRAPH (4.2.1) DELETE THE WORDS "and will be an Owner's Representative".

17. IN PARAGRAPH (4.2.2) DELETE THE WORDS "as a representative of the Owner".

18. IN PARAGRAPH (4.2.4) IN THE FIRST SENTENCE SUBSTITUTE THE WORD "Architect" FOR THE WORD "Owner" AND SUBSTITUTE THE WORD "Owner" FOR THE WORD "Architect".

19. IN PARAGRAPH (4.2.5) DELETE THE WORD "Architect's" AND "Architect" AND SUBSTITUTE THE WORDS "Owner Representative's" AND "Owner Representative".

20. IN PARAGRAPH (4.2.6) IN THE SECOND SENTENCE AFTER THE WORDS "will have authority" INSERT THE WORDS "upon written authorization from the Owner".

21. IN PARAGRAPH (4.2.8) DELETE THE WORD "prepare" AND SUBSTITUTE THE WORDS "assist the Owner's Representative in preparing".

22. IN PARAGRAPH (4.2.9) DELETE THE WORD "Architect" AND SUBSTITUTE WORDS "Owner's Representative, assisted by the Architect".

23. IN PARAGRAPH (4.2.11) IN THE FIRST SENTENCE DELETE THE WORDS "and decide".

24. IN PARAGRAPH (4.2.12) IN THE FIRST SENTENCE DELETE THE WORD "and decisions".

IN PARAGRAPH (4.2.12) IN THE SECOND SENTENCE DELETE THE WORDS "and initial decisions" AND "or decisions".

25. ADD PARAGRAPH TO SECTION (4.2):

4.2.14 Notwithstanding any other provision of this Agreement to the contrary, the Architect shall have no authority to order or approve any material deviation from the Contract Documents, whether or not such deviation affects the Contract Sum or other Substantial Completion Date (as defined herein). In the event any such deviation is sought, prior written approval from the Owner's Representative and the Owner must be obtained. The Architect may decide quality issues and may approve non-material deviations from the Contract Documents.

- 26. IN PARAGRAPH (4.3.4) IN THE FOURTH SENTENCE DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

IN PARAGRAPH (4.3.4) IN THE LAST SENTENCE DELETE THE WORD "determination" AND SUBSTITUTE THE WORD "recommendation".

- 27. DELETE PARAGRAPH (4.3.10) IN ITS ENTIRETY.**

- 28. DELETE PARAGRAPH (4.4.1) AND SUBSTITUTE THE FOLLOWING:**

"Claims, disputes and other matters in question between the Contractor and the Owner relating to the execution or progress of the Work or the interpretation of the Contract Documents shall be initially referred in writing to the Architect for a recommendation."

- 29. IN PARAGRAPH (4.4.2) AFTER "(2)" ADD THE WORD "recommend" AND CHANGE THE WORD "reject" TO "rejecting".**

IN PARAGRAPH (4.4.2) AFTER "(3)" ADD THE WORD "recommend" AND CHANGE THE WORD "approve" TO "approving".

IN PARAGRAPH (4.4.2) AT THE END OF THE SENTENCE DELETE THE WORD "resolve" AND ADD THE WORDS "make recommendation on".

- 30. IN PARAGRAPH (4.4.3) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

- 31. IN PARAGRAPH (4.4.4) IN THE LAST SENTENCE DELETE THE WORDS "either reject or approve the Claim" AND SUBSTITUTE THE WORDS "provide a recommendation regarding the Claim in accordance with Paragraph 4.2.2".**

IN PARAGRAPH (4.4.4) AT THE END OF THE LAST SENTENCE DELETE THE WORDS "in whole or in part."

- 32. DELETE PARAGRAPHS (4.4.5) AND (4.4.6) IN THEIR ENTIRETY.**

- 33. IN PARAGRAPH (4.4.8) DELETE THE WORD "resolution" AND SUBSTITUTE THE WORDS "final recommendation".**

IN PARAGRAPH (4.4.8) AFTER THE WORD "Architect," ADD THE WORD "or".

IN PARAGRAPH (4.4.8) AT THE END OF THE SENTENCE DELETE THE WORDS "or by arbitration".

- 34. IN PARAGRAPH (4.5.1) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

IN PARAGRAPH (4.5.1) DELETE THE WORDS "arbitration or".

35. **IN PARAGRAPH (4.5.2) IN THE SECOND SENTENCE DELETE THE WORDS “a demand for arbitration” AND SUBSTITUTE THE WORDS “legal or equitable proceedings”.**

IN PARAGRAPH (4.5.2) AFTER THE WORDS “proceed in advance of “ DELETE THE WORDS “arbitration or”.

36. **IN PARAGRAPH (4.5.3) DELETE THE FIRST SENTENCE.**

37. **DELETE SECTION (4.6) IN ITS ENTIRETY.**

38. **IN PARAGRAPH (5.2.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE:**

“The subcontractors/suppliers listed by the Contractor on the Major Subcontractor/Supplier List (submitted with the Bid) shall not be changed without the written consent of the Owner.”

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE DELETE THE WORDS “Architect will” AND SUBSTITUTE THE WORDS “Owner’s Representative will”.

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS “promptly reply to” ADD THE WORDS “any request made by”.

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS “any such proposed” ADD THE WORDS “change in”.

IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORDS “Owner or Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORD “promptly” AND ADD THE WORDS “within 10 calendar days (of receipt of written request for such change from the Contractor)”.

39. **IN PARAGRAPH (6.2.2) BEFORE THE WORD “Architect” ADD THE WORDS “Owner and”.**

40. **IN PARAGRAPH (6.3.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORD “Owner”.**

41. **IN PARAGRAPH (7.2.1) DELETE THE WORDS “the Architect” AND SUBSTITUTE THE WORDS “the Owner’s Representative”.**

ADD THE FOLLOWING PARAGRAPHS TO SECTION (7.2):

7.2.3 A Change Order shall include all of the Contractor’s costs associated therewith.

7.2.4 The Contractor shall not accept any request for a Change Order from any person other than the Owner and may not perform any work asserted to constitute a change in the Work until the Owner has approved the Change Order in writing, unless the Owner authorizes the Contractor, in writing, to proceed with a change prior to the Owner’s final approval. Notwithstanding anything to the contrary herein, the Contractor shall not charge for overtime services in the performance of any Change Order Work, unless the Owner has specifically authorized overtime in writing. Owner may competitively bid changes in the Work and Contractor, Subcontractor and suppliers shall provide Owner with all documents Owner requests to facilitate such competitive bidding of changes in the Work.

7.2.5 There shall be no change in the Work, whether an alteration or addition to the Contract Sum or to any amounts due under the Contract Documents or to a change in the Contract Time, unless and until such alteration or addition has been authorized by a written Change Order executed and issued in accordance and compliance with the requirements with this Article 7 or by written authorization to proceed with such change in the Work signed by the Owner or as otherwise provided pursuant to the Contract Documents. The requirements set forth in this Paragraph 7.2.5 are of the essence. No claim that the Owner has been unjustly enriched by any alteration or addition to the Work, whether or not any such unjust enrichment to the Work or to the Owner in fact exists, shall form the basis of any claim for an increase in any amount due under the Contract Documents or a change in the Contract Time, and the terms of a fully-executed Change Order shall be conclusive.

- 42. IN PARAGRAPH (7.3.1) DELETE THE WORDS “the Architect” AND SUBSTITUTE THE WORDS “the Owner’s Representative”.**
- 43. IN PARAGRAPH (7.3.4) DELETE THE WORDS “the Architect” AND SUBSTITUTE THE WORDS “the Owner’s Representative”.**
- 44. IN PARAGRAPH (7.3.6) IN THE FIRST SENTENCE DELETE THE WORD “determined” AND SUBSTITUTE THE WORD “recommended”.**
- 45. IN PARAGRAPH (7.3.7) IN THE FIRST SENTENCE AFTER THE WORD “Architect” ADD THE WORDS “and the Owner’s Representative”.**
- 46. IN PARAGRAPH (7.3.8) DELETE THE WORDS “the Architect” AND SUBSTITUTE THE WORDS “the Owner’s Representative”.**
- 47. IN PARAGRAPH (7.3.9) DELETE THE WORD “determination” AND SUBSTITUTE THE WORD “recommendation”.**
- 48. IN PARAGRAPH (8.1.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 49. ADD THE FOLLOWING PARAGRAPHS TO SECTION (8.2) .**

8.2.4 All work shall be "Substantially Complete" as required by the **Instructions to Bidders** and the **Agreement Between Owner and Contractor**.

8.2.5 It is further agreed that said completion schedule is reasonable, and the Contractor shall prosecute said work regularly, diligently and continuously at such rate of progress as will insure full completion thereof within the time specified.

8.2.6 Provided, however, the following exceptions:

- .1** Any preference, priority or allocation order duly issued by the United States Government.
- .2** Any unforeseeable cause beyond the control and without the fault or negligence of the Contractor, including acts of God, or of a public enemy, acts of the Owner, acts of another Contractor in performance of a separate contract with the Owner, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather. The criteria on which the unusually severe weather shall be based is the average precipitation/temperatures received in the project area, as recorded over a period of the last five (5) years at the local area United States Weather Station. Any extension of time due to unusually severe weather must be requested by the Contractor on the basis of documented records of the actual

precipitation/temperatures during the contract time period, compared with the normal/average for the area. Also, the criteria shall include the number of excessive precipitation or extreme cold days (i.e., days in which the temperature would adversely affect the type of work being constructed) over the same period and whether or not the Contractor's force worked on said days or stage of construction was affected.

.3 Any delays of subcontractors occasioned by any of the causes specified in this paragraph.

8.2.7 Provided further that the Contractor shall, within seven (7) days from the beginning of any such delay during the performance of the Contract, notify the Owner's Representative in writing of the alleged cause of such delay.

50. IN PARAGRAPH (8.3.1) DELETE THE WORDS “and arbitration”.

IN PARAGRAPH (8.3.1) DELETE THE WORD “determine” AND SUBSTITUTE THE WORD “recommend”.

51. DELETE PARAGRAPH (9.2.1) AND SUBSTITUTE THE FOLLOWING:

“Before the first Application for Payment, the Contractor shall submit to the Owner’s Representative a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect and Owner’s Representative may require. This schedule, unless objected to by the Architect and Owner’s Representative, shall be used as a basis for reviewing the Contractor’s Applications for Payment.”

52. IN THE FIRST SENTENCE OF (9.3.1), CHANGE "ten" TO "forty five”.

IN PARAGRAPH (9.3.1) IN THE FIRST SENTENCE DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

ADD THE FOLLOWING TO THE END OF PARAGRAPH (9.3.1):

Payment requests shall consist of AIA Documents #702 "Application and Certificate for Payment"; AIA #703 "Continuation Sheet"; Contractors Affidavit of Payment to Subcontractors and Suppliers; Weekly Workforce Reports; Certified Payroll Form; and Waivers of Lien. (Waivers of Lien are required from the general contractor in the full amount of the current payment application, and from all subcontractors, suppliers, or workers who provide more than \$10,000 of project material/labor of the Work. The waiver shall be in the amount(s) listed in the Contractor's Affidavit.) For final payment, the general contractor shall also provide a Waiver of Lien in the full amount of the contract price.

The Waiver of Lien and Contractor Affidavit forms used shall be the Peoria Park District's standard form(s): 1) "Final Waiver of Lien" (for general contractors), 2) "Waiver of Lien - General Contractor's Partial To Cover Only Certain Payments", 3) "Sub-Contractor's Final Waiver of Lien", 4) "Waiver of Lien - Sub-Contractor's Partial To Cover Only Certain Payments, and 5) "Contractor's Affidavit". (These forms are included in the Project Manual, and are the required Waiver of Lien forms for the project.)

(If the Contractor is unable to provide the required sub-contractor waiver at the time the application for payment is submitted (preferred method) alternatively, it may be provided at the time that payment is delivered by the District. If the sub-contractor waiver(s) still cannot be provided at that time, the District will provide "two-party" checks in which the Contractor and the sub-contractor are named jointly as payees.)

Format of AIA #703 shall follow that of "Schedule of Values". (See Division 01000 Article IV.) All payment requests shall reflect retainage in the amount of 10% of completed work.

53. IN PARAGRAPH (9.3.1.1) DELETE THE WORDS “or by interim determination of the Architect, but not yet included in Change Orders”.

54. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.1):

9.3.1.3 Upon Substantial Completion, the Owner will pay 95% percent of the amount due to the Contractor on account.

9.3.1.4 Monthly progress payments will be made by the Owner on projects lasting more than sixty days (from award of the bid to the Substantial Completion date given in the Supplementary Instructions to Bidders).

55. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.2):

9.3.2.1 Material stored on site will be considered for payment only when a Schedule of Stored Materials with appropriate values accompany the payment request as an attachment.

9.3.2.2 All material and work covered by partial payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of material and work upon which payments have been made or the restoration of any damaged work, or as a waiver of the contract.

56. IN PARAGRAPH (9.4.1) DELETE THE WORDS “Architect” AND “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative” AND “Owner’s Representative’s”.

IN PARAGRAPH (9.4.1) DELETE THE PHRASE "with a copy to the Contractor".

57. IN THE FIRST SENTENCE OF PARAGRAPH (9.4.2) DELETE THE WORD “Architect”.

IN THE FIRST SENTENCE OF PARAGRAPH (9.4.2) AFTER THE WORDS “Architect’s” ADD THE WORDS “and Owner’s Representative’s”.

IN THE FOURTH SENTENCE OF PARAGRAPH (9.4.2) DELETE THE WORDS “Architect has” AND SUBSTITUTE THE WORDS “Owner’s Representative and Architect have”.

58. IN PARAGRAPH (9.5.1) DELETE THE WORDS “Architect” AND “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative AND “Owner’s Representative’s”.

59. IN PARAGRAPHS (9.6.1, 9.6.3, AND 9.6.4) DELETE THE WORDS “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

60. IN PARAGRAPH (9.7.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

IN PARAGRAPH (9.7.1) DELETE THE WORDS “or awarded by arbitration”.

61. IN PARAGRAPH (9.8.2) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

- 62. IN THE FIRST SENTENCE OF PARAGRAPH (9.8.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative assisted by the Architect”.**
- IN THE SECOND AND THIRD SENTENCES OF PARAGRAPH (9.8.3) DELETE THE WORDS “Architect’s” and “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative’s” and “Owner’s Representative”.**
- 63. IN PARAGRAPH (9.8.4) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 64. IN PARAGRAPH (9.9.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 65. IN PARAGRAPH (9.10.1) IN THE FIRST SENTENCE AFTER THE FIRST TWO APPEARANCES OF THE WORD ‘Architect’ ADD THE WORDS “and Owner’s Representative”.**
- IN PARAGRAPH (9.10.1) DELETE THE THIRD AND FOURTH APPEARANCES OF THE WORD “Architect” and “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative” and “Owner’s Representative’s”.**
- IN PARAGRAPH (9.10.1) AFTER THE FIFTH APPEARANCE OF THE WORD “Architect’s” ADD THE WORDS “and Owner’s Representative’s”.**
- IN THE LAST SENTENCE OF PARAGRAPH (9.10.1) DELETE THE WORD “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative’s”.**
- 66. IN PARAGRAPH (9.10.2) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORD “Owner’s Representative”.**
- 67. ADD THE FOLLOWING SUB-PARAGRAPH TO PARAGRAPH (9.10.2):**
- 9.10.2.1** When all items including items noted within Division 1000 General Requirements are found to be complete and in conformance with the Contract Documents, a final payment will be issued.
- 68. IN PARAGRAPH (9.10.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 69. IN PARAGRAPH (11.1.1) IN THE FIRST SENTENCE AFTER THE PHRASE “as will protect the Contractor” ADD THE WORDS “Architect and Owner”.**
- 70. IN PARAGRAPH (11.1.2), IN THE FIRST SENTENCE DELETE THE WORDS “limits of liability specified in the Contract Documents” AND SUBSTITUTE THE WORDS “limits required in ‘Attachment A – Project Specific Insurance Requirements’ (which is included as the last section of the Project Manual and the requirements therein shall be made part of the Contract Documents),”.**
- IN PARAGRAPH (11.1.2) AFTER THE FIRST SENTENCE ADD:**
- “In addition, if any of the work occurs within fifty feet of an active railroad line and the Contractor’s general liability coverages provide for exclusions of coverage when working on or near a railroad, the Contractor shall provide a separate Railroad Protective Liability Insurance Policy naming the railroad as the insured party, with the coverage limits required by that railroad.”

- 71. IN PARAGRAPH (11.1.3), AFTER THE WORDS “Certificates of insurance” ADD THE WORDS “and endorsements to the insurance policy(s) which are”.**

IN PARAGRAPH (11.1.3) AFTER THE WORDS “acceptable to the Owner” ADD THE WORDS “and naming the Owner, their agents and consultants as additional insured”.

ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (11.1)

11.1.4 The Contractor may, at his option, furnish Owner’s Protective Liability Insurance in lieu of naming the Owner Additional Insured on the Contractor’s policy, as required above. This insurance shall protect the Owner from claims as set forth in Paragraph 11.1.1 of the General Conditions, and to the limits required herein, as shown in “Attachment A”.

11.1.5 The Contractor shall furnish two copies of each of the required Certificates or Endorsements for each copy of the Agreement which shall specifically set forth evidence of all coverage required by the Contract Documents. The form of the Certificate(s) or Endorsement(s) shall be those as required in “Attachment A”. The Contractor shall also furnish to the Owner copies of any endorsements which limit coverage, or are subsequently issued amending coverage or limits of coverage.

- 72. DELETE PARAGRAPHS (11.3.1, 11.3.2, AND 11.3.3) IN THEIR ENTIRETY.**

- 73. DELETE PARAGRAPH (11.4.1) AND SUBSTITUTE:**

“If the work of the project is being completed by one general or prime contractor rather than multiple prime contractors, the Contractor shall purchase and maintain property insurance upon the entire Work at the site to the full replacement value thereof. Such insurance shall be in a company or companies against which the Owner has no reasonable objection. This insurance shall include the interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

- 74. AT THE END OF PARAGRAPH (11.4.1.1) ADD THE FOLLOWING SENTENCE:** “The form of policy for this coverage shall be “Completed Value”.

- 75. DELETE PARAGRAPH (11.4.1.2) IN ITS ENTIRETY.**

- 76. DELETE PARAGRAPH (11.4.1.3) IN ITS ENTIRETY AND SUBSTITUTE:**

“If by the terms of this insurance any mandatory deductibles are required, or if the Contractor should elect, with the concurrence of the Owner, to increase the mandatory deductible amounts or purchase this insurance with voluntary deductible amounts, the Contractor shall be responsible for payment of the amount of all deductibles in the event of a paid claim. If separate contractors are added as insureds to be covered by this policy, the separate contractors shall be responsible for payment of appropriate part of any deductibles in the event claims are paid on their part of the Project.”

- 77. DELETE PARAGRAPHS (11.4.3, 11.4.4, AND 11.4.5) IN THEIR ENTIRETY.**

- 78. DELETE PARAGRAPH (11.4.6) AND SUBSTITUTE:**

“The Contractor shall file two certified copies of all policies with the Owner before exposure to loss can occur. If the Owner is damaged by the failure of the Contractor to maintain such insurance and to so notify the Owner, then the Contractor shall bear all reasonable costs properly attributable thereto.

79. DELETE PARAGRAPHS (11.4.7, 11.4.8, 11.4.9, AND 11.4.10) IN THEIR ENTIRETY.

80. DELETE PARAGRAPH (11.5.1) AND SUBSTITUTE:

“The Contractor shall furnish a Performance Bond and a separate Labor and Material Payment Bond, each for one hundred percent (100%) of the Contract Sum. Form of these bonds shall be as provided by the Owner in the Project Manual and no other form will be accepted. The Surety shall be authorized to do business in the State of Illinois and be acceptable to the Owner.

81. IN PARAGRAPH (12.1.1) DELETE THE WORD “Architect’s” AND SUBSTITUTE WORDS “Owner’s Representative’s and Architect’s”. DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

82. IN PARAGRAPH (12.1.2) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.

83. IN PARAGRAPH (12.2.1.1) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.

84. IN PARAGRAPH (13.5.4) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.

85. IN PARAGRAPH (14.1.1.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

86. IN PARAGRAPH (14.2.2) DELETE THE PHRASE “, upon certification by the Architect that sufficient cause exists to justify such action,”.

87. IN PARAGRAPH (14.2.4) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.

88. DELETE PARAGRAPH (14.4.3) IN ITS ENTIRETY AND SUBSTITUTE:

In case of such termination for the Owner’s convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination. In no event, however, will such amounts exceed the Contract Sum reduced by the amount of prior payments except for increases pursuant to the claims procedure in the Contract Documents. Subcontracts, subsubcontracts, and purchase orders will contain appropriate provisions for termination for convenience under this Paragraph 14.4.

89. ADD THE FOLLOWING ARTICLE 15: LABOR, SAFETY AND WAGE STANDARDS TO THE GENERAL CONDITIONS OF THE CONTRACT:

ARTICLE 15 LABOR, WAGE, SAFETY, AND OTHER STANDARDS

15.1 LABOR STANDARDS. All employers shall comply with the Employment of Illinois Workers on Public Works Act [30 ILCS 570/1 to 570/7].

15.2 WAGE STANDARDS.

15.2.1 PREVAILING WAGE ACT: Wages and benefits to employees shall comply with all Federal and State of Illinois statutes pertaining to public works projects and specifically: Wages of Employees on Public Works [820 ILCS 130/1 - 12].

15.2.2 Not less than the prevailing rate of wages as determined by the Park District or the Department of Labor shall be paid to all laborers, workers and mechanics performing work under this contract. All contractor's bonds shall include a provision as will guarantee the faithful performance of such prevailing wage clause as provided by this bid specification or contract.

15.2.3 The terms "general prevailing rate of hourly wages", "general prevailing rate of wages" or "prevailing rate of wages" when used in this Act mean the hourly cash wages plus fringe benefits for training and apprenticeship programs approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training, health and welfare, insurance, vacations and pensions paid generally, in the locality in which the work is being performed, to employees engaged in work of a similar character on public works.

15.2.4 **PREVAILING WAGE ACT/FOIA**
Contractors and subcontractors shall submit certified payroll on a monthly basis to the Park District in compliance with requirements of 820 ILCS 130/5. These records will be kept by the Park District for three years and may be reviewed by others through the Freedom of Information Act (FOIA). The Park District will exclude employee's address, telephone number, and social security number from public inspection.

15.3 SAFETY STANDARDS.

15.3.1 **PROTECTION OF PERSONS AND PROPERTY:** The Contractor and his subcontractors shall, at all times, comply with applicable provisions of Federal, State and Local laws.

15.3.1.1 The Contractor and his sub-contractors shall have written programs complying with Occupational Safety and Health Administration standards and/or Illinois Department of Labor requirements including, but not limited to the following: hazardous communications, hearing conservation, respirator use, confined space entry, scaffolding, ladders, ventilation, flammable and combustible liquids, and lockout/tagout. The Contractor shall submit documentation of their programs at the request of the Owner's Representative, or Occupational Safety and Health Administration and/or Illinois Department of Labor officials.

15.4 EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT

15.4.1 During the performance of the contract, the contractor agrees to the following:

15.4.1.1 That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are under-utilized and will take appropriate affirmative action to rectify any such under-utilization.

15.4.1.2 That, if it hires additional employees in order to perform his contract or any portion thereof, it will determine the availability (in accordance with the Rules and Regulations of the Illinois Department of Human Rights) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not under-utilized.

- 15.4.1.3** That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability or an unfavorable discharge from military service.
- 15.4.1.4** That it will have a written sexual harassment policy to include at the minimum, the following:
- 15.4.1.4.1** a definition of sexual harassment under the law;
 - 15.4.1.4.2** a description of sexual harassment utilizing examples;
 - 15.4.1.4.3** a formalized complaint procedure;
 - 15.4.1.4.4** a statement of victim's rights;
 - 15.4.1.4.5** directions on how to contact the Illinois Department of Human Rights. Out-of-state companies must provide directions for filing with the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency; and
 - 15.4.1.4.6** A recitation that there cannot be any retaliation against employees who elect to file charges.
 - 15.4.1.4.7** In addition, it is recommended that the employer post a copy of the sexual harassment policy in a prominent and accessible location and distribute it in a manner to assure notice to all employees on an annual basis.
 - 15.4.1.4.8** The Illinois Human Rights Act specifically provides that all documents may meet, but cannot exceed, the sixth grade literacy level. Therefore, the employers sexual harassment policy must be stated in plain language and in "laymen's terms".
- 15.4.1.5** That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 15.4.1.6.** That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- 15.4.1.7.** That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

15.4.1.8. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

15.4.2 In the event of the contractor's non-compliance with the provisions of the Illinois Human Rights Act, the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporation, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulations.

END OF SUPPLEMENTARY GENERAL CONDITIONS

DIVISION 010000 GENERAL REQUIREMENTS

SECTION 010000 - GENERAL

A. SUMMARY OF THE WORK

1. The Work covered under this Contract consists of that work described by the Invitation to Bid, the Instructions/Supplemental Instructions to Bidders, the Bid/Proposal Form, the General/Supplemental Conditions of the Contract, these General Requirements, the Plans, and the Technical Specifications.
2. The Contractor shall be responsible for all items incidental to the scope of the Work intended by the bidding documents as per A.1 above, including but not limited to, expenses incurred by the requirements of various Sections of Division 010000, unless specifically stated otherwise herein.
3. Changes to the Work as required by approved Change Orders shall be at the expense of the Owner, however, requests for additional payments made after the fact will not be considered.

B. OCCUPANCY BY OWNER.

1. The Owner reserves the right to occupy any portion of the project before it has been entirely completed, with the understanding that such occupancy shall in no way constitute acceptance of the work, in whole or in part, or of any work performed under the Contract, provided that such occupancy does not substantially interfere with completion of the work by the Contractor.

SECTION 012300 – ALTERNATES

A. Alternates to the Bid are set forth in the Supplementary Instructions to Bidders and are listed in the Bid Form.

1. Accepted Alternates have been incorporated into the Agreement.

B. Bid Alternate pricing, as set forth in the Supplementary Instructions to Bidders and the Bid Form, shall be good for a minimum of 90 calendar days after the date of the Bid opening, and the Owner reserves the right to accept Alternates up to that time.

SECTION 012600 - CHANGE ORDERS

A. OWNER'S REPRESENTATIVE'S FIELD ORDERS

1. From time to time during progress of the Work the Owner's Representative may issue an "Owner's Representative's Field Order" which interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time.
2. Should the Contractor consider that a change in Contract Sum or Contract Time is required he shall submit an itemized proposal to the Owner's Representative **immediately and before proceeding with the Work.** If the proposal is found to be satisfactory and in proper order, the Field Order will be superseded by a Change Order.

B. PROPOSAL REQUESTS

1. From time to time during the progress of work the Owner's Representative may issue a "Proposal Request" for an itemized quotation for changes to the Work which may result in a change to the Contract Sum or Contract Time. This document **is not a Change Order** and is not a direction to proceed with the changes described therein.

C. CHANGE ORDERS

1. Change Orders are written documents describing changes in the Work, in the Contract Sum, in the Contract Time of Completion, or any combination thereof. Change Orders must be signed by both the Owner and the Architect/Owner's Representative prior to proceeding with the Work subject to the Change Order. **REQUESTS FOR "EXTRA'S" OR OTHER ADDITIONAL PAYMENTS OVER AND ABOVE THE CURRENT CONTRACT SUM WILL NOT BE CONSIDERED WITHOUT THE PRIOR, WRITTEN APPROVAL OF BOTH THE OWNER AND THE OWNER'S REPRESENTATIVE.**
 - a) INITIATION. Change Orders may be initiated by a "Field Order" or "Proposal Request" per paragraphs "A" and "B" above. In addition, either the Contractor or Owner (or Owner's Representative) may initiate a Change Order through:
 - 1) Discovery of a discrepancy in the Contract Documents,
 - 2) Discovery of concealed conditions or,
 - 3) Discovery, during the course of the Work, of methods of accomplishing the Work in a better or more economical manner.
 - b) PROCESSING CHANGE ORDERS.
 - 1) Change Orders will be dated and will be numbered in sequence.
 - 2) The Change Order will describe the change or changes, or will refer to the Proposal Requests or Field Orders involved.
 - 3) The Owner's Representative will issue three copies of each Change Order to the Contractor.
 - 4) The Contractor promptly shall sign all three copies and return them to the Owner's Representative.
 - 5) The Owner and Owner's Representative will retain two signed copies in their files, and will forward one signed copy to the Contractor.
 - 6) Should the Contractor disagree with the stipulated change in Contract Sum or change in Contract Time of Completion, or both:
 - i) The Contractor promptly shall return all three of the Change Orders, unsigned by him, to the Owner's Representative with a letter signed by the Contractor stating the reason or reasons for the Contractor's disagreement.
 - ii) The Contractor's disagreement with the Change Order shall not in any way relieve the Contractor of his responsibility to proceed with the change as ordered and to seek settlement of the dispute under pertinent provisions of the Contract Documents.

SECTION 012900 – PAYMENT PROCEDURES

A. SCHEDULE OF VALUES

1. Prior to the start of construction, submit a proposed Schedule of Values to the Owner's Representative which shows a detailed breakdown of the agreed Contract Sum showing values allocated to each of the various parts of the Work, as specified herein and in other provisions of the Contract Documents.
 - a) The Schedule of Values is required to be compatible (in the same format) with the Application for Payment "Continuation Sheet", AIA G703.
2. If not requested to submit additional data or to modify the submitted Schedule of Values within ten (10) days of submittal, the initially submitted Schedule shall be deemed approved.

B. APPLICATIONS FOR PAYMENT

1. Progress payments will be made only if specifically called for in the Agreement. In all other cases, the Contractor may submit an Application for Payment (3 copies) upon Substantial Completion (95% of the Contract Sum), with the balance of the Contract Sum to be paid at Final Completion.
 - a) **Paragraph #52 of the Supplementary General Conditions defines the documentation required for each payment request.**
 - b) Applications for payment shall be delivered to the Owner's Project Manager at:

Department of Planning, Design, and Construction
Peoria Park District
Bradley Park Equipment Service
1314 N. Park Road
Peoria, Illinois 61604

SECTION 013100 - PROJECT MEETINGS

A. PRECONSTRUCTION CONFERENCE

1. Conduct a preconstruction conference prior to the start of the Work, at the location of the Work. Provide attendance by the designated personnel of the Contractor, including Sub-contractor's and/or suppliers of major components of the Work, if requested by the Owner's Representative.
 - a) AGENDA. Discuss items of significance that could affect progress including such topics as:
 - 1) Tentative construction schedule.
 - 2) Critical Work sequencing.
 - 3) Designation of responsible personnel.
 - 4) Procedures for processing field decisions and Change Orders.
 - 5) Procedures for processing Applications for Payment.
 - 6) Distribution of Contract Documents.
 - 7) Submittal of Shop Drawings, Product Data and Samples.
 - 8) Preparation of record documents.
 - 9) Use of the premises.
 - 10) Office, Work and storage areas.
 - 11) Equipment deliveries and priorities.
 - 12) Safety procedures.
 - 13) First aid.
 - 14) Security.
 - 15) Housekeeping.
 - 16) Working hours.
 - 17) Permits and Permitting Agency Requirements

B. PROJECT MEETINGS

1. Project Meetings will be held per the schedule determined at the Preconstruction Conference, or as needed for proper coordination and administration of the project.
 - a) AGENDA
 - 1) Review and correct or approve minutes of the previous progress meeting.
 - 2) Review progress of the Work since last meeting, including status of submittals for approval.
 - 3) Identify problems which impede planned progress.
 - 4) Develop corrective measures and procedures to regain planned schedule.
 - 5) Complete other current business.

C. REPORTING

1. Distribute copies of the minutes of each meeting to each party present, and to other parties who should have been present, no later than three business days after each meeting.

SECTION 013300 - SUBMITTALS

- A. Requirements for shop drawings, samples, mock-ups, product data, etc., relative to specific elements or components of the work are called out in the various sections of the Technical Specifications.
 1. Submit items to allow for Owner's Representative's review and approval, potential re-submission if full approval is not given, ordering, delivery, fabrication time, etc., so as to allow the Work to proceed in a timely manner and in conformance with the project schedule.
- B. OTHER CONTRACTOR SUBMITTALS
 1. Unless otherwise modified the Contractor shall also submit:
 - a) A "bar chart" type proposed construction schedule, within ten days after award of the Bid.

- b) Other submittals as required by other section of Division 010000.
- C. Submission of the required Bonds and Certificate of Insurance are to be made prior to the Owner's issuance of a Notice to Proceed.

SECTION 014000 – QUALITY/REGULATORY REQUIREMENTS

- A. GENERAL: Contractors shall comply with all laws, rules and regulations governing the work.
 - 1. When Contractor observes that contract documents are at variance with specified codes, notify Owner's Representative in writing immediately. Owner's Representative will issue all changes in accord with General Conditions.
 - 2. When Contractor performs any work knowing or having reason to know that the work is contrary to such laws, rules and regulations and fails to so notify the Owner's Representative, Contractor shall pay all costs arising therefrom. However, it will not be the Contractor's primary responsibility to make certain that the contract documents are in accord with such laws, rules and regulations.
- B. SAFETY:
 - 1. Comply with all federal, state, and local laws, rules and regulations governing the installation/construction of the work.
 - 2. Develop and utilize safety program and training for workmen and sub-contractor employees.
- C. TESTING
 - 1. TESTS AND INSPECTIONS REQUIRED
 - a) Provide all tests and inspections required by governmental agencies having jurisdiction, as required by provisions of the Contract Documents and/or as specifically required by sections of the Technical Specifications.
 - 2. PAYMENT FOR TESTING
 - a) Include within the Contract Sum an amount sufficient to cover all testing, re-testing, and inspections required by the Contract documents and/or the Technical Specifications. Additionally pay for all testing and inspections required by all governmental agencies having jurisdiction.
 - 1) The Owner will pay for any testing and inspecting specifically requested by the Owner's Representative which are over and above those described in Paragraph 1.a) above.
 - 2) When initial tests (over and above those defined by 1.a) above) requested by the Owner's Representative indicate non-compliance with the Contract Documents, costs of initial tests associated with that non-compliance will be deducted by the Owner from the Contract Sum, and subsequent retesting occasioned by the non-compliance shall be performed by the same testing laboratory and the costs thereof shall be paid by the Contractor.
 - 3. WAIVER OF INSPECTION AND/OR TESTS
 - a) Specified inspections and/or tests may be waived only by the specific written approval of the Owner's Representative, and **such waivers will be expected to result in credit to the Owner equal to normal cost of such inspection and/or test.**

SECTION 014200 - REFERENCE STANDARDS AND DEFINITIONS

- A. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entity's construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed for performance of a required construction activity the Contractor shall obtain copies directly from the publication source.
 - 2. Although copies of standards needed for enforcement of requirements may be included as part of required submittals the Architect reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.
- B. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where such acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association standards generating organization authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the Encyclopedia of Associations, published by Gale Research Co. available in most libraries.
- C. Definitions: Architect, Owner's Representative, and Owner's Project Manager
 - 1. **ARCHITECT:** The Architect shall be the person or entity designated by the Owner as the Owner's Representative and shall be identified as such in the Agreement Between Owner and Contractor, and is referred to throughout the Contract Documents as if singular in number and masculine in gender.
 - 2. **OWNER'S REPRESENTATIVE:** The duties of the Owner's Representative as listed in the Project Manual, include but are not limited to, construction phase observation and technical administration services.
 - a) **LIMITS OF AUTHORITY:** The Owner's Representative shall be authorized to provide approvals and interpretations concerning the plans, specifications and progress of the Work as bid, but is not authorized to change the scope of the Work on behalf of the Owner.
 - 3. **OWNER'S PROJECT MANAGER:** The Owner's Project Manager will represent, act on behalf of, and provide interface between the Owner and the Contractor in respect to contract administration and/or other matters which affect the scope of the Work.
 - a) Unless defined otherwise in the Project Manual, the Owner's Project Manager shall be a designated member of the Planning, Design, and Construction Division of the Peoria Park District.
 - b) The Owner's Project Manager will also be the Owner's Representative and will provide construction phase observation and technical administration services, if a consultant Architect has not been engaged to do so, by the Owner.

SECTION 015000 – TEMPORARY FACILITIES & CONTROLS

- A. MOBILIZATION
 - 1. Furnish all labor, tools, materials, equipment, and incidentals necessary for preparatory work.
 - 2. Provide and establish personnel, equipment, supplies, materials, offices or buildings, and other facilities necessary to work on the project.
 - 3. Demobilize all of the above and remove temporary facilities at the completion of the project.

B. BARRIERS, PROTECTION OF SITE AND PROPERTY

1. GENERAL

- a) Owner's improvements to remain, existing utilities, as well as adjacent site improvements shall be protected from damage by barriers, guards and coverings. Damaged work shall be replaced or repaired to condition prevailing at time of signing of contract, at no additional cost to Owner.
- b) Provide 6' high, continuous chain link or orange plastic (used materials acceptable) construction fence to prohibit unauthorized personnel or public entry from the site of the Work. (Substitutions may be considered; submit request in writing to the Owner's Representative.)
- c) Contractor shall provide, erect and maintain additional planking, fences, protective canopies, railings, shoring, lights, warning signs, etc., as needed for the protection of adjacent property and the public.

2. LANDSCAPE PROTECTION

- a) All live, healthy trees, shrubs, etc. on the site or on the street fronts of the site, not specified to be removed and not interfering with installation of new work required hereunder, shall be protected against injury from construction operations.
- b) All shade trees which are to remain and which are liable to damage during the building operations, shall be properly boxed and protected from damage during the course of construction work as directed by the Park District. **No site-related work shall occur until the required tree protection (fencing, boxing, etc.) has been installed and approved by the Owner or his representative.**
 - 1) LIQUIDATED DAMAGES: The Owner reserves the right to charge the Contractor for damage to existing trees, and to deduct the charges from the amounts due the Contractor, based on the following schedule:
 - aa) Broken limbs 1" or over in diameter: \$50 per caliper inch of limb
 - bb) Trenching or grading within the tree dripline or 20' from the trunk, whichever is less, of trees 4" or over in caliper diameter: \$100 per tree/per foot within dripline, or within 20' minimum if applicable
 - cc) Damage to tree trunks, including "barking", nicking, gouging, etc. \$150 per caliper inch of tree, per each injury

3. BARRIERS/CONSTRUCTION FENCE MATERIALS

- a) 2" open mesh chain link fence, 72" high minimum, galvanized, with appropriately sized posts; gates where indicated.
- b) Alternate barrier fencing materials may be acceptable, however, no additional payments will be made on account of approval of alternate barrier/safety fencing materials.
- c) Materials may be new or used, if in serviceable condition.

4. WATCHMAN SERVICE

- a) The Owner will not be responsible for loss due to theft or other damage which is not covered under Property Insurance. The Contractor shall make such arrangements for watchman service as he considers necessary and he shall be responsible for all loss or damage of his property, equipment, material, etc., at the site, and he shall make good such damage or loss without any additional cost to the Owner.

5. EXISTING IMPROVEMENTS - PROTECTION

- a) The Contractor shall be entirely responsible for all injuries to water pipes, electric conduits or cables, drains, sewers, gas mains, poles, telephones and telegraph lines, streets, pavements, sidewalks, curbs, culverts, retaining walls, building walls, foundation walls, or other structures of any kind met with during the progress of the Work, and shall be liable for damages to public or private property resulting therefrom.

C. CONSTRUCTION ACCESS, ROADS, AND PARKING AREAS

1. CONTRACTOR'S USE OF PREMISES

- a) The Contractor shall require that all personnel who will enter upon the Owner's property certify their awareness of and familiarity with the requirements of this Section.

2. CONSTRUCTION ACCESS

- a) To avoid traffic conflict with vehicles of the Owner's employees and customers, and to avoid over-loading of streets and driveways elsewhere on the Owner's property, limit the access of trucks and equipment to the route shown (IF SHOWN) on the Drawings as "Access Route". If access route is not shown on the Drawings, coordinate construction access and routes with the Owner's Project Manager.
- b) Do not permit such vehicles to park on any street or other area of the Owner's property except in the area shown on the Drawings as "Contractor's Parking Area". If not shown on the drawings, the Contractor's Parking Area shall be as designated by the Owner's Project Manager.
- c) Provide adequate protection for curbs and sidewalks over which trucks and equipment pass to reach the job site.

3. SECURITY

- a) Restrict the access of all persons entering upon the Owner's property in connection with the Work to the Access Route and to the actual site of the Work.

D. TEMPORARY ENVIRONMENTAL CONTROLS

1. GENERAL

- a) Provide temporary environmental controls at the site of the Work to ensure that construction operations have no harmful effects on adjacent properties and on members of the public who may come in proximity to the Work, and/or the employees of the Owner who are engaged in regular daily tasks and operations and are unable to be relocated to another work site during construction operations.
- b) Owner reserves the right to stop the Work, at the Contractor's expense, until the Contractor provides necessary control measures for the conditions listed below; additionally, the Owner reserves the right to perform or have performed necessary control measures, should the Contractor refuse to do so at the time requested and to deduct the cost of those expenses from the amount due the Contractor.

2. DUST CONTROL

- a) Provide dust control materials to minimize dust from construction operations. Prevent air-borne dust from dispersing into the atmosphere.

3. WATER CONTROL

- a) Control surface water to prevent damage to the project, the site and adjoining properties.
 - 1) Control fill, grading, and ditching to direct surface drainage away from excavations, pits, tunnels, and other construction areas; direct drainage to proper runoff channels or storm drainage utilities.
- b) Provide, operate and maintain hydraulic equipment of adequate capacity to control surface water.

- c) Dispose of drainage water in a manner to prevent flooding, erosion silting, or runoff of silt or sediment or other damage to all portions of the site or to adjoining properties.
- 4. **RODENT CONTROL**
 - a) Provide rodent control to prevent infestation of construction or storage areas.
 - 1) Use methods and materials which will not adversely affect conditions at the site or on adjoining properties.
- 5. **DEBRIS CONTROL**
 - a) Maintain all areas free of extraneous debris, waste, and rubbish.
- 6. **POLLUTION CONTROL**
 - a) Prevent contamination of soil, water or atmosphere by the discharge of noxious substances from construction operations.
 - b) Provide equipment and personnel, perform emergency measures to contain all spillages, and to remove contaminated soils or liquids.
 - 1) Excavate and dispose of all contaminated earth off-site. Replace with suitable compacted fill and topsoil.
 - c) Take special measures, as necessary, to prevent harmful substances from entering public waters, including lakes, streams, intermittent drainage channels, and storm or sanitary sewers.
- 7. **EROSION CONTROL**
 - a) Plan and execute construction and earthwork in a manner to control surface drainage from cuts and fills, and from borrow and waste disposal areas, to prevent erosion and sedimentation.
 - 1) Schedule the Work to minimize the areas of bare soil exposed at one time, if possible.
 - 2) Provide temporary control measures such as berms, dikes, and drains to prevent runoff of silt or sediment from the site.
 - 3) Comply with Section 015713.

E. PROJECT IDENTIFICATION AND SIGNAGE

- 1. **GENERAL**
 - a) Provide and install project identification sign, if located and/or called out on the Drawings.
- 2. **SUBMITTALS**
 - a) Provide shop drawing(s) of proposed sign/sign installation to Owner's Representative for approval, prior to installation
- 3. **INSTALLATION**
 - a) Provide project sign as detailed on Drawings
 - b) If not detailed on Drawings provide project identification sign per the following minimum requirement:
 - 1) Content
 - aa) Name of project
 - bb) Name of Owner
 - cc) Name of Architect(s) and major consultants
 - dd) Names of Contractor and major subcontractors
 - ee) Allow additional 200 characters of text explaining the project
 - 2) Construction
 - aa) Size: 4' x 8'
 - bb) Materials: Min. 5/8" AC DFPA Exterior Plywood, with (2) 4" x 4" x 12' long pressure treated post supports
 - cc) Paint: paint front and back, seal edges, provide content as approved by Owner's Representative. Conform to recognized sign painting standards in selection of paint materials. Use only professional sign painter with three years minimum experience to apply sign graphics and lettering.
 - 3) Install sign in a manner consistent with length of time of construction operations. Remove sign and fill post holes at project completion.

F. FIELD OFFICES

- 1. **TEMPORARY FACILITIES**

Provide and pay for temporary (new, or used if in serviceable condition) facilities and controls needed for the Work, if called out on the Drawings, which may include, but are not necessarily limited to:

 - a) Temporary utilities such as heat, water, electricity, and telephone;
 - b) Field office for the Contractor's personnel (required if shown on the Drawings; otherwise at the Contractor's option and expense).
 - 1) Conform with requirements for Engineer's Field Office Type B, as defined in Article 646.04 of the Standard Specifications for Road and Bridge Construction - Illinois Department of Transportation.
 - c) Sanitary facilities;
 - d) Enclosures such as tarpaulins, barricades, and canopies;
 - e) Temporary fencing of the construction site;
 - f) Project sign.
- 2. Comply with Federal, State, and local codes and regulations.
 - a) Maintain temporary facilities and controls in proper and safe condition throughout the progress of the work. The Contractor is responsible for conformance with all safety codes and regulations for all Work under his jurisdiction, including that of Sub-Contractors.
- 3. Locate temporary facilities as shown on the Drawings, or as approved by the Owner's Representative if not shown on the Drawings.

SECTION 015713 – EROSION & SEDIMENT CONTROL

A. RELATED DOCUMENTS

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

B. SUMMARY

- 1. This Section includes the following:
 - a) Site erosion and sediment control
 - b) Silt fencing
 - c) Ditch checks

- d) Erosion control blankets
- e) Culvert and inlet protection
- f) Stabilized entrance
- 2. Related Sections include the following:
 - a) Division 31 – Earthwork.
 - b) Division 32 – Exterior Improvements.
- 3. Erosion and Sediment Control Statement: The Peoria Park District takes the issue of construction related erosion and sediment control extremely seriously. The Peoria Park District is a community leader in the conservation and protection of our area's natural resources. This project will be watched closely by both staff and citizens for compliance with erosion and sediment control regulations and specifications.

C. QUALITY ASSURANCE

- 1. Materials and methods of construction shall comply with the following standards:
 - a) Illinois Department of Transportation
 - b) City of Peoria

D. PRODUCTS

- 1. Silt Fencing
 - a) Fabric for silt fencing shall consist of woven or nonwoven filaments of polypropylene, polyester, or polyethylene. Fabric shall be resistant to degradation by ultraviolet light and heat exposure. Fabric shall be rot, insect, and mildew proof, and have a high resistance to tearing.
 - 1) Fabric shall comply with the following physical properties:

aa) Grab tensile strength (lb) – ASTM D4632	200 (min)
bb) Grab elongation @ break (%) – ASTM D4632	12
cc) Burst strength (psi) – ASTM D751	250 (min)
dd) Trapezoidal tear strength (lb) – ASTM D4533	75
ee) Width (ft)	3.5 (min)
ff) Weight (oz/sq. yd) – ASTM D3776	4.0
gg) Equivalent opening size	30 (nonwoven)
hh) (EOS) sieve no. – Corps of Engrs. CS-02215	50 (woven)
- 2. Ditch Checks
 - a) Ditch checks will consist of silt fencing with the addition of wire reinforcement.
 - b) Wire shall be 9 gauge.
 - c) Alternate: Straw bales may be used in lieu of silt fencing
- 3. Posts
 - a) Posts shall be standard "T" or "U" steel posts or wood with a minimum cross section of 3 square inches. Posts shall be a minimum of 60" in length. Posts shall be driven a minimum of 24" into the ground.
- 4. Erosion Control Blankets
 - a) Excelsior Blanket: Excelsior blanket shall consist of a machine produced mat of wood excelsior of 80% 6" or longer fiber length. The wood from which the excelsior blanket is cut shall be properly cured to achieve adequately curled and barbed fibers.
 - 1) The blanket shall be of consistent thickness, with the fiber evenly distributed over the entire area of the blanket. The excelsior blanket shall be covered on the top side with a 90 day biodegradable extruded plastic mesh netting having an approximate minimum opening of 16 x 16 mm (5/8 x 5/8 in.) to an approximate maximum opening of 50 x 25 mm (2 x 1 in.). The netting shall be substantially adhered to the excelsior blanket by a knitting process using biodegradable thread or by an applied degradable adhesive. The netting shall be substantially adhered to the excelsior by a knitting process using biodegradable thread. The netting shall be entwined with the excelsior blanket for maximum strength and ease of handling.
 - 2) The excelsior blanket shall comply with the following:

aa) Minimum width, ± 25 mm (1 in.)	600 mm (24 in.)
bb) Minimum mass ± 10%	0.34 kg/sm (0.63 lb/sq yd)
cc) Minimum length of roll, approximately	45 m (150 ft)
 - 3) The excelsior blanket shall be smolder resistant.
- 5. Culvert And Inlet Protection
 - a) Culvert protection shall consist of a ditch check immediately upstream of every culvert entrance. Ditch check shall be installed to protect culvert interior from sedimentation.
 - b) Inlet protection shall consist of purpose made devices by:
 - Dandy Products, Inc.
 - P. O. Box 1980
 - Westerville, Ohio 43086-1980
 - Phone: 1-800-591-2284
 - Fax: 740-881-2791
 - www.dandyproducts.com
 - dlc@dandyproducts.com
 - or
 - NILEX, Inc.
 - 15171 E. Fremont Drive
 - Centennial, CO 80112
 - Phone: 1-800-537-4241
 - Fax: 303-766-1110
 - www.nilex.com
 - denver@nilex.com

- c) "Or Equal" substitutions may be made with prior approval of Owner's Representative.
- 6. Stabilized Entrance
 - a) Stabilized entrance shall consist of coarse aggregate laid over geotextile fabric.
 - b) Dimensions: 70' long by 14' wide.
 - c) Geotextile Fabric: as per requirements of "silt fencing".
 - d) Aggregate: IDOT Class CA-1, CA-2, cA-3, or CA-4.

E. EXECUTION

- 1. Site Erosion And Sediment Control
 - a) Contractor is responsible for fulfilling terms of City of Peoria Erosion Control Permit and all applicable portions of the "Erosion, Sediment, and Stormwater Control Ordinance of the City of Peoria".
 - b) Install control devices as shown on erosion control plan.
 - c) Install additional measures as needed to control erosion and sedimentation on the site.
- 2. Silt Fencing Installation
 - a) Install silt fencing according to details in plans. The silt fence shall be entrenched to a minimum depth of 8".
 - b) The silt fence shall be installed on the contour, with the ends extending up-slope.
 - c) Install silt fencing before commencing site clearing work.
- 3. Ditch Check Installation
 - a) Install ditch checks according to details in plans.
 - b) Install ditch checks at locations shown on plans.
 - c) Install additional ditch checks as needed to control erosion within drainage swales as site conditions and weather dictate.
 - d) Install ditch checks immediately after swales are graded.
- 4. Erosion Control Blankets Installation
 - a) Install erosion control blankets as needed to control erosion in drainage swales and at the direction of the Owner's Representative.
 - b) Anchor stakes shall be driven at a spacing of 2 feet on center.
- 5. Culvert And Inlet Protection Installation
 - a) Install culvert protection at upstream entrances to all culverts.
 - b) Install culvert protection to intercept waterborne silt and sediment and prevent it from entering culvert pipes.
 - c) Install immediately after culvert installation.
 - d) Install inlet protection according to manufacturer's written instructions at each inlet immediately after inlet construction.
- 6. Stabilized Construction Entrance Installation
 - a) Install stabilized construction entrance and other approved measures as necessary to limit tracking of soil on to all paved surfaces.
 - b) Comply with all City of Peoria codes limiting tracking of soil on to City streets.
- 7. Maintenance
 - a) Inspect silt fences after each rainfall. Repair fencing, failures, end runs, and erosion cuts immediately.
 - b) Remove soil from silt fencing after each rainfall.
 - c) Erosion control maintenance and repair shall be considered incidental to the contract.
 - d) Tracked soil and sediment shall be removed from all paved surfaces on a daily basis.
 - e) Replace or provide new erosion and sediment control measures as needed during construction to provide protection to site and surrounding property for the entire time of construction, or until project is complete.
- 8. Close-Out
 - a) Remove silt fencing and other erosion and sediment control devices after lawn or seeding has been established.
 - b) Soil deposits remaining in place after silt fence is no longer required shall be dressed to conform to existing grade, and seeded with appropriate seed material.

SECTION 016000 – PRODUCT REQUIREMENTS

A. MATERIALS AND EQUIPMENT

- 1. STANDARD SPECIFICATIONS
 - a) Reference herein to known standard specifications of governmental agencies or technical societies shall refer to the latest edition of such specifications, adopted and published at date of these Specifications.
- 2. MANUFACTURED ARTICLES
 - a) All manufactured articles, materials and equipment to be incorporated in the work shall be new (unless otherwise specified) and of the quality specified and shall be used, erected, installed, connected, cleaned and conditioned as directed by and in conformity with job conditions to produce the best results obtainable.
 - 1) Field measurements for all special products and materials which requires close tolerances or fitting into other items or components of the Work shall be taken on the job by the party furnishing the materials.
- 3. QUALITY ASSURANCE
 - a) Per the Supplementary Instructions to Bidders, the Bidder by submission of a signed bid form, agrees to install products and equipment by brand and model name or names specified in the Technical Specifications, Divisions 02-35. Substitutions are allowed only in conformance to the following:
 - 1) Proprietary Specification Requirement: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.
 - 2) Semiproprietary Specification Requirement: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted
 - aa) Where either of the two cases above prevail, and the named product is accompanied by "or approved equal" substitutions will be allowed only upon written approval of the Owner's Representative prior to submission of bids.
 - 3) Non-Proprietary Specification Requirement: When the Specifications lists products or manufacturers that are available and are accompanied by "or equal", the Contractor may propose any available product that complies with the Specifications' requirements; however, the Owner's Representative shall determine if the produced item complies with those requirements.

- 4) Descriptive Specification Requirement: Where Specifications describe a product or assembly listing exact characteristics required, with or without use of a brand, trade, or model name, provide a product or assembly that provides the characteristics and otherwise complies with the Contract Documents.
- 5) Performance Specification Requirement: Where Specifications require compliance with performance requirements, provide products or assembly that comply with these requirements and are recommended by the manufacturer for the application indicated.
- 6) Compliance with Standards, Codes, and Regulations: Where the Specifications only require compliance with an imposed code, standard, or regulation, select a product that complies with the standard, code, or regulation specified.
- b) **VISUAL MATCHING AND SELECTION**. Where the Specifications require matching an established sample or call for "as selected", the Owner's Representative's decision will be final on whether a proposed product matches satisfactorily.

B. STORAGE AND PROTECTION

1. GENERAL

- a) Contractor shall provide and maintain:
 - 1) Storage for materials and equipment to be installed in Project.
 - 2) Protection and security for stored materials and equipment, on and off site.
 - 3) Protection of existing on-site elements to remain.
 - 4) Protection of adjacent properties improvements

2. METHODS

- a) Store off grade and cover with impervious material all moisture or water vulnerable materials.
- b) Store finished products and equipment in an enclosed building, on or off site.
- c) Maintain integrity of shipping cartons until ready for installation.
- d) Provide separate storage for combustible and non-combustible products.
- e) Follow storage recommendations of product and equipment manufacturers.
- f) Other methods shall be subject to Owner's prior written approval.

3. The Contractor shall maintain an emergency phone number where a contact person can be notified at any time, Sundays and holidays included, of an emergency condition due to the work which requires immediate repair or protection.

C. SUBSTITUTIONS

1. See "SECTION 016000 – A. MATERIALS AND EQUIPMENT" for requirements pertaining to substitution of specified materials, products, equipment, etc.
2. Contractor may propose substitute materials, products, equipment, etc., after award of the Bid; however, such proposals are expected to result in a cost savings to the Owner and/or higher quality Work at no additional cost to the Owner.

D. WARRANTIES AND BONDS

1. GENERAL

- a) This Section specifies general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturer's standard warranties on products and special warranties.
- b) Warranties for the Work and products and installations of each Contractor shall be one (1) year unless specified otherwise in the individual Sections of Divisions 02 through 35.
- c) Disclaimers and Limitations:
 - 1) Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and Contractors required to countersign special warranties with the Contractor.
 - 2) The responsibility of the Contractor in respect to the required warranties shall not be relieved or limited in any way by the failure of installed components, equipment, materials, etc., due to naturally occurring and/or re-occurring conditions at the site or area of the Work including, but not limited to:
 - aa) ground and soil conditions, especially as related to frost heave;
 - bb) high wind velocities (except those exceeding velocities normally used for calculating wind loading at the site of the Work);
 - cc) rain and water damage (unless caused by winds exceeding normal design limits);
 - dd) ice/snow loading on structures
 - ee) and other naturally occurring or re-occurring site conditions
 - 3) The Contractor shall notify the Owner's Representative, prior to the award of the contract, of any part or component of the Work that is, in his opinion, not designed to accommodate the existing, naturally occurring, or re-occurring conditions of the site, and whether or not a change in the proposed methods of construction, types of equipment, etc., will affect the bid price.
 - aa) Should the proposed change in construction methods, equipment type, etc., result in additional expense, the Owner reserves the right to request proposals from the other bidders and to make award the contract based on the bid amount which includes the proposed change.

2. WARRANTY REQUIREMENTS

- a) **Related Damages and Losses**: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- b) **Reinstatement of Warranty**: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- c) **Replacement cost**: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.

- d) Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights or remedies.
 - aa) Rejection of Warranties: The Owner reserves the rights to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
 - e) The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
 - f) For specific warranty requirements related to landscape materials, refer to the applicable Section.
3. SUBMITTALS
- a) Submit written warranties to the Owner's Representative prior to the date certified for Substantial Completion. If the Owner's Representative's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Owner's Representative.
 - 1) When a designated portion of the Work is completed and occupied or used by the Owner, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the Owner's Representative within fifteen days of completion of that designated portion of the Work.
 - b) Form of Submittal: At Final Completion, compile two copies of each required warranty and bond properly executed by the Contractor, or by the Contractor, Subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - c) Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
 - d) Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
 - e) Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS", the project title or name, and the name of the Contractor.
 - f) When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

SECTION 017300 – EXECUTION

A. GEOTECHNICAL DATA

- 1. If the Owner has caused borings or other subsurface investigations to be made, the data or report pursuant to these investigations will be included in the Project Manual, as an Appendix, and labeled as such.
- 2. The Owner and Owner's Representative do not guarantee the accuracy or validity of the data, nor do they assume any responsibility for the Contractor's interpretation of the data.
- 3. The Contractor's may, at his option, perform additional subsurface investigation, however, it shall be at the Contractor's sole expense.

B. FIELD ENGINEERING

Provide such field engineering services as are required for proper completion of the Work including, but not limited to:

- 1. Establishing and maintaining lines and levels
- 2. Structural design of shores, forms, and similar items provided by the Contractor as part of his means and methods of construction.
- 3. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks and control points. Preserve permanent reference points during construction.

C. COORDINATION OF TRADES AND SUB-CONTRACTORS

- 1. The Contractor shall be responsible for the proper fitting of all work and for the coordination of the operation of all trades, sub-contractors, or materials and men engaged upon the work. He shall be prepared to guarantee to each of his subcontractors the dimensions which may be required for fitting of their work to all surrounding work and shall do, or cause his agents to do, all cutting, fitting, adjusting and patching necessary to make the several parts of the work come together properly and fit the work to receive, or be received by that of other contractors.
- 2. When two or more prime contracts are being executed at one time in such manner that the work on one contract may interfere with the work of another, the Owner's Representative shall decide which contractor shall cease work and which shall continue, or whether the work on both contracts may progress at the same time and in what manner.
 - a) The Contractor shall not cause any unnecessary hindrance or delay to any other contractors on the premises, and shall be responsible for all damages done to the work of other contractors caused by him or by his employees.

D. REFERENCE AND CONTROL POINTS PROVIDED BY OWNER

In addition to layout procedures provided by the Contractor for proper performance of the Contractor's responsibilities:

- 1. Locate and protect existing control points before starting work on the site.
- 2. Preserve permanent reference points during progress of the Work.
- 3. Do not change or relocate reference points or items of the Work without specific approval from the Owner's Representative.
- 4. Promptly advise the Owner's Representative when a reference point is lost or destroyed, or requires relocation because of other changes in the Work.
- 5. Upon direction of the Owner's Representative, require the field engineer to replace reference stakes or markers.
- 6. Locate such replacement according to the original survey control.

E. REFERENCE AND CONTROL POINTS PROVIDED BY THE CONTRACTOR

- 1. If not provided by the Owner (and defined as the responsibility of the Owner in the Contract Documents) establish sufficient general reference points in the form of permanent bench marks, grade stakes or other markers as will enable the Contractor to proceed with the Work.
- 2. The Contractor may lay out his own work, or cause the Work to be laid out by a qualified party such as a Registered Land Surveyor or a Professional Engineer, as necessary.
- 3. The Contractor shall establish and be responsible for all lines, elevations and measurements of the structure utilities, installations, and other Work executed by him under the contract.

- a) Exercise proper precautions to verify the figures and dimensions shown on the drawings before laying out the work; be responsible for any error resulting from failure to exercise such precaution.

SECTION 017329 - CUTTING AND PATCHING

A. CHASES AND OPENINGS

1. The Contractor is responsible for the provision and/or coordination of all chases, openings and recesses required by work of his own forces, subcontractors or separate contractors.
 - a) Each subcontractor or separate contractor shall be responsible for furnishing advance information to the General Contractor as to exact dimensions and locations of such chases and openings, and shall provide and set in place all necessary sleeves, inserts and forms.
 - b) Openings shall be accurately located, neatly cut, and no larger than necessary. Provide all rebuilding, patching, refinishing and painting required to restore the construction to original condition.
2. Provide shoring, bracing, and support as required to maintain structural integrity of the project.
3. Provide protection from cutting and patching operations as required for other portions of the project; protect the Work and existing improvements in proximity to the cutting and patching operations from the elements.

SECTION 017419 – CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

A. PERIODIC CLEANING

1. Each Contractor shall clean up after his own work as needed and/or ensure that sub-contractors clean up after their work and remove accumulations of waste, debris, and rubbish caused by construction operations.
 - a) Remove all waste, rubbish and debris on a daily basis (if needed), as they accumulate, and after completion of the Work.

B. PROJECT COMPLETION

1. On completion of the project, the entire job shall be cleaned up and left in perfect condition, including adjacent areas.
 - a) Marred surfaces shall be patched or repaired and touched up to match adjoining surfaces.
 - b) All rubbish shall be removed from the site before acceptance.
 - c) New surfaces and/or exposed elements of the Work shall be protected from stain and marring. These surfaces shall be cleaned to the satisfaction of the Owner's Representative or replaced if said stains or mars are unable to be completely removed

C. GOVERNMENTAL REGULATIONS

1. Conduct cleaning and disposal operations in compliance with Federal, State and local ordinances and anti-pollution laws and regulations.

SECTION 017700 - PROJECT CLOSEOUT

A. GENERAL

Work includes:

1. Substantial Completion.
2. Final Completion
3. Closeout submittals.
4. Instruction

B. SUBSTANTIAL COMPLETION

1. Prepare and submit the list ("punch-list") required by the first sentence of Paragraph 9.8.2 of the General Conditions.
 - a) Within a reasonable time after receipt of the list the Owner's Representative will inspect to determine status of completion. Should the Owner's Representative determine that the Work is not Substantially Complete:
 - 1) The Owner's Representative will so notify the Contractor, in writing, giving the reasons therefore.
 - 2) Remedy the deficiencies and notify the Owner's Representative when ready for reinspection.
 - 3) The Owner's Representative will reinspect the Work.
 - b) When the Owner's Representative concurs that the Work is Substantially Complete:
 - 1) The Owner's Representative will prepare a "Certificate of Substantial Completion" on AIA form G704, accompanied by the Contractor's list of items to be completed or corrected, as verified and approved by the Owner's Representative.
 - 2) The Owner's Representative will submit the Certificate to the Owner and to the Contractor for their written acceptance of the responsibilities assigned to them in the Certificate.

C. FINAL COMPLETION

1. Prepare and submit the notice required by the first sentence of Paragraph 9.10.1 of the General Conditions.
 - a) Verify that the Work is complete including, but not necessarily limited to, the items mentioned in Paragraph 9.8.2 of the General Conditions. Certify that:
 - 1) the Contract Documents have been reviewed;
 - 2) the Work has been inspected for compliance with the Contract Documents;
 - 3) the Work has been completed in accordance with the Contract Documents;
 - 4) equipment and systems have been tested as required, and are operational;
 - 5) the Work is completed and ready for final inspection.
 - b) The Owner's Representative will make a final inspection to verify status of completion and if all "punch-list" items have been completed, and upon receipt of the Contractor's Final Application for Payment, issue a Certificate of Final Completion. Should the Owner's Representative determine that the Work is incomplete or defective:
 - 1) The Owner's Representative will so notify the Contractor, in writing, listing the incomplete or defective work.
 - 2) Remedy the deficiencies promptly, and notify the Owner's Representative when ready for reinspection.
 - c) **FINAL APPLICATION FOR PAYMENT**
 - 1) Submit a final Application for Payment to the Owner's Representative, showing all adjustments to the Contract Sum.

- 2) If needed, the Owner's Representative will prepare a final Change Order showing adjustments to the Contract Sum which were not made previously by Change Orders.
- 3) Include final waivers of lien from the Contractor, sub-contractors, and major suppliers.
- 4) Final payment will not be released until all close-out submittals have been made, final cleaning has been performed, and required instruction(s) to Owner's personnel have been accomplished.

D. CLOSEOUT SUBMITTALS

1. When the Owner's Representative determines that the Work is acceptable under the Contract Documents, he will request the Contractor to make closeout submittals. Closeout submittals include, but are not necessarily limited to:
 - a) Project record documents described in "Section 017839".
 - b) Operation and maintenance manuals/data as described in "Section 017823".
 - c) Warranties and bonds as described in "Section 016000".
 - d) Keys and keying schedule;
 - e) Spare parts and materials extra stock;
 - f) Evidence of compliance with requirements of governmental agencies having jurisdiction including, but not necessarily limited to:
 - 1) Certificates of Inspection, as required
 - 2) Certificate(s) of Occupancy
 - g) Certificates of Insurance for products and completed operations;
 - h) Evidence of payment and release of liens.
 - 1) Consent of Surety to Final Payment
 - 2) Contractor's Final Waiver of Lien
 - 3) Separate releases or Waivers of Lien for sub-contractors, suppliers and others with lien rights against the Owner, together with a list of those parties.
 - i) List of subcontractors, service organizations, and principal vendors, including names, addresses, and telephone numbers where they can be reached for emergency service at all times including nights, weekends, and holidays.

SECTION 017823 - OPERATING/MAINTENANCE MANUALS & INSTRUCTION

A. GENERAL

1. Compile operating/product data and related information appropriate for Owner's maintenance and operation of products and equipment provided under the Contract.
2. Instruct Owner's personnel in operation and maintenance of products, equipment and systems.
3. OPERATIONS AND MAINTENANCE DATA REQUIRED:
 - a) Operating and maintenance manuals are required for each area of Work which is listed below, if that area of Work is included within the scope of Work of the project:
 - 1) Radiant heating
 - 2) Plumbing – including water supply, sewage and waste disposal
 - 3) Electrical
 - 4) Fire sprinkler system
 - 5) Communications equipment and systems
 - 6) Materials and finishes
 - 7) Septic
 - 8) Other mechanical systems used

B. OPERATIONS/MAINTENANCE MANUALS - FORM OF SUBMITTAL

1. Prepare operating and maintenance manuals in the form of an instructional manual, utilizing heavy-duty, durable 3-ring vinyl covered loose-leaf binders, for use by the Owner's operating personnel. Organize into suitable sets of manageable size. Where possible, assemble instructions for similar equipment into a single binder. Provide when drawings or diagrams are required as part of the manual.
2. Provide sturdy manila or kraft envelope, accordion type file folder, or cardboard file boxes, properly labeled, of sufficient size to contain all submittals.
3. Submit one copy of data in final form at least fifteen days before final inspection. This copy will be returned within fifteen days after final inspection, with comments. After final inspection make corrections or modifications to comply with the Owner's Representative's comments and submit three copies of each approved manual to the Owner's Representative
4. WARRANTIES, BONDS AND SERVICE CONTRACTS
 - a) Provide a copy of each warranty, bond or service contract in the appropriate manual for the information of the Owner's operating personnel. Provide written data outlining procedures to be followed in the event of product failure. List circumstances and conditions that would affect validity of the warranty or bond. Provide list for each product containing name, address, and phone number of:
 - 1) Contractor.
 - 2) Subcontractor.
 - 3) Maintenance contractor, as appropriate.
 - 4) Local supply source for parts and replacement.
 - b) Identify area of responsibility of each contractor.

C. MANUAL FOR MATERIALS AND FINISHES

1. Submit two (2) copies of complete manual in final form.
2. Refer to individual Specification Sections for additional requirements on care and maintenance of materials and finishes.
3. Content for products, applied materials and finishes:
 - a) Manufacturer's data, giving full information on products.
 - 1) Catalog number, size, composition.
 - 2) Color and texture designations.
 - 3) Information for re-ordering special-manufactured products.

4. Instructions for care and maintenance.
 - a) Manufacturer's recommendations for types of cleaning agents and methods.
 - b) Cautions against cleaning agents and methods detrimental to product.
 - c) Recommended cleaning and maintenance schedule.
5. Moisture-Protection and Weather-Exposed Products: Provide complete manufacturer's data with instructions on inspection, maintenance and repair of products exposed to the weather or designed for moisture-protection purposes.
6. Manufacturer's Data: Provide manufacturer's data giving detailed information, including the following, as applicable:
 - a) Applicable standards.
 - b) Chemical composition.
 - c) Installation details.
 - d) Inspection procedures.
 - e) Maintenance information.
 - f) Repair procedures.

D. INSTRUCTION

1. Instruct the Owner's personnel in proper operation and maintenance of systems, equipment, and similar items which were provided as part of the Work including, but not limited to;
 - a) Mechanical
 - b) Water supply
 - c) Electrical service/distribution and lighting
 - d) Other items or systems as required in individual sections of the Technical Specifications
2. Instructions for the Owner's Personnel: For instruction of the Owner's operating and maintenance personnel, use experienced instructors thoroughly trained and experienced in the operation and maintenance of the equipment or system involved.

SECTION 017839 - PROJECT RECORD DOCUMENTS (AS-BUILTS)

A. DOCUMENTS REQUIRED AT SITE

1. The Contractor shall maintain at the job site one copy of all Drawings, Specifications, Addenda, approved Shop Drawings, Change Orders, and other Contract modifications.
 - a) Each of these project record documents shall be clearly marked "**Project Record Copy**"
 - b) Shall be maintained in good condition
 - c) shall be available at all times for inspection by the Park District, and shall not be used for construction purposes.

B. Project-record drawings shall be marked up to show significant changes made during construction progress, referenced to visible and accessible features of the structures. Project-record drawings shall be kept current and no work shall be concealed until required information has been recorded.

C. Record-documents shall be submitted in satisfactory condition to the Park District at the completion of the project. **FINAL COMPLETION OF THE PROJECT WILL NOT BE ATTAINED, AND FINAL PAYMENT WILL BE WITHHELD, UNTIL PROJECT "AS-BUILTS" ARE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.**

END OF GENERAL REQUIREMENTS

ATTACHMENT A.6

INSURANCE REQUIREMENTS
ROUTINE CONSTRUCTION, MAINTENANCE AND REPAIR PROJECTS

Contractor shall obtain insurance of the types and in the amounts listed below.

A. COMMERCIAL GENERAL AND UMBRELLA LIABILITY INSURANCE

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it shall apply separately to this project/location.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 10 93, or a substitute form providing equivalent coverage, and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Owner shall be included as an insured under the CGL, using ISO additional insured endorsement CG 20 10 or a substitute providing equivalent coverage, and under the commercial umbrella, if any. This insurance shall apply as primary insurance with respect to any other insurance or self-insurance afforded to Owner.

There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground property damage.

B. CONTINUING COMPLETED OPERATIONS LIABILITY INSURANCE

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each occurrence for at least one (1) year following substantial completion of the work.

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 10 93, or substitute form providing equivalent coverage, and shall, at minimum, cover liability arising from products-completed operations and liability assumed under an insured contract.

Continuing CGL insurance shall have a products-completed operations aggregate of at least two times its each occurrence limit.

Continuing commercial umbrella coverage, if any, shall include liability coverage for damage to the insured's completed work equivalent to that provided under ISO form CG 00 01.

C. BUSINESS AUTO AND UMBRELLA LIABILITY INSURANCE

Contractor shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each accident. Such insurance shall cover liability arising out of any auto including owned, hired and non-owned autos.

Business auto insurance shall be written on Insurance Services Office (ISO) form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later editions of CA 00 01.

D. WORKERS COMPENSATION INSURANCE

Contractor shall maintain workers compensation as required by statute and employers liability insurance. The commercial umbrella and/or employers liability limits shall not be less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

If Owner has not been included as an insured under the CGL using ISO additional insured endorsement CG 20 10 under the Commercial General and Umbrella Liability Insurance required in this Contract, the Contractor waives all rights against Owner and its officers, officials, employees, volunteers and agents for recovery of damages arising out of or incident to the Contractor's work.

E. GENERAL INSURANCE PROVISIONS

- 1. Evidence of Insurance.** Prior to beginning work, Contractor shall furnish Owner with a certificate(s) of insurance and applicable policy endorsement(s), executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

All certificates shall provide for 30 days written notice to Owner prior to the cancellation or material change of any insurance referred to therein. Written notice to Owner shall be by certified mail, return receipt requested.

Failure of Owner to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Owner shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor from entering the project site until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by Owner.

Failure to maintain the required insurance may result in termination of this Contract at Owner's option.

With respect to insurance maintained after final payment in compliance with a requirement above, an additional certificate(s) evidencing such coverage shall be promptly provided to Owner whenever requested.

Contractor shall provide certified copies of all insurance policies required above within 10 days of Owner's written request for said copies.

- 2. Acceptability of Insurers.** For insurance companies which obtain a rating from A.M. Best, that rating should be no less than A VII using the most recent edition of the A.M. Best's Key Rating Guide. If the Best's rating is less than A VII or a Best's rating is not obtained, the Owner has the right to reject insurance written by an insurer it deems unacceptable.
- 3. Cross-Liability Coverage.** If Contractor's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.
- 4. Deductibles and Self-Insured Retentions.** Any deductibles or self-insured retentions must be declared to the Owner. At the option of the Owner, the Contractor may be asked to eliminate such deductibles or self insured retentions as respects the Owner, its officers, officials, employees, volunteers and agents or required to procure a bond guaranteeing payment of losses and other related costs including but not limited to investigations, claim administration and defense expenses.
- 5. Subcontractors.** Contractor shall cause each subcontractor employed by Contractor to purchase and maintain insurance of the type specified above. When requested by the Owner, Contractor shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

F. INDEMNIFICATION

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner and the Architect and their officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited legal fees (attorney's and paralegal's fees and court costs), arising

out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property, other than the work itself, including the loss of use resulting therefrom and (2) is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except to the extent it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph. Contractor shall similarly protect, indemnify and hold and save harmless the Owner, its officers, officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses including but not limited to legal fees, incurred by reason of Contractor's breach of any of its obligations under, or Contractor's default of, any provision of the Contract.

SAMPLE LIABILITY INSURANCE ENDORSEMENT

The following spaces preceded by an asterisk (*) need not be completed if this endorsement and policy have the same inception date.

ATTACHED TO AND FORMING PART OF POLICY NUMBER	*EFFECTIVE DATE OF ENDORSEMENT	*ISSUED TO
--	-----------------------------------	------------

This endorsement changes the policy. Please read it carefully.

AUTOMATIC ADDITIONAL INSURED

The following provision is added to (SECTION II), Who Is An Insured.

5. Any entity you are required in a written contract (hereinafter called Additional Insured) to name as an insured is an insured but only with respect to liability arising out of your premises, "your work" for the Additional Insured, or acts or omissions of the Additional Insured in connection with the general supervision of "your work" to the extent set forth below.
 - a. The Limits of Insurance provided on behalf of the Additional Insured are not greater than those required by such contract.
 - b. The coverage provided to the Additional Insured(s) is not greater than that customarily provided by the policy forms specified in and required by the contract.
 - c. All insuring agreements, exclusions and conditions of this policy apply.
 - d. In no event shall the coverages or Limits of Insurance in this Coverage Form be increased by such contract.

Except when required otherwise by contract, this insurance does not apply to:

- 1) "Bodily injury" or "property damage" occurring after
 - a) All work on the project (other than service, maintenance or repairs) to be performed by or on behalf of the Additional Insured(s) at the site of the covered operations has been completed; or
 - b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
- 2) "Bodily injury" or "property damage" arising out of any act or omission of the Additional Insured(s) or any of their employees, other than the general supervision of work performed for the Additional Insured(s) by you.
- 3) "Property damage" to
 - a) Property owned, used or occupied by or rented to the Additional Insured(s);
 - b) Property in the care, custody or control of the Additional Insured(s) or over which the Additional Insured(s) is for any purpose exercising physical control; or

- c) “Your work” for the Additional Insured(s).

With respect to Additional Insureds who are architects, engineers or surveyors, this insurance does not apply “bodily injury”, “property damage”, “personal injury” or “advertising injury” arising out of the rendering of or the failure to render any professional services by or for you, including:

- a) The preparing, approving, or failing to prepare or approve maps, drawings, opinions, reports, surveys, change orders, designs or specifications; and
- b) Supervisory, inspection or engineering services.

Any coverages provided hereunder shall be excess over any other valid and collectible insurance available to the Additional Insured(s) whether primary, excess, contingent or on any other basis unless a contract specifically requires that this insurance be primary or you request that it apply on a primary basis.

No person or organization is an Additional Insured with respect to the conduct of any current or past partnership or joint venture that is not shown as a Named Insured in the Declarations.

END OF ATTACHMENT A.6

SECTION 02 41 19.51 – MINOR DEMOLITION FOR REMODELING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDES

- A. Base Bid: General Contractor:
 - 1. Remove and retain (salvage for reuse) or dispose of designated portions of existing construction, including but not limited to, wood ceiling, wall and floor finishes; portions of stud wall and floor joists, portions of masonry walls, carpeting, doors, frames, accessories, lighting fixtures, devices, conduit and wiring, and other items as indicated on Drawings and described herein.
 - 2. Provide adequate sized "dumpster(s)" for temporary placement of items to be demolished and disposed of for all Trades.
 - 3. Store all retained materials retained for the owner (salvaged for reuse) in the adjacent barn. Store in a manner to keep materials dry, free of damage, debris, and accessible for subsequent reuse.

1.3 RELATED WORK

- A. Specified elsewhere:
 - 2. Respective Specification Sections.

1.4 EXISTING CONDITIONS

- A. Conduct demolition to minimize interference with adjacent on-site activities and building areas. Maintain protected egress and access at all times.

PART 2 - PRODUCTS (Not applicable)

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect existing materials and surfaces not designated to be removed.
- B. Protect existing items not indicated to be demolished.
- C. Disconnect, remove, and cap designated utility services within demolition areas shown on Drawings, or as may be required.
- D. Mark location of disconnected utilities. Identify and indicate capping locations on Project Record Documents.

3.2 EXECUTION

SECTION 02 41 19.51 – MINOR DEMOLITION FOR REMODELING

- A. Demolish in an orderly and careful manner. Protect existing adjacent construction not designated for removal.
- B. Immediately remove demolished materials from site.
- C. Remove materials to be retained and reinstalled in manner to prevent damage. Clean, denail as necessary, store and protect.
- E. Remove items designated to be kept by Owner and deliver or store as directed.
- F. Remove and promptly dispose of contaminated, vermin infested, or dangerous materials encountered.
- G. Do not burn or bury materials on site.
- H. Remove demolished materials from site as work progresses. Upon completion of work, leave areas in clean condition.
- I. Touch-up all surfaces marred, blemished or left exposed unfinished as a result of the remodeling work; remedial finishes shall match adjacent existing finishes.
- J. Where construction or existing items are removed, patch and touch-up adjacent surfaces (including floor, base, walls and ceiling), affected by demolition, with respective matching finishes.
- K. Where holes, gaps, cracks or unfinished surfaces occur as a result of required removals, they shall be patched and refinished (when remaining exposed), to match adjacent existing or new designated finishes, to the satisfaction and approval of the Owner's Representative.

END OF SECTION

SECTION 03 30 53 – MISCELLANEOUS CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, drainage fill (compacted granular base), placement procedures and finishes, for the following:

- 1. Slabs-on-grade

- B. Related Sections:

- 1. 23 83 16 – Hydronic Heating System

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Project personnel qualified as ACI-Certified Flatwork Technicians
- B. Manufacturer Qualifications: Ready-Mix facility that complies with ASTM C 94/C 94M for production facility and equipment and/or is an IDOT certified concrete plant.

- C. Regulatory Requirements:

- 1. Building Code: The International Building Code 2012 governs the work.

- D. Source Quality Control: Employ an approved independent testing laboratory, for testing of jobsite sampled concrete mix, as directed by Architect.

- E. References:

- 1. American Concrete Institute (ACI):

- a. ACI 301 – “Specifications for Structural Concrete,” Sections 1 through 5.
 - b. ACI 117 – “Specifications for Tolerances for Concrete Construction and Materials.”
 - c. ACI 318 - Building Code Requirements for reinforced concrete.

- 2. Concrete Reinforcing Standard Practice.

- a. CRSI Manual of Standard Practice.

- b. CRSI Recommended Practice for Placing Reinforcing.

1.4 SUBMITTALS

- A. Design Data: Submit concrete mix design data for Architect’s Approval.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Metallic Reinforcement:
 - 1. Welded steel wire fabric: ANSI/ASTM A185 plain type in flat sheets uncoated finish. See Drawings for sizes.
- B. Cement: ASTM C150, Portland cement: gray Type I normal.
- C. Fine and Coarse Aggregates: ASTM C33.
 - Fine Aggregate: natural, hard, clean sand.
 - Course Aggregate: crushed stone or gravel.
- D. Water: Clean, fresh, potable. Free from oils or other substances injurious to concrete or reinforcement.
- E. Admixtures:
 - 1. Air Entrainment: ASTM C260.
 - 2. Water reducing admixtures shall conform to ASTM C494, Type A.
 - 3. Calcium Chloride: NOT PERMITTED.
- F. Expansion and Contraction (Control) Joints:
 - 1. Provide expansion and control joints as indicated on Drawings.
 - 2. Joint Filler: ANSI ASTM D994, bituminous impregnated glass fiber
 - 3. Sealants: Provide SCAQMD Rule 1113 VOC Compliant Joint Sealant only
- G. Accessories:
 - 1. Vapor Retarder: ASTM E 1745-11 Class A.
 - a. Plastic (polyethylene) water vapor retarder for use in contact with soil.
 - b. Tape: Per manufacturers specifications.
- H. Curing Materials:
 - 1. Absorptive Mat: Burlap polyethylene, 8 oz./sq. yd., bonded to prevent separation during use.
 - 2. Membrane Curing Compound: Confirm compatibility and suitability for interior or exterior use and for applied finishes.
 - 3. ASTM C309, Type 1 for horizontal concrete surfaces. NOTE: "medium" duty.
 - 4. Products shall be approved by Architect.

2.2 CONCRETE MIX

- A. Comply with ASTM C94. In conflict between referenced Standard and project specifications, notify Architect immediately, confirm notification in writing. Do not proceed with concrete work until Architect provides written direction.
- B. Concrete shall be "Class X" per IDOT Standard Specifications:

SECTION 03 30 53 – MISCELLANEOUS CAST-IN-PLACE CONCRETE

Slab-on-grade

1. Comprehensive Strength, psi,
 - 7 days: 2800
 - 28 days: 4000
 2. Coarse Aggregate: 1" max.
 3. Fine Aggregate:
 4. Aggregate Size,
 - Maximum: 3/8"
 - Minimum: #100
 5. Maximum Slump: 4"
- C. If at any time during construction concrete strength falls below specified strength, or proves unsatisfactory for any reason, immediately notify Architect. Confirm notification in writing.
1. Have Testing Laboratory verify deficiency with additional testing.
 2. Modify design mix, subject to Architect's written approval, until satisfactory concrete is obtained.
- D. Used air entrainment admixture for all concrete that will be exposed to freeze/ thaw cycling.
- E. Do not use other admixtures without Architect's prior written authorization.

PART 3 - EXECUTION

3.1 INSPECTION.

- A. Inspect all prior construction and conditions under which work will be performed.
- B. Report in writing to Architect all conditions that would adversely affect proper execution of the work. Do not proceed with the work until all unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Provide well-graded and compacted granular base (CA-6), having a minimum uniform thickness of 4".

3.3 REINFORCEMENT

- A. Installation:
 1. Accurately place and secure in position in accord with ACI 315 or CRSI Manual of Practice.
 2. Install reinforcing fabric in longest practicable length.
 - a. Lap adjoining pieces a minimum of one full mesh and tie splices with tire wire spaced 18 in. o.c.
 - b. Offset laps in adjacent widths to prevent continuous laps.

3.4 ADMIXTURES AND ACCESSORIES

SECTION 03 30 53 – MISCELLANEOUS CAST-IN-PLACE CONCRETE

A. Vapor Retarder:

1. Verify that fill materials are dry and clean, ready to receive the work. Remove all loose or foreign matter and all protuberances that would puncture or otherwise damage the membrane.
2. Use largest sheet size practicable; minimize seams, laps. Lap a minimum of 6 in. and seal with manufacturers recommended tape.

B. Joints:

1. As shown on Drawings, provide expansion joints where concrete slabs abut column bases / piers.
 - a. Install expansion joints at right angles to concrete surface; extend through full depth or thickness of concrete.
 - b. Cut-back exposed expansion joint material a minimum of 3/8 in. from surface of concrete; fill with sealant flush to surface; tool smooth.
2. As indicated on Drawings, provide hand-tooled control joints in display and vestibule areas.
 - a. Install control joints at right angles to concrete surface; extend 1" deep or ¼ of the full depth or thickness of concrete, whichever is greater.
 - b. Fill joint with sealant flush to surface; tool smooth.
3. Apply SCAQMD Rule 1113 VOC Compliant Joint Sealant to expansion and control joints.

3.5 CONCRETE PLACEMENT

A. Preparation:

1. Notify Architect and Owner's Representative at least 24 hours prior to scheduled placements of all concrete. Confirm notification in writing.
2. Ensure that any forms are clean, dry and free of all material harmful to concrete and properly coated with form vegetable oil release agent.
3. Ensure that all reinforcement, sleeves, pipes, and other embedded items are in place and properly anchored, and are clean and free of all material harmful to concrete.
4. Verify proper placement of vapor retarder and perimeter insulation.

B. Placement:

1. Place all concrete, including hot and cold weather placement, in accord with ACI 301.
2. Ensure that in-place items, reinforcement, embedded items, vapor retarder and insulation are not dislodged or displaced during placement.
3. Convey all concrete from mixer to place of deposit as rapidly as possible by means that will prevent segregation or loss of materials.
4. Deposit concrete as nearly as practicable in its final position to avoid segregation due to rehandling or flowing.
5. Once started, place concrete continuously for entire concrete slab until entire section is completed; keep top surfaces level. Do not break or interrupt

SECTION 03 30 53 – MISCELLANEOUS CAST-IN-PLACE CONCRETE

successive pours so that cold joints occur. Provide Class A tolerances in accord with ACI 301.

C. Weather Conditions:

1. Concrete temperature when deposited: Minimum 50° F; Maximum 85° F.
2. In freezing weather, provide suitable means for maintaining concrete temperature at a minimum of 70° F for three days, or 50°F for five days after placing.
3. Cooling of concrete to outside temperature: Not faster than 1° per hour for first day and 2° per hour thereafter until outside temperature is reached.
4. Maximum temperature of concrete produced with heated aggregated, heated water, or both, at any time during its production or transportation: 90° F.
5. Do not mix salt, chemicals or other foreign materials in concrete to prevent freezing or to accelerate hardening of concrete.

3.6 DEFECTIVE CONCRETE:

- A. Modify or replace concrete not conforming to indicated lines and levels, details and elevations.
- B. Repair or replace concrete not properly placed or finished, or not of specified type.

3.7 FINISHES

- A. Slabs: Provide level slabs as indicated on Drawings. Pitch slab surface to drains as indicated.
 1. Finishes: Hand trowelled finish indicated.
 2. Provide a vapor barrier covered, damp curing process immediately upon completion of trowelling.
 3. Seal finished and cured surfaces with an approved clear sealer product containing slip-resistant "fine grit" additive as recommended by sealer manufacturer.

3.9 ADJUST & CLEAN

- A. Upon completion, thoroughly inspect all work. Correct all defects. Remove defective work when patching is not authorized by Architect. Protect completed concrete work.
- B. Clean up and remove all surplus materials, packing, rubbish and debris resulting from the work and legally dispose of off site.

END OF SECTION

SECTION 05 51 20 – MODULAR ALUMINUM RAMPS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including Division 01 Specification Sections, apply to this Section.

1.2 DESCRIPTION OF PRODUCT

A. Prefabricated, modular aluminum ramp system consisting of ramp sections, platforms, handrails, legs and supports that are selected to provide adequate ramping height to suit the ADA Codes.

1.3 QUALITY ASSURANCE

A. Manufacturer shall have a documented history of compliance with ANSI and/or ADA codes for ramping and rails.

B. The ramp shall comply with the requirements of the current edition of the Illinois Accessibility Code.

1.4 REFERENCE STANDARDS

A. Americans with Disabilities Act Handbook Published by the Equal Employment Opportunity Commission and the U.S. Department of Justice.
Publication EEOC-BK-19

B. American National Standard for Accessible and Usable Buildings and Facilities
Published by American National Standards Institute Publication A117.1-1998

1.5 SUBMITTALS

A. Shop drawings by contractor or manufacturer's literature for approval. Drawings shall indicate layout, unit locations, unit identification, connection details, support items, appropriate attachments to adjacent substrate(s) and dimensions.

1.6 DELIVERY AND HANDLING

A. The contractor shall inspect the units and components upon delivery to assure that the proper materials have been received and that the units are not damaged or defective. Damaged or defective materials shall be removed from the site.

1.7 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on plans.

1.8 WARRANTY

A. The manufacturer shall have in writing a warranty against any defect in materials and workmanship for a minimum of 5 years.

PART 2 - PRODUCTS

SECTION 05 51 20 – MODULAR ALUMINUM RAMPS

2.1 MANUFACTURERS

- A. Accepted Manufacturers:
 - a. Handi-Ramp, Inc. www.handiramp.com
 - b. AlumiRamp, Inc.; www.alumiramp.com
 - c. Or approved equal
- B. Requests for substitutions will be considered in accordance with provisions of 016000.

2.2 RAMP SECTIONS

- A. Engineering.
 - 1. Ramp sections shall be designed for a minimum uniform live load of 100 lbs. per square foot and a concentrated vertical load of 300 lbs. per square foot.
- B. Materials
 - 1. Ramp sections shall be welded all aluminum construction, alloy 6061-T6, 6005-T5 or 5032-H32, with an anodized finish.
 - 2. All fasteners shall be stainless steel (18-8 Series).
- C. Design and Fabrication.
 - 1. Modular ramp units are to be built to shape, size and finish as indicated on approved drawings.
 - 2. Ramp / Tread surface is to be continuous, without gaps, and shall have a bi-directional, skid resistant surface that meets federal regulation RR-G-1602.
 - 3. All ramp sections shall have a 2" minimum curb height.
 - 4. All ramp sections shall be designed for variable heights and slopes.

2.3 PLATFORMS

- A. Engineering
 - 1. Platforms shall be designed for a minimum uniform live load of 100 lbs. per square foot and a concentrated vertical load of 300 lbs. per square foot.
- B. Materials
 - 1. Platforms shall be welded all aluminum construction, alloy 6061-T6, 6005-T5 or 5032-H32, with an anodized finish.
 - 2. All fasteners shall be stainless steel (18-8 Series).
- C. Design and Fabrication.
 - 1. Platforms are to be built to shape, size and finish as indicated on approved drawings.
 - 2. Platform surface is to be continuous, without gaps, and shall have a bi-

SECTION 05 51 20 – MODULAR ALUMINUM RAMPS

directional, skid resistant surface that meets federal regulation RR-G-1602.

3. Platforms shall be designed for variable height adjustment.

2.4 SUPPORT LEG ASSEMBLIES

A. Engineering

1. All support assemblies shall be designed to support the ramp and platform sections.

B. Materials

1. Support assemblies shall be all aluminum or galvanized steel construction.
2. All fasteners shall be stainless steel (18-8 Series).

C. Design

1. The legs of the support assemblies shall be adjustable for variable height and slope. The legs should be designed to swivel as to always be perpendicular to the ground and the load should remain vertical regardless of the slope.
2. All aluminum brackets shall be supplied for attachment of the ramps and/or platforms to the proper support assembly.
3. All legs shall have all aluminum or galvanized steel feet. Feet shall bear on concrete slab and shall be of minimal dimension to avoid protruding into adjacent walking areas.
4. Feet shall be pre-drilled for optional attachment to concrete slab.

2.5 HANDRAILS

A. Engineering

1. Standard two line (double bar) horizontal rails designed to meet ADA and Illinois Accessibility Code.

B. Materials

1. Handrails shall be all aluminum construction alloy 6061-T6, 6005-T5 or 5032-H32, with an anodized finish or galvanized steel.
2. Fasteners shall be stainless steel (18-8 Series).

C. Design and Fabrication

1. Handrails shall be provided along both sides of ramp segments and all closed sides of adjoined platform.
2. Gripping surfaces shall be continuous, smooth, and without interruption by newel posts, other construction elements, or obstructions.
3. The diameter of width of the gripping surface of a handrail shall be 1-1/2".
4. The top of the handrail gripping surface shall be mounted between 34" and 38" above the walking surface and the bottom of the intermediate rail shall be mounted at a height less than 27" above the walking surface.
5. Handrails shall not rotate within their fittings.

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6. Handrails shall have code-required extensions (with return) at bottom end of ramp as indicated on plans.
7. Ends of handrails shall be rounded or shall be returned smoothly to floor, wall or post.
8. All handrail tubes shall be deburred and all sharp edges removed from all gripping surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify site conditions are ready to receive work of this section.

3.2 ERECTION

- A. Install prefabricated aluminum ramp system according to manufacturers instructions and the approved shop drawings without damage to shape or finish. Repair or replace any damaged units.
- B. Align and maintain uniform ramp slope during installation. Platforms shall be level and not obstruct adjacent door swings.
- C. Attach ramp system to concrete slab and/or adjacent wall per manufacturers instructions and the approved shop drawings without damage to the hydronic tubing within the concrete slab or wall finishes. Any concrete anchor systems used must penetrate concrete slab less than 1½ inches to avoid damage to hydronic tubing.

3.3 MAINTENANCE

- A. Ramp system must be maintained in accordance with Manufacturers instructions.

END OF SECTION

SECTION 07 21 19 – FOAMED-IN-PLACE INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Foamed-in-place insulation in wood-framed walls, roofs, floors and on masonry walls behind wood-framed walls.
 - 2. Foamed-in-place insulation at junctions of dissimilar wall and roof materials to achieve a continuous thermal and air seal.

1.3 REFERENCES

- A. American Association of Textile Chemists and Colorists (AATCC) 127 - Water Resistance: Hydrostatic Pressure Test.
- B. ASTM International (ASTM):
 - 1. C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - 2. D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
 - 3. D1622 - Standard Test Method for Apparent Density of Rigid Cellular Plastics.
 - 4. D1623 - Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.
 - 5. D6226 - Standard Test Method for Open Cell Content of Rigid Cellular Plastics.
 - 6. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 7. E96 - Standard Test Methods for Water Vapor Transmission of Materials.
 - 8. E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Product Data: Provide product description, insulation properties, and preparation requirements.
- B. Quality Control Submittals:
 - 2. Manufacturer's certification that installer is qualified to install products being applied.

1.5 QUALITY ASSURANCE

SECTION 07 21 19 – FOAMED-IN-PLACE INSULATION

- A. Applicator Qualifications:
 - 1. Qualified spray polyurethane foam applicator familiar with products being applied.
 - 2. Minimum 2 years documented experience in work of this Section.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store materials at temperatures between 35 and 85 degrees F, except store above 70 degrees for several days before use.
- B. Do not store in direct sunlight.
- C. Keep containers tightly closed and under dry gas pressure of 2 to 3 PSI after opening.

1.7 PROJECT CONDITIONS

- A. Do not install insulation when ambient temperature is below 50 degrees F without approval by product manufacturer.

1.8 SEQUENCING

- A. Install insulation after rough plumbing and electrical are completed and inspected and other wall penetrations completed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS: Subject to compliance with requirements, provide products by one of the following:

- A. Basis of Design Manufacturer: NCFI Polyurethanes, 800-346-8229, www.ncfi.com.
- B. Acceptable Alternate Manufacturers:
 - 1. ICYNENE
 - 2. CertainTeed
 - 3. BASF
 - 4. Or approved equal

2.2 MATERIALS

- A. Foamed-In-Place Insulation:
 - 1. Type: Two component polyurethane closed cell spray foam system
 - 2. Nominal core density: 1.9 to 2.2 PCF, tested to ASTM D1622.
 - 3. Moisture vapor transmission: Maximum 1.0 perms at 1.5 inch thickness, tested to ASTM E96.
 - 4. Compressive strength: Minimum 20 PSI, tested to ASTM D1621.
 - 5. Air leakage: 0 at 1.57 PSF, tested to ASTM E283.
 - 6. Tensile strength: Minimum 15 PSI, tested to ASTM D1623.
 - 7. Hydrostatic pressure resistance: No failure at 45 foot head pressure, tested to AATCC 127.
 - 8. Fire hazard classification: Maximum flame spread/smoke developed rating of 25/450, tested to ASTM E84.

SECTION 07 21 19 – FOAMED-IN-PLACE INSULATION

9. R-value: Minimum R-values of 6.4 for 1 inch thickness, tested to ASTM C518 at 75 degrees F.

2.3 ACCESSORIES

- A. Joint Filler Foam: CF 124 Filler Foam by Hilti or equivalent.
- B. Joint Sealer: Single component polyurethane type; Sikaflex 1a by Sika Corp. or equivalent.
- C. Moisture Detection Paper Strips: MDP Strips.
- D. Seam Tape: Butyl Seam Tape.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean surfaces to receive insulation; remove dirt, sawdust, dust, and debris by blowing with compressed air and/or vacuuming.
- B. Verify dryness of spaces to receive insulation using moisture detection paper strips.
- C. Protect adjacent and underlying surfaces from accidental application using plastic sheeting and masking tape.
- D. Apply vegetable oil release agent to face of framing to facilitate removal of foam.
- E. Apply filler foam or joint sealer around door and window frames, openings, and perimeter to contain insulation.
- F. Cover gaps greater than 2 inches with seam tape or gypsum backer board, then spray insulation over opening.

3.2 APPLICATION

- A. Apply insulation in accordance with manufacturer's instructions.
- B. Apply insulation to uniform monolithic density, without voids.
- C. Apply insulation to average thickness required to achieve minimum R-values indicated on Drawings.
- D. Trim excess thickness unless it does not interfere with installation of covering materials.

3.3 CLEANING

- A. Remove insulation applied to adjacent and underlying surfaces.

3.4 ADJUSTING

SECTION 07 21 19 – FOAMED-IN-PLACE INSULATION

- A. Patch damaged areas that violate air or moisture seal using joint filler foam or joint sealer; recreate seamless foam membrane to full thickness.

END OF SECTION

SECTION 08 10 01 – HOLLOW METAL DOORS, FRAMES & FINISH HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDES

- A. New hollow metal doors, frames and finish hardware of types, function, material and sizes shown on Drawings and as specified herein.
- B. Related Sections:
 - 1. 09 90 00 – Painting and Coating

1.3 REFERENCES

A. SDI standards

- 1. SDI-106-1999 Recommended Standard Door Type Nomenclature
- 2. SDI-108-1999 Recommended Selection and Usage Guide for Standard Steel Doors
- 3. SDI-11-2000 Recommended Details and Guidelines for Standard Steel Doors, Frames, and Accessories
- 4. SDI-112-1997 Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors and Frames
- 5. SDI-117-2000 Manufacturing Tolerances for Standard Steel Doors and Frames
- 6. SDI-118-2002 Basic Fire Door Requirements
- 7. SDI-124-1998 Maintenance of Standard Steel Doors and Frames

B. ANSI standards

- 1. ANSI/UL 10B-1997 Fire Tests of Door Assemblies
- 2. ANSI/UL 10C-1998 Positive Pressure Fire Tests of Door Assemblies
- 3. ANSI/UL 1784-2001 Air Leakage Test of Door Assemblies
- 4. ANSI/NFPA 80-1999 Fire Doors and Fire Windows
- 5. ANSI/NFPA 252-1999 Fire Tests of Door Assemblies
- 6. ANSI/SDI A250.3-1999 Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors and Frames
- 7. ANSI/SDI A250.4-2001 Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frame Anchors and Hardware Reinforcing
- 8. ANSI/SDI A250.6-1997 Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames
- 9. ANSI/SDI A250.7-1997 Nomenclature for Standard Steel Doors and Steel Frames
- 10. ANSI/SDI A250.10-1998 Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
- 11. ANSI/SDI A250.11-2001 Recommended Erection Instructions for Steel Frames (Formerly SDI-105)

SECTION 08 10 01 – HOLLOW METAL DOORS, FRAMES & FINISH HARDWARE

12. A115 Hardware Preparation in Steel Doors and Steel Frames
13. A115.IG Installation Guide for Doors and Hardware
14. ANSI/BHMA 156.21 Thresholds
15. ANSI/BHMA 156.22 Door Gasketing and Edge Seal Systems

C. ASTM standards

1. ASTM A1008-2003 Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
2. ASTM A568-2003 Standard Specification for Steel Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for
3. ASTM A1011-2001 Standard Specification for Steel Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
4. ASTM A591-1998 Standard Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Weight [Mass] Applications
5. ASTM A653-2002 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
6. ASTM A924-1999 Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with the references listed in 1.2 and the following requirements:

1. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible To and Usable by Physically Handicapped People (where applicable).
2. BHMA - Builders' Hardware Manufacturers Association.
3. DHI - Door and Hardware Institute.
4. SDI - Steel Door Institute.
5. Federal Americans with Disabilities Act-Accessibility Guidelines (ADA-AG), where applicable.

B. Fire rated assemblies shall be manufactured in accordance to Underwriters Laboratories established procedures and shall bear the appropriate labels for each application.

C. Provide steel doors and frames manufactured by a single firm specializing in production of this type of work.

D. No product shall be manufactured prior to receipt of approved hardware schedule and templates.

1.5 SUBMITTALS

A. Manufacturer's Data:

SECTION 08 10 01 – HOLLOW METAL DOORS, FRAMES & FINISH HARDWARE

1. Door Manufacturer's and hardware Manufacturer's respective product data specifications and installation instructions for each type of door and item of hardware required, including other data as may be required to show compliance with specified requirements.
 2. Include finishing specifications for doors to receive factory-applied shop finish.
 3. Include certifications as may be required to show compliance with specifications.
- B. Shop Drawings:
1. Shop drawings indicating the location and size of each door, elevation of each door, details of construction, location and extent of hardware blocking, and other pertinent data.
- C. Hardware Schedule:
1. Complete Schedule of finish hardware per each door type, including keying schedule.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Protect doors during transit, storage and handling to prevent damage, soiling and deterioration.
- B. Package hardware items individually. Label and identify package with door opening code number to match Hardware Schedule.
- C. Provide special wrenches and tools applicable to each different or special hardware component, supplied by Manufacturer.

1.7 WARRANTY

- A. Door Manufacturer: Provide written warranty against warping, racking and fabrication separation of doors:
 1. Minimum term of Five (5) Years for steel doors.
- B. Respective Hardware Manufacturers: Provide written warranty for minimum of three (3) years against defective operation of all self-closing devices.

PART 2 - PRODUCTS

2.2 STEEL DOORS AND FRAMES

- A. Acceptable Manufacturers:
 1. Amweld Building Products, Inc., Garrettsville, OH 44231.
 2. Ceco Door Products/ASSA ABLOY; Milan, TN 38358.
 3. CURRIES Co.; Mason City, IA 50401.
 4. The Kewanee Corporation; Chicago, IL 60638.
 5. Mesker Industries, Inc.; Huntsville, AL 35811.
 6. Pioneer Industries, Inc.; Hackensack, NJ 07601.

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7. Republic Builders Products Company; McKenzie, TN 38201.
8. Steelcraft, (IR); Cincinnati, OH 45242.
9. Or approved equal.

B. Materials:

1. Cold rolled steel shall conform to ASTM designations A1008, "Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability" and A568, "Standard Specification for Steel Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for."□
2. Hot rolled, pickled and oiled steel shall comply with ASTM designations A1011, "Standard Specification for Steel Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability" and A568, "Standard Specification for Steel Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for."□
3. Hot dipped zinc coated steel shall be of the alloyed type and comply with ASTM designations A924, "Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process" and A653, "Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process."
4. Supports and Anchors: Provide units galvanized after fabrication, where built into exterior walls, complying ASTM A 153, Class B.
5. Inserts, Bolts and Fasteners: Provide Manufacturer's standard units, except hot-dip galvanize all items to be built into basement wall per ASTM A153 and that comply with B label rating requirements.
6. Shop-Applied Paint: Provide Manufacturer's standard shop-applied prime paint to all metal surfaces, over bonderized base.
7. Sheet steel used for basement door and frame section and steel supports used for all doors and frames shall be galvanized A525 or G60.

C. Fabrication:

1. Fabricated steel units to be rigid, neat in appearance and free from defects, accurately formed to required sizes and profiles.
 - a. Where practicable, fit and assemble units in Manufacturer's plant.
 - b. Clearly identify work that cannot be permanently factory assembled before shipment, to assure proper assembly at project site.

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- c. Dress all welded joints on exposed surfaces flush and smooth to be invisible when prime painted.
 - d. Use of metallic filler to conceal manufacturing defects is not acceptable.
 - e. Provide U.L. labeled fire-rated doors and frames as indicated on Drawings.
2. Steel Gauges:
- a. Doors (Standard):
 - 1) Level 2 – Heavy Duty 1-3/4"; Model 1 – Full Flush
 - 2) Reinforcement for closers and operating hardware: 14 gauge.
 - b. Frames (Standard): 18 gauge.
 - c. Door (C Label / ¾ Hour Fire Rated):
 - 1) Level 2 – Heavy Duty 1-3/4"; Model 1 – Full Flush
 - 2) Gauge, core and reinforcement as required.
 - d. Frame (C Label / ¾ Hour Fire Rated):
 - 1) Gauge, core, fasteners, hardware and reinforcement as required.
3. Finish Hardware Preparation:
- a. Prepare steel door units at Manufacturer's plant to receive mortised and concealed finish hardware, including cutouts, reinforcing, drilling and tapping, for hinges, closers, latches, strikes, etc.
 - b. Comply with applicable requirements of ANSI A115, Specifications for Door and Frame Preparation.
 - c. Prepare for other mortised and concealed finish hardware to templates of Manufacturer of each finish hardware item required to work.
 - d. Reinforce all doors for closers.
 - e. Reinforce steel units at Manufacturer's plant to receive surface applied hardware.
 - 1) Verify actual positions on doors for reinforcing steel plates for closers, hinges, brackets, and new panic exit devices, etc. Drill and tap for surface applied finish hardware at project site during installation.
 - f. Drill stops to receive, and provide three (3) rubber silencer buttons on frame strike jamb.
4. Shop Painting:

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- a. Clean, treat and paint all surfaces of fabricated hollow and metal units, including galvanized surfaces, whether concealed or exposed in finished work.
- b. Remove mill scale, rust, oil, grease, dirt and other foreign materials and bonderize before application of shop coat of paint.
- c. Apply shop coat of baked-on prime paint of even consistency to provide uniform finished surface ready to receive field-applied paint.

5. Doors and Frames:

- a. Provide doors of types and styles indicated on Drawings or schedules and complying with SDI 100 for minimum materials and construction requirements.
- b. Provide steel doors and frames as indicated and scheduled on Drawings.
 - 1) Conceal all fastenings unless otherwise shown, countersink exposed screws using Phillips flat-head screws.
 - 2) Fully-welded construction, mitered corners.
- c. Frame Anchoring:
 - 1) Base anchors: Manufacturer's standard, one (1) per vertical frame leg at floor.
 - 2) Jamb anchors: Manufacturer's standard metal rods or strap:
 - a) Minimum of 3 per jamb for all frames under 7' – 6" high.

2.3 FINISH HARDWARE

A. Item and Acceptable Manufacturers:

1. Hinges: Hager, Ives, McKinney, or Stanley.
2. Locksets & Cylinder Locks: Sargent (Assa Abloy).
3. Closers & Door Holders: LCN, Norton, or Sargent.
4. Kick Plates: Hager, Brookline, Hiawatha, Inc., Ives or Stanley.
5. Bumper Stops: Glynn-Johnson, Ives, Stanley or Trimco.
6. Miscellaneous Items: as respectively listed.

B. Hardware shall be fully equivalent in design, function and quality to devices specifically named by any one of the Manufacturer's and Types listed below:

1. Hinges:
 - a. All hinges (butts) shall be 5-knuckle type, flat button tips with non-corrosive, non-rising pins, (NRP type).
 - b. Butt size to be 4-1/2" x 4-1/2" with 1-1/2 pair per door (minimum), unless noted otherwise in Schedule.

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- c. Butts shall be .180 gauge stainless steel: Hager BB1199, Ives, McKinney T4A-T4B3386, or Stanley FBB199.
- 2. Closers:
 - a. Heavy duty/commercial grade with hold-open capability.
 - 1) Hold-open feature not permitted on fire-rated doors.
 - b. Large doors need additional travel stops.
 - c. Exterior door closers to be equipped with heavy duty limiting holder.
 - d. Self-closing devices shall be of the proper size and capacity for the door as recommended by the Manufacturer.
 - e. Provide all brackets, drop plates, and any accessory required to insure proper, stable installation.
 - f. In listing the closers in the hardware schedule, the supplier shall show type, size, finish, accessories, and degree of opening for each item.
 - g. Closers shall be adjustable non-sized, non-handed with individual regulating valves which provide sweep and latching speed control, back check positioning and strength of back check (ADA compliant).
 - h. Acceptable Models:

Norton UNI B 8500
LCN 4041 CUSH-N-STOP
Sargent 350 PS
- 3. Cylindrical Locksets:
 - a. Locksets for doors to be medium commercial duty cylindrical type with lever handles, 2-3/8" backset and concealed fastener mounting.
 - b. Hardware to meet ANSI A156.2, 1996 Series 4000 Grade 2.
 - c. Keyway to consist of solid brass 6 pin cylinder with interchangeable core.
 - d. Assembly shall be complete with all operating components, wrought brass trim, 1/2" throw latches with plate, curved lip strike plate, etc.
 - e. Lockset unit shall be Sargent 6500 Line, with "B" Lever handle and rose or approved equal.
- 4. Kick Plates:
 - a. 16-gauge stainless steel, beveled edges countersunk screws. Width to be 2" less than door width.
 - b. Plate height: Kick Plate 10".
- 5. Wall Stops: cast aluminum wall bumpers with concave rubber:
 - a. Glynn-Johnson #60C.
 - b. Ives - #4012.

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c. Trimco - #1270.

C. Fasteners:

1. Furnish all finish hardware with all necessary screws, bolts and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.
2. Furnish fastenings where necessary with expansion shields, toggle bolts, hexbolts, and other anchors approved by the Architect, and appropriate for the material to which the hardware is to be applied.
3. All fastenings shall be of compatible material and match the finish of hardware.
4. Where exterior exposed fasteners are necessary (such as finish hardware items, glazing stops, etc.), they shall be stainless steel.

D. Keying:

1. The Contractor is responsible for the purchase of all keys and key cores required for all keyed locks.
2. A detailed key schedule and identified location list shall be provided for review and approval by the Owner.
3. The Contractor shall furnish three (3) keys per lock, matching Owner's master keying system with Sargent locks.

E. All other materials not specifically described but required for a complete and proper finish hardware installation shall be as selected by the Contractor, subject to the approval of the Architect.

F. Finishes: All finish hardware (locksets including levers and roses, kick plates, etc.) to have matching finish.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Make adjustments to new openings as required to ensure successful installation of new frames and hanging of new doors.

3.2 INSTALLATION

A. Manufacturer's Instructions: Install doors in accordance with approved shop drawings, Manufacturer's instructions and as shown. Adjust and shim metal frames as may be required for successful installation of new doors.

1. Fit doors accurately in their respective frames with clearances as recommended; match mounting heights for butts and strap hinges.
2. Hang doors so that they swing free without resistance.
3. Level doors so that they will remain in any open position without moving.
4. Install remaining hardware after final door finish.
5. Adjust hardware per Manufacturer's requirements after installation of weather-stripping and door silencers.

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6. Clearances:

- a. 1/8" at jambs and heads.
- b. 1/8" at meeting stiles for pairs of doors.
- c. 3/4" from bottom of door to top of floor finish.
- d. At threshold (basement / door #6) - 1/4" clearance from bottom of door to top of threshold.

B. Finish Hardware:

1. Install hardware in accordance with Manufacturer's instructions and requirements of SDI, ANSI/NFPA 80, BHMA, and DHI.
2. Use the templates provided by hardware item Manufacturer.
3. Do not force hardware components into exceedingly tight mortised section of doors; hand sand/file inner mortised sides until hardware fit is snug, but not imposing stress on door construction.
4. Mount hardware items in conformance with applicable ADA standards.
5. Mount stops with concealed fastening, to meet leading edge of door handle, or door bottom.
6. Fit all hardware accurately and properly; Securely fasten all fixed parts.
7. Remove all exposed parts until after painter's finishing is completed then reinstall.
8. Make sure operating parts move freely and smoothly without binding, sticking, or excessive clearance.
9. Examine all hardware for complete and proper installation.
10. Lubricate bearing surfaces of moving parts.
11. Adjust latching and holding devices to proper function.
12. Test keys for conformance to approved keying schedule.
13. Clean all exposed surfaces.

3.3 FINISHING

A. Finish doors and frames per Section 09 90 00.

1. All new hollow metal doors and frames listed to be painted.

3.4 ADJUST AND CLEAN

- A. Check and readjust all operating finish hardware installed for this Project, just prior to Substantial Completion.
- B. Clean all exposed surfaces of doors, frames and finish hardware.
- C. Leave work in complete and proper operating conditions.
- D. Replace defective hardware.
- E. Replace doors which are bowed, dented, gouged, warped, split, bent or otherwise defective.
- F. Rehang or replace doors which do not swing or operate freely, as directed by the Architect.

SECTION 08 10 01 – HOLLOW METAL DOORS, FRAMES & FINISH HARDWARE

- G. Refinish or replace doors damaged during installation, as directed by the Architect.
- H. Protection of Completed Work: Protect installed doors from damage or deterioration until acceptance of work.

3.5 SCHEDULE OF FINISH HARDWARE

A. Hardware and Accessory Sets:

- 1. Door #3 shall receive:
 - a) 1-1/2 Pr. Butts
 - b) Cylindrical Lockset (Sargent 6500 Line, Function - F81)
 - c) Closer
 - d) Kickplate
 - e) Wall Stop
- 2. Door #4 shall receive:
 - a) 1-1/2 Pr. Butts
 - b) Cylindrical Lockset (Sargent 6500 Line, Function - F81)
 - c) Closer
 - d) Kickplate
- 3. Door #5 shall receive:
 - a) 1-1/2 Pr. Butts
 - b) Cylindrical Lockset (Sargent 6500 Line, Function - F81)
 - c) Closer
- 4. Door #6 (C Label) shall receive:
 - a) 1-1/2 Pr. Butts
 - b) Cylindrical Lockset (Sargent 6500 Line, Function - F86)
 - c) Closer
 - d) Kickplate
 - e) Wall Stop
 - f) Threshold

END OF SECTION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes Kawneer Aluminum Entrance doors and door hardware and components as Scheduled and shown on Drawings and specified herein.
 - 1. Types of Kawneer Aluminum Entrances include:
 - a. One (1) Single Acting 190 Entrance Door, ADA Compliant (Door #2)
 - b. One (1) Pair of Single Acting 190 Entrance Doors, ADA Compliant (Door#1)
- B. Related Sections:
 - 1. Section 08 80 00 "Glazing"

1.3 DEFINITIONS

- A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) – AAMA Glossary (AAMA AG).

1.4 PERFORMANCE REQUIREMENTS

- A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:
 - 1 Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
 - a. Basic Wind Speed: 90 MPH
 - b. Importance Factor: I
 - c. Exposure Category: C
- B. Aluminum Framed Entrance Performance Requirements:
 - 1 Air Infiltration: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" (915 mm x 2134 mm) entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" (1830 mm x 2134 mm) entrance doors and frame shall not exceed 1.0 cfm per square foot.

1.5 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, and fabrication methods, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum-framed entrance door indicated.

- B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.
- C. Samples for Verification: For sliding aluminum-framed glass door and components required.
- D. Warranty: Special warranty specified in this Section.
- E. Other Action Submittals:
 - 1. Entrance Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
- B. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum-framed entrance doors and storefronts that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.
- C. Source Limitations: Obtain aluminum-framed glass door through one source from a single manufacturer.
- D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum-framed glass entrance doors and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements." Do not modify size and dimensional requirements.
 - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of sliding aluminum-framed glass door openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 WARRANTY

- A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
 - 1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

A. Basis-of-Design Product:

1. Kawneer Company Inc.
 2. The door stile and rail face dimensions of the 190 entrance door will be as follows:

<i>Door</i>	<i>Vertical Stile</i>	<i>Top Rail</i>	<i>Bottom Rail</i>
190	2-1/8" (54 mm)	2-1/4" (58 mm)	10" (254 mm)
 3. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
 4. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.
 5. Provide adjustable glass jacks to help center the glass in the door opening.
- ### B. Subject to compliance with requirements, provide a comparable product by the following manufacturers:
1. EFCO
 2. Tubelite
 3. YKK AP
 4. Or approved equal.

2.2 MATERIALS

A. Aluminum Extrusions: Alloy and temper recommended by sliding aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with sliding aluminum-framed glass door members, trim hardware, anchors, and other components.

C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

1. Weather Seals: Provide weather stripping with integral barrier fin or fins of semi-rigid, polypropylene sheet or polypropylene-coated material. Comply with AAMA 701/702.

2.3 GLAZING

- A. Glazing: As specified in Division 08 Section "Glazing."
- B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.
- C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.
- D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

2.4 HARDWARE

- C. General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, or other corrosion-resistant material compatible with aluminum; designed to smoothly operate, tightly close, and secure aluminum-framed entrance doors.
- D. Standard Hardware:
 - 1. Weatherstripping:
 - a. Meeting stiles on pairs of doors shall be equipped with an adjustable astragal utilizing wool pile with polymeric fin.
 - b. The door weathering on a single acting offset pivot or butt hung door and frame (single or pairs) shall be Kawneer Sealair® weathering. This is comprised of a thermoplastic elastomer weathering on a tubular shape with a semi-rigid polymeric backing.
 - 2. Sill Sweep Strips: EPDM blade gasket sweep strip in an aluminum extrusion applied to the interior exposed surface of the bottom rail with concealed fasteners (Necessary to meet specified performance tests).
 - 3. Threshold: Extruded aluminum, one piece per door opening, with ribbed surface.
 - 4. Butt Hinge: Kawneer Stainless Steel w/ Powder Coating & Non Removable Pin (NRP).
 - 5. Push/Pull: Single Acting, Kawneer Architects Classic CO-12/CP-II style (Clear Anodized Finish).
 - 6. Closer: Single Acting, Norton 1601BF w/ Hold Open Arms
 - 7. Security Lock/Dead Lock: Active Leaf - Adams-Rite MS 1850A; Inactive Leaf - Pr. Kawneer Flush Bolts.
 - 8. Cylinder: Standard Keyed (Keyed Alike)

2.5 FABRICATION

SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- E. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.
- F. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
 - 1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" (29 mm) long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
 - 2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
 - 3. Prepare components with internal reinforcement for door hardware.
 - 4. Arrange fasteners and attachments to conceal from view.
- G. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.6 FINISHES, GENERAL

- H. Comply with AAMA-AFPA "Anodic Finishes/Painted Aluminum" for recommendations for applying and designating finishes.
- I. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

- J. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- K. Factory Finishing:
 - 1. Kawneer Permanodic® AA-M10C22A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear) (Standard).

PART 3 – EXECUTION

1.9 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight sliding door installation.
 - 1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.

2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.

3. Proceed with installation only after unsatisfactory conditions have been corrected.

1.10 INSTALLATION

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum swing entrance doors, hardware, accessories, and other components.
- B. Install aluminum swing entrance doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
- C. Set sill threshold in bed of sealant, as indicated, for weather tight construction.
- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

1.11 ADJUSTING, CLEANING, AND PROTECTION

- A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

END OF SECTION

SECTION 08 80 00 - GLAZING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes glazing for the following products and applications:
 - 1. Aluminum Entry Doors (Door #1 and Door #2 as indicated on Drawings)
- B. Related Sections include the following:
 - 1. Section 08 41 13 – Aluminum-Framed Entrances and Storefronts

1.2 REFERENCES

- A. ANSI Z97.1 - American National Standard for Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- B. ASCE 7 - "Minimum Design Loads for Buildings and Other Structures".
- C. ASTM International (ASTM):
 - 1. ASTM C 162 - Standard Terminology of Glass and Glass Products.
 - 2. ASTM C 1036 - Standard Specification for Flat Glass.
 - 3. ASTM C 1048 - Standard Specification for Heat-Treated Flat Glass -- Kind HS, Kind FT Coated and Uncoated Glass.
 - 4. ASTM C 1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass.
 - 5. ASTM E 2188 - Standard Test Method for Insulating Glass Unit Performance.
 - 6. ASTM E 2189 - Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units.
 - 7. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

1.3 DEFINITIONS

- A. Manufacturers of Glass Products: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. Interspace: Space between lites of an insulating-glass unit that contains dehydrated air or other specified gas.
- D. Sealed Insulating Glass Unit Surface Designations:
 - 1. Surface 1 - Exterior surface of the outer glass lite.
 - 2. Surface 2 - Interspace surface of the outer glass lite.
 - 3. Surface 3 - Interspace surface of the inner glass lite.
 - 4. Surface 4 - Interior surface of the inner glass lite.

1.4 PERFORMANCE REQUIREMENTS

SECTION 08 80 00 - GLAZING

- A. General: Provide glass capable of withstanding thermal movement and wind and impact loads (where applicable) as specified in paragraph B following.
- B. Glass Design: Glass thickness designations indicated are minimums and are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites in the thickness designations indicated for various size openings, but not less than thicknesses and in strengths (annealed or heat treated) required to meet or exceed the following criteria:
 - 1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:
 - a. Design Wind Loads: Determine design wind loads applicable to the Project according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
 - b. Probability of Breakage for Vertical Glazing: 8 lites per 1000 for lites set vertically or not more than 15 degrees off vertical.
 - 1) Wind Load Duration: Short duration, as defined in ASTM E 1300 or 60 seconds or less.
 - c. Maximum Lateral Deflection: For the following types of glass supported on all 4 edges, provide thickness required that limits center deflection at design wind pressure to 1/50 times the short side length or 1 inch, whichever is less.
 - 1) For monolithic-glass lites heat treated to resist wind loads.
 - 2) For insulating glass.
- C. Thermal Movements: Provide glazing that allows for thermal movements resulting from ambient and surface temperatures changes acting on glass framing members and glazing components.
- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified based on manufacturer's published test data, as determined according to procedures indicated below:
 - 1. For monolithic-glass lites, properties are based on units with lites 1/4 inch (6.0 mm) thick.
 - 2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite and a nominal 1/2 inch wide interspace.
 - 3. Center-of-Glass Values: Based on using LBL-44789 WINDOW 5.0 computer program for the following methodologies:
 - a. U-Factors: NFRC 100 expressed as Btu/ sq. ft. per h per degree F.
 - b. Solar Heat Gain Coefficient: NFRC 200.
 - c. Solar Optical Properties: NFRC 300.

1.5 SUBMITTALS

- A. Submit under provisions of Division 01 Section, "General Requirements.
- B. Product Data: For each glass product and glazing material indicated.
- C. Qualification Data: For installers.
- D. Product Test Reports: For each type of glazing.
- E. Warranties: Special warranties specified in this Section.

SECTION 08 80 00 - GLAZING

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed glazing similar in material, design, and extent to that indicated for this Project; whose work has resulted in glass installations with a record of successful in-service performance; and who employs glass installers for this Project who are certified under the National Glass Association Glazier Certification Program as Level 2 (Senior Glaziers) or Level 3 (Master Glaziers).
- B. Source Limitations for Glass: Obtain the following through one source from a single manufacturer for each glass type: clear float glass, coated float glass and insulating glass.
- C. Glass Product Testing: Obtain glass test results for product test reports in "Submittals" Article from a qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.
- D. Glazing Publications: Comply with published recommendations of glass product manufacturers and industry organizations, including but not limited to those below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. IGMA Publication for Insulating Glass: SIGMA TM-3000, "Glazing Guidelines for Sealed Insulating Glass Units."
- E. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the following testing and inspecting agency:
 - 1. Insulating Glass Certification Council.
 - 2. Associated Laboratories, Inc.
- F. Safety Glazing Products: Comply with testing requirements in 16 CFR 1201 and, for wired glass, ANSI Z97.1.
 - 1. Subject to compliance with requirements, obtain safety glazing products permanently marked with certification label of the Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction.
 - 2. Lites more than 9 square feet (sf) (0.84 sq. m) in area are required to be Category II materials.
 - 3. Where glazing units, including Kind FT glass and laminated glass, are specified in Part 2 articles for glazing lites more than 9 sf in area, provide glazing products that comply with Category II materials, and for lites 9 sf. or less in area, provide glazing products that comply with Category I or II materials.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. For insulating-glass units that will be exposed to substantial altitude changes, comply with insulating-glass manufacturer's written recommendations for venting and sealing to avoid hermetic seal ruptures.

SECTION 08 80 00 - GLAZING

1.8 WARRANTY

- A. Manufacturer's Warranty for Coated-Glass Products: Manufacturer's standard form, made out to the glass fabricator in which the coated glass manufacturer agrees to replace coated glass units that deteriorates during normal use within the specified warranty period. Deterioration of the coated glass is defined as peeling and/or cracking, or discoloration that is not attributed to glass breakage, seal failure, improper installation, or cleaning and maintenance that is contrary to the manufacturer's written instructions.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Warranty on Insulating Glass: Manufacturer's standard form in which the insulating glass unit manufacturer agrees to replace insulating-glass units that deteriorate during normal use within the specified warranty period. Deterioration of insulating glass units is defined as an obstruction of vision by dust, moisture, or a film on the interior surfaces of the glass caused by a failure of the hermetic seal that is not attributed to glass breakage, improper installation, or cleaning and maintenance that is contrary to the manufacturer's written instructions.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: PPG Industries, Inc., Glass Group, which is located at: Glass Business and Discovery Center 400 Guys Run Rd.; Pittsburgh, PA 15024; Toll Free Tel: 800-377-5267; Fax: 800-367-2986; Web: www.ppgideascape.com
- B. Requests for substitutions will be considered in accordance with provisions of 016000.

2.2 GLASS PRODUCTS

- A. Heat-Treated Float Glass: ASTM C 1048; Type I (transparent flat glass); Quality-Q3; of class, kind, and condition indicated.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.
 - 2. Provide Kind FT (fully tempered) float glass in place of annealed or Kind HS (heat-strengthened) float glass where safety glass is indicated or required.
- B. Sputter-Coated Float Glass: ASTM C 1376, float glass with metallic-oxide or -nitride coating deposited by vacuum deposition process after manufacture and heat treatment (if any), and complying with other requirements specified.
- C. Insulating-Glass Units, General: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, and complying with ASTM E 774 for Class CBA units and with requirements specified in this Article and in Part 2 "Insulating-Glass Units" Article.
 - 1. Provide Kind FT (fully tempered) glass lites where safety glass is indicated or required.
 - 2. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thicknesses of units are

SECTION 08 80 00 - GLAZING

- measured perpendicularly from outer surfaces of glass lites at unit's edge.
3. Sealing System: Dual seal, with primary and secondary sealants of polyisobutylene and silicone.
 4. Spacer Specifications: Manufacturer's standard spacer material and construction complying with the following requirements:
 - a. Spacer Material: Aluminum with mill or clear anodic finish.
 - b. Desiccant: Molecular sieve or silica gel, or blend of both.
 - c. Corner Construction: Manufacturer's standard corner construction.

2.3 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

2.4 LOW-E INSULATING GLASS

- A. Type: Low-E Clear Insulating Glass. Clear color, low-reflective glass outdoor appearance
 1. Product: "Sungate Æ" 400 (2) Clear + Clear by PPG Industries, Inc.
 2. Insulating Unit Construction: 1/4 inch (6mm) Clear Glass, "Sungate" 400 (Sputtered) on second surface (2) + 1/2 inch (13mm) air space + 1/4 inch (6mm) Clear (transparent) Float Glass.
 3. Performance Values: Visible Light Transmission - 76 percent; SHGC 0.60; Shading Coefficient - 0.69; Outdoor Visible Light Reflectance - 14 percent; U-Value Winter - 0.32; U-Value Summer - 0.31.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine glazing for compliance with the following:
 1. Manufacturing and installation tolerances, including those for size and squareness.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean aluminum door glazing framing immediately before glazing.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, gaskets and other glazing materials, unless more stringent requirements are indicated, including those in the referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of. Damaged glass is glass with edge damage or other imperfections that could weaken glass and impair performance and appearance.

SECTION 08 80 00 - GLAZING

3.6 CLEANING AND PROTECTION

- A. Protect exterior glass from breakage by furnishing crossed streamers attached to framing and away from glass surface. Do not directly install markers to glass surfaces. Remove non-permanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove immediately by method recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less often than once a month, for build-up of dirt, scum, alkali deposits or staining. When examination reveals presence of these forms of residue, remove by method recommended by glass manufacturer. Glazing, which cannot be cleaned to a required condition, shall be deemed defective Work.
- D. Remove and replace glass, which is broken, chipped, cracked, abraded, or damaged during construction.
- E. Remove protective covering from thermoplastic not more than 4 days before Substantial Completion, and immediately before cleaning. Methods of final cleaning and finishing shall be as prescribed by thermoplastic glazing publications referenced above.
- F. Wash glass on both faces not more than four days before Substantial Completion. Wash glass by method recommended by glass manufacturer. Do not furnish harsh cleaning agents, caustics, abrasives, or acids for cleaning. Polish glass both sides and leave free of soil, streaks, and labels.

END OF SECTION

SECTION 09 29 00 - GYPSUM BOARD

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Interior gypsum board.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Moisture- and Mold-Resistant Assemblies: Provide and install moisture- and mold-resistant glass-mat gypsum wallboard products with moisture-resistant surfaces complying with ASTM C 1658 and ASTM C 1177 where indicated on Drawings.
- B. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- C. Low Emitting Materials: For ceiling and wall assemblies, provide materials and construction identical to those tested in assembly and complying with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.2 INTERIOR GYPSUM BOARD

- A. Basis-of-Design Product: The design for each type of gypsum board and related products is based on Georgia-Pacific Gypsum products named. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - 1. American Gypsum.
 - 2. CertainTeed Corp.
 - 3. Lafarge North America Inc.
 - 4. National Gypsum Company.

SECTION 09 29 00 - GYPSUM BOARD

5. PABCO Gypsum.
6. Temple-Inland.
7. USG Corporation.
8. Or approved equal.

B. Gypsum Board, Type X: ASTM C 1396/C 1396M.

1. Basis-of-Design Product: Georgia-Pacific Gypsum; ToughRock Fireguard Gypsum Board
2. Thickness: 5/8 inch, Type X.
3. Long Edges: Tapered.

C. Moisture- and Mold-Resistant Gypsum Board: ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces.

1. Basis-of-Design Product: Georgia-Pacific Gypsum; DensArmor Plus Fireguard Interior Panel
2. Core: 5/8 inch, Type X.
3. Long Edges: Tapered.
4. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.

2.3 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.

B. Joint Tape:

1. Interior Gypsum Board: Fiberglass mesh.

C. Joint Compound for Interior Gypsum Board: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.

2.4 AUXILIARY MATERIALS

A. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.

PART 3 - EXECUTION

3.1 APPLYING AND FINISHING PANELS

- A. Comply with ASTM C 840.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4" wide spaces at these locations and

SECTION 09 29 00 - GYPSUM BOARD

trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

- D. Install trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
 - 1. Aluminum Trim: Install in corner locations.
 - 2. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- E. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- F. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- G. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
 - 1. Level 2: Where indicated on Drawings: B01, B02 and 200.
 - 2. Level 4: Where indicated on Drawings: 100, 101, 102, 103 and 104.
 - a. Primer and its application to surfaces are specified in Section 09 90 00 "Painting."
- H. Protect adjacent surfaces from drywall compound and texture finishes and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
- I. Remove and replace panels that are wet, moisture damaged, and mold damaged.

END OF SECTION

SECTION 09 90 00 – PAINTING AND COATING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 WORK INCLUDES

- A. Base Bid: General Contractor shall provide:
 - 1. Painting work indicated on the Drawings and schedules, and as herein specified.
 - 2. Painting and finishing of interior exposed items and surfaces throughout the project, except as otherwise indicated.
 - 3. Surface preparation, priming and coats of paint specified are in addition to shop-priming and surface treatment specified under other sections of the work.
 - 4. "Paint" as used herein means all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime intermediate or finish coats.
 - 5. Paint exposed surfaces whether or not colors are designated in "schedules", except for exposed elements of the heavy timber structure and salvaged materials reused as natural wall finishes. Where items or surfaces are not specifically mentioned, paint these the same as adjacent similar materials or areas. If color or finish is not designated, such will be selected from standard colors available for the materials system specified. Include painting of exposed piping, conduit, raceways, electrical device boxes, and the like, at walls where new painting is scheduled.

1.3 RELATED WORK

- A. Specified Elsewhere:
 - 1. 08 10 01 – Doors, Frames & Finish Hardware.
 - 2. 09 29 00 – Gypsum Board.

1.4 PAINTING NOT INCLUDED

- A. The following categories of work are not included as part of the field-applied finish work, or are included in other sections of these specifications.
 - 1. Shop Priming: Shop priming of ferrous metal items is included under hollow metal work, and similar items.
 - 2. Pre-Finished Items: Unless otherwise indicated, do not include painting when factory finishing or installer finishing is specified for such items as (but not limited to) light fixtures and equipment.
 - 3. Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceilings in concealed areas and

SECTION 09 90 00 – PAINTING AND COATING

generally inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, duct shafts and elevator shafts.

4. Finished Metal Surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require finish painting, unless otherwise noted.
5. Operating Parts and Labels: Moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sensing devices, motor and fan shafts will not require finish painting.
6. Labels: Do not paint over any code-required labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

1.5 SUBMITTALS:

- A. Product Data; Paints and Coatings.
- B. Samples; Painting:
 1. Submit samples for review of color and sheen.
 2. Provide a listing of the material and application for each coat of each finish sample.

1.6 DELIVERY AND STORAGE:

- A. Deliver all materials to the job site in original, new and unopened packages and containers bearing Manufacturer's name and label, and the following information:

Name or title of material.
Fed. Spec. number, if applicable.
Manufacturer's stock number and date of manufacturer.
Manufacturer's name.
Contents by volume, for major pigment and vehicle constituents.
Thinning instructions.
Color name and number.

1.7 PROJECT CONDITIONS

- A. Apply water-base paints only when the temperature of surfaces to be painted and the surrounding air temperatures are between 50 degrees F and 90 degrees F.
- B. Avoid use of solvent-thinned paints. Use no VOC products; apply under conditions recommended by coating Manufacturer.
 1. Products provided under this Section shall comply with the applicable provisions of the Illinois Administrative Code – Title 35, Part 223 "Standards And Limitations For Organic Material Emissions For Area Sources".
- C. Do not apply paint in snow, rain, fog or mist; or when the relative humidity exceeds 85%; or to damp or wet surfaces.

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- D. Painting may be continued during inclement weather only if the areas and surfaces to be painted are enclosed and heated within the temperature limits specified by the paint Manufacturer during application and drying periods.

PART 2 - PRODUCTS

2.1 COLORS AND FINISHES:

- A. Surface treatments and finishes, are indicated in the "schedules" of the Contract Documents.
- B. Colors: As directed by Architect on Color Chart Schedule to be issued by Architect after Contract Award.
- C. Prior to beginning work, furnish color chips for surfaces to be painted. Use representative colors when preparing samples for review.
- D. Color Pigments: Pure, non-fading, applicable types to suit the surfaces and service indicated.
- E. Paint Coordination:
 - 1. Provide finish coats which are compatible with prime paints used.
 - 2. Review other sections of these specifications in which prime paints are to be provided to ensure compatibility of total coatings system for various surfaces.
 - 3. Upon request from other trades, furnish information on characteristics of finish materials proposed for use, to ensure compatible prime coats are used.
 - 4. Provide barrier coats over incompatible primers or remove and re-prime as required.
 - 5. Notify the Architect in writing of any anticipated problems using specified coating systems with surfaces primed by others.

2.2 MATERIAL QUALITY:

- A. Provide undercoat paint and primers produced by the same Manufacturer as the finish coats. Use only thinners approved by the paint Manufacturer, and use only within recommended limits. Provide primer compatible with paint.
- B. Paint Manufacturers:
 - 1. Materials paint numbers and trade names specified in painting system schedules are used to indicate type and quality of materials required. Acceptable Manufacturers scheduled:
 - a. Benjamin Moore & Co.: www.benjaminmoore.com
 - b. Sherwin-Williams Co.: www.sherwin-williams.com
 - c. Or approved equal.

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2.3 PAINT SYSTEMS SCHEDULE: SEE PART 3

PART 3 - EXECUTION

3.1 INSPECTION:

- A. Examine the areas and conditions under which painting work is to be applied. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
 - 1. Where condition of surface or material to be painted is questionable versus the coatings specified herein to be applied, the Contractor shall have the Painting Manufacturer's Representative examine same and recommend a no-cost adjustment in the Paints Systems Schedule.
- B. Starting of painting work will be construed as the Contractor's acceptance of the surfaces and conditions within any particular area.
- C. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to the formation of a durable paint film.

3.2 SURFACE PREPARATION:

- A. Basic Requirements:
 - 1. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instructions and as herein specified, for each particular surface condition.
 - 2. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for the complete painting of the items and adjacent surfaces. Following completion of painting of each space or area, reinstall the removed items by workers skilled in the trades involved.
 - 3. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program the cleaning and painting so that contaminants from the cleaning process will not fall onto wet, newly-painted surfaces.
 - 4. Existing wood surfaces shall be cleaned of foreign matter and sanded before painting.
 - 5. Spot cover all deep set stains and blemishes with an approved opaque "stain killer" of number of applications which may be required to conceal stain.
 - 6. Remove and/or effectively neutralize existing coatings which may be incompatible with application of new specified coatings.

3.3 MATERIALS PREPARATION:

- A. Mix and prepare painting materials in accordance with Manufacturer's

SECTION 09 90 00 – PAINTING AND COATING

Directions, and M.S.D.S. requirements.

- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue.
- C. Stir and box materials before application to produce a mixture of uniform density, and stir as required during the application of the materials. Do not stir surface film into the material. Remove the film and if necessary, strain the material before using.

3.4 APPLICATION:

A. Basic Requirements:

- 1. Apply paint in accordance with the Manufacturer's directions. Use applicators and techniques best suited for the surface and type of material being applied.
- 2. Apply additional coats when undercoats, stains or other conditions show through the final coat of paint, until the paint film is of uniform finish, color and appearance. Give special attention to insure that all surfaces, including edges, corners, crevices, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- 3. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently-fixed equipment or furniture with prime coat only before final installation of equipment.
- 4. Paint the back sides of access panels, and removable or hinged covers to match the exposed surfaces.
- 5. Finish exterior doors on tops, bottoms and side edges the same as the exterior faces.
- 7. Omit the first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise indicated.
- 8. High humidity areas shall be defined as areas in which water is present, for example, kitchens, toilets, showers, and wet laboratory areas.
- 9. It shall be the responsibility of each Contractor performing painting and coating work to comply with applicable M.S.D.S. requirements.

B. Mixing and Storing:

- 1. Assign an area to the Coating Applicator for mixing and storing materials.
- 2. Mix paints in tight pans of galvanized iron or other suitable material.
- 3. Prevent materials from freezing.
- 4. Remove frozen or damaged materials from job site.
- 5. Repair damage to "painter's room".

C. Scheduling Painting:

SECTION 09 90 00 – PAINTING AND COATING

1. Apply the first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
 2. Allow sufficient time between successive coatings to permit proper drying. Do not re-coat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
- D. Minimum Coating Thickness: Apply each material at not less than the manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated or, if not indicated, as recommended by coating Manufacturer.
- E. Tinting:
1. Tint each coat of enamel and opaque finishes slightly darker than and readily distinguishable from each preceding coat of paint.
 2. After inspection and approval of the first coat by the Architect, proceed with second coat.
- F. Method of Application:
1. Apply paint or other finish with brush, roller or spray apparatus provided that both the method of application and resultant finish are approved by the Architect.
 2. The last coat of latex base paints shall be roller applied.
- G. Prime Coats:
1. Apply a prime coat of material which is required to be painted or finished, and which has not been prime coated by others.
 2. Re-coat primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn-through or other defects due to insufficient sealing.
- H. Flat Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling such as laps, irregularity in texture, skid marks, or other surface imperfections.
- I. Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs sags, poiness or other surface imperfections will not be acceptable.
- J. Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements, or displaying streaks, runs, non-uniform coverage, non-adhering coats, cracking, bubbling, and similar defects unacceptable to the Architect.

3.5 TOUCHING-UP

SECTION 09 90 00 – PAINTING AND COATING

A. Clean-Up:

1. During the progress of the work, remove from the site all discarded paint materials, rubbish, cans and rags at the end of each work day.
2. Upon completion of painting work, clean window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.

B. Protection:

1. Protect work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting, as acceptable to the Architect.
2. Provide "Wet Paint" signs as required to protect newly-painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.
3. At the completion of work of other contractors, touch-up and restore all damaged or defaced painted surfaces.

3.6 INTERIOR PAINT SYSTEMS SCHEDULE

A. Provide the following systems for the various surfaces, as indicated:

SURFACES TO BE COATED	COATS	Benjamin Moore	Sherwin-Williams
Drywall	1	Natura Zero-VOC Interior Latex Primer (511)	ProMar 200 Zero VOC Interior Latex Primer
	2	Ultra Spec 500 Interior Flat Finish (536)	ProMar 200 Interior Flat Latex
Metal Doors and Frames (Factory Primed)	2	Aura Semi-Gloss (528)	ProMar 200 Semi-Gloss Latex

END OF SECTION

SECTION 10 28 00 - RESTROOM ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawing and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SECTION INCLUDES

- A. Restroom Accessories:
1. Soap dispensers.
 2. Paper towel dispensers.
 3. Toilet tissue dispensers.
 4. Mirrors.
 5. Grab bars.
 6. Custodial/janitorial accessories.

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's data sheets for each product specified, including the following:

1. Installation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Cleaning and maintenance instructions.
4. Replacement parts information.

B. Schedule: Submit a toilet accessory schedule, indicating the type and quantity to be installed in each washroom. Use room numbers as indicated on the Drawings.

1.4 QUALITY ASSURANCE

A. Manufacturer: Provide products manufactured by a company with a minimum of 10 years successful experience manufacturing similar products.

B. Single Source Requirements: To the greatest extent possible provide products from a single manufacturer.

C. Accessibility Requirements: Comply with requirements applicable in the jurisdiction of the project, including but not limited to ADA and ICC/ANSI A117.1 requirements as applicable.

D. Hazardous Materials: Comply with EU Directive "Restrictions of Hazardous Substances (RoHS) requirements."

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations. Protect from damage.

1.6 WARRANTY

A. Manufacturer's Warranty for Restroom Accessories: Manufacturer's standard 1-

SECTION 10 28 00 - RESTROOM ACCESSORIES

year warranty for materials and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis of Design: Bobrick Washroom Equipment, Inc., www.bobrick.com, or approved equal.

2.2 SOAP DISPENSERS

A. Surface-Mounted Soap Dispensers:

1. Basis of Design: Bobrick Contura Model B-4112.
2. Container: Drawn, one-piece, seamless, 20 gauge (0.9mm), stainless steel with satin finish. Front of unit shall have same degree of arc, radius on corners and edges as other Bobrick ConturaSeries washroom accessories.
3. Valve: Black molded plastic push button and spout, antibacterial-soap-resistant plastic cylinder; soap head-holding mushroom valve, stainless steel spring, Upacking seal and duckbills. Valve dispenses commercially marketed all-purpose hand soaps.
4. Compliance: Valve operates with one hand, without tight grasping, pinching or twisting of the wrist and with less than 5 pounds of force (22.2 N) to comply with barrier-free accessibility guidelines, including ADA-ABA and ICC/ANSI.
5. Filling: Locked, hinged filler top opens with key provided.
6. Refill Indication: Window indicates when refill is required.
7. Back Plate: 22 gauge (0.8mm) stainless steel with 20 gauge (1.0mm) stainless steel mounting bracket attached.
8. Epoxy Sealed Components: Container body and back plate.
9. Wall Plate: Concealed, 20 gauge (1.0mm).
10. Capacity: 40 fl oz (1.2 L).

2.3 TOILET TISSUE DISPENSERS

A. Recessed Toilet Tissue Dispenser:

1. Basis of Design: Bobrick Model B-6697.
2. Type 304 stainless steel with one-piece, seamless construction. Satin finish. Chrome-plated plastic spindles hold rolls up to 5 1/8" (130mm) diameter (1500 sheets). Single-roll model measure 6 1/8" W x 6 1/8" H (155 x 155mm).

SECTION 10 28 00 - RESTROOM ACCESSORIES

3. Mounting: clamps for securing to stud walls or countertop aprons. Rough Wall Opening: 5 1/2" W x 5 1/4" H x 3 3/8" minimum depth (140 x 135 x 85mm). With stainless steel hood.

2.4 PAPER TOWEL DISPENSERS

A. Surface-Mounted Paper-Towel Dispensers:

1. Basis of Design: Bobrick Classic Model B-2620.
 - a. Latching: Knob latch.
 - b. Capacity: 400 C-fold or 525 multifold towels 3-1/8 inches to 3-13/16 inches (79 mm to 97 mm) deep.
2. Door: 18-8, Type 304, 22 gauge (0.8mm) stainless steel with satin finish.
3. Cabinet: All-welded, 18-8, Type 304, 22 gauge (0.8mm) stainless steel with satin finish on exposed surfaces.
4. Cabinet Back: Formed to recess mounting slots to prevent mounting screw heads from snagging towels.
5. Hinge: Full-length stainless steel piano-hinge.
6. Towel Dispensing: Hemmed towel tray opening dispenses towels without tearing.
7. Filling: Door swings down for loading towels into cabinet.
8. Refill Indication: Two slots on each side of cabinet indicate refill time.

2.5 MIRRORS

A. Stainless Steel Channel Frame Mirrors:

1. Basis of Design: Bobrick Model B-165 1830.
 - a. Overall Size: 18 inches (457 mm) W x 30 inches (762 mm) H.
 - b. Configuration: Snap locking design.
2. Channel Frame: One-piece, Type 430 stainless steel channel-frame, 1/2 inch x 1/2 inch x 3/8 inch (13 mm x 13 mm x 9.5 mm), with 90 degree mitered corners; bright polished finish on exposed surfaces.
3. Mirror: No. 1 quality, 1/4 inch (6 mm) float glass, guaranteed for 15 years against silver spoilage.
 - a. Corners: Protected by friction-absorbing filler strips.
 - b. Back of Mirror: Protected by full-size, shock absorbing, water-resistant, nonabrasive, 3/16 inch (5 mm) thick polyethylene padding.
4. Mounting: Removable; galvanized steel back with integral horizontal hanging brackets located at top and bottom for mounting on concealed rectangular wall hanger; locking devices secure mirror to concealed wall hanger.

SECTION 10 28 00 - RESTROOM ACCESSORIES

5. Wall Hanger: Concealed, 20 gauge (0.9 mm) galvanized steel; incorporates lower support member to engage lower backplate louvers to keep bottom of mirror against wall.

2.6 GRAB BARS

A. Stainless Steel Grab Bars: With snap flange covers:

1. Satin Finish:

a. Basis of Design: Bobrick Model B-5806X36.

1) Length: 36 inches (914 mm).

b. Basis of Design: Bobrick Model B-5806X42.

1) Length: 42 inches (1067 mm).

2. Compliance: Barrier-free accessibility guidelines (including ADAAG) for structural strength.

a. Capacity: Designed to support 900 lbs (408 kg) in compliant installations.

3. Description: Clearance between grab bar and finished wall is 1-1/2 inches (38mm).

4. Grab Bar Materials: 18-8, Type 304, stainless steel tubing with satin finish.

5. Grab Bar Construction: 18 gauge (1.2 mm), ends heliarc welded to flanges.

6. Outside Diameter: 1-1/4 inch (32 mm).

7. Mounting Flanges: Concealed, 18-8 S, Type 304, 1/8 inch (3 mm) thick, stainless steel plate.

a. End Flanges: 2 inches x 3-1/8 inches (50 mm x 80 mm) with two holes for attachment to wall.

b. Intermediate Flanges: 2-5/8 inches x 3-1/8 inches (65 mm x 80 mm) wide x 3-1/8 inch (80 mm) diameter.

8. Snap Flange Covers: 18-8 S, Type 304, 22 gauge (0.8 mm) drawn stainless steel with satin finish, 3-1/4 inch (85 mm) diameter x 5/8 inches (16 mm) deep; snap over mounting flange to conceal mounting screws.

9. Mounting Accessories: Provide Type 304 stainless steel, Phillips round-head, wood screws as required for complete installation. Screw must meet or exceed required structural strength.

2.6 CUSTODIAL/JANITORIAL ACCESSORIES

A. Mop and Broom Holders:

1. Basis of Design: Bobrick Model B-223X24.

a. Length: 24 inches (610 mm) with 3 mop/broom holders.

SECTION 10 28 00 - RESTROOM ACCESSORIES

2. Mounting Base: 18-8, Type 304, 22 gauge (0.8 mm) stainless steel with satin finish on exposed surfaces.

3. Mop and Broom Holders: Replaceable, spring-loaded rubber cams with anti-slip coating; accommodates handles from 7/8 inch to 1-1/4 inch (20 mm to 30 mm) in diameter; with powder coated steel retainers.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install products in strict compliance with manufacturer's written instructions and recommendations, including the following:

1. Verify blocking has been installed properly.
2. Verify location does not interfere with door swings or use of fixtures.
3. Comply with manufacturer's recommendations for backing and proper support.
4. Use fasteners and anchors suitable for substrate and project conditions
5. Install units rigid, straight, plumb, and level, in accordance with manufacturer's installation instructions and approved shop drawings.
6. Conceal evidence of drilling, cutting, and fitting to room finish.
7. Test for proper operation.

3.2 CLEANING AND PROTECTION

A. Clean exposed surfaces of compartments, hardware, and fittings.

B. Touch-up, repair or replace damaged products until Substantial Completion.

END OF SECTION

SECTION 22 40 05 – PLUMBING FIXTURES AND ASSOCIATED PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 WORK INCLUDES

- A. Base Bid: General Contractor:
 - 1. Modify existing plumbing piping as required to accept new plumbing piping.
 - 2. Provide new plumbing fixtures and trim, accessories and specialties, and associated piping connections, as shown on the Drawings and specified herein.

1.3 REGULATORY REQUIREMENTS

- A. Illinois State Plumbing Code, 2014.
- B. Illinois Accessibility Code, Current Edition
- C. Public Law 102-486, "Energy Policy Act", regarding water flow and consumption rates for plumbing fixtures.

1.4 REFERENCES

- A. Comply with applicable provisions of:
 - 1. ASME/ANSI A112.6 1M-1979: Plumbing Fixture Supports.
 - 2. ASME/ANSI A112. 18.1: Finished and Rough Brass Plumbing Fixture Fittings, Supplies, Drains, etc.
 - 3. ASME/ANSI A112. 19.2: Vitreous China Plumbing Fixtures.
 - 4. ASME/ANSI B120.1: Pipe Threads.
 - 5. ASSE 1001: Atmospheric Vacuum Breakers.
 - 6. ANSI Z124.5: Plastic Toilet Seats.
 - 7. ANSI A117.1: Supply & Drain Protective Shielding Guards.
 - 8. ASTM B42-2010: Copper Piping.
 - 9. ASTM B306: Copper DWV Tube.
 - 10. ASTM D 1785: PVC Pipe, Schedule 40.
 - 11. ASME B16.18 or ASME B16.22: Copper Pressure Fittings.
 - 12. ASME B16.24: Bronze Flanges, Class 150.
 - 13. Soldered Joints: Use ASTM B813, water-flushable, lead-free flux; ASTM B32, lead-free alloy solder; and ASTM B828 procedure, unless otherwise indicated.
- B. Plumbing and Drainage Institute, PDI:
 - 1. Comply with applicable PDI standards for plumbing fixtures and supports.

1.5 SUBMITTALS

SECTION 22 40 05 – PLUMBING FIXTURES AND ASSOCIATED PIPING

A. Product Data:

1. Submit Manufacturer's product data and installation instructions for products, specified herein.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver plumbing products having moving or attached parts, individually wrapped in factory fabricated containers, clearly identified.
- B. Handle and store plumbing fixtures and products carefully to prevent damage or exposure to weather.
- C. Only accept valves which have Manufacturer's standard temporary protective coating applied and contain factory fitted end-caps. Do not install any valves which have been exposed to foreign debris on inside or have begun to corrode.
- D. Replace and return damaged or oxide covered plumbing products.

PART 2 - PRODUCTS

2.1 CHARACTERISTICS

- A. Provide new fixtures free from flaws and blemishes with finished surfaces clean, smooth and bright.
- B. Provide plumbing fittings with visible parts of fixture brass and accessories heavily chrome plated.
- C. Fixtures of same type product of one Manufacturer; fittings and trim of same type from one Manufacturer.

2.2 PLUMBING FIXTURES

- A. Provide plumbing fixtures as Scheduled and shown on Drawings.

2.3 PIPING

- A. Water piping to be Type "L" copper, with forged copper fittings and sweated joints. Piping and fittings to be insulated as required by code.
- B. Waste and vent piping to be Schedule 40 PVC plastic with cemented joints.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect rough-in sizes and arrangement of domestic water and waste piping systems to verify actual piping connection locations prior to fixture installation; inspect floors, walls, bases and conditions under which fixture work will be accomplished; notify appropriate parties in writing of all unsatisfactory conditions. Make all connections to supply and waste piping.

3.2 FIXTURE SUPPORT INSTALLATION

SECTION 22 40 05 – PLUMBING FIXTURES AND ASSOCIATED PIPING

- A. Fixture supports shall be compatible with fixture provided and installed in accordance with Manufacturer's instructions.

3.3 INSTALLATION OF FIXTURES

- A. Assemble fixtures, trim, fittings, and other components according to Manufacturer's written instructions.
- B. For wall-hanging fixtures, install off-floor supports affixed to building substrate.
- C. Install wall-hanging fixtures with tubular waste piping attached to supports.
- D. Install fixtures level and plumb according to Manufacturer's written instructions and roughing-in drawings.
- E. Install water-supply piping with stops (shutoff valves) at supply to each fixture as indicated on plans and specified herein. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops where they can be easily reached for operation.
- F. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
- G. Pitch waste and vent piping to drain and vent stack.
- H. Provide di-electric fittings where different pipe and materials come together. Di-electric fittings must be suitable for intended service.
- I. Install faucet-spout fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters and/or reducers if required.
- J. Provide unions so that a minimum amount of pipe need be disassembled for servicing of fixtures, equipment, etc.
- K. Seal joints between fixtures and walls, floors, and counters using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.

3.4 CONNECTIONS

- A. Connect water supplies from water distribution piping to fixtures.
- B. Connect drain piping from fixtures to drainage piping. Coordinate building sanitary/waste drainage piping with private sewage disposal system as indicated on Drawings.
- C. Supply and Waste Connections to Plumbing Fixtures: Connect fixtures with water supplies, stops, risers, traps, and waste piping. Use size fittings required to match fixtures. Connect to plumbing piping. Use transition fittings to join dissimilar piping materials.

SECTION 22 40 05 – PLUMBING FIXTURES AND ASSOCIATED PIPING

3.5 VALVE INSTALLATION

- A. Position valves in accessible locations, and so that separate support can be provided where necessary.
- B. Where insulation is indicated or required, install extended valve stems, arranged in proper manner to receive insulation.
- C. Install valves with stems upright or horizontal, not inverted.

3.6 ADJUSTING & CLEANING

- A. Provide test operations of all plumbing fixtures and equipment.
 - 1. Ensure that all installations operate and shut-off properly, and that all connections are leak free.
 - 2. Adjust work as required for successful operation of all plumbing.
 - 3. Adjust water pressure at faucets and flushometer valves to produce proper flow and stream.
- B. Remove labels and tags from all plumbing fixtures and clean each fixture.

3.7 PROTECTION

- A. Provide protective covering for installed fixtures and fittings.
- B. Do not allow use of fixtures for temporary facilities.

END OF SECTION

SECTION 23 83 16 – HYDRONIC HEATING SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

- A. This Section covers the hydronic heating system.
- B. The work in this Section includes, but is not limited to, the following:
 - 1. Complete hydronic heating system as shown on the contract documents.
 - 2. Manufacturer-supported system startup and commissioning phase support.

1.3 SUBMITTALS

- A. General: Provide required submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Provide manufacturer's product submittal data including technical specifications and performance characteristics.
- C. Shop Drawings: Submit the following piping layouts, calculations and reports.
 - 1. Piping layout scale: 1/4 inch = 1 foot
 - 2. Submit manufacturer's detailed drawings showing layouts, fixing details and piping details of all areas where hydronic radiant systems are indicated. Submit a cross-referenced manifold schedule indicating loop lengths, tubing diameter, flow rate, operating water temperatures, and pressure drop to meet the required heating performance listed on the contract documents along with product and performance data for each component.
 - 3. Indicate all valves, pumps, tanks, and equipment that are required to control and operate the hydronic heating system as shown on the plans and in the manner as described in 2.4 Controls. Submit a valve and pump schedule listing each number, type, size, model and service. Cross reference to supporting product data.
 - 4. Provide calculations that support the heating performance requirements of the hydronic heating system. These calculations shall account for the respective concrete slab and wood frame construction conditions and the depth of the tubing in relation to the exposed floor surface. Calculations must show the required flow rate, operating temperatures and pressure drops through the system for heating.
 - 5. Submit manifold details, including all connections, fittings, valves and mounting requirements.
 - 6. Provide drawings showing piping manifold locations and installation details.
 - 7. Provide control sequences and requirements for control hardware devices. Indicate compliance and coordination with requirements of other specification sections.

SECTION 23 83 16 - Hydronic Heating System

8. Provide piping sample with complete print stream indicating certification of properties.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Provide operation and maintenance manuals for valves, manifolds, boiler and controls.
- B. Closeout Documentation
 1. Submit manufacturer's report detailing that the hydronic heating system has been installed in accordance with the contract documents and the manufacturer's specified instructions. Provide manufacturer's instructions for all serviceable parts and equipment. Note any exceptions.
 2. Submit start-up report demonstrating that system meets required capacity, is fully functional and commissioned to the satisfaction of system manufacturer.
 3. Provide final as-built drawings indicating tubing layout, manifold locations, zoning and manifold schedules with details required for installation of the system.
 4. Provide documentation indicating that the installer is trained to install the manufacturer's products.
 5. Warranty documents specified herein.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall have demonstrated experience on projects of similar size and complexity with documentation proving successful completion of hydronic heating system installation and/or training by the PEX tubing manufacturer.
- B. Hydronic heating system manufacturer shall have successfully completed five installations of similar type and scope. Manufacturer shall provide a representative for field support during the installation and commissioning of the hydronic heating system.
- C. Pre-installation Meetings
 1. Verify project requirements, substrate conditions, floor coverings, manufacturer's installation instructions and warranty requirements.
 2. Review project construction timeline to ensure compliance or discuss modifications as required.
 3. Interface with other trade representatives to verify areas of responsibility.
 4. Establish the frequency and construction phase the project engineer intends for site visits and inspections by the PEX tubing manufacturer's representative.

1.6 DELIVERY, STORAGE AND HANDLING

- A. General: Comply with Division 1 Product Requirements Section.

SECTION 23 83 16 - Hydronic Heating System

- B. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
 - 1. Store PEX tubing in cartons or under cover to avoid dirt or foreign material from entering the tubing.
 - 2. Do not expose PEX tubing to direct sunlight for more than 30 days. If construction delays are encountered, cover the tubing to prevent exposure to direct sunlight.

1.7 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.
 - 1. Warranty may transfer to subsequent owners.
 - 2. Warranty Period for PEX Tubing: 30-year, non-prorated warranty against failure due to defect in material or workmanship, beginning with date of installation.
 - 3. Warranty Period for Manifolds and Fittings: 5-year, non-prorated warranty against failure due to defect in material or workmanship, beginning with date of installation.
 - 4. Warranty Period for Modulating Electric Boiler: 10-year (heating elements), 2-year (all other components)

PART 2 - PRODUCTS

2.1 CROSSLINKED POLYETHYLENE (PEX) TUBING AND FITTINGS

- A. Manufacturer: Subject to compliance with requirements, provide products by one of the following:
 - 1. Basis of Design Manufacturer: Uponor.
 - a. Contact: 5925 148th Street West, Apple Valley, MN 55124; Telephone: 800.321.4739, 952.891.2000; Fax: 952.891.2008; Website: www.uponorpro.com
 - 2. Acceptable Alternate Manufacturers:
 - a. Rehau
 - b. Mr. PEX

SECTION 23 83 16 - Hydronic Heating System

- c. Or approved equal.
- B. To ensure system compatibility consistency, all products, manifolds, components, etc. specified herein must be manufactured by and/or available from the PEX tubing manufacturer.
- C. Tubing
 - 1. Material: Engel-method crosslinked polyethylene (PEX-a)
 - 2. Material Standard: Manufactured in accordance with ASTM F876 and ASTM F877 and tested for compliance by an independent third-party agency.
 - 3. Pressure Ratings: Standard Grade hydrostatic design and pressure ratings as issued by the Plastics Pipe Institute (PPI), a division of the Society of the Plastics Industry (SPI).
 - a. 200 degrees F (93 degrees C) at 80 psi (551 kPa)
 - b. 180 degrees F (82 degrees C) at 100 psi (689 kPa)
 - c. 73.4 degrees F (23 degrees C) at 160 psi (1102 kPa)
 - 4. Show compliance with ASTM E119 and ANSI/UL 263 through certification listings through UL.
 - a. UL Design No. L557 — 1 hour wood frame floor/ceiling assemblies
 - b. UL Design No. U372 — 1 hour wood stud/gypsum wallboard wall assemblies
 - 5. Minimum Bend Radius (Cold Bending): Six times the outside diameter.
 - 6. Barrier Tubing Type: Wirsbo hePEX or approved equal
 - a. Tubing shall have an oxygen-diffusion barrier that does not exceed an oxygen diffusion rate of 0.10 grams per cubic meter per day at 104 degrees F (40 degrees C) water temperature in accordance with German DIN 4726.
 - b. Nominal Inside Diameter: Provide tubing with nominal inside diameter in accordance with ASTM F876, as indicated in the system design.
- D. Fittings
 - 1. ASTM F1960 cold-expansion fitting manufactured from the following material types:
 - a. UNS No. C69300 Lead-free (LF) Brass
 - b. 20% glass-filled polysulfone as specified in ASTM D6394
 - c. Unreinforced polysulfone (group 01, class 1, grade 2) as specified in ASTM D6394
 - d. Polyphenylsulfone (group 03, class 1, grade 2) as specified in ASTM D6394

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- e. Blend of polyphenylsulfone (55-80%) and unreinforced polysulfone (rem.) as specified in ASTM D6394
- f. Reinforcing cold-expansion rings shall be manufactured from the same source as PEX-a piping manufacturer and marked "F1960".

2.2 DISTRIBUTION MANIFOLDS

A. Brass Manifolds

1. Brass manifolds assemblies shall be constructed of dezincification-resistant brass, with minimum 1-inch barrel, sized for flow rates required on submitted manifold schedule, and R32 union connections.
2. Manifold assemblies shall be furnished and installed with:
 - a. Supply and return filter ball valves
 - b. Loop balancing and isolation valves
 - c. End cap with vent and drain
 - d. Mounting bracket
 - e. Manual balancing valves with visual flow indicators
 - f. ASTM F1960 fitting assemblies
 - g. Individual loop actuators with adapter rings, as needed.
3. Install flow setter on the return leg from the manifold to provide flow balancing between manifolds.
4. Manifolds support 5/16-inch through 3/4-inch PEX tubing.
5. Each manifold location should have the ability to vent air manually from the system.

2.3 PIPING SPECIALTIES AND ACCESSORIES

- A. Fixing Wire: 6 inch galvanized steel alloy wire ties shall be used to secure PEX tubing to wire mesh or reinforcing bar.
- B. Channeled Subfloor (5/16-inch tubing): 1/2-inch thick, 7-inch wide plywood panels with aluminum heat transfer sheets.
- C. PVC Bend Supports: 90 degree PVC bend supports shall be used to sleeve tubing at concrete slab penetrations. Bend supports shall be sized for appropriate tubing diameter.

2.4 CONTROL EQUIPMENT

- A. Thermostats: Zone temperature control shall be provided by thermostats with air and floor temperature sensors as indicated on plans.
 1. Contractor shall provide all required controls, control hardware devices, transformers and other parts necessary for a complete and operational hydronic heating system with multiple zone control.

SECTION 23 83 16 - Hydronic Heating System

2.5 BOILER

A. Modulating electric boiler: Provide as scheduled and indicated on plans. Boiler selection shall be verified based on final hydronic heating system design and load established by approved shop drawings and system calculations.

2.6 HYDRONIC FEEDER (MAKE-UP) TANK

A. Automatic hydronic system feeder: Provide feeder as indicated on plans compatible with the design of the closed hydronic heating system. Feeder shall be capable of providing make-up fluid (specified inhibited glycol solution) to the closed hydronic heating system.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Install hydronic heating system according to approved shop drawings or coordination drawings.
- B. Comply with manufacturer's product data, including product technical bulletins, installation instructions and design drawings, including the following.
 - 1. Uponor Complete Design Assistance Manual (CDAM), current edition
 - 2. Uponor Radiant Floor Installation Handbook, current edition

3.2 EXAMINATION

- A. Site Verification of Conditions
 - 1. Verify that site conditions are acceptable for installation of the hydronic heating system.
 - 2. Do not proceed with installation of the hydronic heating system until unacceptable conditions are corrected.

3.3 INSTALLATION

- A. Slab-on-grade Installation
 - 1. Fasten the tubing to the wire mesh or reinforcing bar using wire ties. Space ties at a maximum of 36 inches. Secure tubing at the base and center of each bend.
 - 2. Install tubing at a consistent depth below the surface elevation. Maintain minimum cover as shown on plans. Ensure sufficient clearance to avoid control joint cuts.
 - 3. In areas where tubing must cross expansion joints in the concrete, tubing shall be wrapped with pipe insulation for 6 inches on both sides of joint.
 - 4. For tubing that exits the slab in a 90-degree bend, use PVC bend supports.
 - 5. System shall be pressure-tested per the manufacturer's recommendations at a pressure no less than 40 psig. Maintain minimum 40 psig pressure during the concrete pour for 24 hours during curing.

SECTION 23 83 16 - Hydronic Heating System

B. Wood Construction Installation

1. For wood subfloor applications, install tubing in channeled subfloor panels. Use interlocking panels with U-bend returns at each end. Install per manufacturer's recommendations.
2. System shall be pressure-tested per the manufacturer's recommendations at a pressure no less than 40 psig. Maintain minimum 40 psig pressure during the concrete pour for 24 hours during curing.

C. Manifold Installation

1. Mount manifolds on equipment room wall per the approved shop drawings.

D. Labeling

1. All piping to be identified with loop numbers marked on pipe wall before connecting to manifold using a permanent tag.
2. Verify actual loop length for each loop on a manifold.
3. All loops must be identified to allow for future balancing.

E. Construction Coordination

1. Coordinate slab tubing layout with other devices (electrical conduits and boxes, plumbing penetrations, construction and furniture supports) and all other services within or attaching to the slab.

F. As-Built Survey

1. Provide survey documentation of tubing layout after installation of tubing and prior to pouring concrete. Notify Owner's Representative three days in advance of concrete pour to allow inspection of installation and survey documentation.

G. Control Set-up:

1. Hydronic heating system shall provide multiple zone control through the use of thermostats that communicate with a zone control module. The zone control module shall control the boiler, manifold-mounted actuators and primary (boiler) and secondary (manifolds) circulator pumps as required for multiple zone control. A primary-secondary piping system shall be used to maximize boiler efficiency in low flow conditions. Boiler shall utilize an outdoor temperature sensor (reset control) to adjust supply water temperature in order to maintain air and floor temperature in relation to changes in outdoor temperature and avoid zone temperature overshoot in mild weather.
2. Sequence of Operation: On a call for heat, the thermostat sends a signal to the zone control module. This call for heat sends power to the actuators for that zone (when applicable) via the zone control module. This activates or "opens" the actuators allowing flow through these loops on the manifold. Once the actuators have opened to a minimal position, and end switch inside the actuators will close. When the zone control module detects the end switch closure, the pump relay is energized. (This procedure eliminates "dead head" circulator conditions since the actuators must open before the circulator will operate.) When flow to the zone is controlled solely by a circulator pump (as in the 5 loop manifold for zone 3) rather than by actuators, the zone control module will energize the pump relay directly.

SECTION 23 83 16 - Hydronic Heating System

When the circuit is completed between the pump relay for a given zone and the zone control module, the zone control module will energize the circuit to activate the boiler. See manufacturers instructions for wiring schematics.

3.4 ADJUSTING

A. Balancing Loops Across the Manifold

1. Balance all loops across each manifold to the flow rates specified on the approved manifold schedule.
2. Balancing is unnecessary when all loop lengths across the manifold are within 3% of each other in length. Install the supply-and-return piping to the manifold in a reverse-return configuration to ensure self-balancing.

3.5 CLEANING/RECYCLING

- A. Remove temporary coverings and protection.
- B. Repair or replace damaged installed products.
- C. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance.
- D. Remove construction debris from project site and legally dispose of debris. Divert waste tubing and packaging for recycling.

END OF SECTION

SECTION 26 00 05 – ELECTRICAL WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 WORK INCLUDES

- A. Base Bid: General Contractor provides:
 - 1. Raceways, fittings, boxes, and enclosures for electrical wiring as may be required.
 - 2. Conductors, wiring, cables, connectors and wiring devices.
 - 3. Power connections to equipment, lighting fixtures and switching devices.
 - 4. Provision of new circuits, properly sized breakers and modification to existing circuits as may be required.
 - 5. Supporting devices for electrical components.
 - 6. Electrical identification.
 - 7. Electrical demolition.
 - 8. Cutting and patching for electrical construction.
 - 9. Testing.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70 (NEC 2011 edition), Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.5 COORDINATION

- A. Coordinate all electrical work with general construction work.
- B. Sequence, coordinate, and integrate installing electrical materials and equipment for efficient flow of the Work.
- C. Where electrical identification devices are applied to field-finished surfaces, coordinate installation of identification devices with completion of finished surface.

PART 2 - PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. Manufacturers:

SECTION 26 00 05 – ELECTRICAL WORK

1. AFC Cable Systems, Inc.; New Bedford, MA 02745.
 2. Anamet Electrical, Inc.; Glen Ellyn, IL 60137.
 3. Electri-Flex Co.; Roselle, IL 60172.
 4. Grinnell Co./Tyco International; Allied Tube and Conduit Div.; Harvey, IL 60426.
 5. O-Z Gedney Company; Des Plaines, IL 60018.
 6. Wheatland Tube Co.; Chicago, IL 60609.
 7. Or approved equal.
- B. EMT: Electrical Metallic Tubing and Fittings; ANSI C 80.3-1995; and comply with FS-WW-C-563.
1. Fittings: steel compression type only.
- C. RMC: Rigid Metal Conduit; galvanized rigid steel; ANSI C80.1-1995; and comply with FS-WW-C-581.
- D. IMC: Intermediate Metal Conduit; zinc-coated steel with threaded fittings; ANSI C80.6-1994; and comply with FS-WW-C-581.
- E. FMC: Flexible Metal Conduit; zinc-coated steel or aluminum; comply with FS-WW-C-566.
- F. Fittings: NEMA FB 1; compatible with conduit and tubing materials.
1. Specifically designed for raceway type with which used.

2.2 BOXES AND ENCLOSURES

- A. Manufacturers:
1. Appleton Electric Company; Skokie, IL 60077.
 2. Crouse-Hinds; Syracuse, NY 13221.
 3. Erickson Electrical Equipment Co.; Elk Grove Village, IL 60007.
 4. Hoffman; Anoka, MN 55303.
 5. Hubbell, Inc.; Killark Electric Manufacturing Co.; St. Louis, MO 63113.
 6. O-Z/Gedney Company; Des Plaines, IL 60018.
 7. RACO; Division of Hubbell, Inc.
 8. Thomas & Betts Corporation; Memphis, TN 38125.
 9. Walker Systems, Inc.; Williamstown, WV 26187.
 10. Woodhead, Daniel Company; Woodhead Industries, Inc. Subsidiary; Northbrook, IL 60062.
 11. Or approved equal.
- B. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
- C. Cast-Metal Outlet and Device Boxes: NEMA FB 1, Type FD, with gasketed cover.
- D. Nonmetallic Outlet and Device Boxes: NEMA OS 2.
- E. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous hinge cover and flush latch.

SECTION 26 00 05 – ELECTRICAL WORK

1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.

2.3 FACTORY FINISHES

- A. Finish: Galvanized steel

2.4 CONDUCTORS AND CABLES

- A. Acceptable Manufacturers:

1. American Insulated Wire Corp.; Pawtucket, RI 02861.
2. General Cable Corporation; Highland Heights, KY 41076.
3. Senator Wire & Cable Company, Carrollton, GA 30117.
4. Southwire Company; Carrollton, GA 30117.
5. Or approved equal.

Refer to Part 3 "Conductor and Insulation Applications" Article for insulation type, cable construction, and ratings.

- B. Conductor Material: Copper complying with NEMA WC 5 or 7:

1. No. 10 AWG and Smaller: Solid copper.
2. Larger than No. 10 AWG: Stranded copper.

- C. Conductor Insulation Types: Type THHN or THWN complying with NEMA WC 5 or 7. Thermoplastic, rated 600V, 75 deg. C minimum, Type THW, THHN-THWN, or use depending on application.

- D. Wire Connectors and Splices: Units of size, ampacity rating, material, type, and class suitable for service indicated.

2.5 CONNECTORS AND SPLICES

- A. Acceptable Manufacturers:

1. AFC Cable Systems, Inc.; New Bedford, MA 02745.
2. AMP Incorporated/Tyco International; Middletown, PA 17057.
3. Hubbell/Anderson.
4. O-Z/Gedney Company; Des Plaines, IL 60018.
5. 3M Company; Electrical Products Division.
6. Or approved equal.

- B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.6 WIRING DEVICES

- A. Acceptable Manufacturers: Provide products by one of the following:

1. Bryant Electric, Inc.; Milford, CT 06460.
2. Hubbell Incorporated; Wiring Device-Kellems; Milford, CT 06460.
3. Leviton Manufacturing Co.; Little Neck, NY 11362.

SECTION 26 00 05 – ELECTRICAL WORK

4. Pass & Seymour; Syracuse, NY 13209.
5. Or approved equal.

2.7 RECEPTACLES

- A. Straight-Blade-Type Receptacles: Comply with NEMA WD 1, NEMA WD 6, DSCC W-C-596G, and UL 498. Rating to be 20 Amp.
- B. Moisture Resistant GFCI Receptacles: Straight blade, feed-through type, commercial (20 Amp) grade, with integral NEMA WD 6, Configuration 5-20R duplex receptacle; complying with UL 498 and UL 943. Design units for installation in a 2-3/4 inch deep outlet box without an adapter.

2.8 SWITCHES

- A. Single- and Double-Pole Switches (20 Amp rated): Comply with DSCC W-C-896F and UL 20.

2.9 WALL PLATES

- A. Single and combination types to match corresponding wiring devices.
 1. Plate-Securing Screws: Metal with head color to match plate finish.
 2. Material for Finished Spaces: Brushed Stainless Steel.
 3. Material for Unfinished Spaces: Brushed Stainless Steel.

2.10 FINISHES

- A. Color for switches, receptacles and trim to be: White.

2.11 SUPPORTING DEVICES

- A. Material: Cold-formed steel, with corrosion-resistant coating.
- B. Damp Locations: Hot-dip galvanized steel.
- C. Slotted-Steel Channel: Flange edges turned toward web, and 9/16 inch diameter slotted holes at a maximum of 2 inches o.c., in webs. Strength rating to suit structural loading.
- D. Raceway and Cable Supports: Manufactured clevis hangers, riser clamps, straps, threaded C-clamps with retainers, ceiling trapeze hangers, wall brackets, and spring-steel clamps or click-type hangers.
- E. Pipe Sleeves: ASTM A 53, Type E, Grade A, Schedule 40, galvanized steel, plain ends.
- F. Cable Supports for Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug for nonarmored electrical cables in riser conduits. Plugs have number and size of conductor gripping holes as required to suit individual risers. Body constructed of malleable-iron casting with hot-dip galvanized finish.

SECTION 26 00 05 – ELECTRICAL WORK

- G. Expansion Anchors: Carbon-steel wedge or sleeve type.
- H. Toggle Bolts: All-steel springhead type.
- I. Power-Driven Threaded Studs: Heat-treated steel.

PART 3 - EXECUTION

3.1 RACEWAY APPLICATION

- A. Indoors:
 - 1. Exposed: EMT.
 - 2. Concealed: EMT.
 - 3. Damp Locations: Rigid steel conduit (RMC).
 - 4. Boxes and Enclosures: NEMA 250, Type 1, except as follows:
 - a. Damp Locations: NEMA 250, Type 4, nonmetallic.
 - 5. Limited Distance Connections: FMC (See Article 3.2 J).
- B. Raceway Fittings: Compatible with raceways and suitable for use and location.
 - 1. Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.

3.2 RACEWAY INSTALLATION

- A. Keep raceways at least 6 inches away from parallel runs of flues and hot-water pipes. Install horizontal raceway runs above water piping.
- B. Complete supported and secured raceway installation before starting conductor installation.
- C. Install temporary closures to prevent foreign matter from entering raceways.
- D. Make bends and offsets so ID is not reduced. Keep legs of bends in the same plane and keep straight legs of offsets parallel, unless otherwise indicated.
- E. Conceal conduit and EMT (tubing) within finished walls, ceilings, and floors, unless otherwise indicated.
- F. Install exposed raceways parallel or at right angles to nearby surfaces or structural members and follow surface contours as much as possible.
 - 1. Run parallel or banked raceways together on common supports.
 - 2. Make parallel bends in parallel or banked runs. Use factory elbows only where elbows can be installed parallel, otherwise, provide field bends for parallel raceways.
- G. Join raceways with fittings designed and approved for that purpose and make joints tight.

SECTION 26 00 05 – ELECTRICAL WORK

1. Use insulating bushings to protect conductors.

H. Terminations:

1. Where raceways are terminated with locknuts and bushings, align raceways to enter squarely and install locknuts with dished part against box. Use two locknuts, one inside and one outside box.
2. Where raceways are terminated with threaded hubs, screw raceways or fittings tightly into hub so end bears against wire protection shoulder. Where chase nipples are used, align raceways so coupling is square to box; tighten chase nipple so no threads are exposed.

- I. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with UL listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:

1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
2. Where otherwise required by NFPA 70-2011.

- J. Flexible Connections: Use maximum of 72 inches of flexible conduit for recessed and semi-recessed lighting fixtures; for equipment subject to vibration, noise transmission, or movement; and for all motors. Use LFMC in damp or wet locations. Install separate ground conductor across flexible connections.

3.3 CONDUCTOR AND INSULATION APPLICATIONS

- A. Exposed Branch Circuits, including in Crawlspace: Type THHN or THWN single conductors in EMT.
- B. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN or THWN single conductors in EMT.

3.4 WIRING INSTALLATION

- A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use Manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed Manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- D. Install fully supported and attached exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.

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- E. Seal around cables penetrating fire-rated elements.
- F. Identify and color-code conductors and cables per standard practices.
- G. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.
- H. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches of slack.

3.5 ELECTRICAL EQUIPMENT INSTALLATION

- A. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom.
- B. Materials and Components: Install level, plumb, and parallel and perpendicular to other building systems and components, unless otherwise indicated.
- C. Equipment: Install to facilitate service, maintenance, and repair or replacement of components. Connect for ease of disconnecting, with minimum interference with other installations.
- D. Right of Way: Give to raceways and piping systems installed at a required slope.
- E. Install motor starters, transformers and relays in accordance with intended use and functional application, per Manufacturer's requirements and approved wiring diagrams.

3.6 WIRING METHODS FOR POWER, LIGHTING, AND CONTROL CIRCUITS

- A. Application: Use wiring methods specified below to the extent permitted by applicable codes as interpreted by authorities having jurisdiction.
- B. Concealed Branch Circuits in Ceilings (from junction box to lighting fixtures): FMC.
- C. Up to and above ceilings: conductors in EMT.
- D. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.

3.7 ELECTRICAL SUPPORTING DEVICE APPLICATION

- A. Damp Locations: Hot-dip galvanized materials or nonmetallic, slotted channel system components.
- B. Dry Locations: Steel materials.

SECTION 26 00 05 – ELECTRICAL WORK

- C. Strength of Supports: Adequate to carry present and future loads, times a safety factor of at least four with, 200 lb. minimum design load for each support element.

3.8 SUPPORT INSTALLATION

- A. Support parallel runs of horizontal raceways together on trapeze- or bracket-type hangers.
- B. Size supports for multiple raceway or cable runs so capacity can be increased by a 25 percent minimum in the future.
- C. Support individual horizontal single raceways with separate, malleable-iron pipe hangers or hangers.
- D. Install sleeves for cable and raceway penetrations of masonry and fire-rated gypsum walls and of all other fire-rated floor and wall assemblies.
- E. Secure electrical items and their supports to building structure, using the following methods unless other fastening methods are indicated.
 - 1. Wood: Wood screws or screw-type nails.
 - 2. Gypsum Board: Toggle bolts. Seal around sleeves with joint compound, both sides of wall.
 - 3. Masonry: Toggle bolts on hollow block and expansion bolts on solid block. Seal around sleeves with mortar, both sides of wall.
 - 4. New Concrete: Concrete inserts with machine screws and bolts.
 - 5. Fasteners for Damp Locations: Stainless steel.
 - 6. Fasteners: Select so load applied to each fastener does not exceed 25 percent of its proof-test load.

3.9 DEMOLITION

- A. Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the work, remove damaged portions and install new products of equal capacity, quality, and functionality.
- B. Accessible Work: Remove exposed electrical equipment and installations, indicated to be demolished, in their entirety.
- C. Remove and store, clean components indicated for retention for owner.

3.10 CUTTING AND PATCHING

- A. Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces required to permit electrical installations. Perform cutting by skilled mechanics of trades involved.
- B. Repair, refinish and touch up disturbed finish materials and other surfaces to match adjacent undisturbed surfaces.

3.11 ELECTRICAL TESTING

SECTION 26 00 05 – ELECTRICAL WORK

- A. Electrical Contractor shall conduct insulation resistance, grounding, continuity, voltage and phase relationship tests of completed system installation.
 - 1. Test for opens and shorts and phase relationships.
 - 2. When tests disclose any unsatisfactory quality of work or equipment furnished under this Contract, correct defects and retest. Repeat tests until satisfactory results are obtained.
 - 3. When any wiring or equipment is damaged by tests, repair or replace such wiring or equipment. Test repaired items to ensure satisfactory operation.

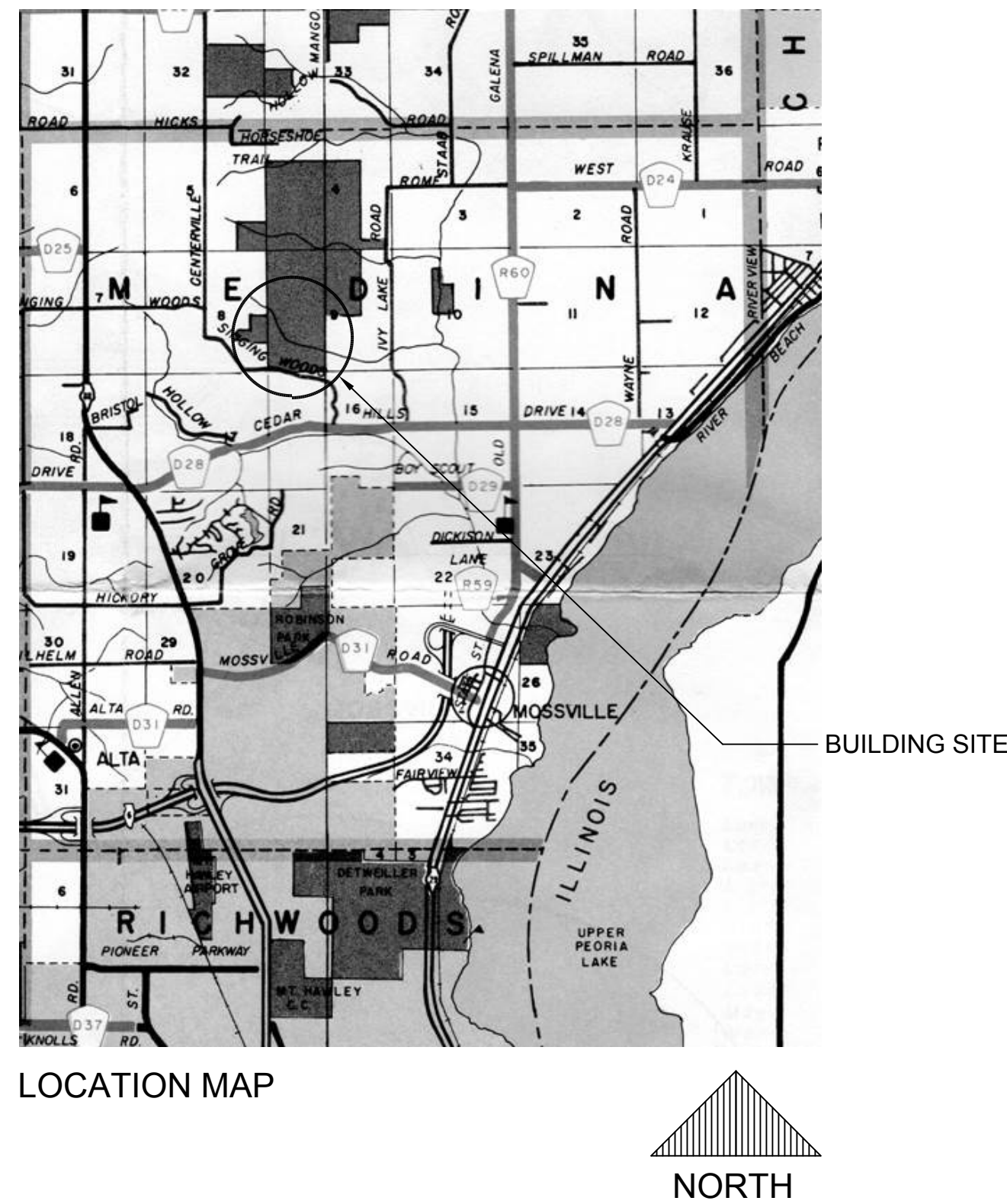
3.12 PROTECTION

- A. Provide final protection and maintain conditions that ensure coatings and finishes are without damage or deterioration at time of Substantial Completion.
 - 1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.

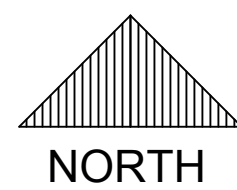
3.13 CLEANING

- A. After completing installation of exposed, factory-finished raceways and boxes, inspect exposed finishes and repair damaged finishes.

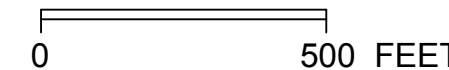
END OF SECTION



LOCATION MAP



AERIAL SITE PLAN



TAWNY OAKS WELCOME CENTER PEORIA PARK DISTRICT 715 W. SINGING WOODS RD. EDELSTEIN, ILLINOIS

PROJECT DATA

GOVERNING CODES:

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FIRE CODE
2011 NATIONAL ELECTRICAL CODE
ILLINOIS ACCESSIBILITY CODE
STATE OF ILLINOIS PLUMBING CODE

USE GROUP CLASSIFICATION: A-3

CONSTRUCTION CLASSIFICATION: IV AND V

GROSS FLOOR AREA: 2,030 GSF

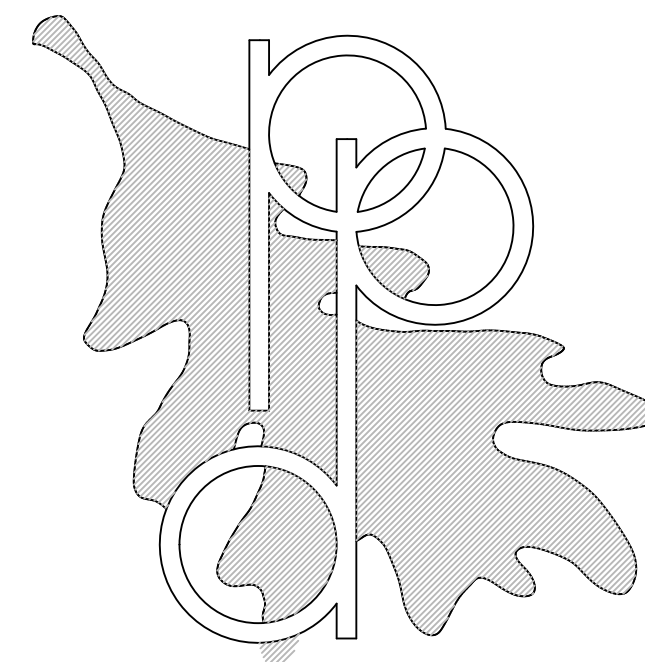
OCCUPANT LOAD (PER IBC 2012): 41 PEOPLE

PROJECT DESCRIPTION

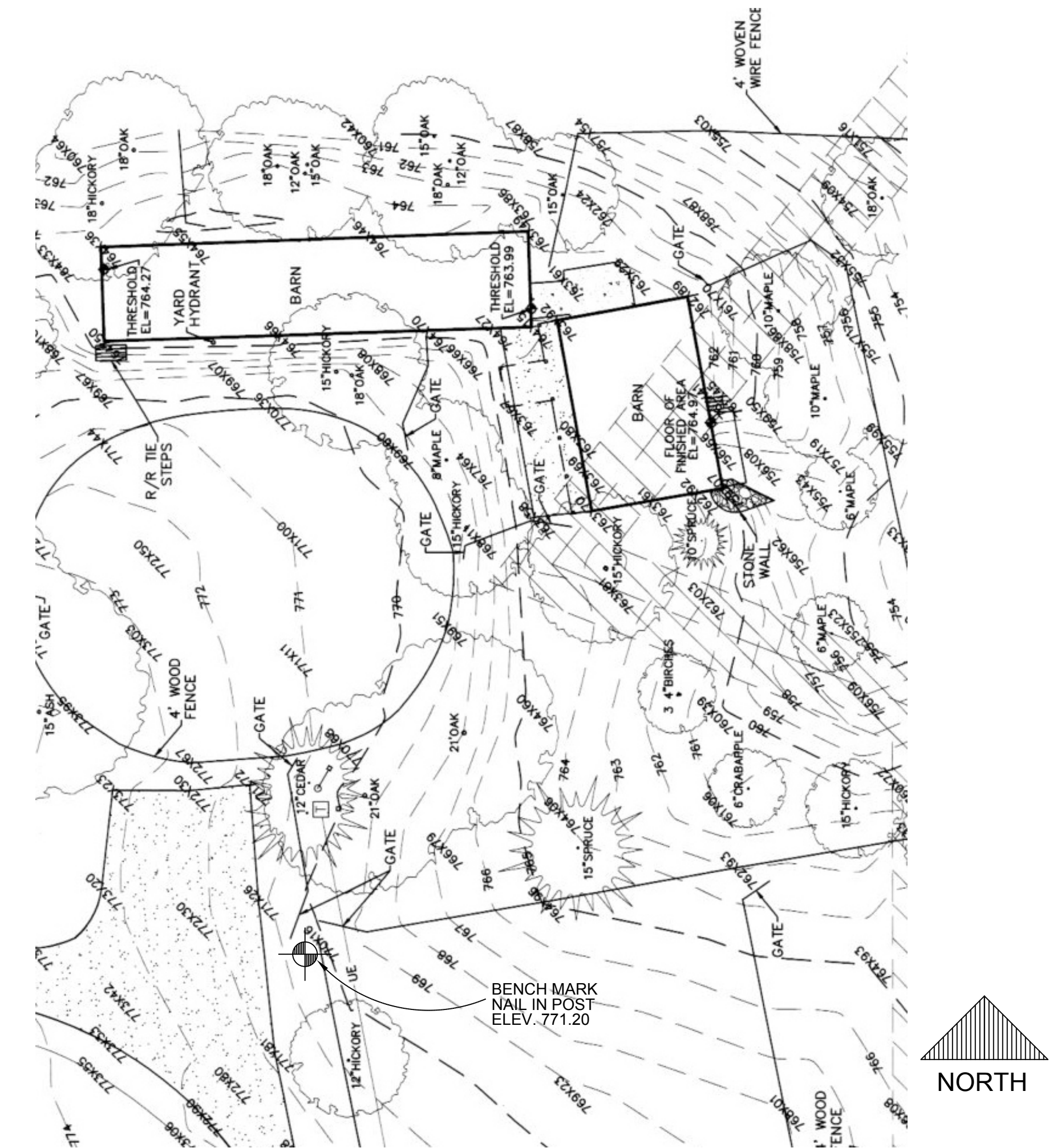
REMODEL AND ADAPTIVE REUSE OF
EXISTING BARN TO CREATE A WELCOME
CENTER AS A GATEWAY TO THE
SINGING WOODS NATURE PRESERVE.

PROJECT BID DATE

JULY 22, 2014

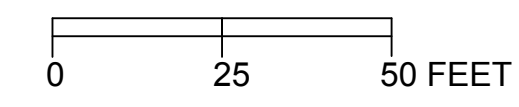


THIS PROJECT IS FUNDED, IN PART, BY AN OPEN SPACE LAND
ACQUISITION AND DEVELOPMENT (OSLAD) GRANT THROUGH THE
ILLINOIS DEPARTMENT OF NATURAL RESOURCES.



SITE - TOPO PLAN

PROVIDED BY ZUMWALT & ASSOC.



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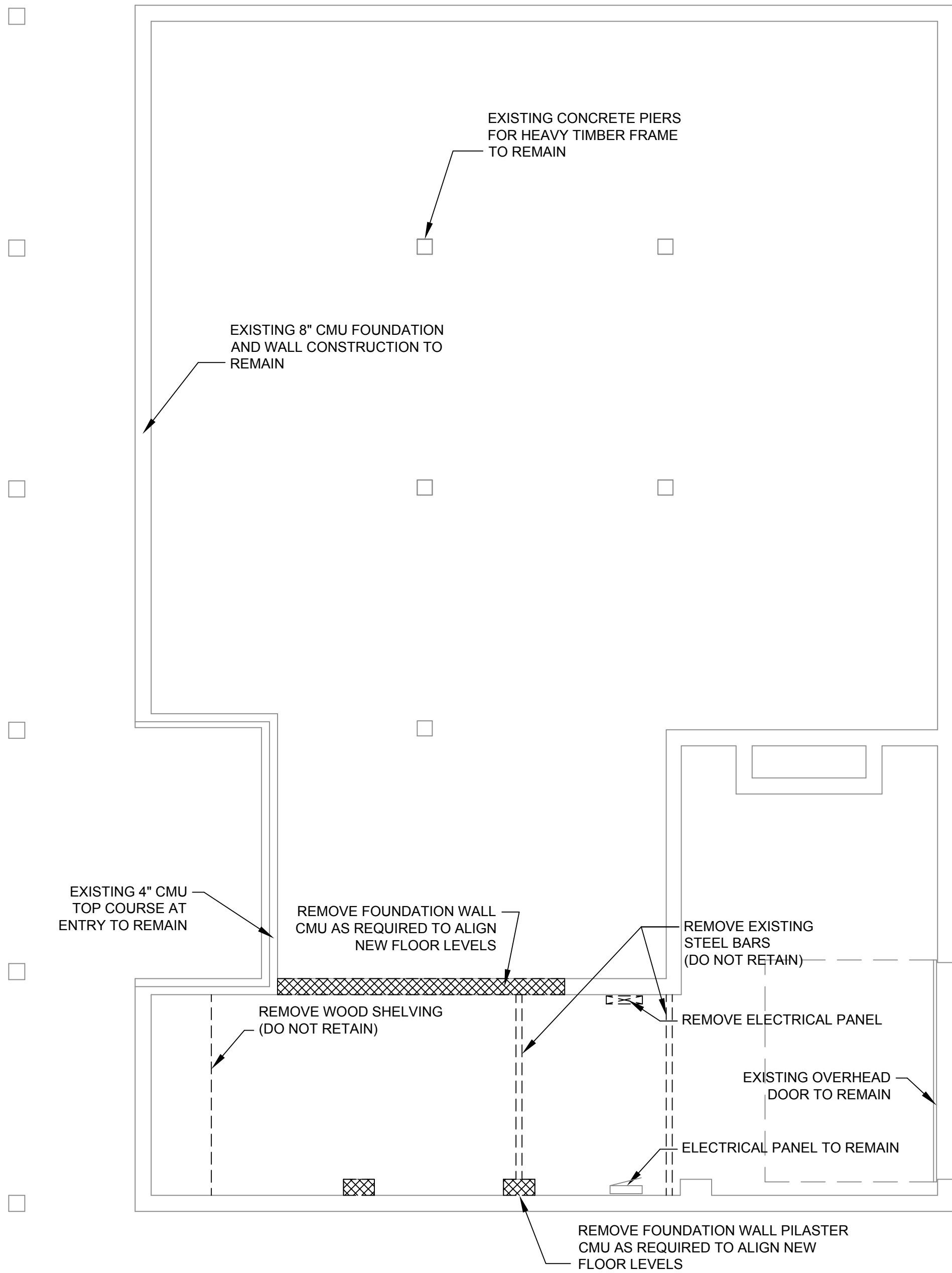
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GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF WOOD STRUCTURAL MEMBERS OR FACE OF CMU, UNLESS NOTED OTHERWISE.
3. ALL WOOD MEMBERS IN CONTACT WITH SOIL, CONCRETE SLAB OR FOUNDATION WALL SHALL BE PRESERVATIVE-TREATED WOOD IN CONFORMANCE WITH THE REQUIREMENTS OF AWPA STANDARDS U1 AND M4 FOR SPECIES, PRODUCT, PRESERVATIVE AND END-USE.
4. SEASONED WOOD FOR WOOD STUD WALLS (TYP. 16" OC) SHALL BE STUD OR STANDARD GRADE KD 19% OR LESS OF DOUGLAS-FIR/LARCH, HEM-FIR OR SPRUCE-PINE-FIR. FRAMING LUMBER FOR JOISTS, RAFTERS, BEAMS AND LINTELS SHALL BE NUMBER 2 OR BETTER GRADE KD 19% OR LESS WITH A MINIMUM Fb = 800 PSI OR GREATER, E = 1,000,000 PSI OR GREATER, BASE VALUE, OF DOUGLAS FIR/LARCH, HEM-FIR OR SPRUCE-PINE-FIR. ALL PLYWOOD SHALL BE APA GRADE STAMPED, TYPE CDX WITH EXTERIOR GLUE (NO ADDED UREA FORMALDEHYDE) RATED FOR SPACING AND EXPOSURE AS NOTED ON PLANS.
5. CONTRACTOR SHALL USE "SALVAGED" MATERIALS - THAT HAVE BEEN RETAINED ON SITE FOR OWNER DURING SELECTIVE DEMOLITION / DECONSTRUCTION - FOR INTERIOR FINISH MATERIALS ON SEAT WALLS, ACCENT WALL IN VESTIBULE AND BATHROOM LEDGES, WALLS AND CEILINGS AS NOTED ON PLANS. CONTRACTOR SHALL ALSO USE "SALVAGED" MATERIALS FOR EXTERIOR FINISHES AT NEW FRAMED IN AREAS OR REPAIRS AS NOTED AND WHEN AVAILABLE. "SALVAGED" MATERIAL WILL CONTAIN SIDING PREVIOUSLY INSTALLED INSIDE THE BUILDING. CONTRACTOR TO STAIN PATCHED EXTERIOR SIDING AREAS AS NECESSARY TO MATCH EXISTING, ADJACENT FINISH MATERIALS
6. CLOSED CELL SPRAY FOAM (FOAM IN PLACE) AND EXTRUDED POLYSTYRENE (XPS) INSULATION SHALL BE APPLIED TO ALL EXTERIOR CEILINGS, WALLS AND FLOORS SUFFICIENT TO MEET OR EXCEED IECC 2012 INSULATION REQUIREMENTS AS NOTED ON PLANS AND/OR IN SPECIFICATIONS. CONTRACTOR SHALL REMOVE ANY DUST, OIL OR DEBRIS FROM SURFACES TO BE INSULATED PRIOR TO INSULATING.
7. PENETRATIONS OR ATTACHMENTS TO NEW FLOORING SHALL BE COORDINATED IN ORDER TO AVOID ANY POTENTIAL DAMAGE TO THE HYDRONIC TUBING INSTALLED WITHIN CONCRETE SLABS AND WOOD SUBFLOORS. REPAIR OF ANY DAMAGE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. REQUIRED BUILDING SIGNAGE TO BE FURNISHED AND INSTALLED BY BUILDING OWNER.



BASEMENT PLAN - DEMOLITION

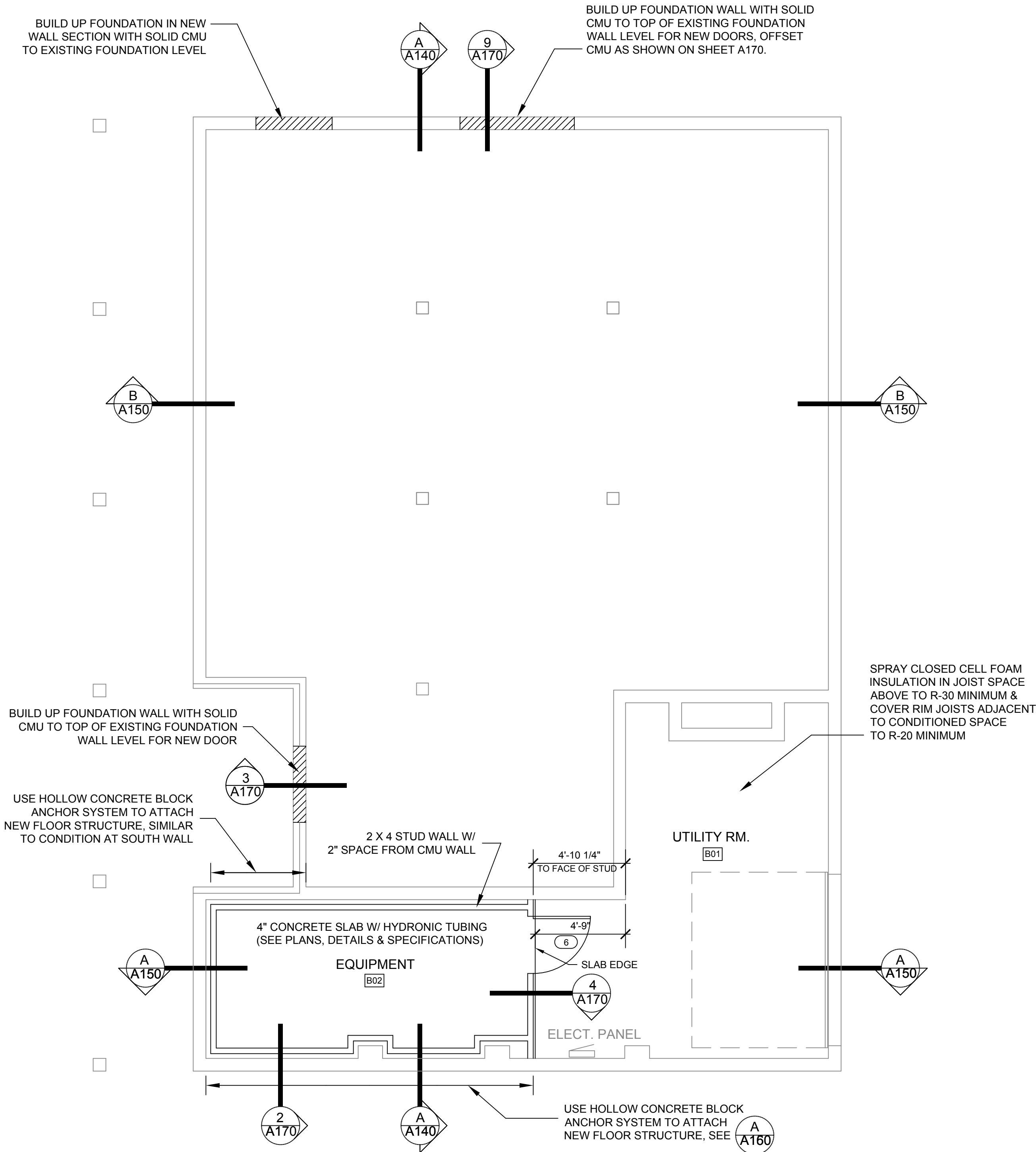
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISITING CONDITIONS PRIOR TO BID SUBMISSION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS TO THE ARCHITECT IN WRITING.
2. ALL ITEMS NOTED AS "RETAIN FOR OWNER" SHALL BE REMOVED OR DIS-ASSEMBLED IN A MANNER TO AVOID DAMAGE TO THE ITEM. RETAINED ITEMS SHALL BE STORED SAFELY ON SITE IN THE ADJACENT SHED. RETAINED ITEMS SHALL BE KEPT DRY AND FREE OF CONSTRUCTION DEBRIS. RETAINED WOOD FINISHES, SUCH AS 1X10 WHITE OAK AND 1X6 CEDAR BOARDS, SHALL BE DENAILED PRIOR TO STORAGE. ACCESS TO ADJACENT SHED WILL BE PROVIDED BY OWNER.
3. ALL DEMOLISHED OR REMOVED MATERIALS NOT TO BE RETAINED BY OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF AS REQUIRED BY LAW.
4. ALL DEMOLITION WORK SHALL BE COORDINATED WITH ALL NEW CONSTRUCTION WORK.
5. REFER TO ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION WORK TO BE COORDINATED BY CONTRACTOR.

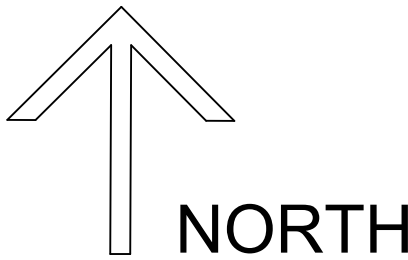
SHEET NOTES:

1. ALL CLOSED CELL, FOAM IN PLACE (SPRAY FOAM) INSULATION TO FORM A CONTINUOUS LAYER WITH ADJACENT MATERIALS AND INSULATION.
2. EXCAVATE AS REQUIRED FOR NEW CONCRETE SLAB, SUB-SLAB AND SLAB-EDGE INSULATION, COMPACTED GRANULAR FILL AND GRAVEL AT BASEMENT LEVEL.
3. REMOVE ALL EXISTING BATT INSULATION FROM FLOOR JOIST CAVITIES AND DISPOSE OF AS REQUIRED BY LAW. REMOVE CUT SOIL FROM SITE AND DISPOSE OF AS REQUIRED BY LAW. SEE CONSTRUCTION DETAILS ON SHEET A-170.
4. LAP ALL JOINTS IN UNDER-SLAB VAPOR BARRIER A MINIMUM OF 6 INCHES. LAP ENDS / TERMINATIONS UP FACE OF ADJACENT MATERIAL (TYPICALLY XPS) A MINIMUM OF 3 INCHES. SEAL ALL JOINTS AND TERMINATIONS WITH SHEATHING TAPE PER VAPOR BARRIER MANUFACTURERS SPECIFICATIONS.



BASEMENT PLAN - NEW CONSTRUCTION

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



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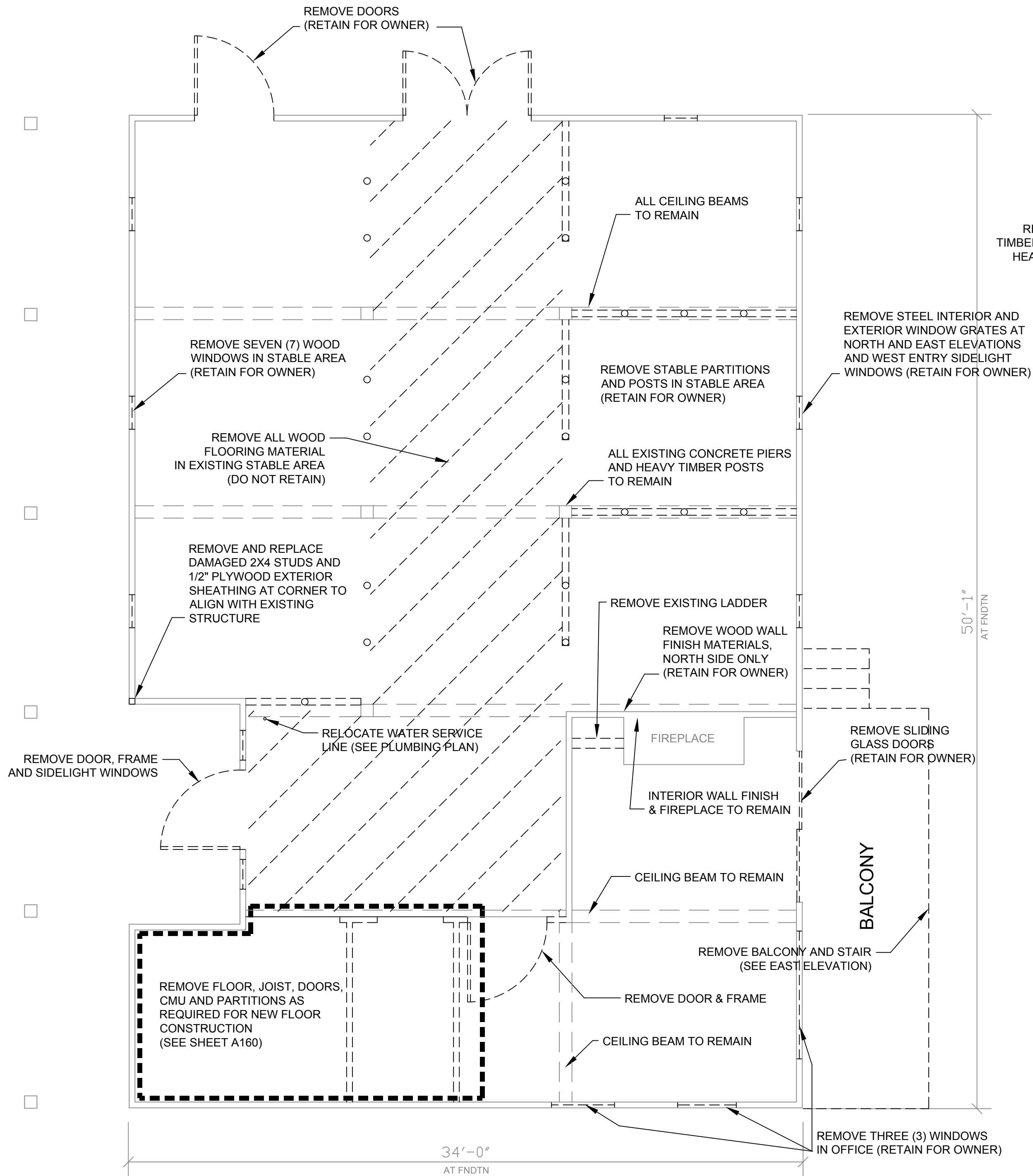
ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS

ISSUED FOR:
DATE 29 JUNE 14
FINAL REVIEW -- NOT FOR CONSTRUCTION
BID DOCUMENTS 22 JULY 14

SHEET
A-100
OF 8

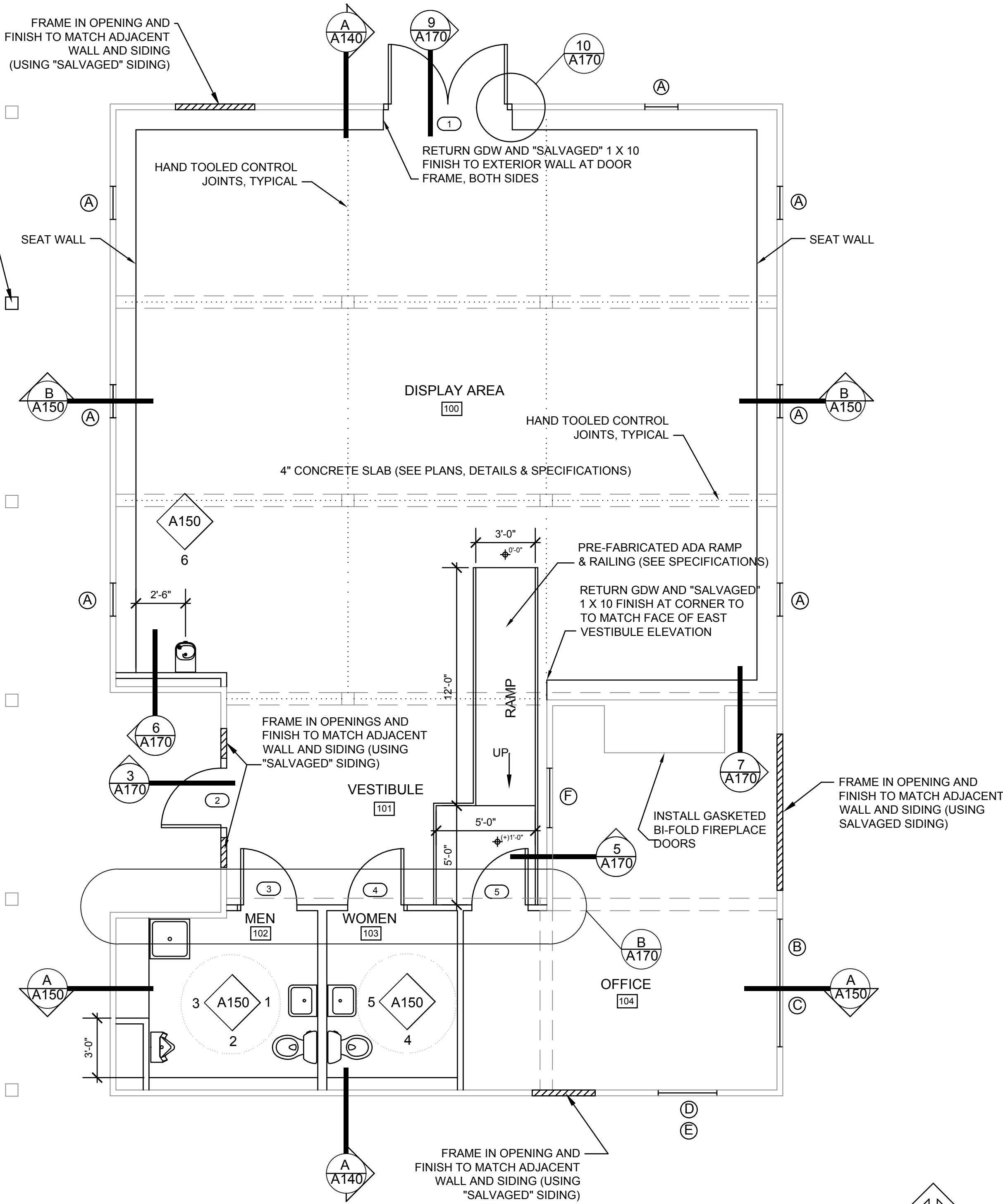
ROOM FINISH SCHEDULE									
ROOM #	ROOM NAME	FLOOR	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	BASE	CEILING	REMARKS
B01	UTILITY RM.	GRAVEL	--	--	--	SEE REMARKS	--	(2) 5/8" TYPE X GDW**	(2) 5/8" TYPE X GDW** ON WEST PARTITION WALL WITH LEVEL 2 FINISH; NO FINISH ON CMU WALLS
B02	EQUIPMENT	CONCRETE	5/8" TYPE X GDW**	5/8" TYPE X GDW**	5/8" TYPE X GDW**	5/8" TYPE X GDW**	--	(2) 5/8" TYPE X GDW**	LEVEL 2 FINISH ON ALL GDW
100	DISPLAY AREA	CONCRETE	5/8" TYPE X GDW	5/8" TYPE X GDW	5/8" TYPE X GDW	5/8" TYPE X GDW	--	5/8" TYPE X GDW	GDW CONTINUOUS OVER SEAT WALL FRAMING, SEE DETAILS 1 & 7 ON SHEET A-170
101	VESTIBULE	CONCRETE	--	5/8" TYPE X GDW	SEE REMARKS	5/8" TYPE X GDW	--	5/8" TYPE X GDW	1X10 SALVAGED WHITE OAK OVER 5/8" TYPE X GDW AT EAST WALL, SEE SHEET A-140 & DETAIL 5 ON A-170
102	MEN	QUARRY TILE	5/8" TYPE X GDW** & QUARRY TILE	5/8" TYPE X GDW**, QUARRY TILE & 2x6 T&G	5/8" TYPE X GDW**	5/8" TYPE X GDW**, QUARRY TILE & 2x6 T&G	QUARRY TILE	SALVAGED 2x6 T&G OVER 5/8" TYPE X GDW**	QUARRY TILE OVER 5/8" TYPE X GDW** TO 4'-0" A.F.F. AT FACE OF EXT. WALL PORTION OF NORTH WALL, WEST PLUMBING WALL & PART. SOUTH WALL; SALVAGED 2x6 T&G OVER 5/8" TYPE X GDW** AT RECESS OF SOUTH & WEST WALLS; SEE SHEETS A-140, A-150, A-160 & A-170
103	WOMEN	QUARRY TILE	5/8" TYPE X GDW**	5/8" TYPE X GDW**&2x6 T&G	5/8" TYPE X GDW**	5/8" TYPE X GDW**	QUARRY TILE	SALVAGED 2x6 T&G OVER 5/8" TYPE X GDW**	SALVAGED 2x6 T&G OVER 5/8" TYPE X GDW** AT RECESS OF S. WALL; SEE SHTS A-140, A-150, A-160 & A-170
104	OFFICE	WOOD	TO REMAIN AS IS	5/8" TYPE X GDW	5/8" TYPE X GDW	5/8" TYPE X GDW	1X4 CEDAR	3/4" X 2-1/4" WIDE PREFINISHED SOLID RED OAK T&G FLOORING; SALVAGED CEDAR FOR 1X4 BASE	
200	ACCESS AREA	--	SEE REMARKS	5/8" TYPE X GDW	--	5/8" TYPE X GDW	--	5/8" TYPE X GDW	5/8" TYPE X GDW ON NORTH WALL ABOVE ENTRY ENCLOSURE; LEVEL 2 FINISH ON ALL GDW

NOTES:
1. CONCRETE SLAB TO HAVE SMOOTH TROWELED FINISH (SEE SPECIFICATIONS) WITH HAND TOOLED CONTROL JOINTS AS LOCATED ON PLANS.
2. LEVEL 4 FINISH ON ALL GDW, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
3. 5/8" TYPE X DRYWALL DESIGNATED WITH A-*** SHALL BE "MOISTURE RESISTANT"; SEE SPECIFICATIONS.
4. QUARRY TILE SHALL BE 6X6X1/2" QUARRY TILE WALL BASE SHALL BE 6" HIGH. BULLNOSE QUARRY TILE SHALL BE USED TO TERMINATE OPEN TOP AND SIDE-FACING EDGES AT WALLS AND TO TRANSITION BETWEEN RESTROOMS AND VESTIBULE AT FLOORS. TILE COLOR SELECTED BY ARCHITECT. INSTALL QUARRY TILE PER MANUFACTURERS INSTRUCTIONS.
5. ONE (1) COAT PRIMER AND TWO (2) COATS PAINT SHALL BE PROVIDED ON ALL LEVEL 4 FINISH GDW. CONTRACTOR SHALL USE ZERO (0) VOC PRIMER AND PAINT. PAINT COLOR AND SHEEN SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE.
6. BELLAWOOD OR APPROVED EQUAL FOR 3/4" X 2-1/4" WIDE PREFINISHED SOLID RED OAK T&G FLOORING.



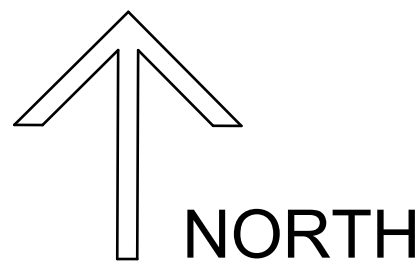
FIRST FLOOR PLAN - DEMOLITION

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



FIRST FLOOR PLAN - NEW CONSTRUCTION

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



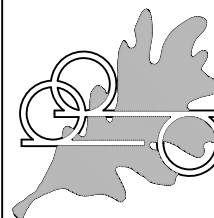
SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS. DIMENSIONS SHOWN FOR REFERENCE ONLY
2. CONTRACTOR TO SALVAGE AND RETAIN ALL WOOD DOORS AND WINDOWS REMOVED FOR OWNER.
3. REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS AND INTERIOR FACE OF EXTERIOR WALLS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
4. REMOVE ALL EXISTING BATT INSULATION FROM STUD WALL AND FLOOR JOIST CAVITIES AND DISPOSE OF AS REQUIRED BY LAW.
5. EXCAVATE AS REQUIRED FOR NEW CONCRETE SLAB, SUB-SLAB AND SLAB-EDGE INSULATION AND GRANULAR FILL AT FIRST LEVEL. REMOVE CUT SOIL FROM SITE AND DISPOSE OF AS REQUIRED BY LAW. SEE CONSTRUCTION DETAILS ON SHEET A-170.
6. PROVIDE EXPANSION JOINTS IN CONCRETE SLAB AROUND ALL EXISTING CONCRETE PIERS
7. PROVIDE TOOLED CONTROL JOINTS IN CONCRETE SLAB AS INDICATED ON ARCHITECTURAL DRAWINGS.
8. CONTRACTOR TO VERIFY ADA COMPLIANCE OF INSTALLED RAMP AND RAILING.
9. LAP ALL JOINTS IN UNDER-SLAB VAPOR BARRIER A MINIMUM OF 6 INCHES. LAP ENDS / TERMINATIONS UP FACE OF ADJACENT MATERIAL (TYPICALLY XPS) A MINIMUM OF 3 INCHES. SEAL ALL JOINTS AND TERMINATIONS WITH SHEATHING TAPE PER VAPOR BARRIER MANUFACTURERS SPECIFICATIONS.
10. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P-100 FOR PLUMBING FIXTURES AND SPECIFICATIONS FOR RESTROOM ACCESSORIES.

DATE ISSUED FOR:
29 JUNE 14 FINAL REVIEW -- NOT FOR CONSTRUCTION
22 JULY 14 BID DOCUMENTS

SHEET
A-110
OF 8

ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS



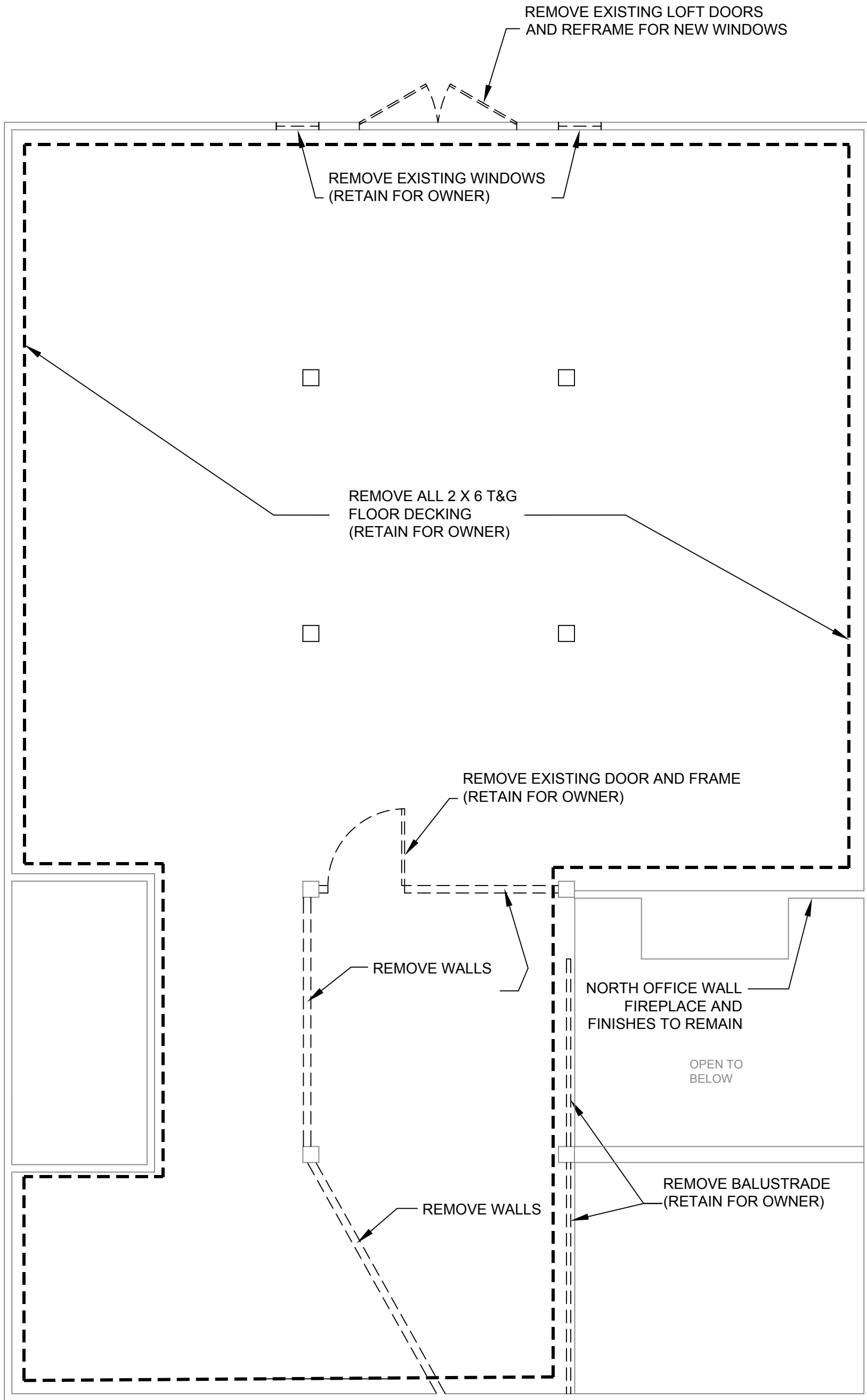
ANTHONY P. CORSO
ARCHITECT

PEORIA

ILLINOIS

DOOR SCHEDULE								
MARK	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FRAME	GLASS AREA	REMARKS
1	PR 3' - 0"	7' - 0"	1 3/4"	ENTRY	ALUMINUM, GLASS	ALUMINUM	15.7 SF	SEE SPECIFICATIONS
2	3' - 0"	7' - 0"	1 3/4"	ENTRY	ALUMINUM, GLASS	ALUMINUM	31.4 SF	SEE SPECIFICATIONS
3	2' - 10"	7' - 0"	1 3/4"	FLUSH	HOLLOW METAL	HM	--	SEE SPECIFICATIONS
4	2' - 10"	7' - 0"	1 3/4"	FLUSH	HOLLOW METAL	HM	--	SEE SPECIFICATIONS
5	2' - 10"	7' - 0"	1 3/4"	FLUSH	HOLLOW METAL	HM	--	SEE SPECIFICATIONS
6	3' - 0"	6' - 0"	1 3/4"	FLUSH	HOLLOW METAL	HM	--	3/4 HOUR FIRE RATED (C LABEL), SEE SPECIFICATIONS
7	3' - 0"	3' - 0"	16 GA	FLUSH	STEEL	STEEL	--	LOUVERED ACCESS DOOR, SCREW DRIVER LATCH

NOTES:
1. PROVIDE 1 X 4 CEDAR TRIM AROUND INTERIOR DOOR SURROUNDS AT ALUMINUM ENTRY DOORS. USE "SALVAGED" CEDAR PROVIDED BY OWNER AND CUT TO SIZE. STAIN CUT EDGES TO MATCH EXISTING AS NEEDED.
2. PROVIDE HEAD FLASHING AT ALL EXTERIOR DOORS.

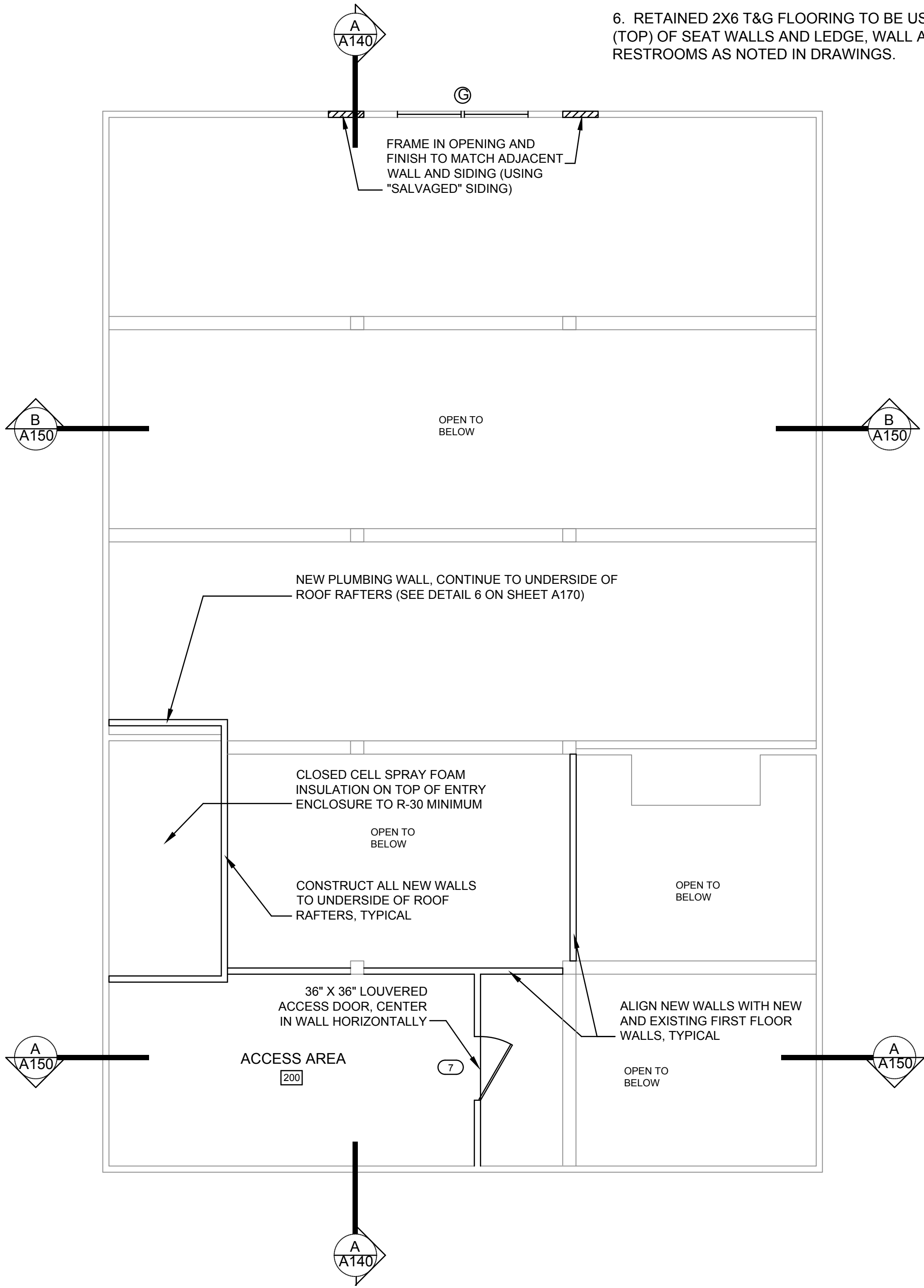


SECOND FLOOR PLAN - DEMOLITION

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

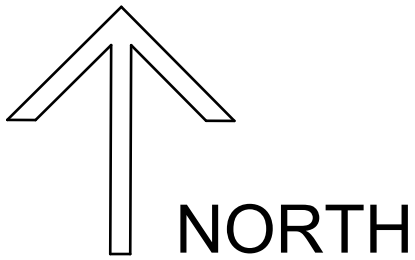
WINDOW SCHEDULE							
MARK	WIDTH	HEIGHT	TYPE	FRAME MATERIAL	GLASS AREA	VENT AREA	REMARKS
A	1' - 6"	3' - 0"	CASEMT	FIBERGLASS	2.5 SF	2.6 SF	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX
B	2' - 6"	3' - 0"	CASEMT	FIBERGLASS	5.0 SF	5.2 SF	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX
C	4' - 0"	3' - 0"	FIXED	FIBERGLASS	8.7 SF	N/A	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX
D	3' - 0"	4' - 6"	CASEMT	FIBERGLASS	10.0 SF	10.3 SF	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX
E	3' - 0"	3' - 0"	FIXED	FIBERGLASS	6.2 SF	N/A	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX
F	3' - 0"	3' - 0"	FIXED	FIBERGLASS	6.2 SF	N/A	INTERIOR, EXT. OF WINDOW TO FACE VESTIBULE
G	3' - 0"	3' - 0"	CASEMT	FIBERGLASS	6.2 SF	6.5 SF	ASSEMBLY - U-32 MAX, SHGC 4 MAX, 2 CFM/SF MAX

NOTES:
1. ALL EXTERIOR WINDOWS SHALL BE NFRC RATED AND MEET OR EXCEED IECC 2012 WINDOW ASSEMBLY PERFORMANCE REQUIREMENTS AS NOTED.
2. BASIS OF DESIGN IS PELLA IMPERVIA FIBERGLASS WINDOW SERIES. AN APPROVED EQUAL MAY BE USED.
3. WIDTHS AND HEIGHTS OF EXISTING WINDOW ROUGH OPENINGS LISTED ARE APPROXIMATE. VERIFY DIMENSIONS IN FIELD.
4. WINDOW FRAME COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE.
5. PROVIDE 1 X 4 CEDAR TRIM AROUND ALL INTERIOR WINDOW SURROUNDS, EXCEPT AT EAST WALL OF VESTIBULE. USE "SALVAGED" CEDAR PROVIDED BY OWNER AND CUT TO SIZE. STAIN CUT EDGES TO MATCH EXISTING AS NEEDED.
6. PROVIDE HEAD AND SILL FLASHING FOR ALL NEW CONSTRUCTION AND REPLACEMENT EXTERIOR WINDOWS.



SECOND FLOOR PLAN - NEW CONSTRUCTION

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



SHEET NOTES:

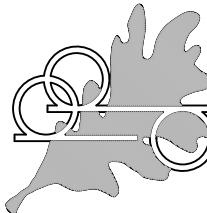
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3. REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS AND INTERIOR FACE OF EXTERIOR WALLS AND CEILINGS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
4. REMOVE ALL EXISTING BATT INSULATION FROM ROOF RAFTER AND STUD WALL CAVITIES AND DISPOSE OF AS REQUIRED BY LAW.
5. ALL CLOSED CELL, FOAM IN PLACE (SPRAY FOAM) INSULATION TO FORM A CONTINUOUS LAYER WITH ADJACENT MATERIALS AND INSULATION.
6. RETAINED 2X8 T&G FLOORING TO BE USED FOR SEAT SURFACE (TOP) OF SEAT WALLS AND LEDGE, WALL AND CEILING FINISH IN RESTROOMS AS NOTED IN DRAWINGS.

DATE
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FOR CONSTRUCTION
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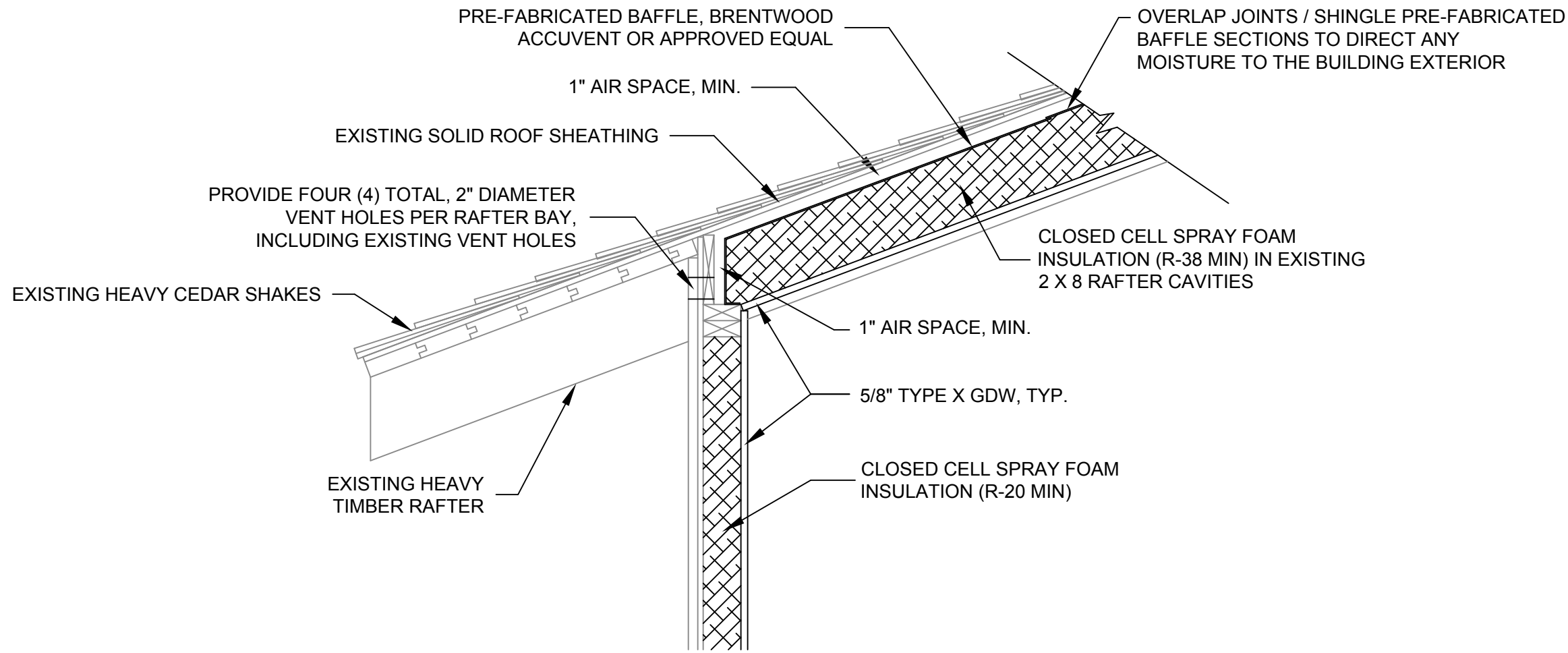
SHEET
A-120
OF 8

ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS



ANTHONY P. CORSO
ARCHITECT

ILLINOIS
PEORIA

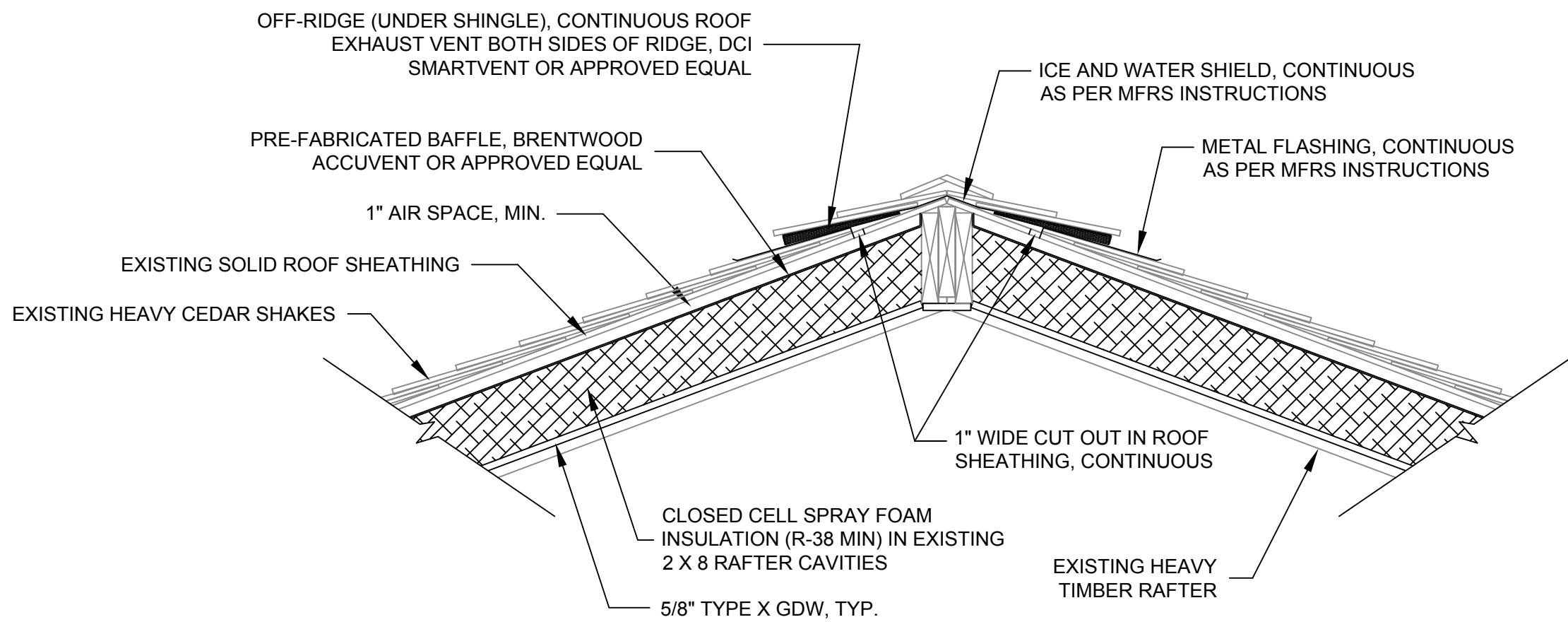


DETAIL NOTES:
1. INTAKE VENTS SHALL PROVIDE 10 SQUARE INCHES MINIMUM OF FREE VENT AREA PER RAFTER BAY.
2. PROVIDE ALUMINUM INSECT SCREEN AT INTERIOR FACE OF 2" DIAMETER VENT HOLES.
3. WEST CANOPY NOT SHOWN.

1

WALL INTAKE ROOF VENT

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



DETAIL NOTES:
1. EXHAUST VENTS SHALL PROVIDE 10 SQUARE INCHES MINIMUM OF FREE VENT AREA PER RAFTER BAY.
2. INSTALL OFF-RIDGE ROOF VENT PER MANUFACTURERS INSTRUCTIONS.
3. 1" WIDE CUT OUT TO BEGIN 12" FROM EACH GABLE END. USE ROOF VENT MFRS END CAP TO CONTINUE RIDGE ROOF FINISH DETAILS TO GABLE ENDS.
4. USE ONLY STAINLESS STEEL (TYPE 304 OR 316) OR HOT DIP GLAVANIZED FASTENERS ON CEDAR SHAKES. DO NOT USE ELECTRO-GALVANIZED FASTENERS.

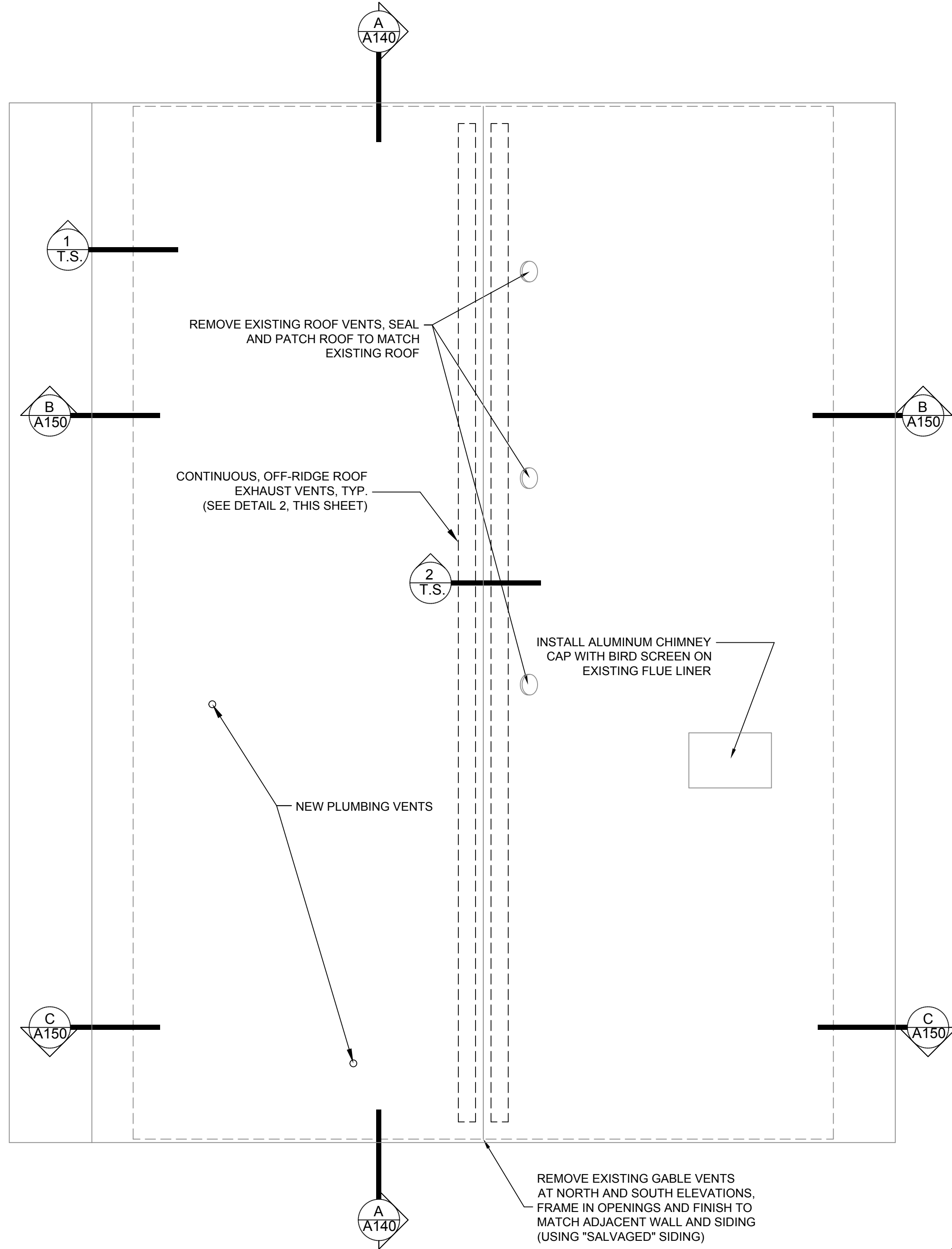
2

OFF-RIDGE EXHAUST ROOF VENT

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

SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD. DIMENSIONS AND CONDITIONS SHOWN FOR REFERENCE ONLY
2. REMOVE ALL EXISTING BATT INSULATION FROM ROOF RAFTER AND STUD WALL CAVITIES AND DISPOSE OF AS REQUIRED BY LAW.
3. ALL CLOSED CELL, FOAM IN PLACE (SPRAY FOAM) INSULATION TO FORM A CONTINUOUS LAYER WITH ADJACENT MATERIALS AND INSULATION.
4. USE ONLY STAINLESS STEEL (TYPE 304 OR 316) OR HOT DIP GLAVANIZED FASTENERS ON CEDAR SHAKES. DO NOT USE ELECTRO-GALVANIZED FASTENERS.
5. CHIMNEY (RAIN) CAP SHALL PROVIDE A NET FREE AREA UNDER THE CAP OF NO LESS THAN 4 TIMES THE NET FREE AREA OF THE FLUE BEING SERVED.



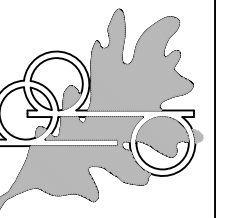
ROOF PLAN

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

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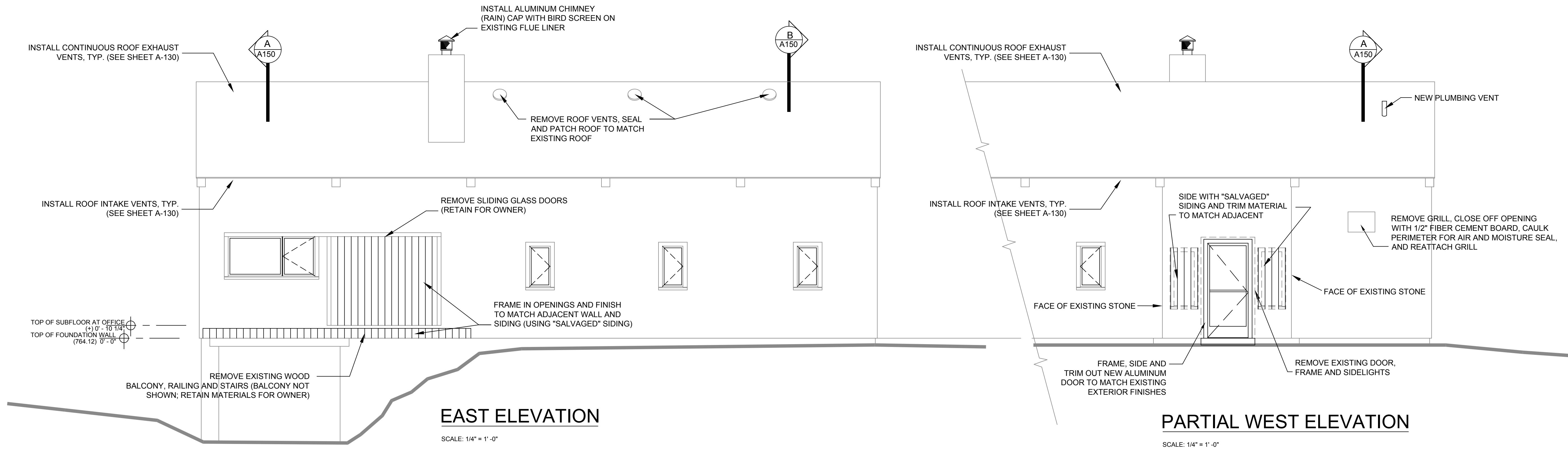
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EDELSTEIN, ILLINOIS

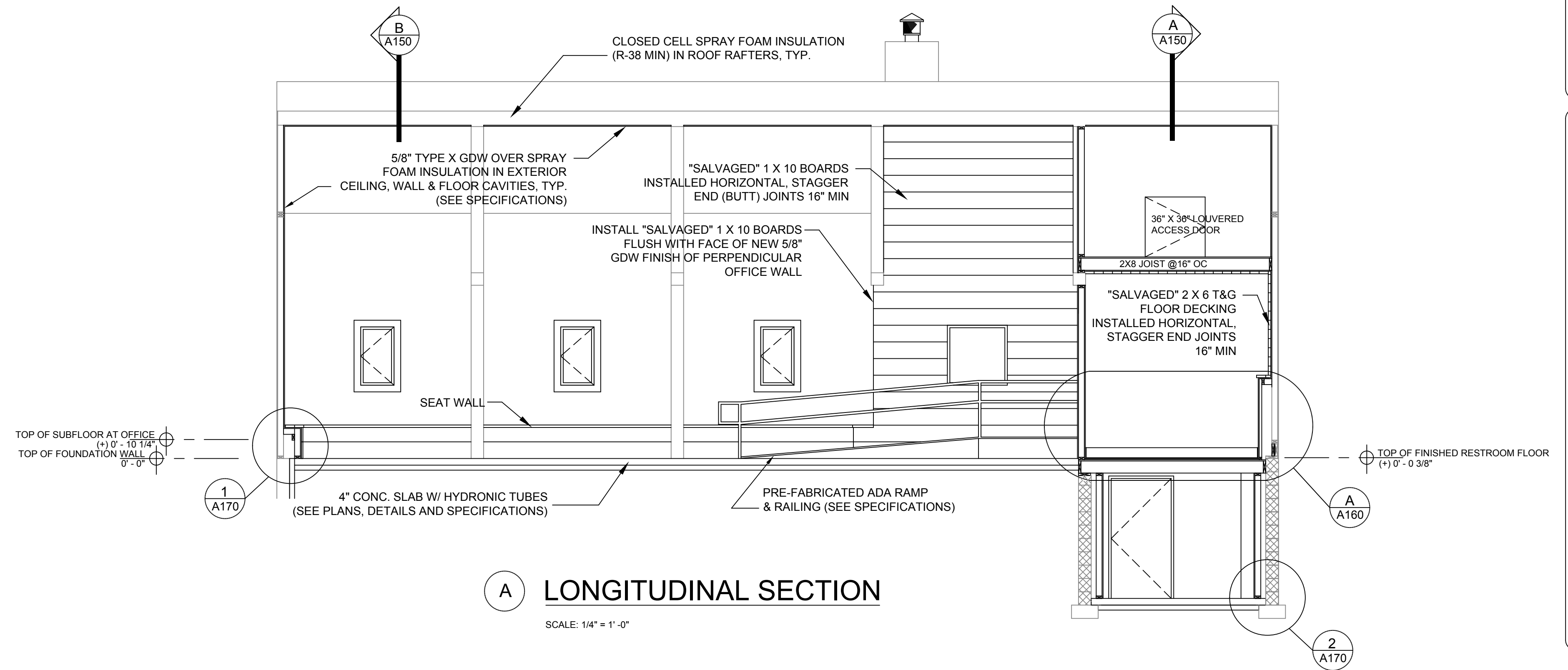
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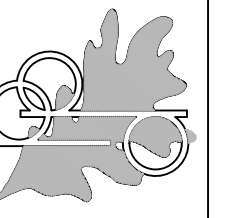


SHEET NOTES:

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2. CONTRACTOR TO SALVAGE AND RETAIN ALL WOOD DOORS AND WINDOWS REMOVED FOR OWNER.
3. REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS AND INTERIOR FACE OF EXTERIOR WALLS AND CEILINGS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
4. REMOVE ALL EXISTING BATT INSULATION FROM ROOF RAFTER AND STUD WALL CAVITIES AND DISPOSE OF AS REQUIRED BY LAW.
5. CONTRACTOR TO VERIFY ADA COMPLIANCE OF INSTALLED RAMP AND RAILING.
6. USE ONLY STAINLESS STEEL (TYPE 304 OR 316) OR HOT DIP GLAVANIZED FASTENERS ON CEDAR SHAKES AND BOARD SIDING. DO NOT USE ELECTRO-GALVANIZED FASTENERS.
7. CHIMNEY (RAIN) CAP SHALL PROVIDE A NET FREE AREA UNDER THE CAP OF NO LESS THAN 4 TIMES THE NET FREE AREA OF THE FLUE BEING SERVED.



ANTHONY P. CORSO
ARCHITECT
PEORIA
ILLINOIS



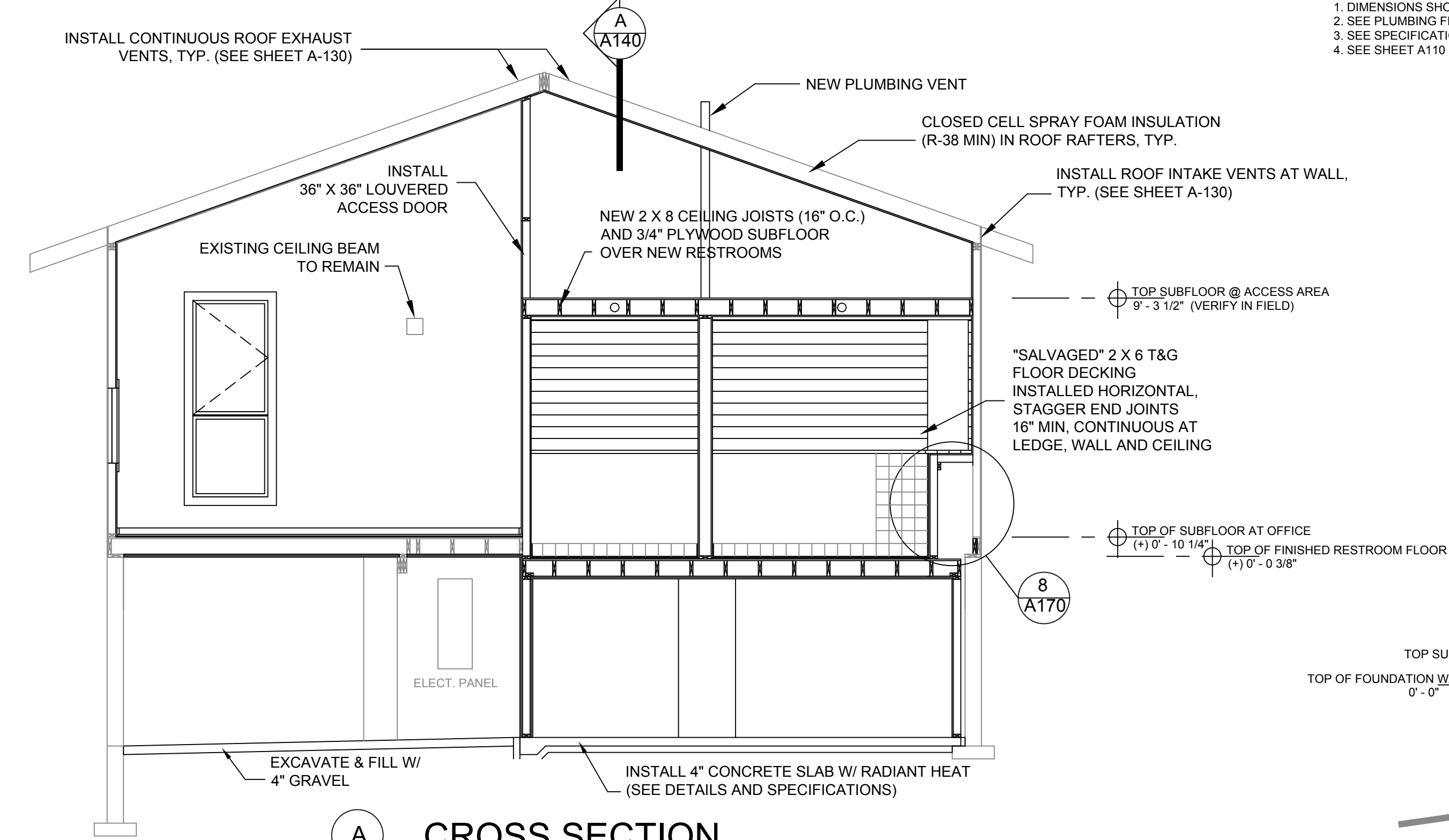
ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS

DATE ISSUED FOR:
29 JUNE 14 FINAL REVIEW -- NOT FOR CONSTRUCTION
22 JULY 14 BID DOCUMENTS

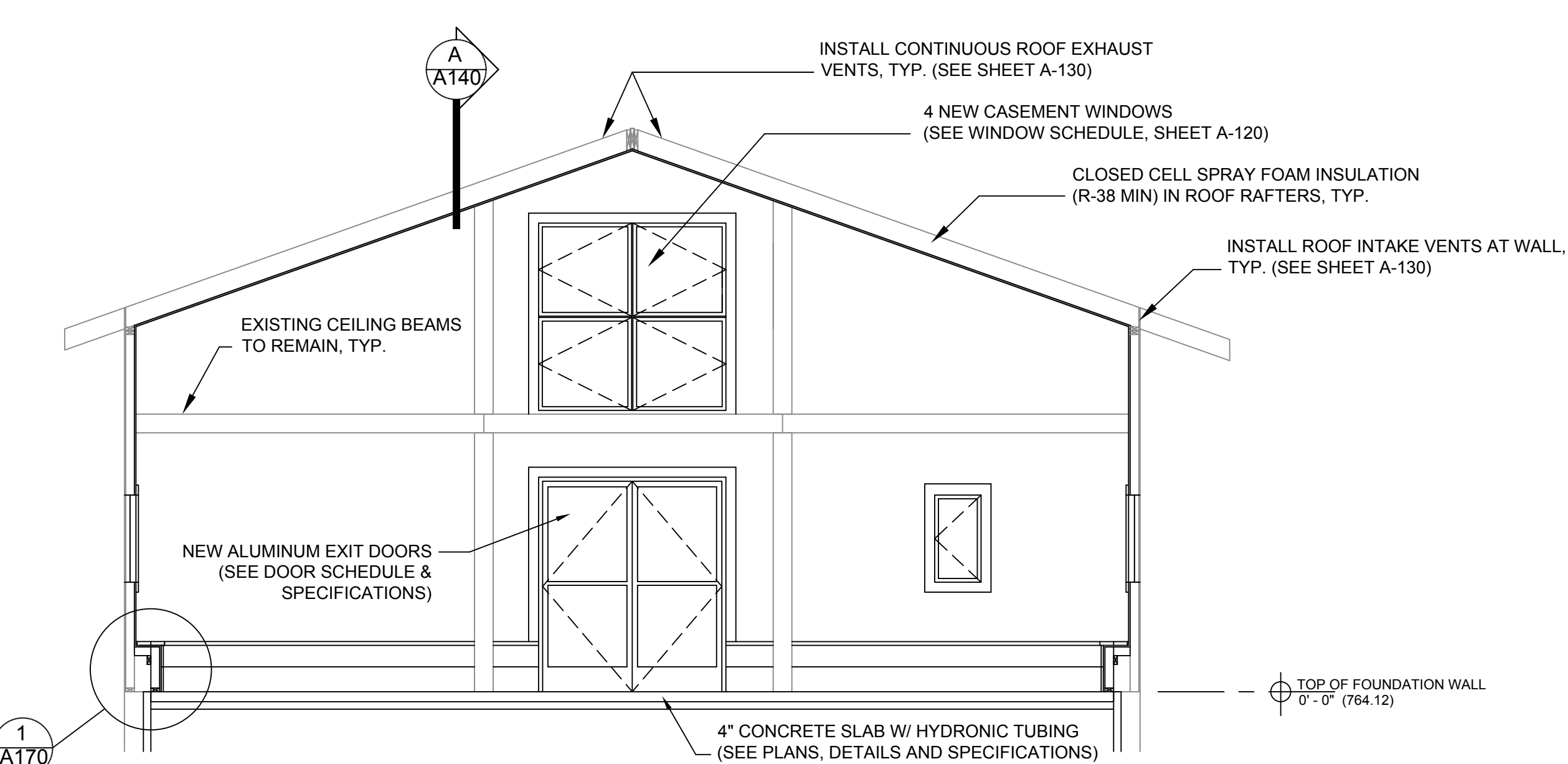
SHEET
A-140
OF 8

SHEET NOTES:

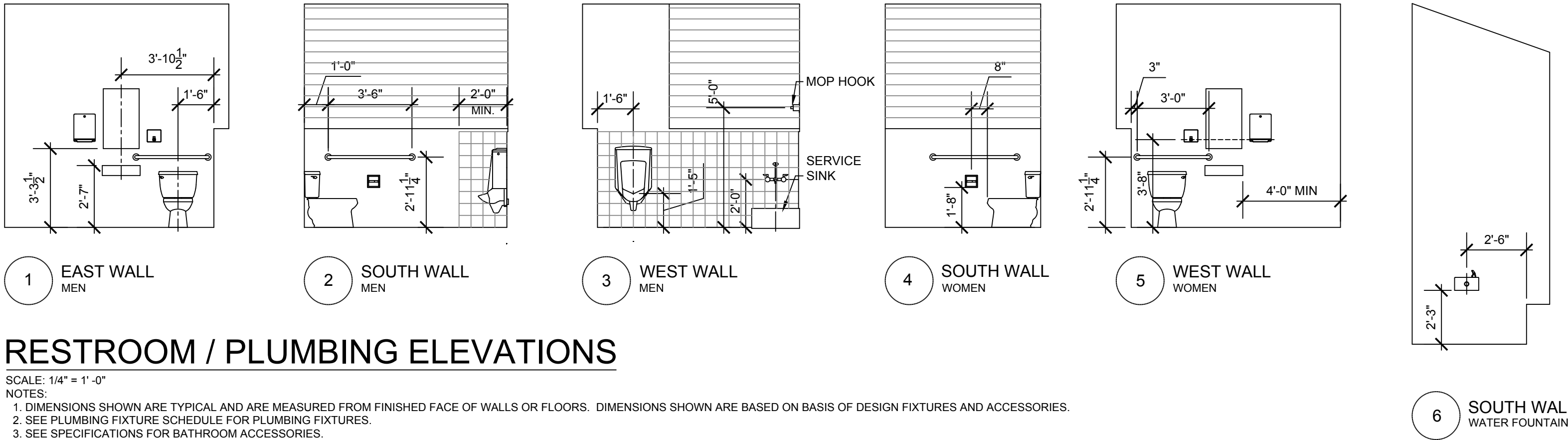
- 1. CONTRACTOR TO SALVAGE AND RETAIN ALL WOOD DOORS AND WINDOWS REMOVED FOR OWNER.
- 2. REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS AND INTERIOR FACE OF EXTERIOR WALLS AND CEILINGS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
- 3. REMOVE ALL EXISTING BATT INSULATION FROM ROOF RAFTER AND STUD WALL CAVITIES AND DISPOSE OF AS REQUIRED BY LAW..
- 4. CONTRACTOR TO USE "SALVAGED" MATERIALS THAT HAVE BEEN RETAINED ON SITE FOR OWNER TO FINISH NEW FRAMED IN AREAS OR REPAIRS, AS NOTED AND WHEN AVAILABLE.
- 5. CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING FOR MOUNTING URINAL, WATER FOUNTAIN / BOTTLE FILLER AND ALL LAVATORY SINKS AND GRAB BARS.
- 6. USE ONLY STAINLESS STEEL (TYPE 304 OR 316) OR HOT DIP GLAVANIZED FASTENERS ON CEDAR SHAKES OR BOARD SIDING. DO NOT USE ELECTRO-GALVANIZED FASTENERS.
- 7. CHIMNEY (RAIN) CAP SHALL PROVIDE A NET FREE AREA UNDER THE CAP OF NO LESS THAN 4 TIMES THE NET FREE AREA OF THE FLUE BEING SERVED.



A CROSS SECTION
SCALE: 1/4" = 1'-0"

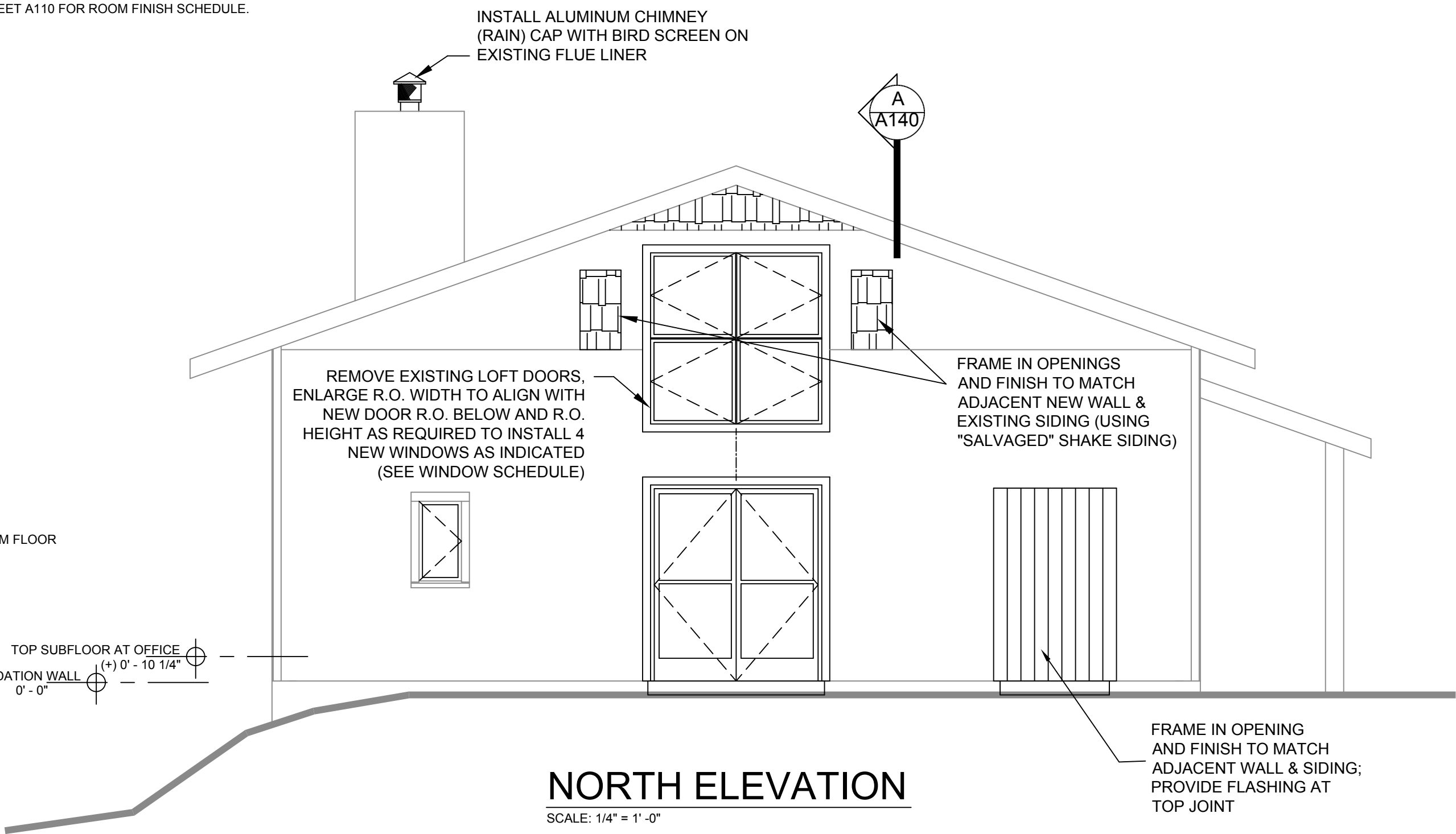


B CROSS SECTION
SCALE: 1/4" = 1'-0"



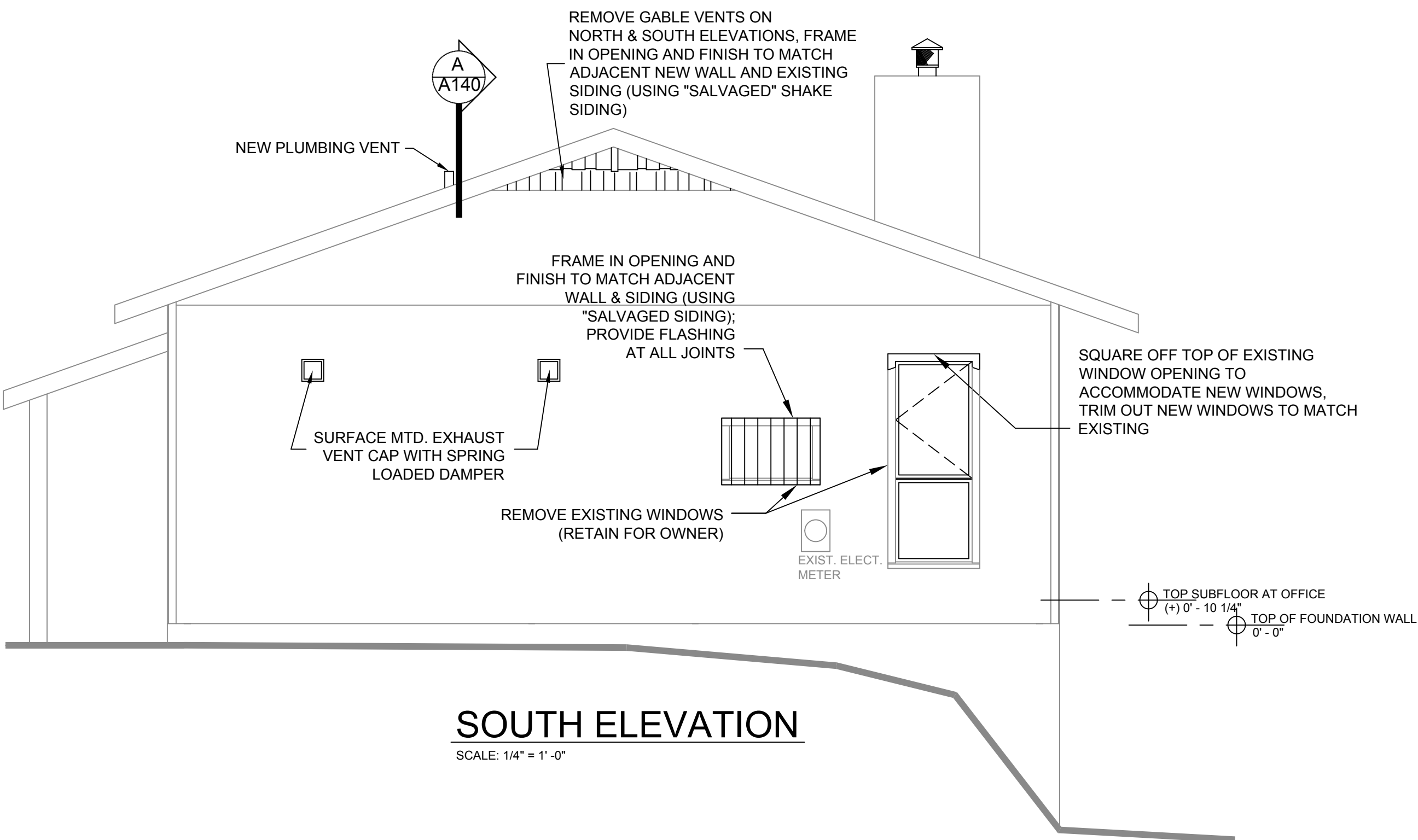
RESTROOM / PLUMBING ELEVATIONS

SCALE: 1/4" = 1'-0"
NOTES:
1. DIMENSIONS SHOWN ARE TYPICAL AND ARE MEASURED FROM FINISHED FACE OF WALLS OR FLOORS. DIMENSIONS SHOWN ARE BASED ON BASIS OF DESIGN FIXTURES AND ACCESSORIES.
2. SEE PLUMBING FIXTURE SCHEDULE FOR PLUMBING FIXTURES.
3. SEE SPECIFICATIONS FOR BATHROOM ACCESSORIES.
4. SEE SHEET A110 FOR ROOM FINISH SCHEDULE.



NORTH ELEVATION

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



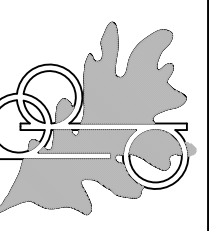
SOUTH ELEVATION

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

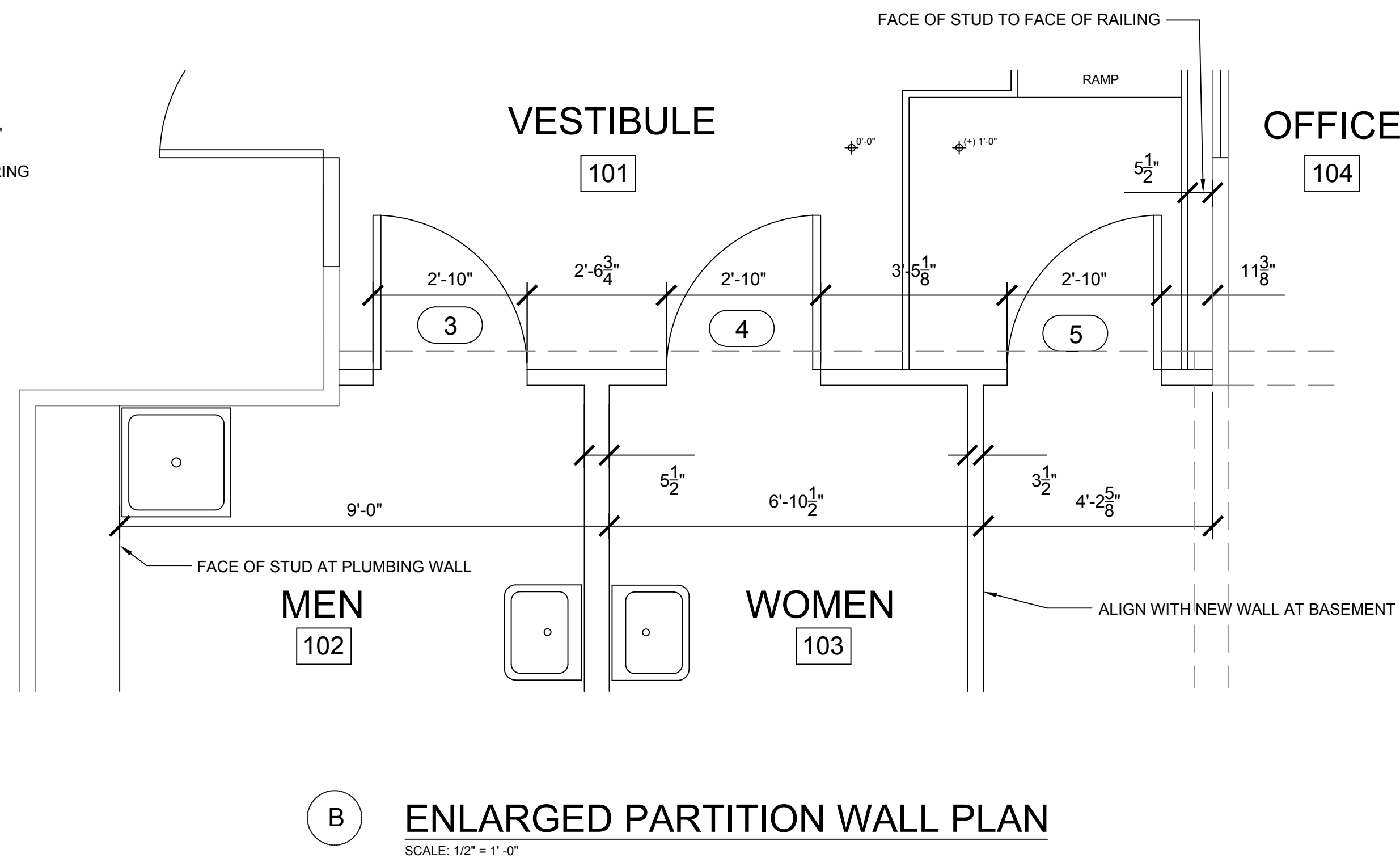
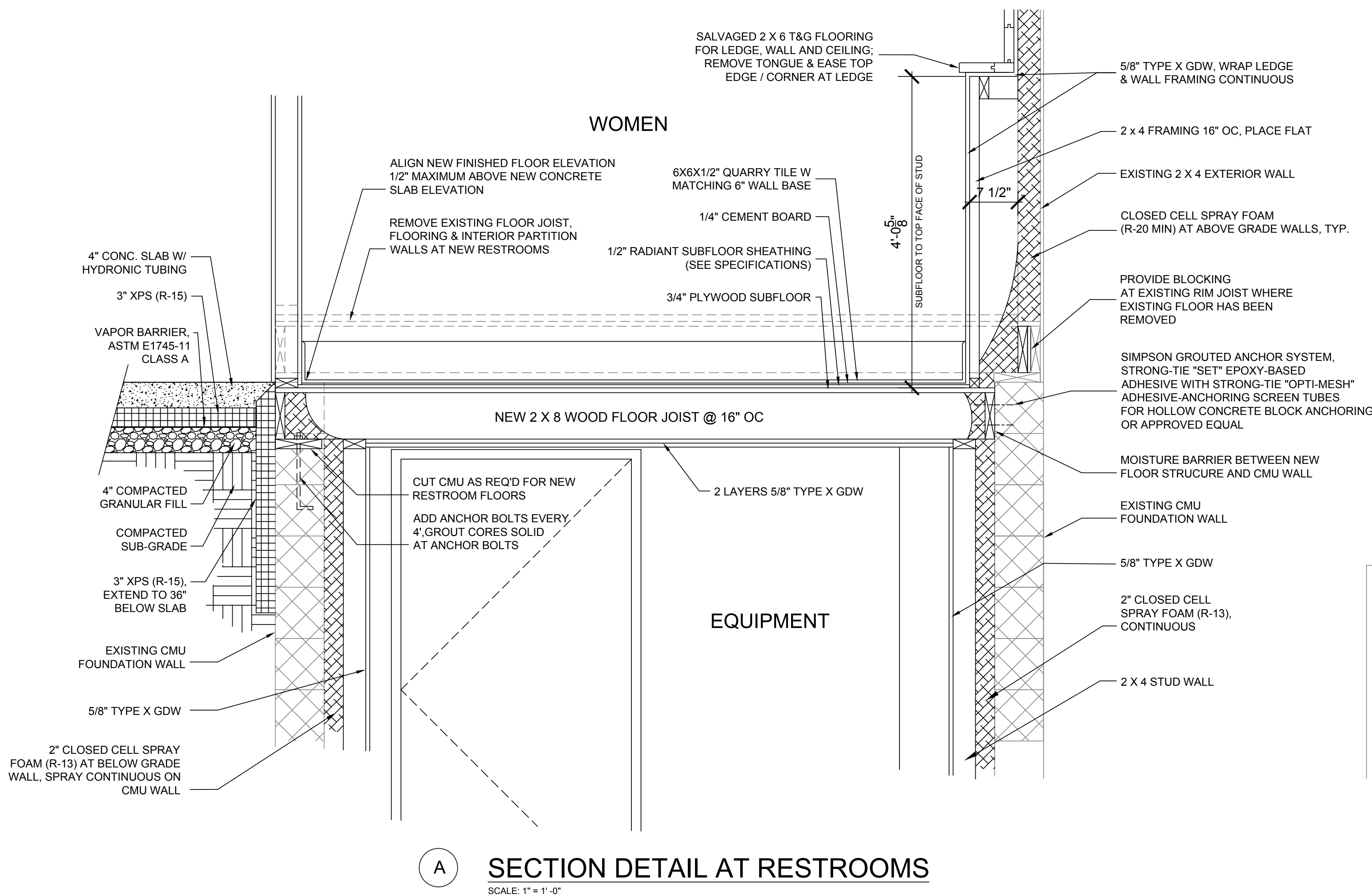
DATE ISSUED FOR: 29 JUNE 14 FINAL REVIEW -- NOT FOR CONSTRUCTION 22 JULY 14 BID DOCUMENTS

SHEET
A-150
OF 8

ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
PEORIA, ILLINOIS



ANTHONY P. CORSO
ARCHITECT
PEORIA ILLINOIS



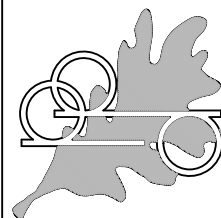
SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS. DIMENSIONS SHOWN FOR REFERENCE ONLY.
2. REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS, CEILINGS AND FLOORS AND ON INTERIOR FACE OF EXTERIOR WALLS AND CEILINGS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
3. REMOVE ALL BATT INSULATION FROM EXTERIOR WALL CAVITIES PRIOR TO INSULATING.

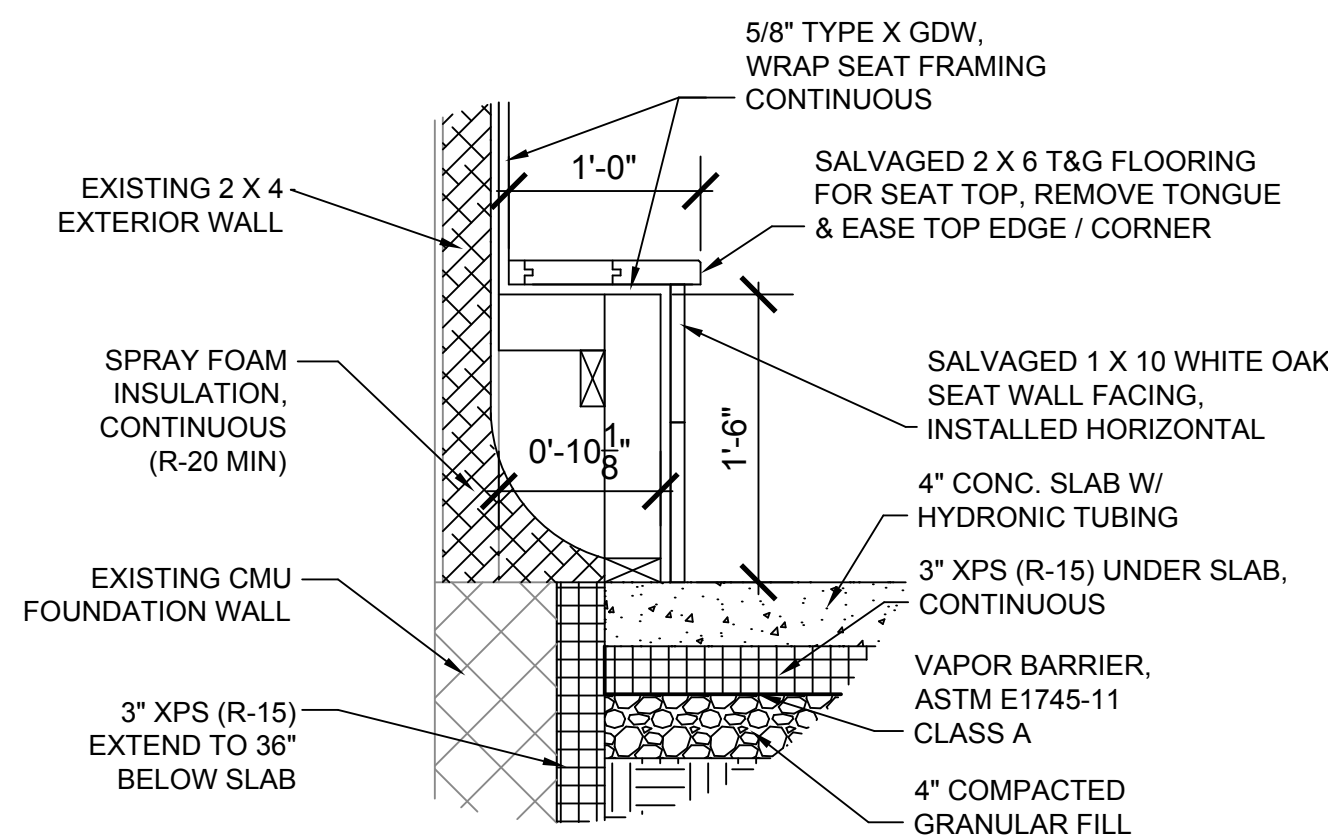
DATE: 29 JUNE 14
ISSUED FOR: FINAL REVIEW
22 JULY 14
FOR: CONSTRUCTION
NOT FOR: BID DOCUMENTS

SHEET
A-160
OF 8

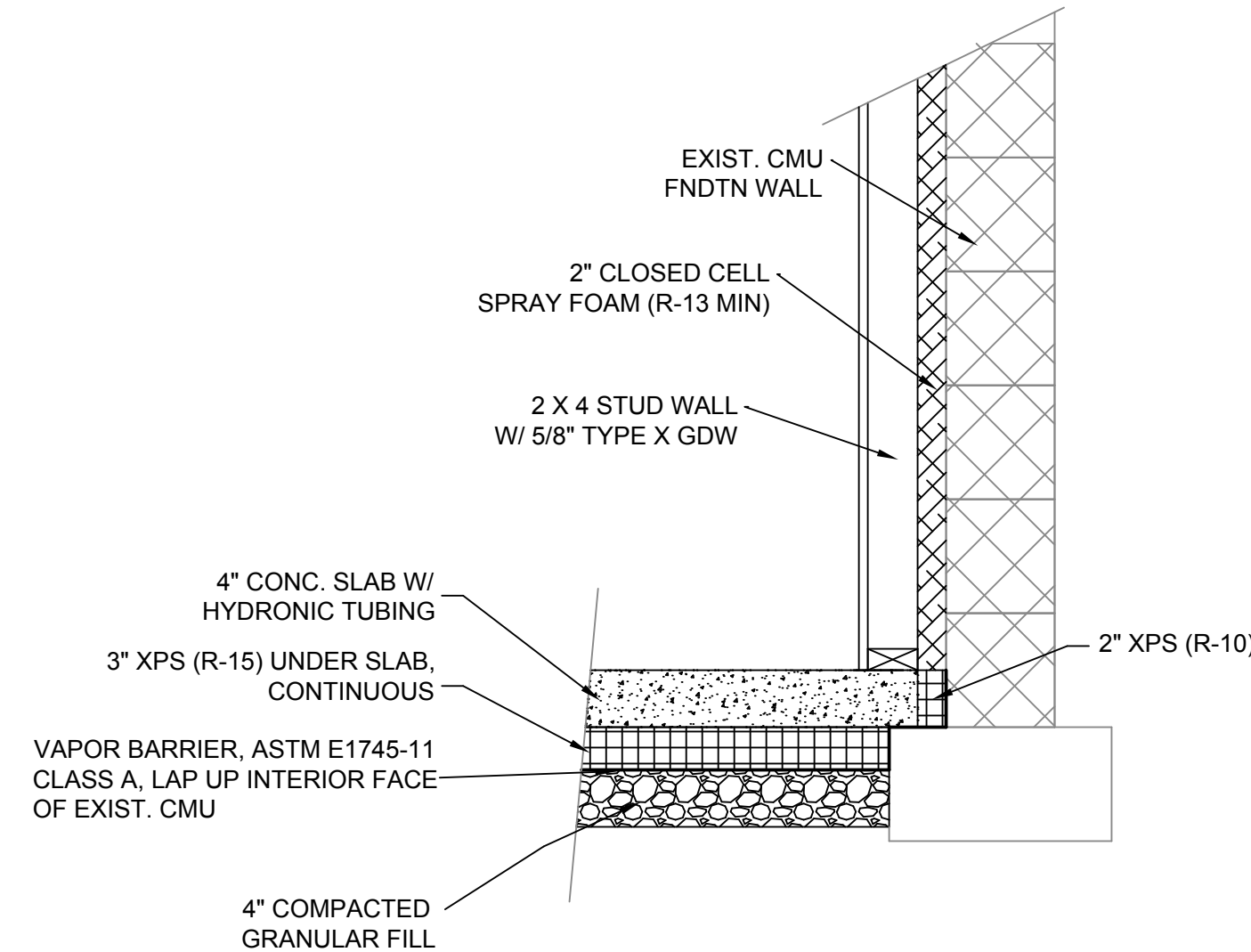
ADAPTIVE REUSE FOR:
**PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER**
715 W. SINGING WOODS RD.
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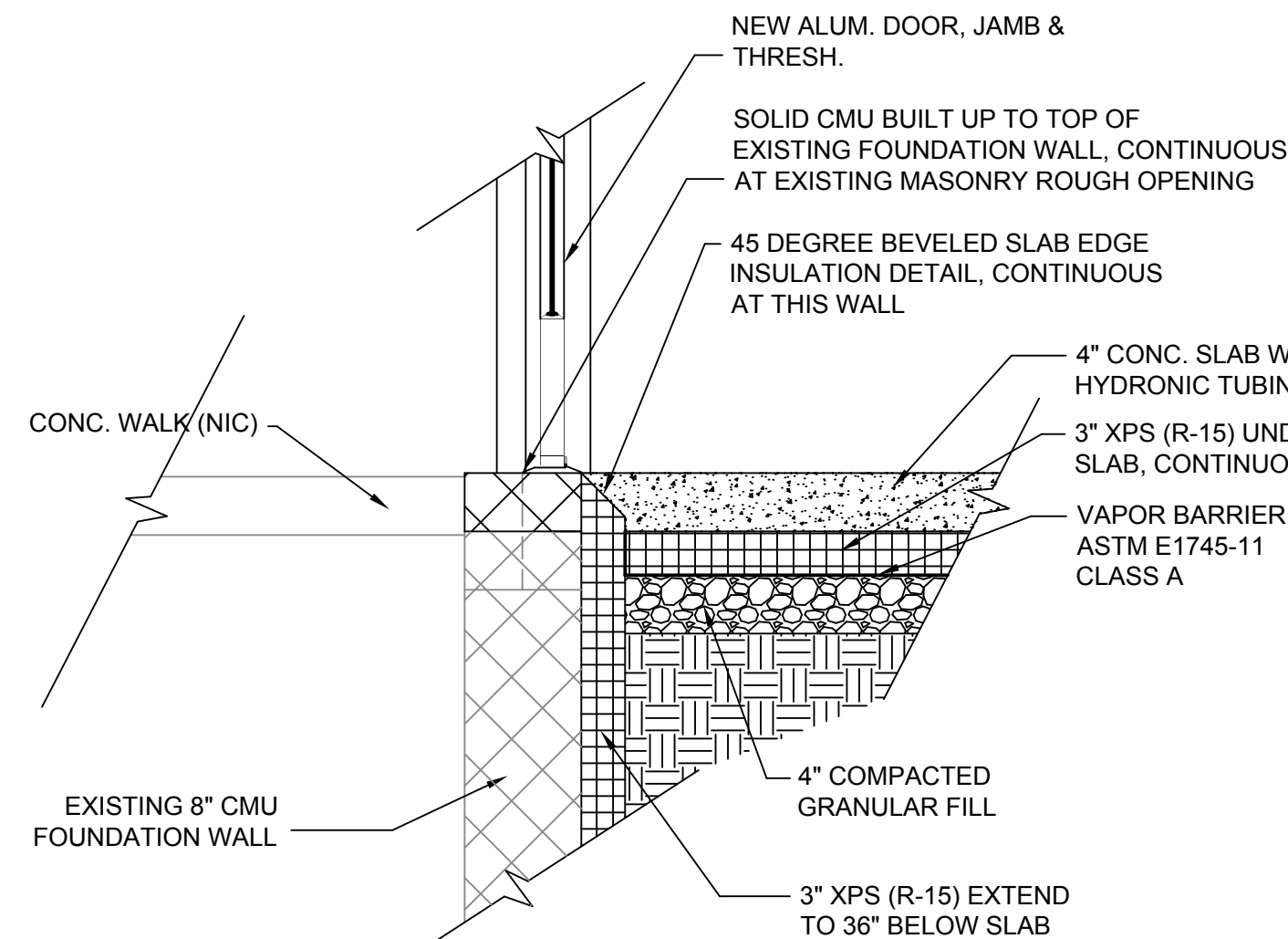
ANTHONY P. CORSO
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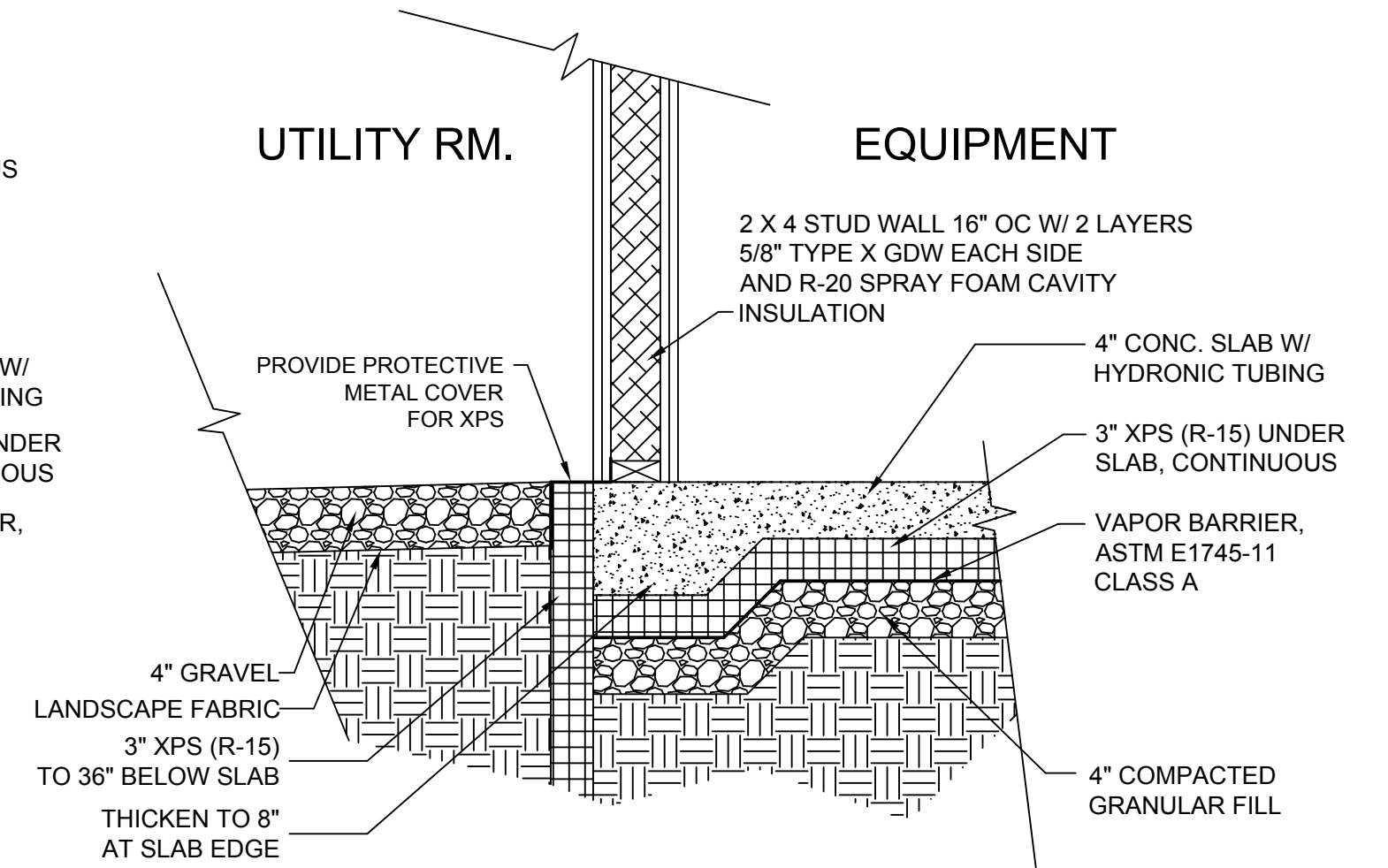
1 SEAT WALL AT EXTERIOR WALL
SCALE: 1" = 1'-0"



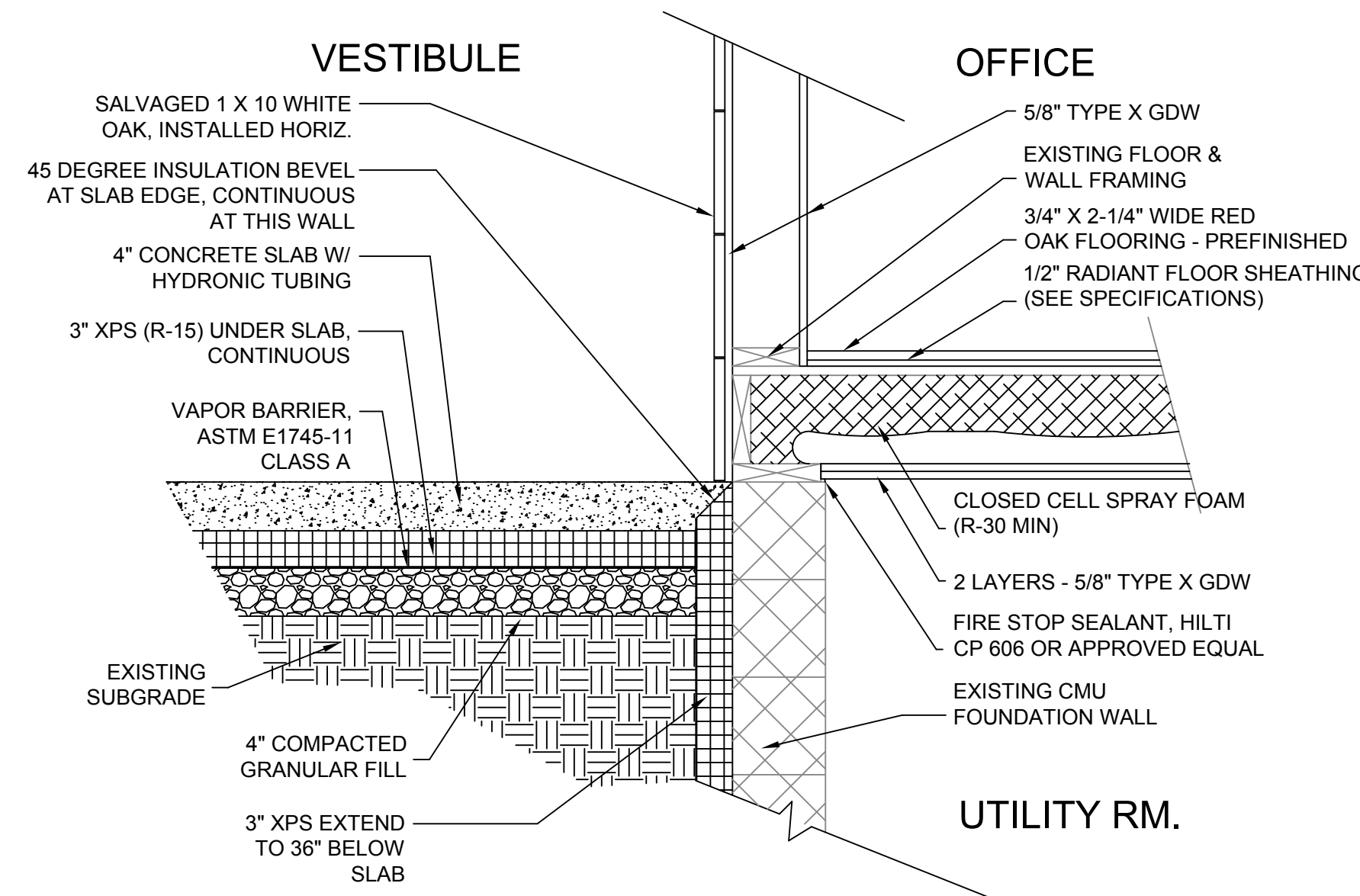
2 BASEMENT SLAB & WALL DETAIL
SCALE: 1" = 1'-0"



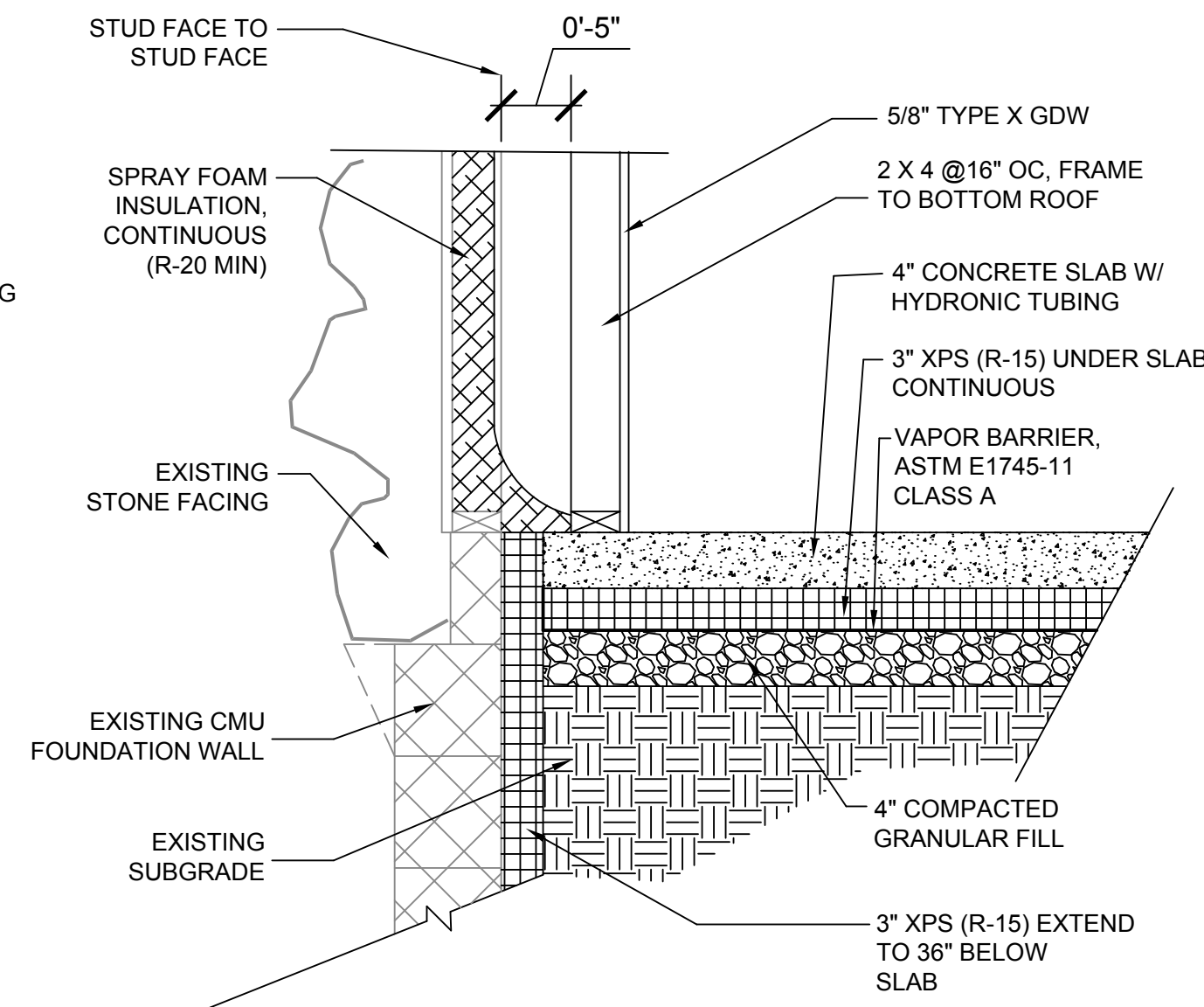
3 SILL DETAIL AT DOOR #2
SCALE: 1" = 1'-0"



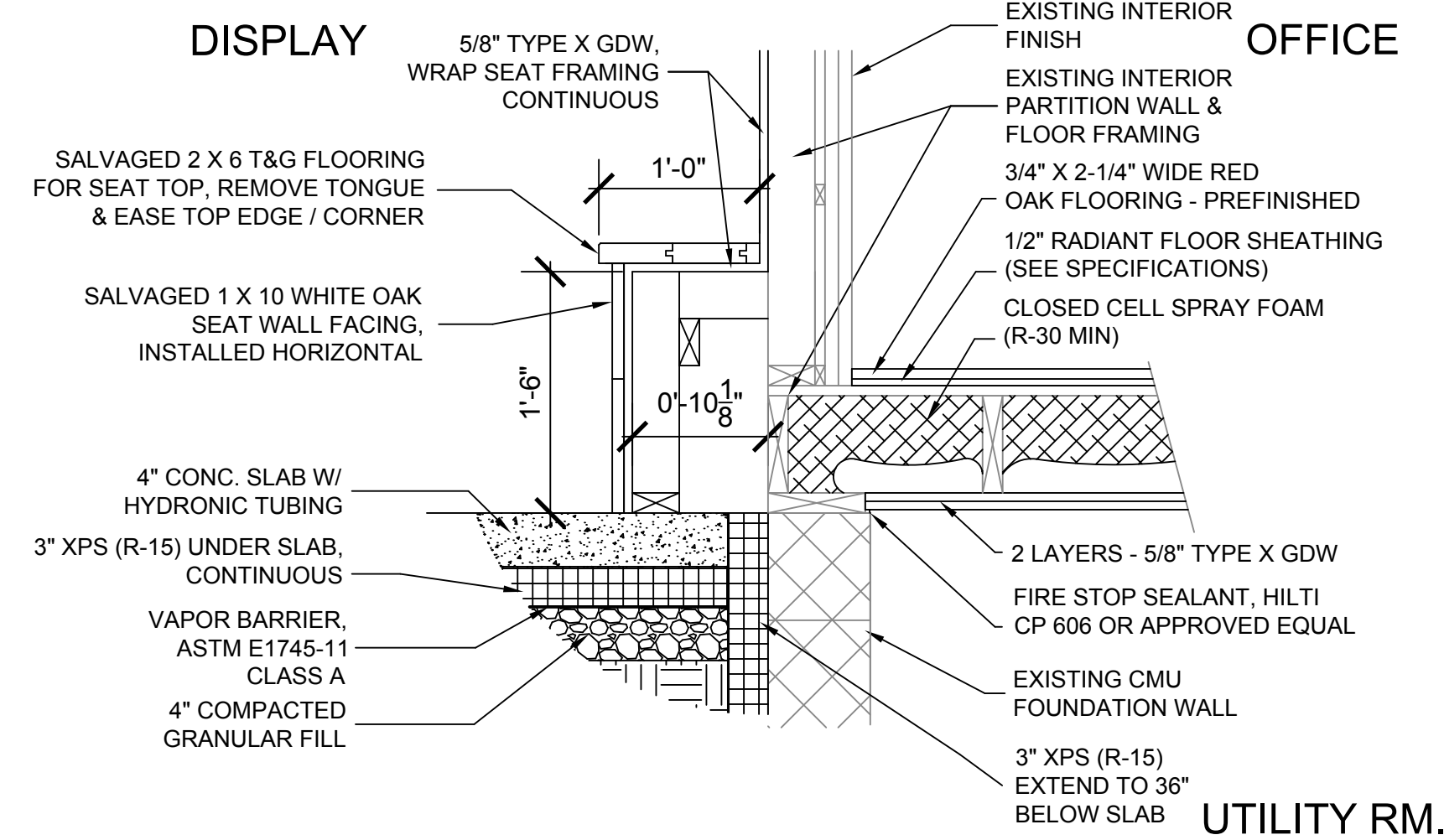
4 SLAB EDGE DETAIL AT BASEMENT
SCALE: 1" = 1'-0"



5 DETAIL AT VESTIBULE/OFFICE
SCALE: 1" = 1'-0"



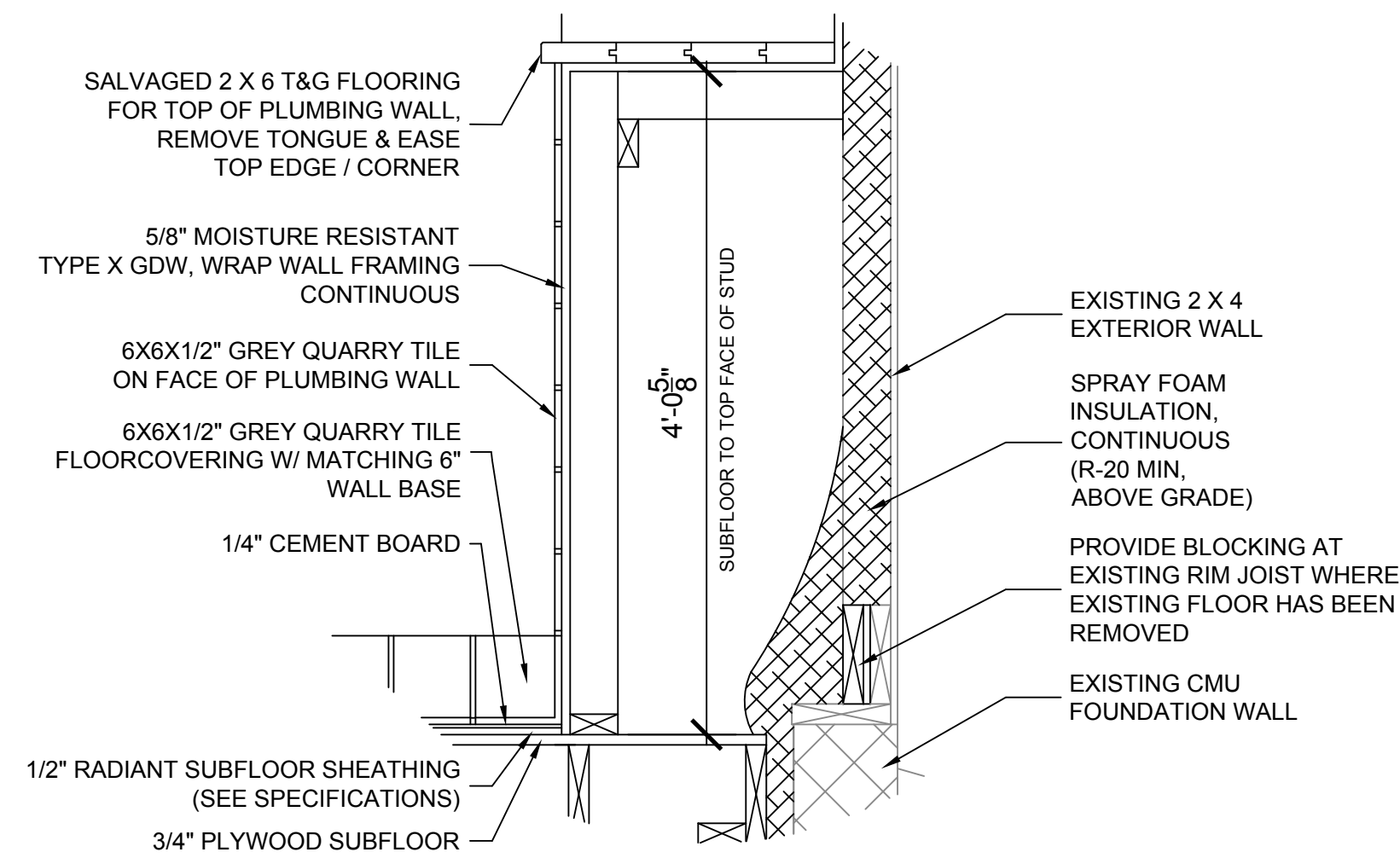
6 WATER FOUNTAIN PLUMBING WALL
SCALE: 1" = 1'-0"



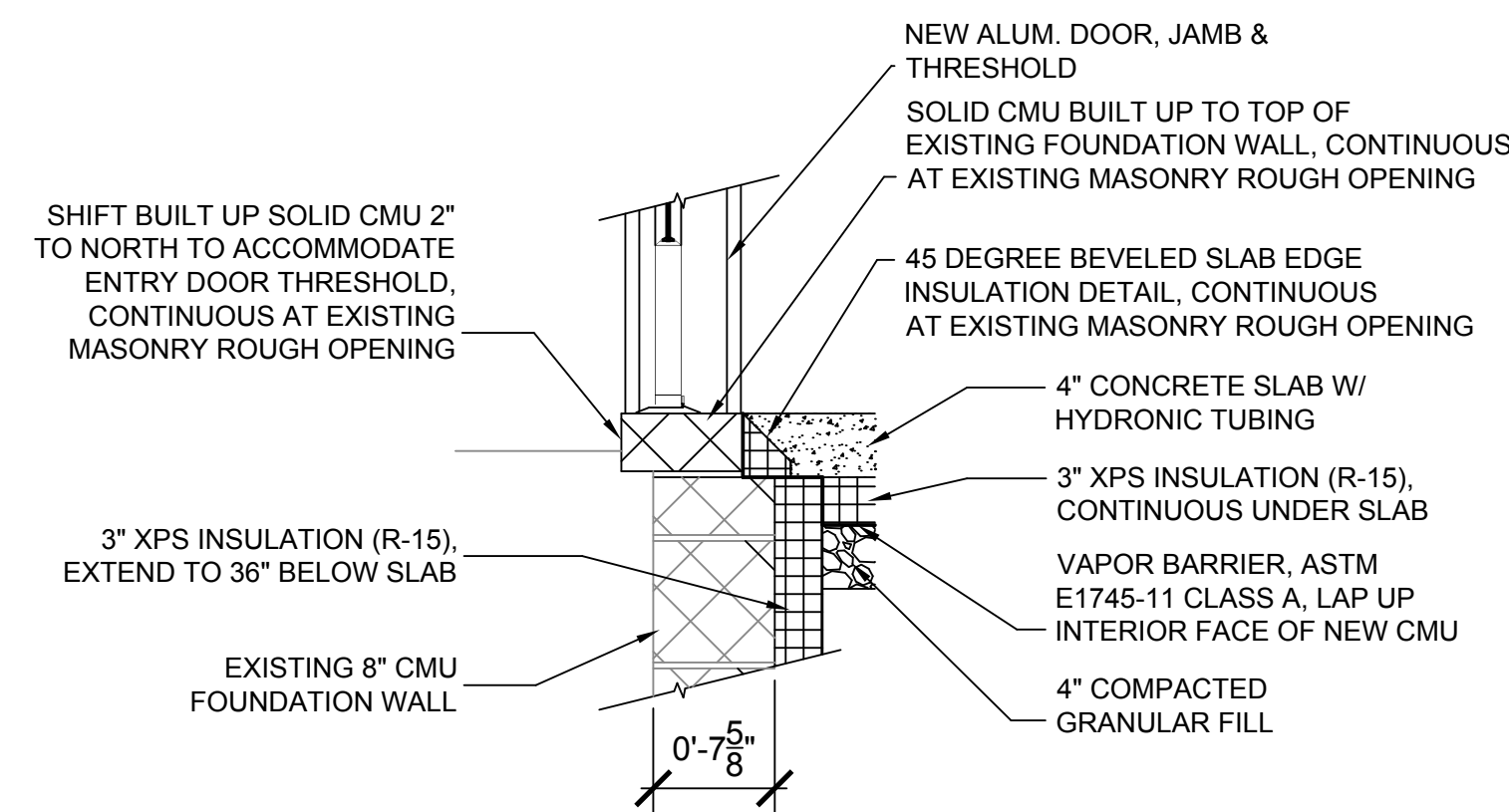
7 SEAT WALL AT PARTITION
SCALE: 1" = 1'-0"

SHEET NOTES:

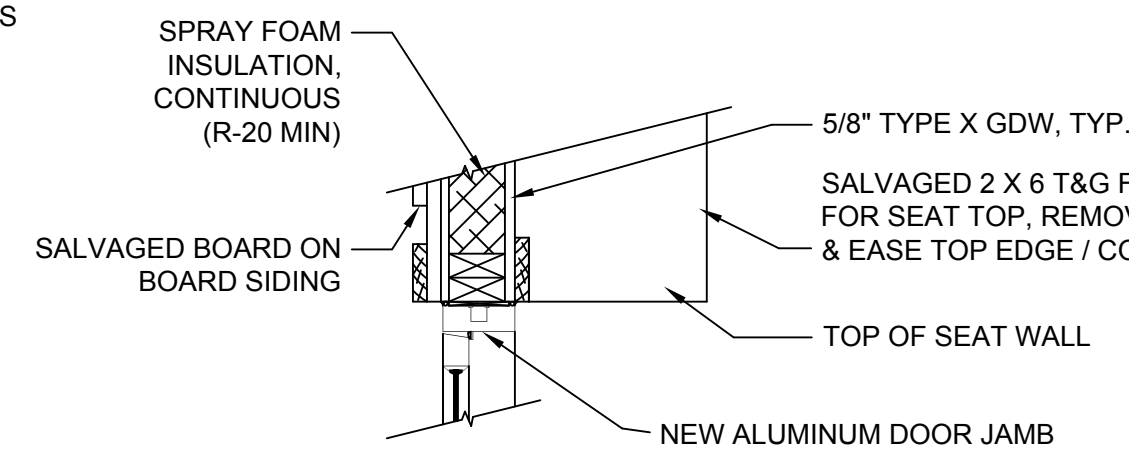
- CONTRACTOR TO VERIFY ALL DIMENSIONS. DIMENSIONS SHOWN FOR REFERENCE ONLY.
- REMOVE ALL WOOD WALL FINISH MATERIAL ON INTERIOR PARTITIONS AND INTERIOR FACE OF EXTERIOR WALLS AND RETAIN FOR OWNER, UNLESS NOTED OTHERWISE.
- REMOVE ALL EXISTING BATT INSULATION FROM STUD WALL AND FLOOR JOIST CAVITIES AND DISPOSE OF AS REQUIRED BY LAW.
- EXCAVATE AS REQUIRED FOR NEW CONCRETE SLAB, SUB-SLAB AND SLAB-EDGE INSULATION AND GRANULAR FILL.
- LAP ALL JOINTS IN UNDER-SLAB VAPOR BARRIER A MINIMUM OF 6 INCHES. LAP ENDS / TERMINATIONS UP FACE OF ADJACENT MATERIAL (TYPICALLY XPS) A MINIMUM OF 3 INCHES. SEAL ALL JOINTS AND TERMINATIONS WITH SHEATHING TAPE PER VAPOR BARRIER MANUFACTURERS SPECIFICATIONS.
- USE ONLY STAINLESS STEEL (TYPE 304 OR 316) OR HOT DIP GALVANIZED FASTENERS FOR ATTACHING SALVAGED WHITE OAK AND T&G DOUGLAS FIR.



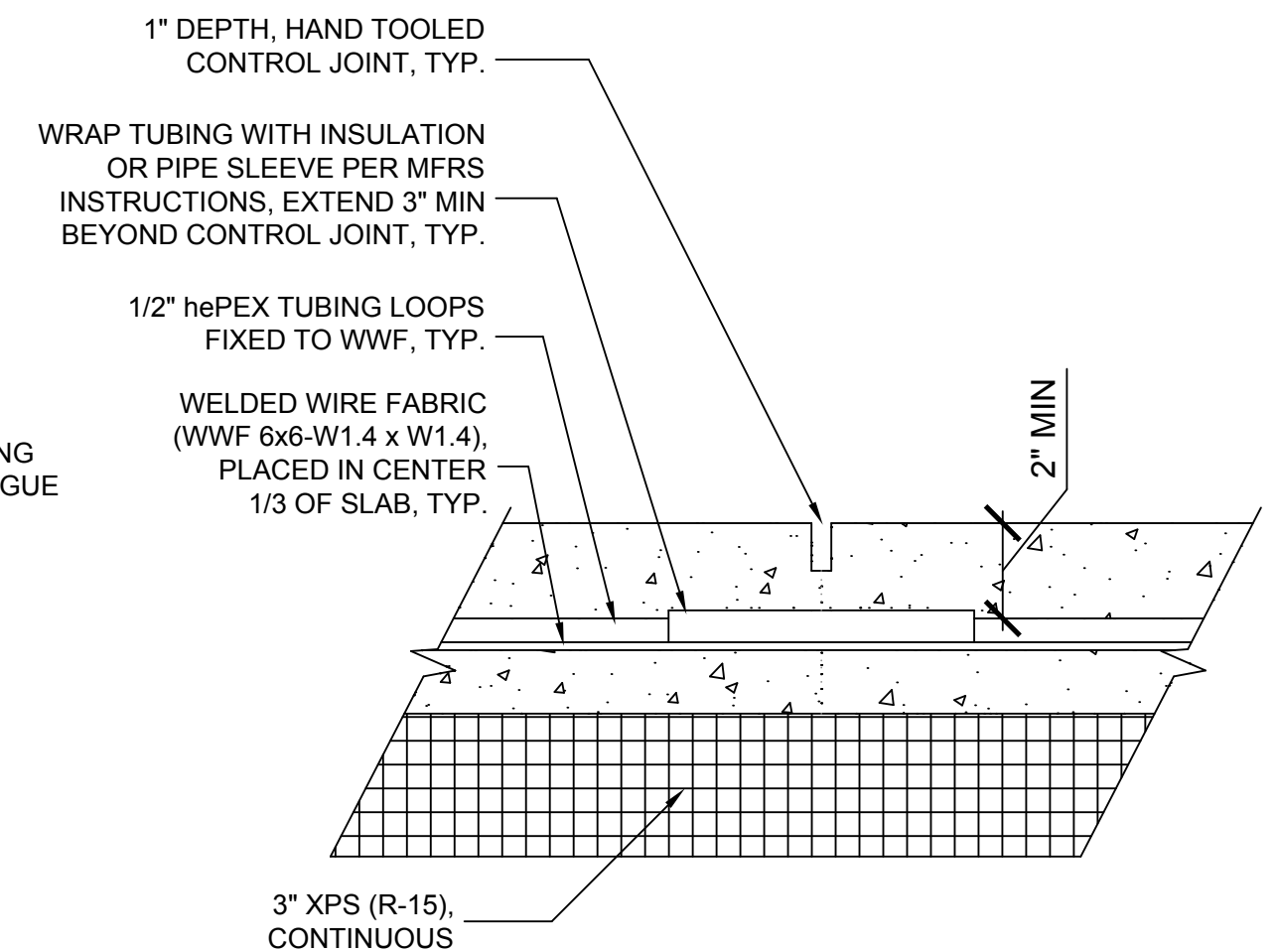
8 MEN'S RESTROOM WEST PLUMBING WALL
SCALE: 1" = 1'-0"



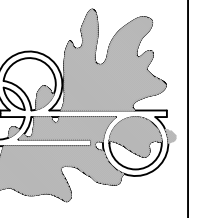
9 SILL DETAIL AT DOOR #1
SCALE: 1" = 1'-0"



10 JAMB DETAIL AT DOOR #1
SCALE: 1" = 1'-0"



11 SLAB DETAIL AT CONTROL JOINT
SCALE: 3" = 1'-0"

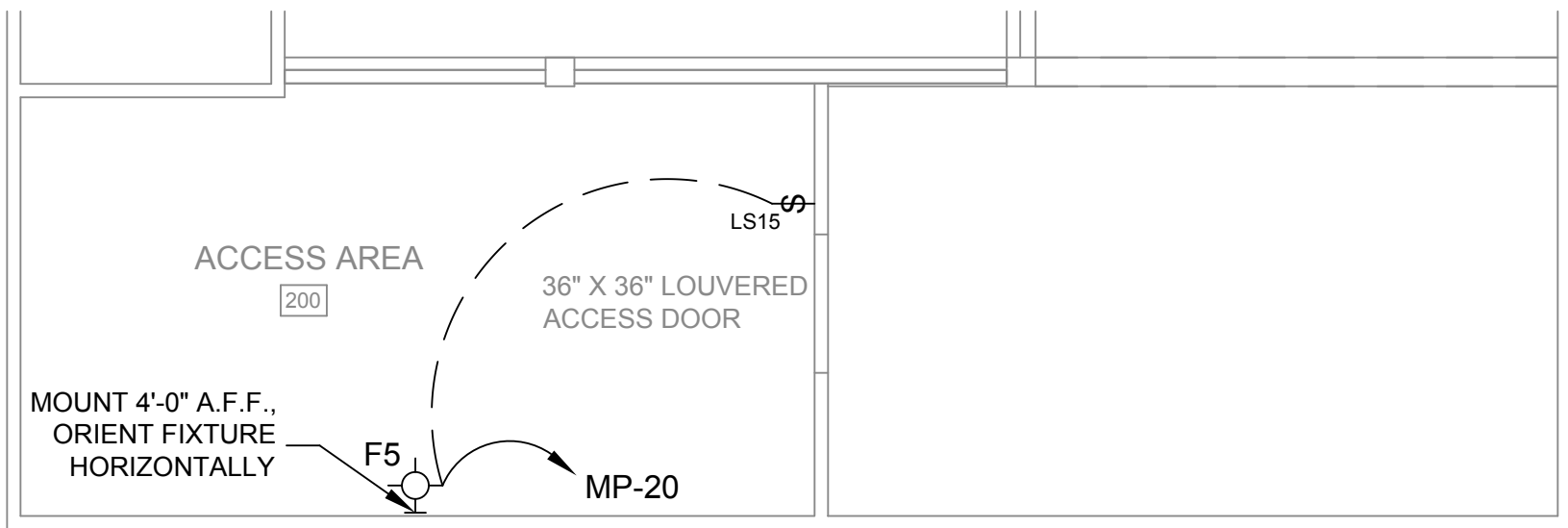


LIGHT FIXTURE SCHEDULE				
MARK	ITEM/MODEL NO.	MANUFACTURER	LAMPS	REMARKS
F1	BLE-G-WGGFS-G3-PC-975-FST-LED-2700K	BARNLIGHT ELECTRIC	16.8 WATT LED	"LED WIRE GUARD SCONCE"
F2	BLE-G-WHS18-PC-975-G11-975-LED-FLAT-1250	BARNLIGHT ELECTRIC	12 WATT LED	"THE ORIGINAL WAREHOUSE LED GOOSENECK LIGHT"
F3	BLE-F-WGG-PC-975-FST-LED-2700K	BARNLIGHT ELECTRIC	16.8 WATT LED	"THE BULLET LED WIRE GUARD"
F4	IV-08VKL3	PANASONIC	32 WATT CFL	"WHISPER GREEN-LITE" - BATHROOM VENTILATION FAN AND LIGHT UNIT, 80 CFM
F5	SL24	CREE	25 WATT LED	24" LED SURFACE LINEAR
F6	K3150-X2-48	BIG ASS FANS	N/A	HAIKU 60" MATRIX COMPOSITE EXTENDED MOUNT CEILING FAN; 48" EXTENSION; WHITE
F7	K3150-X2-60	BIG ASS FANS	N/A	HAIKU 60" MATRIX COMPOSITE EXTENDED MOUNT CEILING FAN; 60" EXTENSION; WHITE
F8	APC7R	COOPER LIGHTING	1.31 WATT LED	EXIT SIGN LIGHT W/ INTEGRATED LED EMERGENCY LIGHTING; WALL MOUNTED

NOTE: APPROVED EQUAL MAY BE USED FOR BASIS OF DESIGN LIGHTING FIXTURE MANUFACTURER AND MODEL NUMBER LISTED.

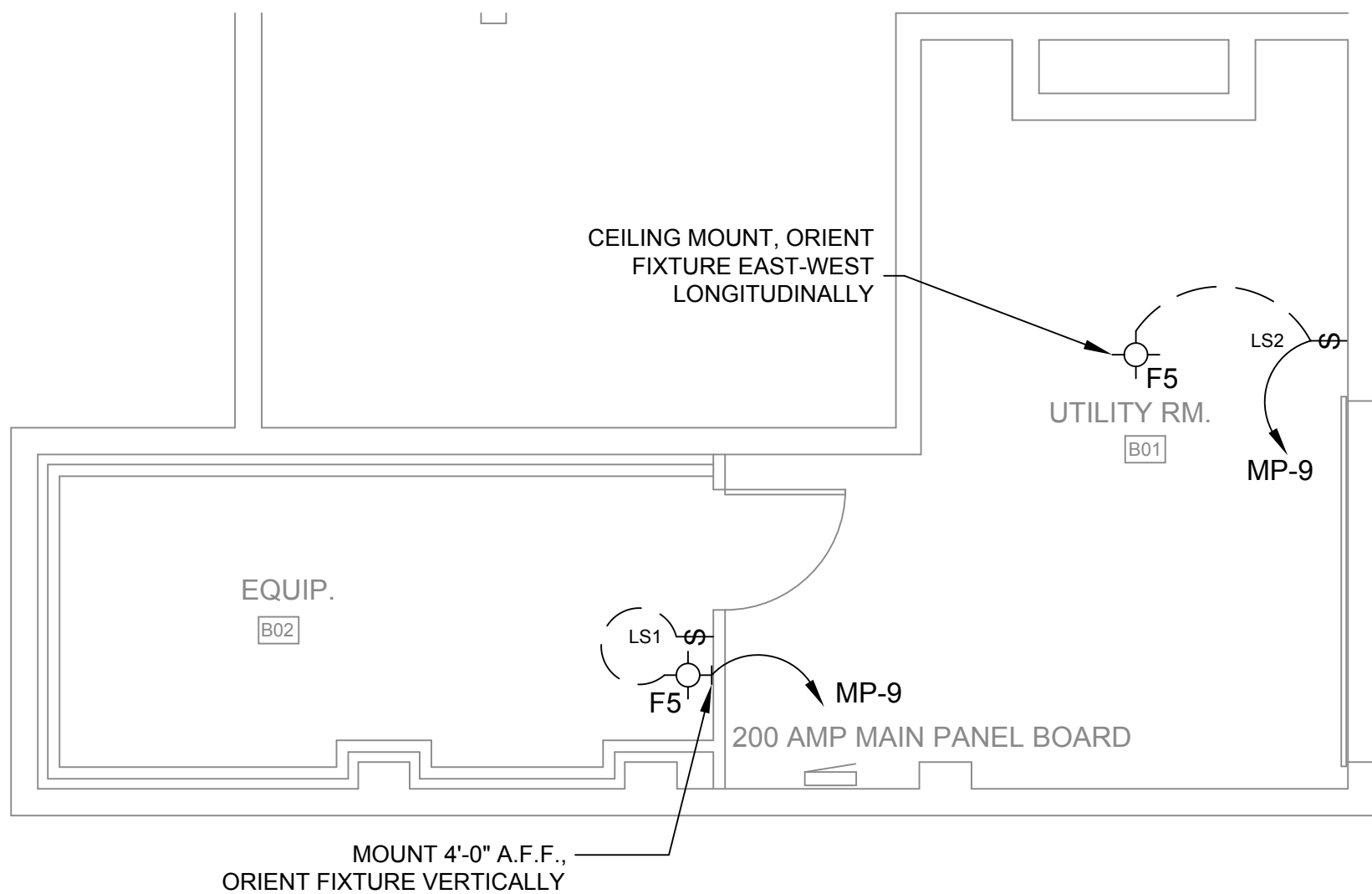
SHEET NOTES:

- REMOVE ALL EXISTING ELECTRICAL WIRING DEVICES BACK TO MAIN 200AMP PANEL BOARD (INCLUDING CONDUIT, WIRING, RECEPTACLES, SWITCHES, JUNCTION BOXES AND LIGHT FIXTURES) EXCEPT FOR EXTERIOR BRANCH CIRCUIT WIRING BETWEEN WELCOME CENTER AND THE ADJACENT BARN - PRIOR TO COMMENCING NEW WORK. MAIN 200 AMP PANEL BOARD TO REMAIN. RETAIN OR DISPOSE OF LIGHT FIXTURES AS NOTED ON PLANS.
- CONTRACTOR SHALL PROVIDE NEW BRANCH CIRCUIT WIRING AND NEW OVERCURRENT DEVICE FOR PORTION OF THE EXISTING EXTERIOR BRANCH CIRCUIT WITHIN THE WELCOME CENTER BUILDING ENVELOPE AS INDICATED ON PLANS. CONTRACTOR SHALL PROVIDE AN ACCESSIBLE JUNCTION BOX (MOUNTED FLUSH WITH NEW INTERIOR WALL FINISH AND AIR SEALED) FOR CONNECTING EXISTING EXTERIOR BRANCH CIRCUIT WIRING TO NEW BRANCH CIRCUIT WIRING AT NORTHWEST CORNER OF WELCOME CENTER AND SHALL RECONNECT CIRCUIT.
- ALL NEW CIRCUITS AND WIRING DEVICES WITHIN WELCOME CENTER SHALL BE CONNECTED TO MAIN PANEL BOARD.
- ALL DEMOLISHED OR REMOVED MATERIALS NOT TO BE RETAINED BY OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF AS REQUIRED BY LAW.
- CONTRACTOR SHALL PATCH AND AIR SEAL PENETRATIONS IN EXTERIOR WALLS FOR DEMOLISHED / REMOVED EXTERIOR LIGHT FIXTURES NOT TO BE REPLACED.
- ALL NEW ELECTRICAL WORK SHALL COMPLY WITH PROVISIONS OF NEC 2011.
- ELECTRICAL CONTRACTOR SHALL IDENTIFY AND VERIFY CONDUCTOR NUMBER AND SIZE OF ALL REQUIRED WIRING DEVICES.
- FIXTURES SHALL BE PROVIDED WITH FEATURES, OPTIONS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.
- CONTRACTOR SHALL VERIFY AND INCLUDE ALL NECESSARY COMPONENTS FOR COMPLETE, CODE COMPLIANT LIGHTING CONTROL IN ALL SPACES. COORDINATE CONTROL OF INDIVIDUAL SWITCHES WITH OWNER DURING INSTALLATION.
- BRANCH CIRCUIT PANEL BOARD SCHEDULE SHALL BE TYPEWRITTEN. PROVIDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE PANEL BOARD SCHEDULE. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACEPLATE (OR JUNCTION BOX) INDICATING THE CIRCUIT NUMBER THE DEVICE IS SERVED BY.
- PROVIDE STAINLESS STEEL COVERS AT ALL SWITCHES AND RECEPTACLES.
- TYPE MC CABLE MAY BE USED IN WALLS AND FOR LOCAL DROPS. EXPOSED CONDUIT WILL NOT BE ACCEPTED IN THIS FACILITY, EXCEPT FOR PROVIDING POWER TO HEAVY TIMBER MOUNTED LIGHT FIXTURES AND IN MECHANICAL ROOMS, WITHOUT PRIOR APPROVAL DURING CONSTRUCTION.
- SECURITY AND FIRE ALARM SYSTEM FURNISHED & INSTALLED BY OTHERS. VENDOR WILL PROVIDE VERIFICATION OF CODE COMPLIANT SYSTEM INSTALLATION.



PARTIAL SECOND FLOOR PLAN - NEW ELECTRICAL LIGHTING

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

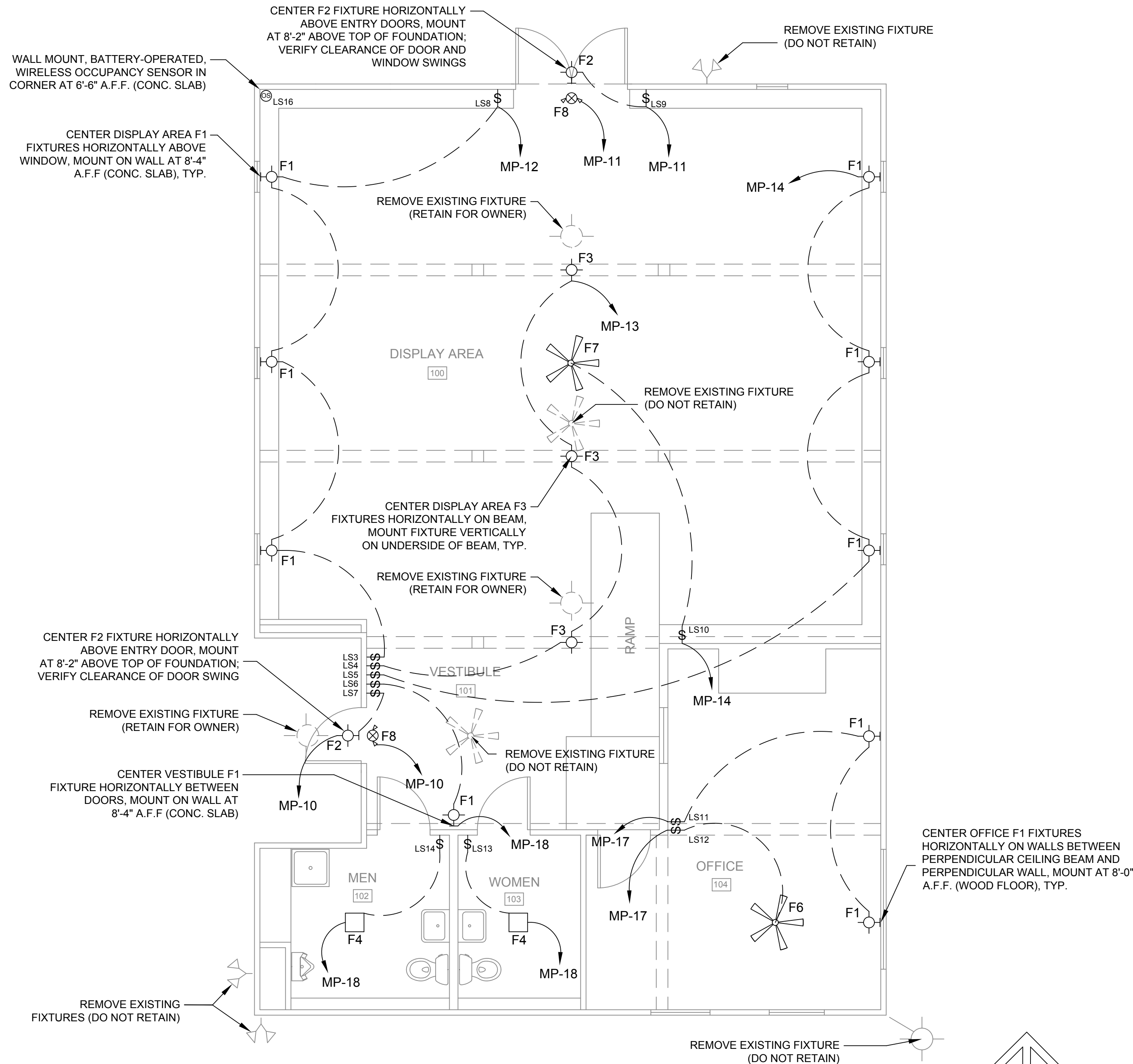


PARTIAL BASEMENT PLAN - NEW ELECTRICAL LIGHTING

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

LIGHTING CONTROL SCHEDULE				
MARK	ITEM/MODEL NO.	MFR.	CONTROL TYPE	REMARKS
LS1	MS-A102-V-WH	LUTRON	VACANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS2	MS-A102-V-WH	LUTRON	VACANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS3	MRF2-6ND-120-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DIMMABLE SWITCH; WIRELESS SENSOR CONTROL WITH LS16
LS4	MRF2-6ND-120-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DIMMABLE SWITCH; WIRELESS SENSOR CONTROL WITH LS16
LS5	MRF2-6ND-120-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DIMMABLE SWITCH; WIRELESS SENSOR CONTROL WITH LS16
LS6	MS-A102-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS7	RT-200-W	WATTSTOPPER	ASTRONOMICAL TIME SWITCH	IN WALL, 7 DAY, 24 HOUR, PROGRAMMABLE TIME CLOCK CONTROL W/ 10 HR MIN OUTTAGE TIME AND SETTING MEMORY
LS8	MA-R-WH	LUTRON	COMPANION SWITCH	IN WALL "COMPANION SWITCH" (3-WAY FUNCTION) FOR LS3; WIRELESS COMMUNICATION W/ LS3
LS9	RT-200-W	WATTSTOPPER	ASTRONOMICAL TIME SWITCH	IN WALL, 7 DAY, 24 HOUR, PROGRAMMABLE TIME CLOCK CONTROL W/ 10 HR MIN OUTTAGE TIME AND SETTING MEMORY
LS10	MA-T51	LUTRON	TIMER SWITCH	IN WALL, 60 MINUTE TIMER SWITCH FOR CEILING FAN
LS11	MSCL-VP153M-WH	LUTRON	VACANCY SENSOR SWITCH	IN WALL, DIMMABLE SWITCH W/ DUAL TECHNOLOGY, 180 DEGREE SENSOR
LS12	MA-T51	LUTRON	TIMER SWITCH	IN WALL, 60 MINUTE TIMER SWITCH FOR CEILING FAN
LS13	MS-A102-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS14	MS-A102-WH	LUTRON	OCCUPANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS15	MS-A102-V-WH	LUTRON	VACANCY SENSOR SWITCH	IN WALL, DUAL TECHNOLOGY, 180 DEGREE SENSOR SWITCH
LS16	LRF2-OW-LB-P-WH	LUTRON	WIRELESS OCCUPANCY SENSOR	WALL MOUNT, BATTERY POWERED, DUAL TECHNOLOGY, 180 DEGREE SENSOR; WIRELESS CONTROL OF LS3, LS4 & LS5

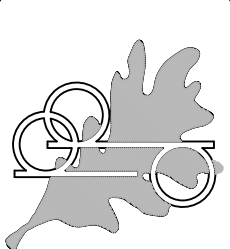
NOTE: APPROVED EQUAL MAY BE USED FOR BASIS OF DESIGN LIGHTING CONTROL MANUFACTURER AND MODEL NUMBER LISTED.



FIRST FLOOR PLAN - NEW ELECTRICAL LIGHTING

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

ANTHONY P. CORSO
ARCHITECT
PEORIA
ILLINOIS



ADAPTIVE REUSE FOR:
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TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS

ISSUED FOR:
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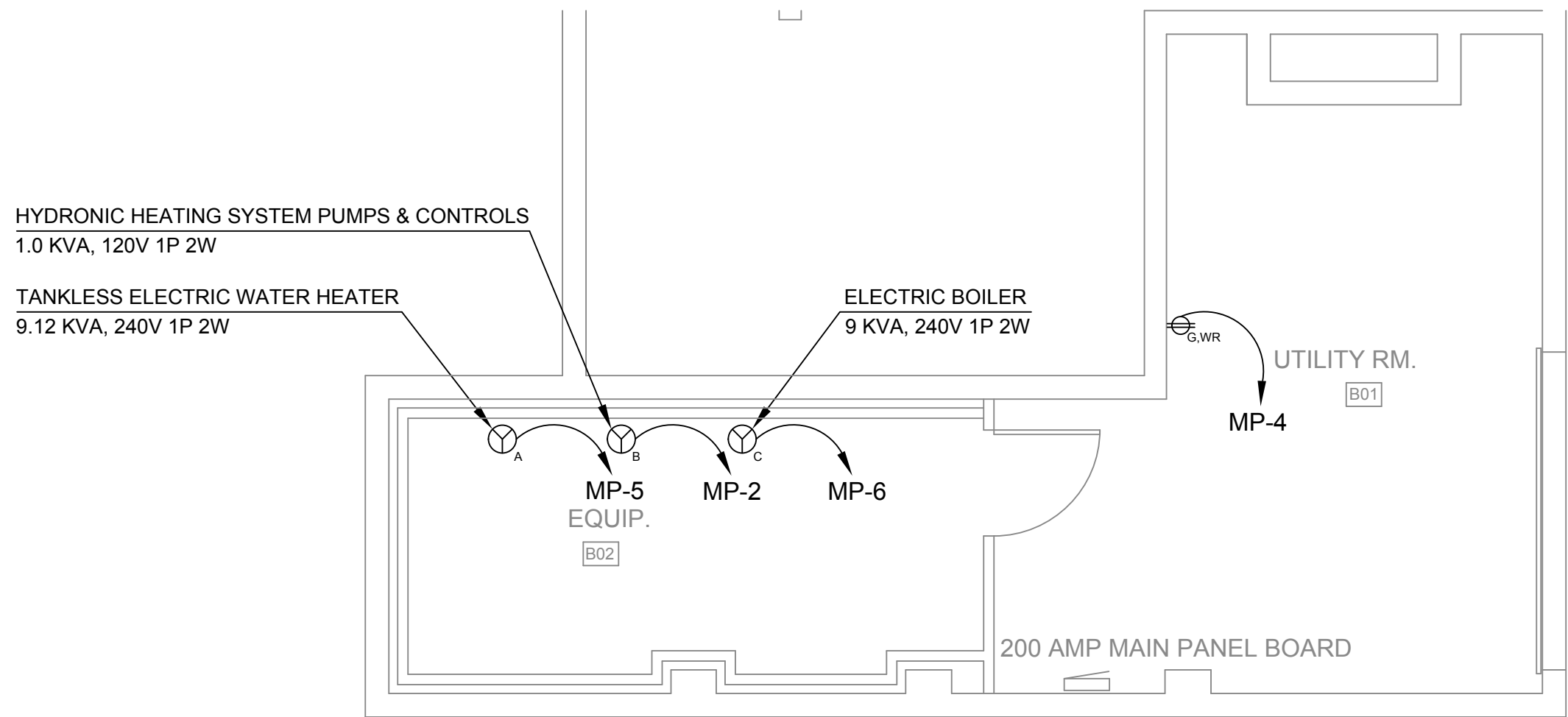
SHEET
E-100
OF 2

SHEET NOTES:

1. REMOVE ALL EXISTING ELECTRICAL WIRING DEVICES BACK TO MAIN 200AMP PANEL BOARD (INCLUDING CONDUIT, WIRING, RECEPTACLES, SWITCHES, JUNCTION BOXES AND LIGHT FIXTURES) EXCEPT FOR EXTERIOR BRANCH CIRCUIT WIRING BETWEEN WELCOME CENTER AND ADJACENT BARN - PRIOR TO COMMENCING NEW WORK. MAIN 200 AMP PANEL BOARD TO REMAIN. RETAIN OR DISPOSE OF LIGHT FIXTURES AS NOTED ON PLANS.
2. CONTRACTOR SHALL PROVIDE NEW BRANCH CIRCUIT WIRING WITHIN THE WELCOME CENTER BUILDING ENVELOPE AND NEW OVERCURRENT DEVICE AT MAIN PANEL FOR THE EXISTING EXTERIOR BRANCH CIRCUIT AS INDICATED ON PLANS. CONTRACTOR SHALL PROVIDE AN ACCESSIBLE JUNCTION BOX (MOUNTED FLUSH WITH NEW INTERIOR WALL FINISH AND AIR SEALED) FOR CONNECTING EXISTING EXTERIOR BRANCH CIRCUIT WIRING TO NEW BRANCH CIRCUIT WIRING AT NORTHWEST CORNER OF WELCOME CENTER AND SHALL RECONNECT CIRCUIT.
3. ALL NEW CIRCUITS AND WIRING DEVICES WITHIN WELCOME CENTER SHALL BE CONNECTED TO MAIN PANEL BOARD.
4. ALL DEMOLISHED OR REMOVED MATERIALS NOT TO BE RETAINED BY OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF AS REQUIRED BY LAW.
5. ALL NEW ELECTRICAL WORK SHALL COMPLY WITH PROVISIONS OF NEC 2011.
6. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUCTOR NUMBER AND SIZE OF ALL REQUIRED WIRING AND OVERCURRENT DEVICES.
7. FIXTURES SHALL BE PROVIDED WITH FEATURES, OPTIONS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
8. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.
9. BRANCH CIRCUIT PANEL BOARD SCHEDULE SHALL BE TYPEWRITTEN. PROVIDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE PANEL BOARD SCHEDULE. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACEPLATE (OR JUNCTION BOX) INDICATING THE CIRCUIT NUMBER THE DEVICE IS SERVED BY.
10. PROVIDE STAINLESS STEEL COVERS AT ALL SWITCHES AND RECEPTACLES.
11. TYPE MC CABLE MAY BE USED IN WALLS AND FOR LOCAL DROPS. EXPOSED CONDUIT WILL NOT BE ACCEPTED IN THIS FACILITY, EXCEPT FOR MECHANICAL ROOMS AND FOR PROVIDING POWER TO HEAVY TIMBER BEAM MOUNTED LIGHT FIXTURES AND RECEPTACLES, WITHOUT PRIOR APPROVAL DURING CONSTRUCTION.
12. SECURITY AND FIRE ALARM SYSTEM FURNISHED & INSTALLED BY OTHERS. VENDOR WILL PROVIDE VERIFICATION OF CODE COMPLIANT SYSTEM INSTALLATION.

MAIN PANEL BOARD (MP) SCHEDULE									
200 AMP, 42 CIRCUIT MAIN LUGS									
DESCRIPTION	LOAD	BREAKER	CIRCUIT		BREAKER	LOAD	DESCRIPTION		
BRANCH CIRCUIT FOR ADJ. BARN (EXIST. INT. LIGHTS/RECEPTACLES)	3.0 KVA	40/2	1	2	20/1	1.0 KVA*	HYDRONIC HEATING SYSTEM PUMPS & CONTROLS		
			3	4	20/1	0.2 KVA	WEATHER RESISTANT GFCI RECEPTACLE, UTILITY ROOM		
			5	6	60/2	9.0 KVA	ELECTRIC BOILER FOR HYDRONIC HEATING SYSTEM		
TANKLESS ELECTRIC WATER HEATER	9.12 KVA	40/2	7	8					
INTERIOR LIGHTING, BASEMENT	0.056 KVA	20/1	9	10	20/1	0.064 KVA	EXTERIOR LIGHT, WEST ENTRY; WEST EXIT & EMERGENCY LIGHT		
EXTERIOR LIGHT, NORTH ENTRY; NORTH EXIT & EMERGENCY LIGHT	0.064 KVA	20/1	11	12	20/1	0.054 KVA	LIGHTING, WEST ZONE DISPLAY AREA		
LIGHTING, CENTER ZONE DISPLAY AREA	0.054 KVA	20/1	13	14	20/1	0.114 KVA	LIGHTING, EAST ZONE DISPLAY AREA; CEILING FAN, DISPLAY AREA		
RECEPTACLES, FIRST FLOOR WEST	1.2 KVA	20/1	15	16	20/1	1.2 KVA	RECEPTACLES, FIRST FLOOR EAST		
LIGHTING & CEILING FAN, OFFICE	0.096 KVA	20/1	17	18	20/1	0.159 KVA	LIGHTING AND VENT FANS, RESTROOMS; LIGHT, VESTIBULE		
RECEPTACLES, OFFICE	1.0 KVA	20/1	19	20	20/1	0.028 KVA	LIGHT, ACCESS AREA		
SPARE	0 KVA	20/1	21	22	20/1	3.0 KVA**	SEWAGE DISPOSAL SYSTEM PUMP(S) AND CONTROLS		
SPARE	0 KVA	0/1	23	24	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	25	26	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	27	28	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	29	30	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	31	32	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	33	34	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	35	36	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	37	38	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	39	40	0/1	0 KVA	SPARE		
SPARE	0 KVA	0/1	41	42	0/1	0 KVA	SPARE		
LOAD BALANCE:						14.590 KVA	14.905 KVA		

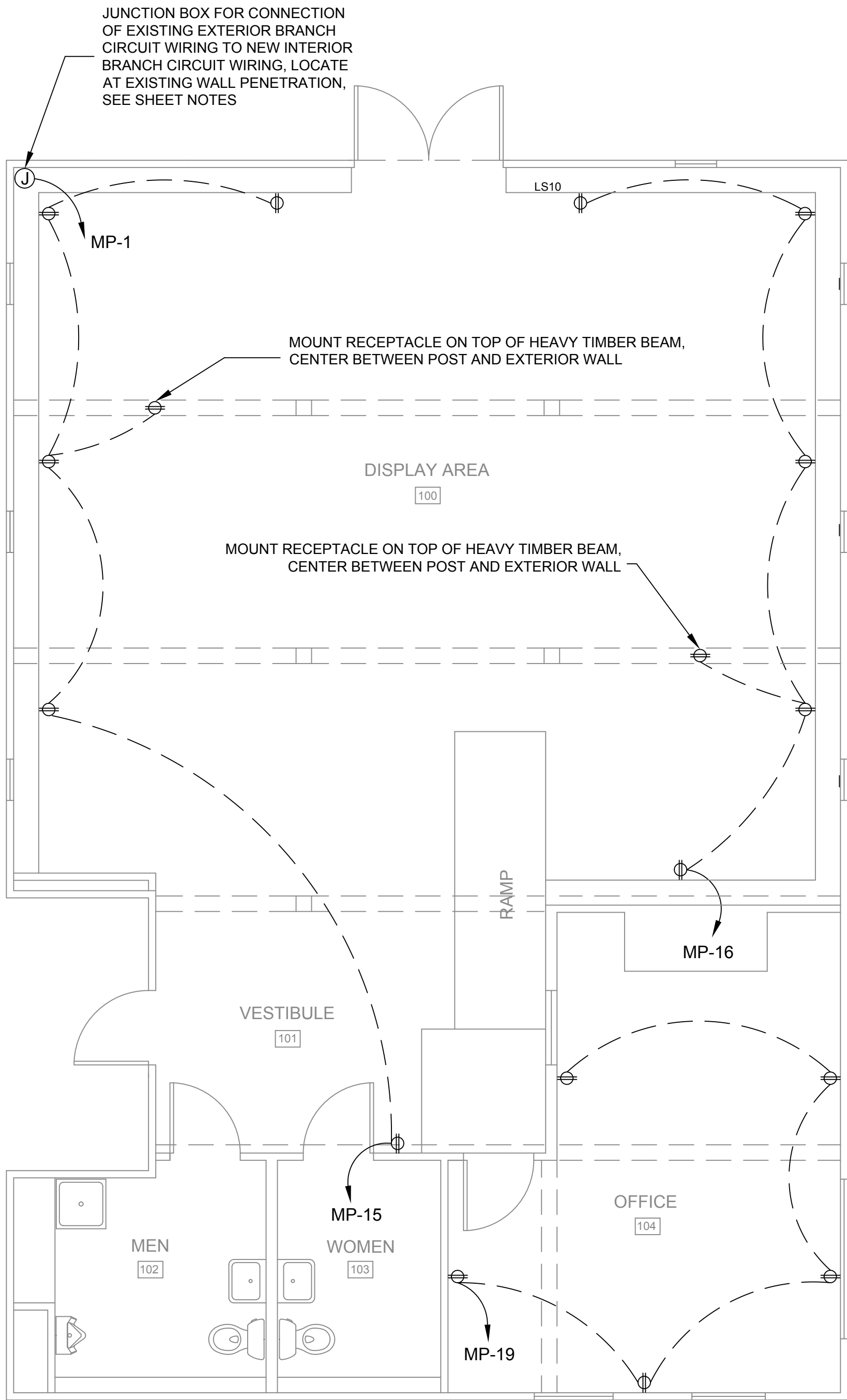
- NOTES:
1. CONTRACTOR SHALL USE EXISTING MAIN PANEL BOARD.
 2. CONTRACTOR SHALL PROVIDE OVERCURRENT PROTECTION (BREAKERS) AS NOTED.
 3. LOAD MARKED * ** IS AN ESTIMATE BASED ON ANTICIPATED LOAD FOR HYDRONIC CIRCULATORS, LOW VOLTAGE TRANSFORMER AND FEEDER TANK. VERIFY BASED ON FINAL SHOP DRAWINGS.
 4. LOAD MARKED * ** IS AN ESTIMATE BASED ON ANTICIPATED LOAD FOR SEWAGE DISPOSAL SYSTEM DESIGN. SEE SEWAGE DISPOSAL SYSTEM DRAWINGS. VERIFY BASED ON FINAL SHOP DRAWINGS.



PARTIAL BASEMENT PLAN - NEW ELECTRICAL POWER

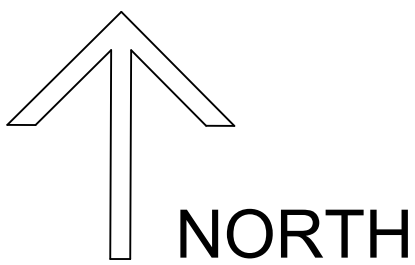
SCALE: 1/4" = 1'-0"

EQUIPMENT CONNECTION SCHEDULE							
SYMBOL	DESCRIPTION (CALLOUT)	VOLTS	AMPS	HP	BREAKER	CIRCUIT	WIRING
	TANKLESS ELECTRIC WATER HEATER	240	38		5 / 7	MP - 5	3/4"C,1#8,#8N,#8G
	HYDRONIC HEATING SYSTEM PUMPS & CONTROLS	120	5.1		2	MP - 2	3/4"C, 1#10,#10N,#10G
	ELECTRIC BOILER	240	37.5		6 / 8	MP - 6	3/4"C,1#8,#8N,#8G



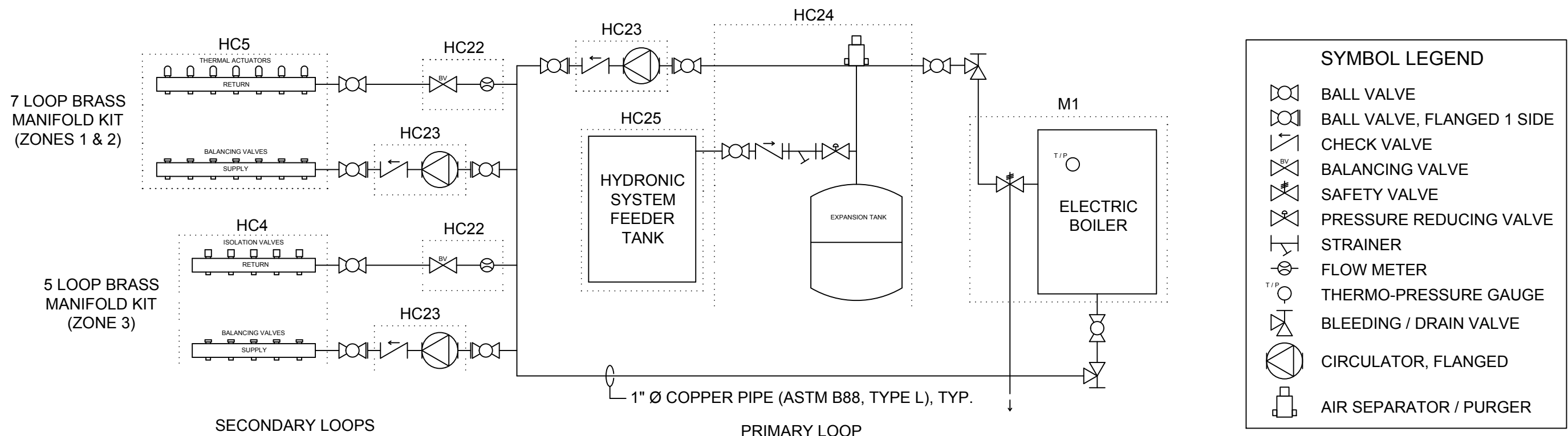
FIRST FLOOR PLAN - NEW ELECTRICAL POWER

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



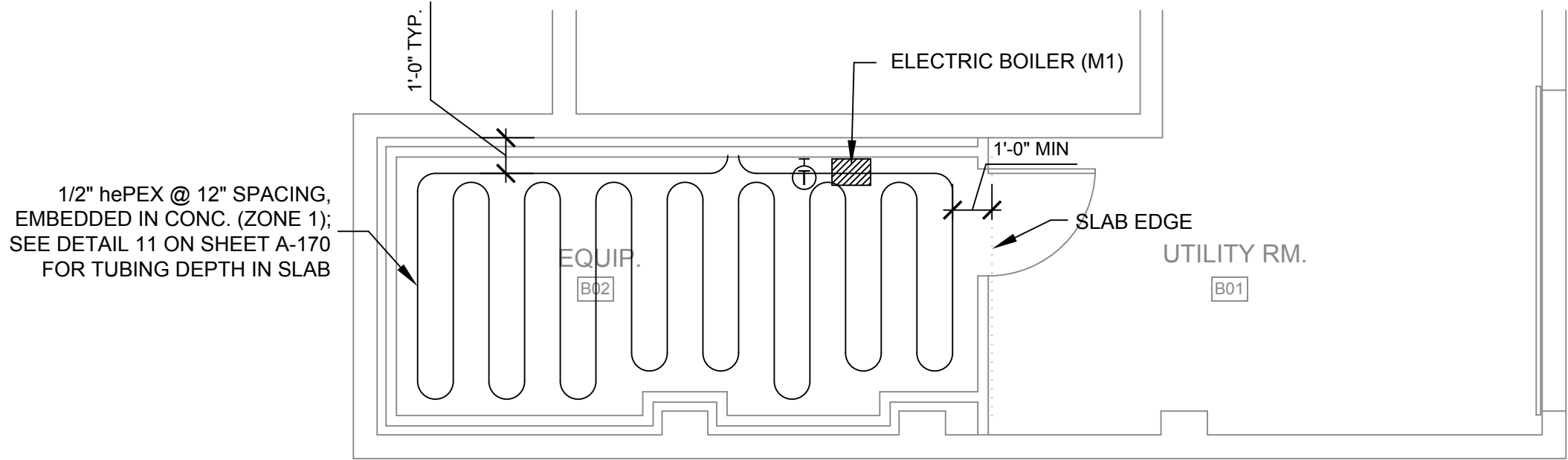
HYDRONIC HEATING SYSTEM COMPONENT SCHEDULE					
MARK	QTY	DESCRIPTION	PART / MODEL NO.	MANUFACTURER	REMARKS
HC1	1	5/16" DIAMETER hePEX PLUS, 1000 FT COIL	A1220313	WIRSB0 / UPONOR	FOR USE WITH HC4 (5 LOOP MANIFOLD)
HC2	1	1/2" DIAMETER hePEX PLUS, 1000 FT COIL	A1220500	WIRSB0 / UPONOR	FOR USE WITH HC5 (7 LOOP MANIFOLD)
HC3	1	1/2" DIAMETER hePEX PLUS, 500 FT COIL	A1260501	WIRSB0 / UPONOR	FOR USE WITH HC5 (7 LOOP MANIFOLD)
HC4	1	"TRUFLOW JR" MANIFOLD ASSY, 5 LOOP W/ IV & BV	A2660501	UPONOR	
HC5	1	"TRUFLOW JR" MANIFOLD ASSY, 7 LOOP W/ IV & BV	A2660701	UPONOR	REPLACE ISOLATION VALVE CAPS W/ THERMAL ACTUATORS (HC11)
HC6	10	5/16" QS-STYLE COMP FITTING ASSY, R20 THREAD	A4020313	UPONOR	FOR USE WITH HC4 (5 LOOP MANIFOLD)
HC7	4	BRASS MANIFOLD ADAPTER, R32 X 1"	A4133210	UPONOR	FOR 1" COPPER PIPE CONNECTIONS TO BRASS MANIFOLDS
HC8	14	1/2" PROPEX RING W/ STOP, 1/2"	Q4020500	UPONOR	FOR USE WITH HC5 (7 LOOP MANIFOLD)
HC9	14	PROPEX RING W/ STOP, 1/2"	Q4690512	UPONOR	FOR SECONDARY LOOP / MANIFOLD CIRCULATORS (HC23)
HC10	2	SINGLE-ZONE PUMP RELAY	A3010100	UPONOR	FOR USE WITH HC5 (7 LOOP MANIFOLD)
HC11	7	THERMAL ACTUATOR, FOUR-WIRE	A3010522	UPONOR	ONE FOR EACH MANIFOLD
HC12	2	THREE ZONE CONTROL MODULE, 2-WIRE OPERATION	A3031003	UPONOR	7 DAY PROGRAMMABLE ZONE TEMPERATURE CONTROL
HC13	3	THERMOSTAT W/ AMBIENT AIR AND FLOOR SENSOR	TH115-AF-024T	AUBE	PROVIDES POWER TO ZONE CONTROL MODULE(S)
HC14	1	50 VA TRANSFORMER	A3050050	UPONOR	RIGID 90 DEG. BEND SUPPORT AT WALL/FLR FOR 5/16" hePEX
HC15	10	3/8" PLASTIC BEND SUPPORT	A5150375	UPONOR	RIGID 90 DEG. BEND SUPPORT FOR 1/2" hePEX @ CONC SLAB EXIT
HC16	14	3/4" PVC ELBOW FOR 1/2" PEX BEND SUPPORT	A5500500	UPONOR	8" GALV. TIES FOR SECURING PEX TO WWF IN CONC SLAB
HC17	1	FIXING WIRE (1000/PKG)	A7031000	UPONOR	1/2" PLYWOOD SUBFLOOR PANELS W/ AL HT TRNSFR PLT, 5/16" PEX
HC18	166	QUIK TRAK 7"x48" TRACK PANEL	A5060701	UPONOR	FOR ADHERING 5/16" PEX IN QUIK TRAK GROOVE
HC19	18	QUIK TRAK 7"x48" RETURN PANEL	A5060702	UPONOR	FOR ATTACHING QUIK TRAK PANELS TO SUBFLOOR
HC20	7	QUIK TRAK SEALANT, 300ml	A6050010	UPONOR	TO BALANCE & SET FLOW @ SECONDARY PIPING TO MANIFOLDS
HC21	1	QUIK TRAK SCREWS - 1 1/4", 2500/PKG	A6050010	UPONOR	FLANGED CIRCULATOR PUMP W/ INTEGRATED CHECK VALVE
HC22	2	1" SWEAT BALANCING VALVE W/ FLOW METER	132839AFC	CALEFFI	AIR SEPARATOR, EXPANSION TANK, AND DEVICE THAT ACTS AS
HC23	3	GRUNDFOS UPS 15-58FC 1/25HP CIRCULATOR PUMP	59896341	GRUNDFOS	STRAINER & BALL, CHECK & PRESSURE REDUCING VALVES
HC24	1	1" SWEAT BOILER TRIM KIT (INCL 4.4 GAL EXP TANK)	NA553369-B	CALEFFI	1/2" SWEAT CONNECTION; PROVIDE MOUNTING SHELF (MF200-1430)
HC25	1	PRESSURIZED HYDRONIC SYSTEM FEEDER (6.6 GAL)	MF200	AXIOM	

NOTE: APPROVED EQUAL MAY BE USED FOR BASIS OF DESIGN HYDRONIC HEATING SYSTEM COMPONENTS INDICATED.



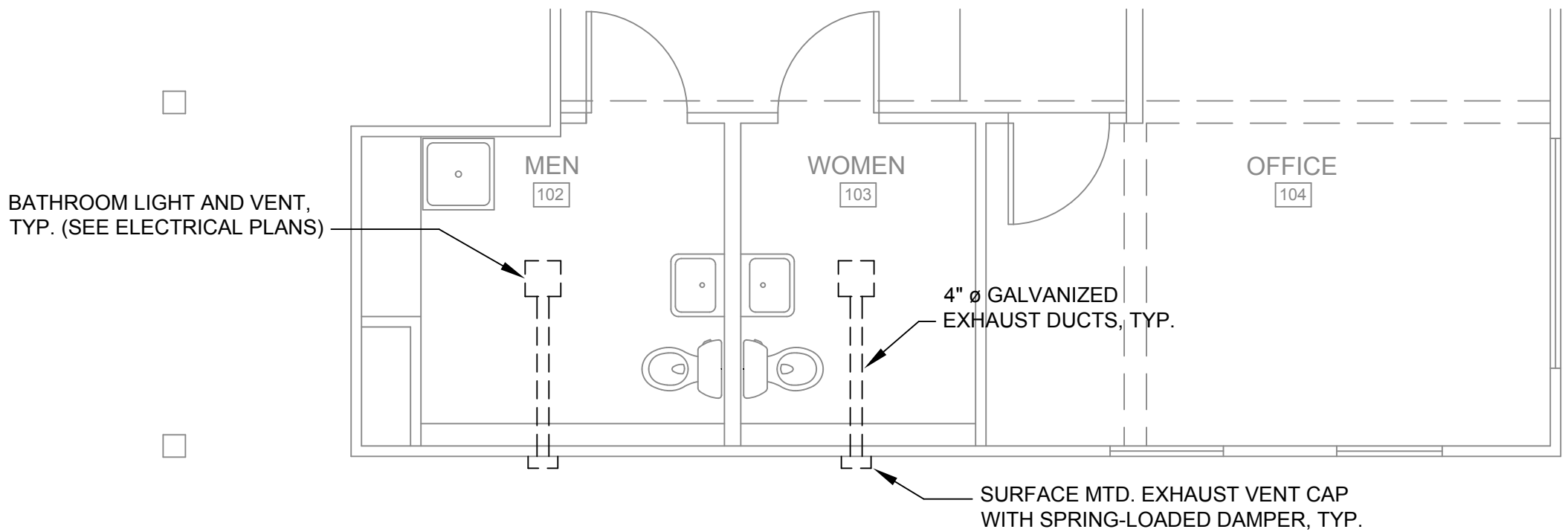
HYDRONIC HEATING SYSTEM - SCHEMATIC PIPING DIAGRAM

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BASEMENT PLAN - HYDRONIC HEATING

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



FIRST FLOOR PLAN - VENTILATION

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

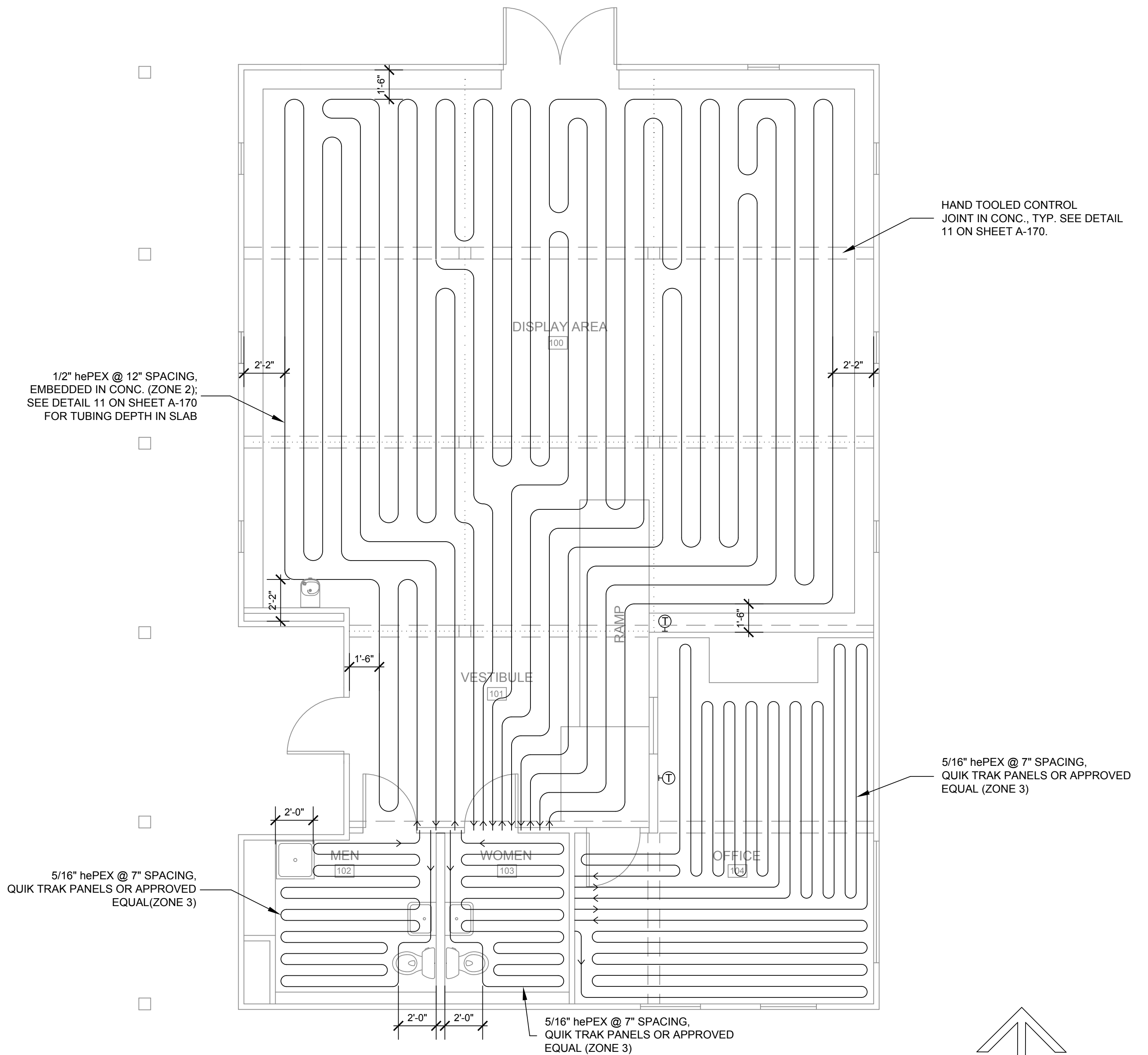
HYDRONIC HEATING EQUIPMENT SCHEDULE							
MARK	DESCRIPTION	MODEL NO.	MFR.	KW	BTU/HR	TOTAL AMPS	BREAKER AMPS
M1	ELECTRIC BOILER, MODULATING	B-9TMB	THERMOLEC	9	30,708	37.5	50

HYDRONIC HEATING LOOP INFORMATION													
ZONE	SPACE	NET SF	TUBE LCTN	TUBE SIZE / SPCNG	FT/LOOP	LDR FT	# LOOPS	SPACE LOAD	FLR TEMP	TEMP DRP	FLWRT/SPACE	HEAD LOSS	STPT TEMP
1	B02	115	CONC. SLAB	1/2" hePEX @ 12" OC	115	~4	1	1,955 BTU/HR	70.7 DEG F	10 DEG F	0.39 GPM	1.49	65 DEG F
2	100 / 101	1053	CONC. SLAB	1/2" hePEX @ 12" OC	158	~8	6	19,375 BTU/HR	74.9 DEG F	10 DEG F	3.88 GPM	4.96	65 DEG F
3	102 / 103	125	SUBFLOOR	5/16" hePEX @ 7" OC	103 / 83	~8	2	2,700 BTU/HR	76.3 DEG F	20 DEG F	0.27 GPM	2.48	65 DEG F
3	104	247.5	SUBFLOOR	5/16" hePEX @ 7" OC	125	~15	3	3,645 BTU/HR	74.0 DEG F	20 DEG F	0.36 GPM	2.36	65 DEG F

NOTE: HEATING LOOP (SECONDARY) BASIS OF DESIGN: GSF OF CONDITIONED SPACE = 1,807.5; TOTAL HEATING LOAD = 27,675 BTU/HR; TOTAL FLOWRATE = 4.9 GPM; MAXIMUM HEAD LOSS = 4.96 FT H2O; 30% INHIBITED PROPYLENE GLYCOL BY VOLUME

SHEET NOTES:

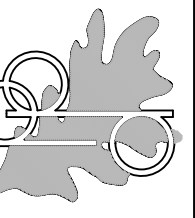
- CONTRACTOR SHALL AIR SEAL RIGID METAL RESTROOM EXHAUST DUCTS WITH UL 181A TAPE OR MASTIC AT ALL TRANSVERSE AND LONGITUDINAL JOINTS AS REQUIRED BY CODE.
- ELECTRICAL POWER CONNECTIONS BY ELECTRICAL CONTRACTOR, SEE ELECTRICAL PLANS.
- CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, GASKETS, DIELECTRIC CONNECTORS AND VALVES REQUIRED TO COMPLETE INSTALLATION OF HYDRONIC HEATING SYSTEM.
- WHEN MULTIPLE LOOPS ARE USED WITHIN A ZONE OF THE HYDRONIC HEATING SYSTEM, INDIVIDUAL LOOP LENGTHS SHALL BE KEPT AS EVEN AS POSSIBLE (WITHIN 10%).
- HYDRONIC HEATING SYSTEM SHALL BE FLUSHED BEFORE FINAL FILLING WITH 1% TRISODIUM PHOSPHATE SOLUTION TO REMOVE ANY GREASES, OILS, SOLDER FLUX, ETC. IN THE SYSTEM PIPING AND EQUIPMENT.
- HYDRONIC HEATING SYSTEM AND FEEDER TANK SHALL BE FILLED WITH A MIXTURE OF DEMINERALIZED (DI) OR DISTILLED WATER AND INHIBITED PROPYLENE GLYCOL (30% BY VOLUME) FORMULATED FOR HEAT TRANSFER APPLICATIONS (DOWFROST OR APPROVED EQUAL).
- CONTRACTOR SHALL PRESSURE TEST ENTIRE SYSTEM TO PER MANUFACTURERS INSTRUCTIONS FOR A MINIMUM OF 24 HOURS PRIOR TO COVERING WITH CONCRETE FOR "WET" SYSTEMS. KEEP SYSTEM PRESSURIZED DURING AND FOR 24 HOURS MINIMUM AFTER POURING CONCRETE. PRESSURE TEST DURING AND FOR 24 HOURS MINIMUM AFTER FLOOR CONSTRUCTION AND FLOOR COVERING IN "DRY" SYSTEMS.
- HYDRONIC SYSTEM PIPING INSULATION SHALL BE PROVIDED PER IECC 2012 REQUIREMENTS. INSULATION PROVIDED SHALL BE RATED FOR MAXIMUM SYSTEM OPERATING TEMPERATURE.
- PEX TUBING SHALL BE ATTACHED TO WWF REINFORCEMENT IN CONC SLAB. MAINTAIN AT LEAST 2" OF CONCRETE COVER ON TUBING. ROUTE TUBING TO MAINTAIN 2" MIN CLEARANCE AROUND UTILITIES IN SLAB. SEE PLUMBING PLANS FOR PLUMBING FLOOR PENETRATION LOCATIONS.
- INSTALL ZONE THERMOSTATS AS NOTED ON PLANS. LOCATE AND INSTALL THERMOSTAT FLOOR SENSOR PER MANUFACTURER'S INSTRUCTIONS. INSTALL OUTDOOR AIR SENSOR / RESET CONTROL ABOVE SNOWLINE AT NORTH FACE OF BUILDING. SEE SPECIFICATIONS FOR CONTROLS INFORMATION.



FIRST FLOOR PLAN - HYDRONIC HEATING

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

ANTHONY P. CORSO
ARCHITECT
PEORIA
ILLINOIS



ADAPTIVE REUSE FOR:
PEORIA PARK DISTRICT
TAWNY OAKS WELCOME CENTER
715 W. SINGING WOODS RD.
EDELSTEIN, ILLINOIS

ISSUED FOR:
FINAL REVIEW -- NOT FOR CONSTRUCTION
BID DOCUMENTS
DATE: 29 JUNE 14
22 JULY 14

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SHEET NOTES:

1. PROVIDE KEYED VALVES AT SUPPLY TO LAV FAUCET AND WC WITHIN RESTROOMS

2. ALL EXPOSED WATER SUPPLY AND WASTE LINES IN RESTROOM SHALL BE CHROME PLATED. PROVIDE CHROME ESCUTHEON PLATE. SEALED WITH SILICONE SEALANT. AT WALL AND FLOOR PLUMBING PENETRATIONS. MATCH SILICONE SEALANT COLOR TO FIXTURE COLOR.

3. SLOPE ALL HORIZONTAL VENT LINES 1/8"/FT TOWARD FIXTURES.

4. PROVIDE SLEEVES FOR ALL PIPING PENETRATIONS IN CMU FOUNDATION WALLS AND CONCRETE FLOOR SLABS AND SEAL ANNULAR SPACE AS REQUIRED BY CODE.

5. DRAIN, WASTE AND VENT LINES TO COMPLY WITH ASTM D 2865-2012 AND ALL APPLICABLE STANDARDS FOR PVC PIPING.

6. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, DIELECTRIC CONNECTORS, GASKETS AND VALVES TO COMPLETE SANITARY AND SUPPLY.

7. PROVIDE ADA COMPLIANT UNDER SINK (LAVATORY) PROTECTIVE PIPE INSULATION COVERS, ZURN Z8946-1-NT OR APPROVED EQUAL.
8. PROVIDE AND INSTALL PIPE INSULATION WRAP ON ALL HOT WATER LINES TO R-3 MINIMUM.

9. COPPER/COPPER ALLOY SUPPLY PIPING TO COMPLY WITH ASTM B42-2010 AND SHALL BE TYPE "L"

10. ALL PLUMBING WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ILLINOIS STATE PLUMBING CODE AS ADOPTED BY THE COUNTY OF PEORIA.

11. FLUSH ALL NEW WATER PIPING AS OUTLINED IN THE ILLINOIS STATE PLUMBING CODE.

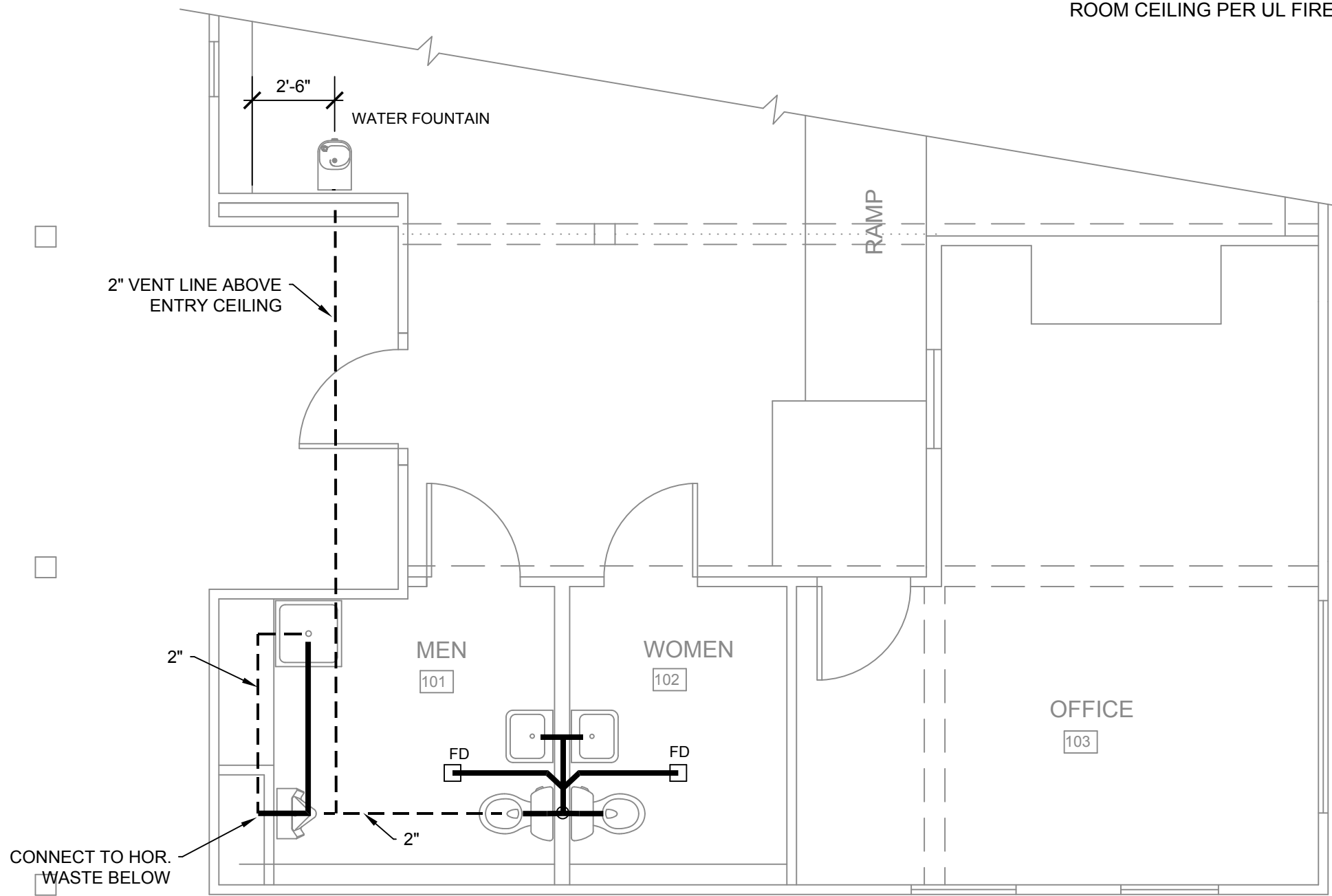
12. COORDINATE UNDER-SLAB SANITARY INSTALLATION WITH SEWAGE SYSTEM PLANS.

13. ALL FLOOR DRAINS AND FLOOR CLEAN OUTS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR SURFACE.

14. PROVIDE FIRESTOP SEALANT (HILTI CP 606 OR APPROVED EQUAL) AT ALL SUPPLY AND SANITARY PENETRATIONS THROUGH FINISHED WALLS AND CEILINGS, INCLUDING AT TOP AND BOTTOM (SOLE) PLATE. PER MANUFACTURERS INSTRUCTIONS AND PROVIDE FIRESTOP COLLARS (HILTI CP 643N OR APPROVED EQUAL) AT ALL PVC SANITARY PIPE PENETRATIONS AT EQUIPMENT ROOM CEILING PER UL FIRESTOP SYSTEM NUMBER F-C-2030.

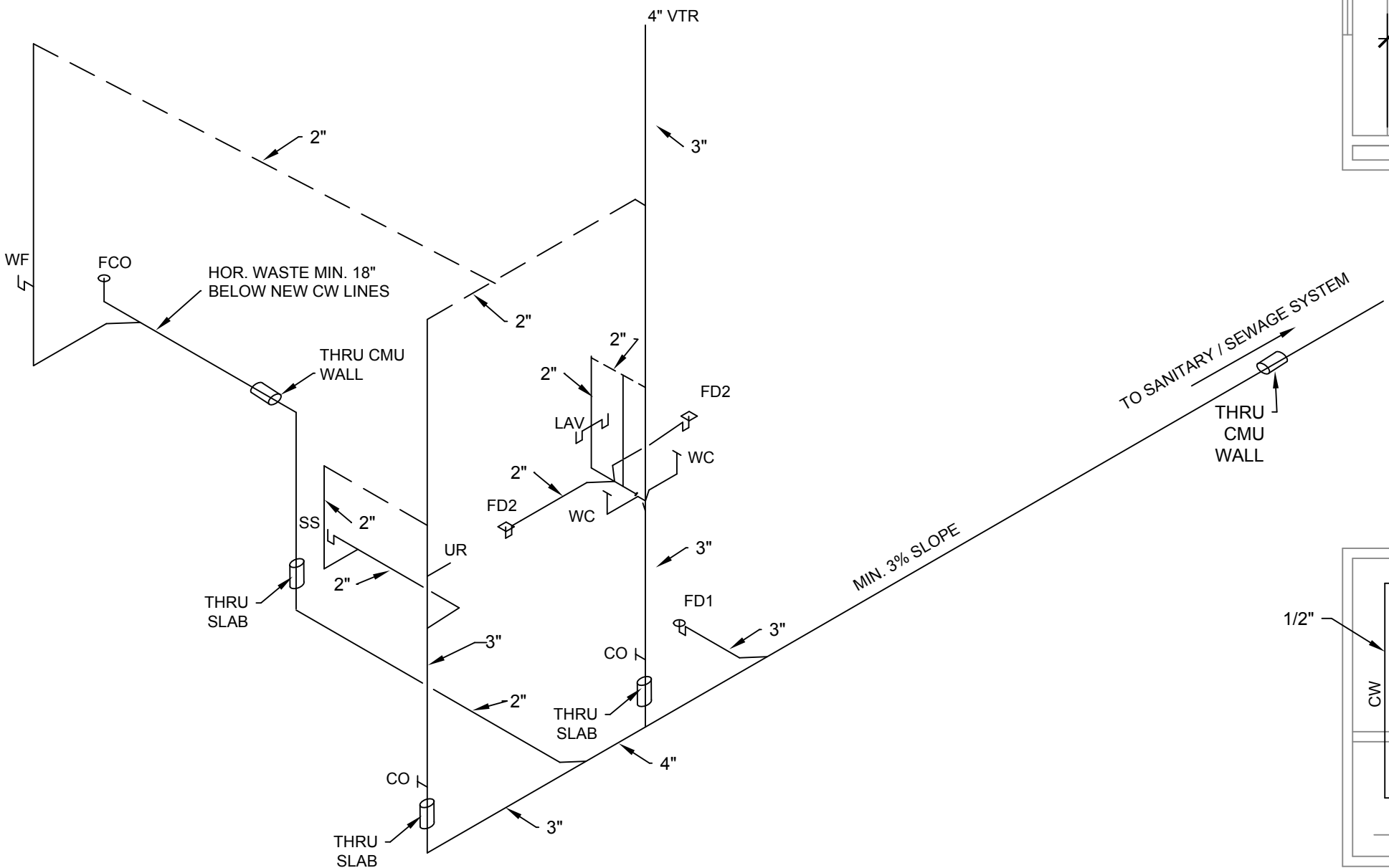
PLUMBING FIXTURE SCHEDULE				
MARK	ITEM	MANUFACTURER	CATALOG NO.	REMARKS
P1	URINAL (UR)	AMERICAN STANDARD	6590.001	WHITE
P2	URINAL FLUSH VALVE	AMERICAN STANDARD	6045.013.002	0.125 GPF
P3	SERVICE SINK (SS)	STERN WILLIAMS	MTB-2424	24"X24"X10" CONCRETE SERVICE SINK
P4	SERVICE SINK FAUCET	AMERICAN STANDARD	8344.012.002	
P5	LAVATORY SINK (LAV)	AMERICAN STANDARD	0321.026	
P6	LAVATORY FAUCET	AMERICAN STANDARD	5500.174.002	0.35 GPM;
P7	TOILET (WC)	AMERICAN STANDARD	2467.100	1.1 GPF; WHITE; FURNISH W/ SEAT-5321.110
P8	WATER FOUNTAIN (WF)	ELKAY	EDFP214C	
P9	WATER HEATER (WH)	RHEEM	RTE 9	9KW TANKLESS ELECTRIC WATER HEATER
P10	FLOOR CLEANOUT (FCO)	ZURN	ZN-Z1400-AR	6 1/8" Ø
P11	FLOOR DRAIN (FD1)	ZURN	ZN-Z415B-AR	8" Ø
P12	FLOOR DRAIN (FD2)	ZURN	ZN-Z415SH-AR	6" X 6" SQUARE STRAINER TOP

NOTE: APPROVED EQUAL MAY BE USED FOR BASIS OF DESIGN PLUMBING FIXTURE MANUFACTURER AND MODEL NUMBER LISTED.



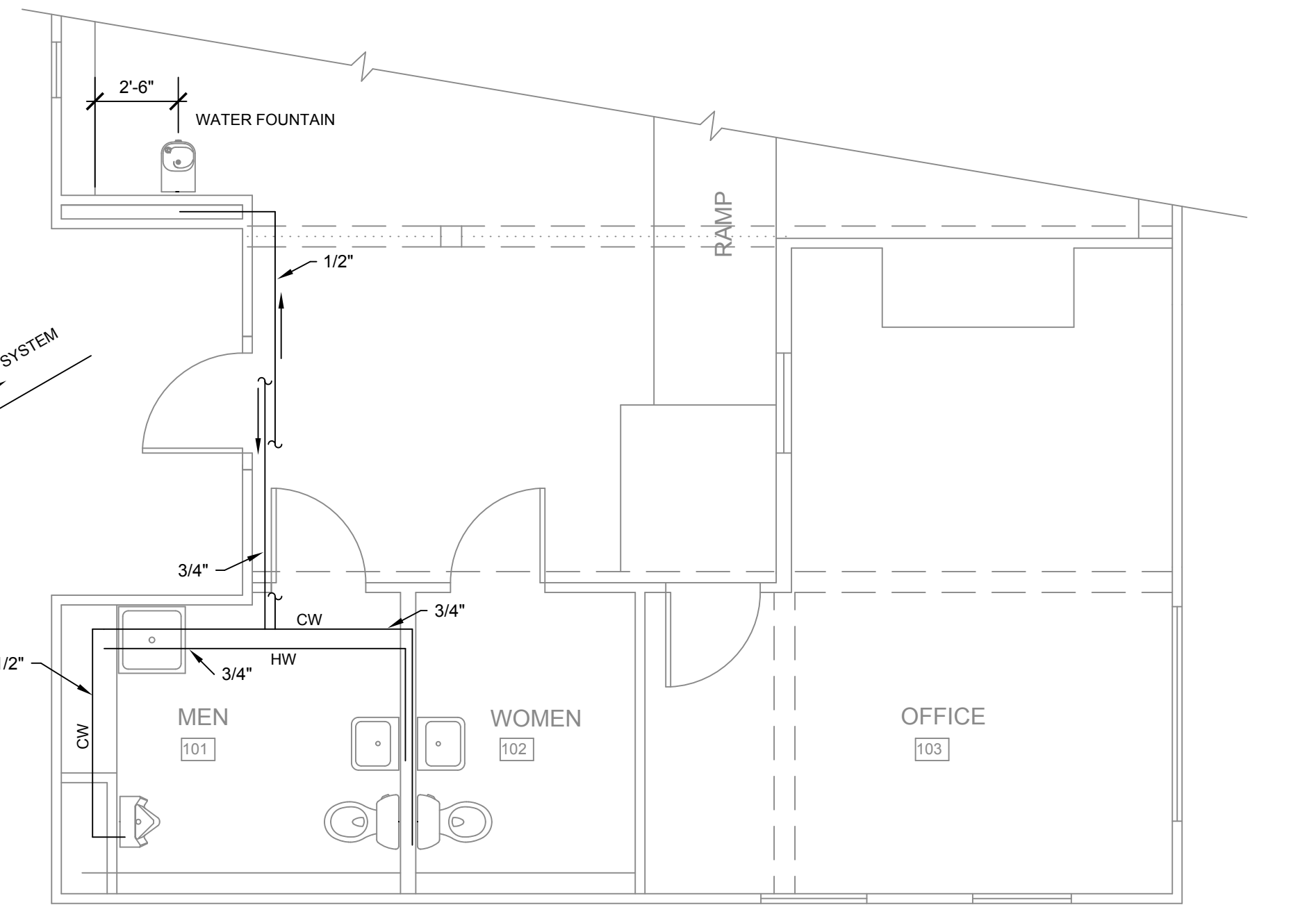
FIRST FLOOR PLAN - SANITARY

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



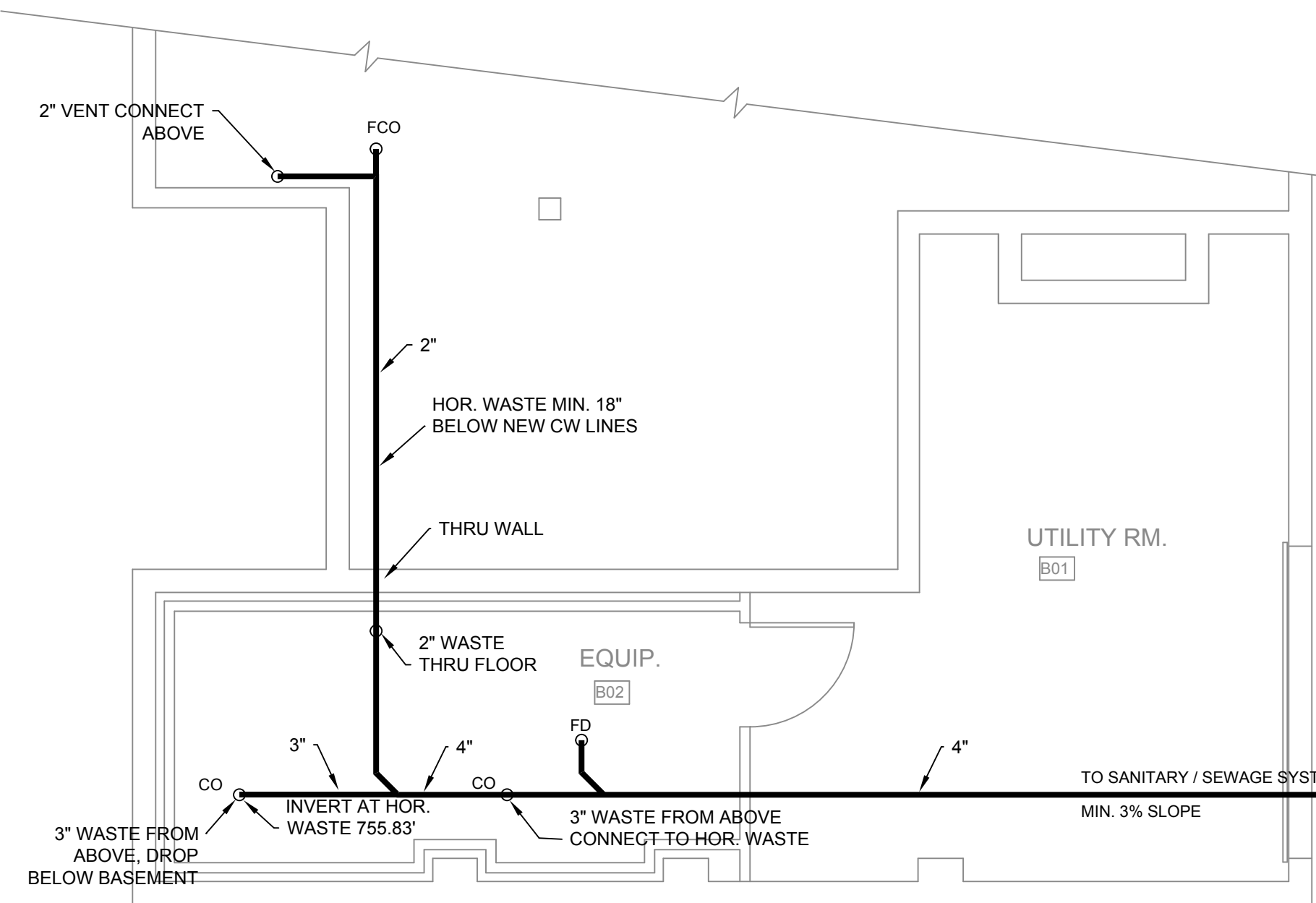
SANITARY ISOMETRIC

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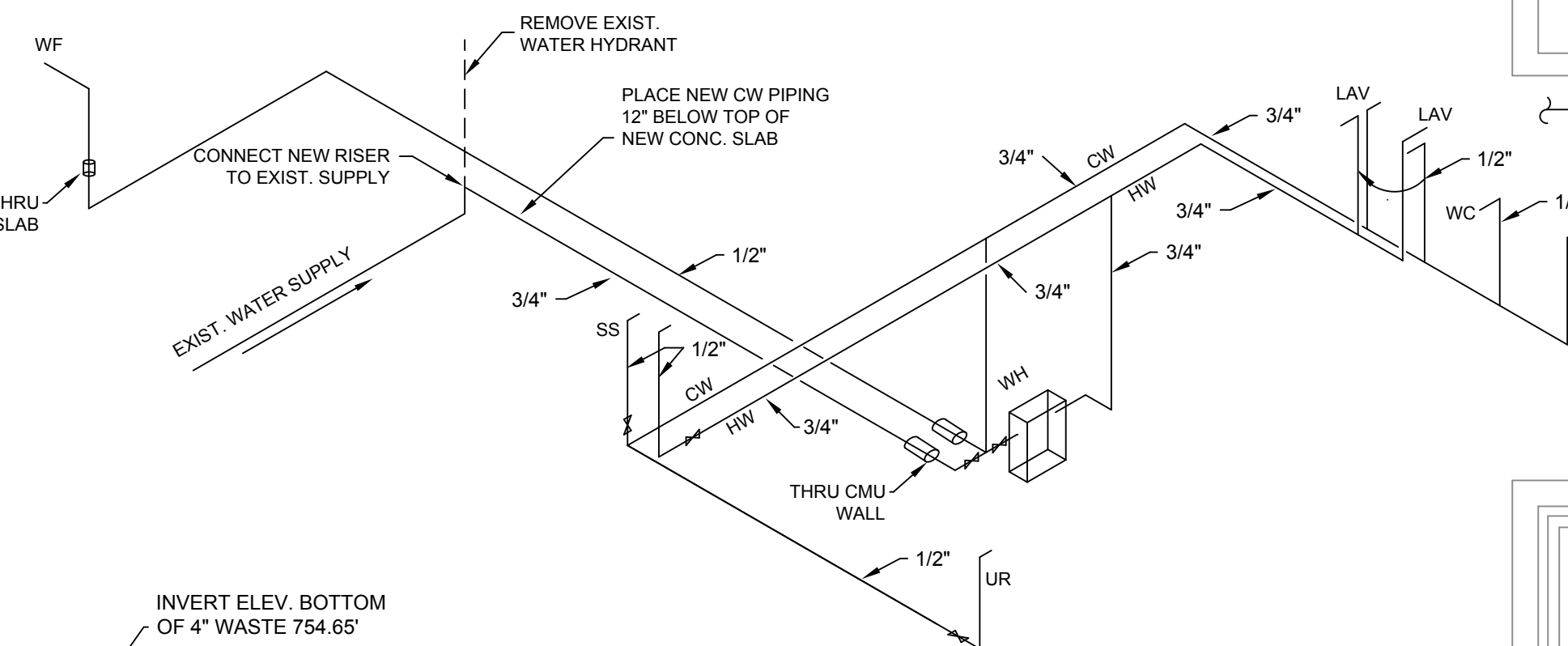
FIRST FLOOR PLAN - SUPPLY

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



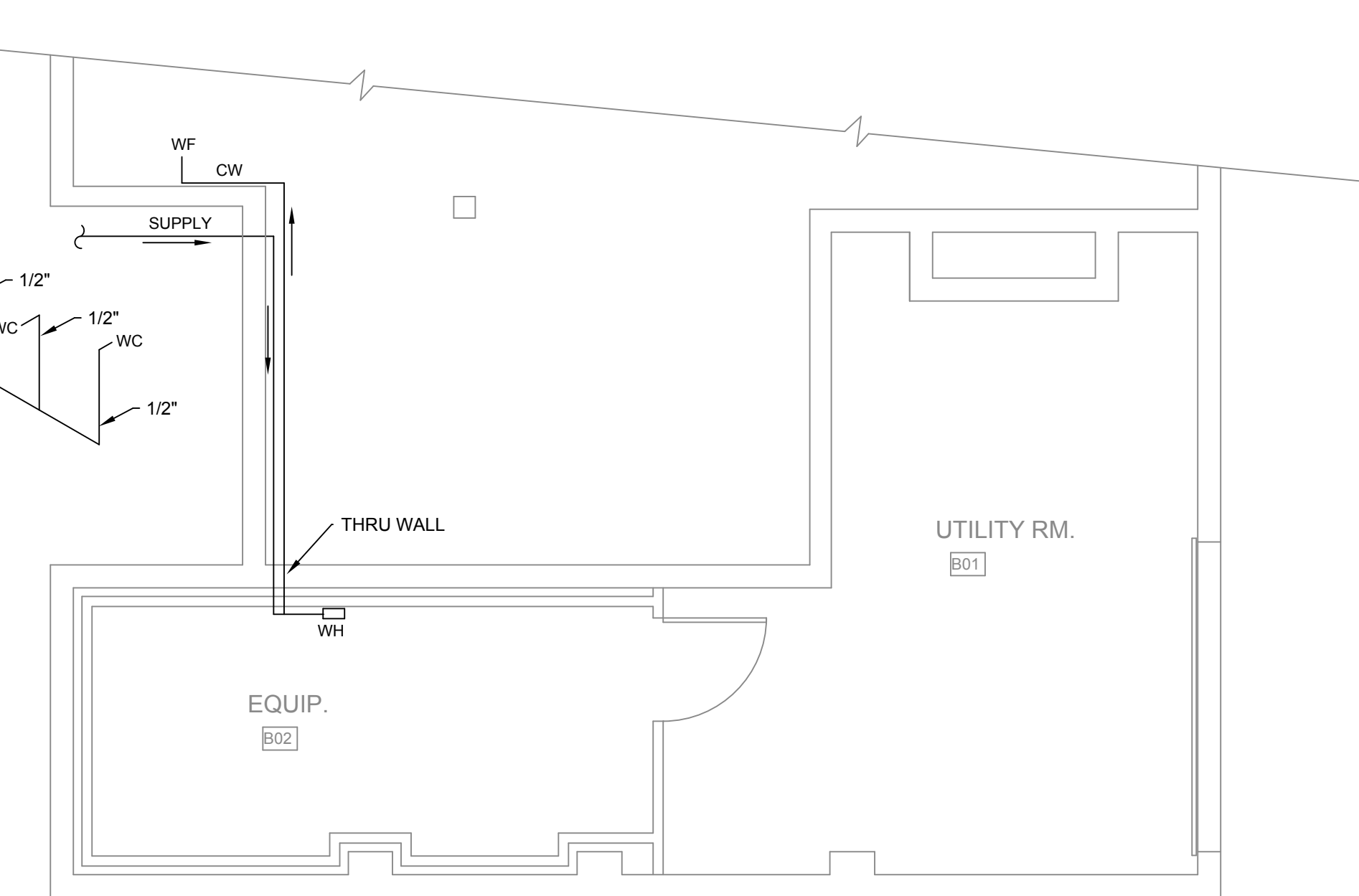
BASEMENT PLAN - SANITARY

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



SUPPLY ISOMETRIC

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BASEMENT PLAN - SUPPLY

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

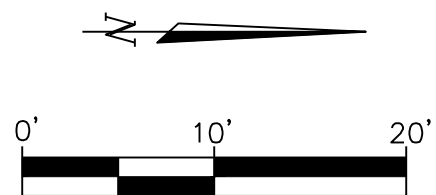
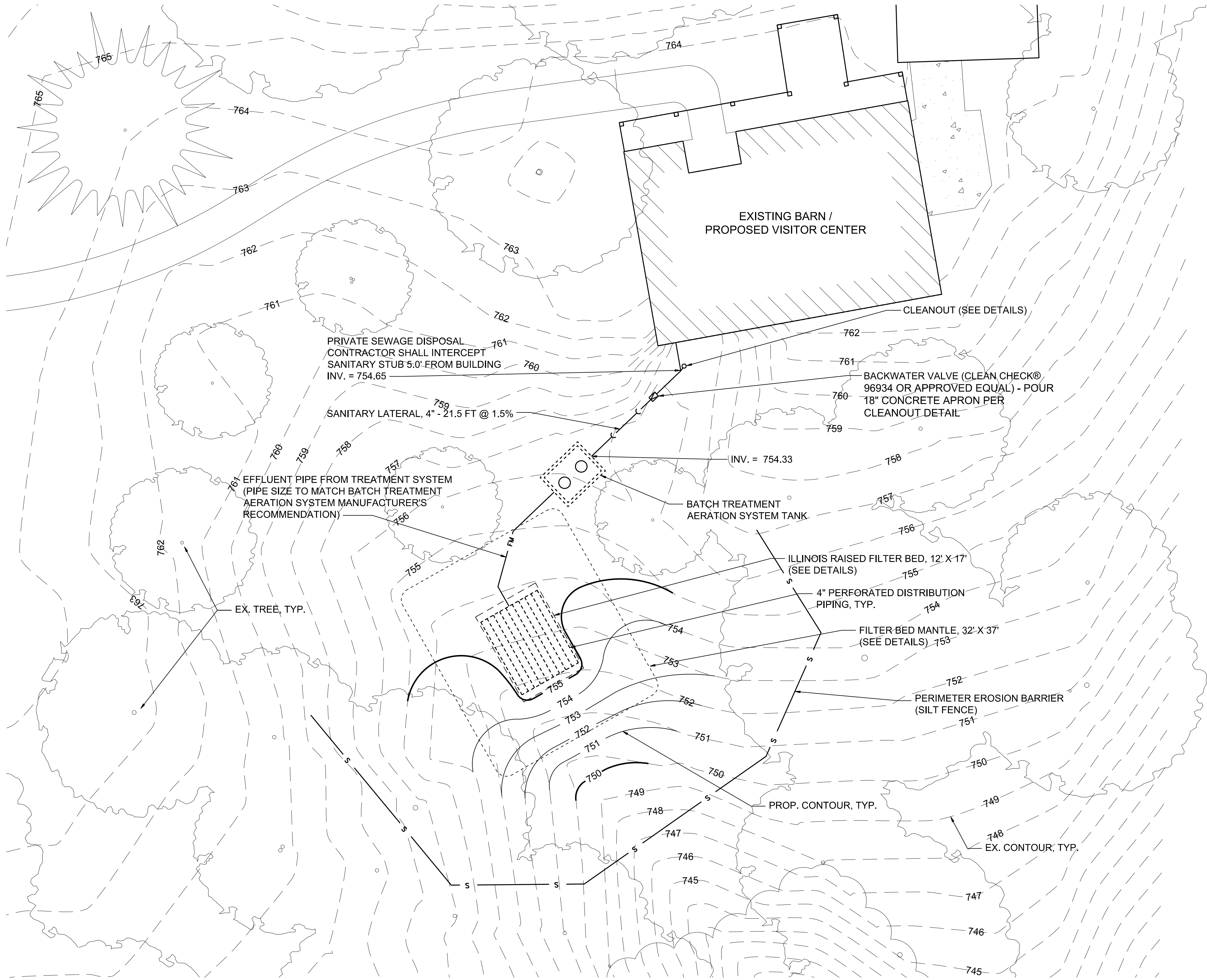
DATE ISSUED FOR: 29 JUNE 14 FINAL REVIEW -- NOT FOR CONSTRUCTION 22 JULY 14 BID DOCUMENTS

ANTHONY P. CORSO ARCHITECT PEORIA ILLINOIS

ADAPTIVE REUSE FOR: PEORIA PARK DISTRICT TAWNY OAKS WELCOME CENTER 715 W. SINGING WOODS RD. EDELSTEIN, ILLINOIS

SHEET P-100 OF 1

S:\ENGINEERING\PROJECTS\PEORIA PARK DISTRICT\20140033 TAWNY OAKS VISITOR CENTER SEPTIC SYSTEM DESIGN\400 CAD\402_XREF\TAWNY OAKS SITE DESIGN.DWG 10/10/2013 1:12 PM



NOTES:

1. PRIOR TO THE START OF EXCAVATION ALL TOPSOIL AND ANY SOIL SUITABLE AS COVER SOIL OVER THE FILTER BED SHALL BE STRIPPED AND STOCKPILED SEPARATELY. TO THE EXTENT PRACTICAL THIS MATERIAL SHALL BE USED AS FILTER BED COVER AND COVER OVER WASTED EXCAVATED MATERIAL.
2. EXCAVATED MATERIAL MAY BE WASTED ON SITE AS SHOWN ON THE DETAILS. EXCESS MATERIAL TO BE WASTED BEYOND WHAT IS SHOWN IN THE DETAILS SHALL BE WASTED ONSITE AT A LOCATION TO BE COORDINATED WITH OWNER. IN THE EVENT THAT THE OWNER DOES NOT HAVE A SUITABLE LOCATION FOR EXCESS EXCAVATED MATERIAL, THE MATERIAL WILL BE HAULED AWAY AND LEGALLY DISPOSED OF OFFSITE. MATERIAL, EQUIPMENT AND LABOR TO DISPOSE OF EXCESS EXCAVATED MATERIAL OFFSITE WILL BE PAID FOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR ADDITIONS AND DELETIONS, AND SHALL NOT BE INCLUDED IN THE BASE BID.
3. AREA WITHIN THE MANTLE LIMITS SHALL BE SEEDED WITH NO MOW LAWN MIXTURE AND COVERED WITH KNITTED STRAW BLANKET. DISTURBED AREAS OUTSIDE THE MANTLE LIMITS SHALL BE GRADED TO DRAIN, SEEDED WITH NO MOW LAWN SEED MIXTURE, AND STRAW MULCHED. SEEDING, KNITTED STRAW BLANKET AND MULCHING WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST TO FURNISH AND INSTALL THE PRIVATE SEWAGE DISPOSAL SYSTEM AND WILL NOT BE PAID FOR SEPARATELY.

PRIVATE SEWAGE DISPOSAL SYSTEM PLAN

SCALE: 1" = 10'

Issued

Rev Date
Description

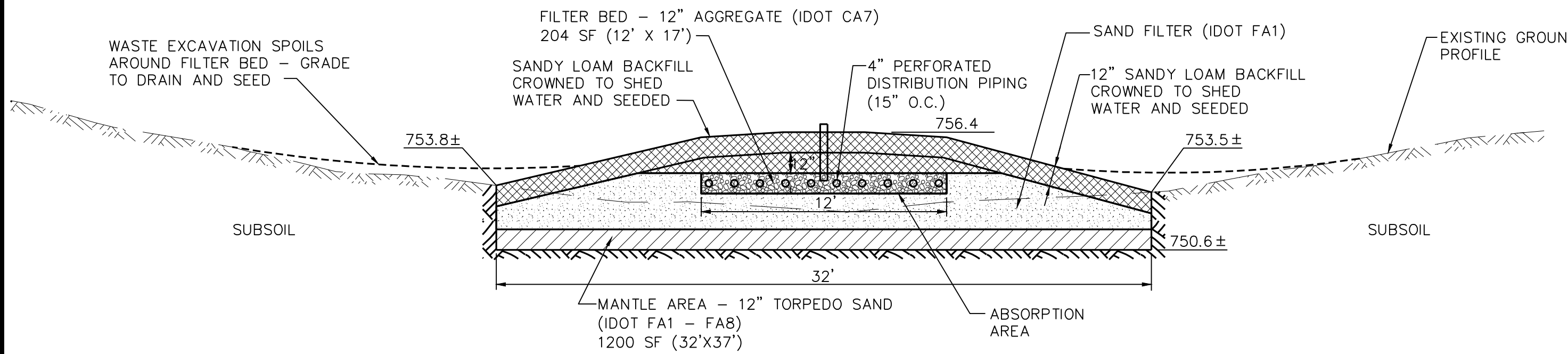
Designed: JLA 07/22/2014
Drawn: JLA 07/22/2014
Checked: DLH 07/22/2014
Approved:

PROJECT NUMBER
20140033

SHEET REFERENCE NUMBER

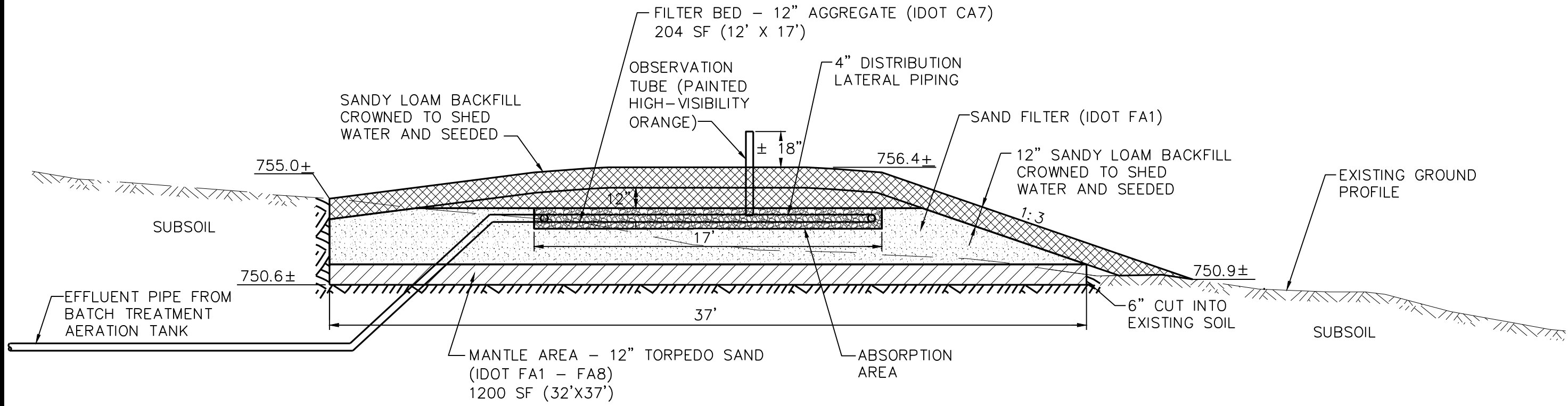
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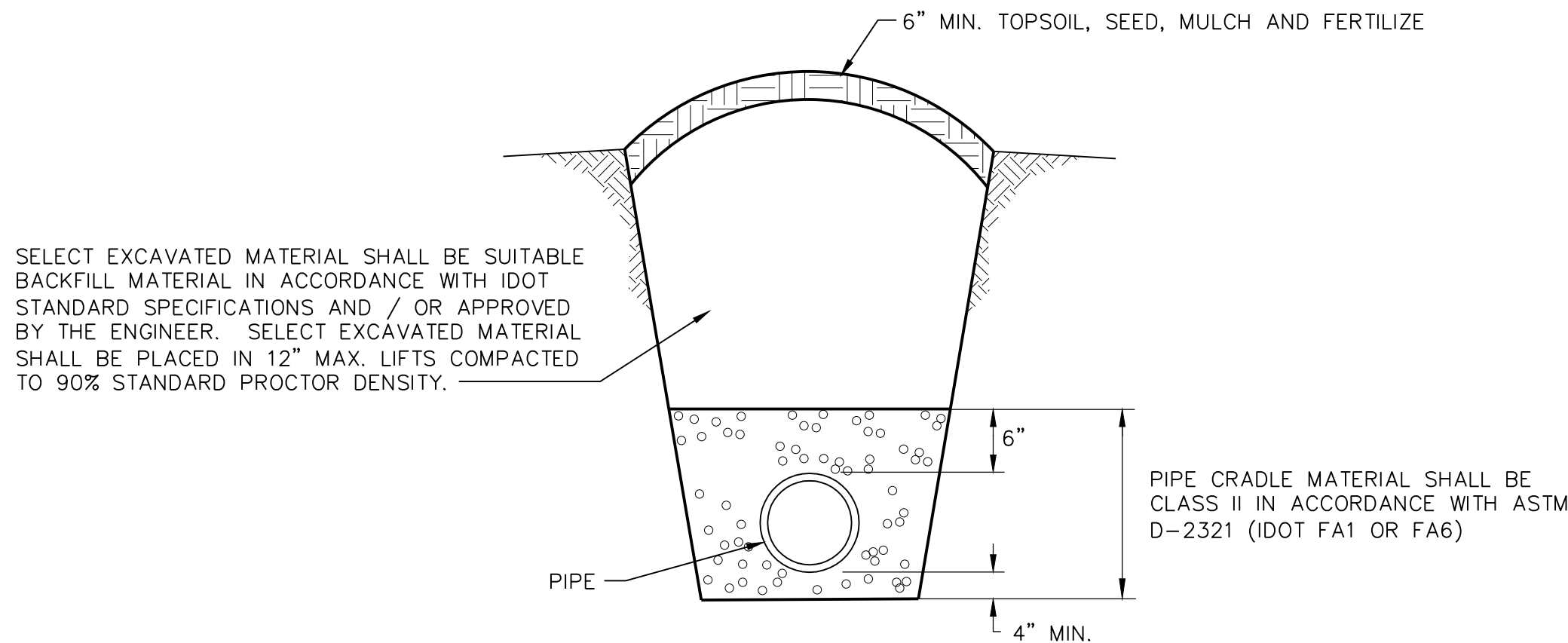
RAISED FILTER BED - END VIEW

SCALE: 1" = 5'



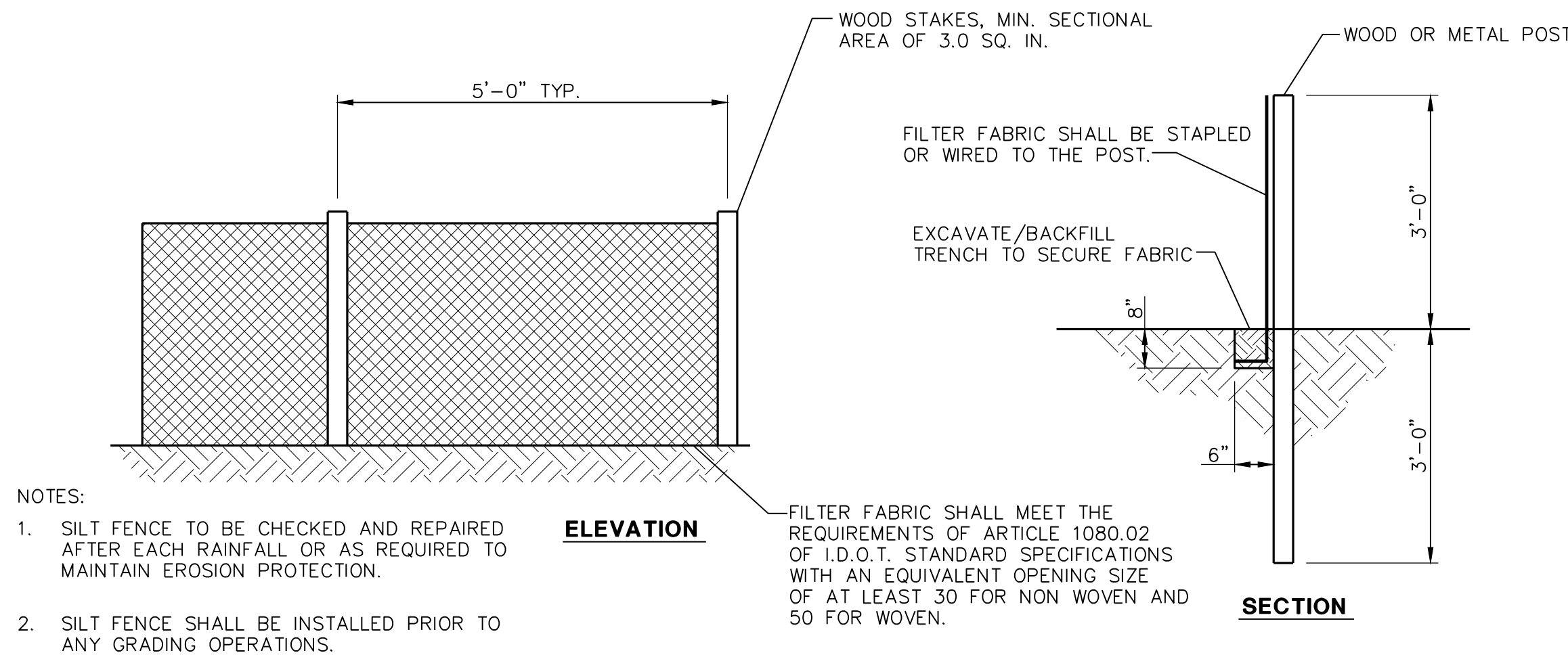
RAISED FILTER BED - LONGITUDINAL VIEW

SCALE: 1" = 5'



SANITARY LATERAL AND EFFLUENT PIPE BACKFILL DETAIL

SCALE: N.T.S.



PERIMETER EROSION BARRIER - SILT FENCE DETAIL

SCALE: N.T.S.

GENERAL PRIVATE SEWAGE DISPOSAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH ILLINOIS ADMINISTRATIVE CODE, TITLE 77, CHAP. I, SUBCHAP. R, PART 905 - PRIVATE SEWAGE DISPOSAL CODE, THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, AND PEORIA CITY/COUNTY HEALTH DEPARTMENT REQUIREMENTS.
- PRIVATE SEWAGE DISPOSAL SYSTEMS SHALL MEET THE REQUIREMENTS OF ILLINOIS ADMINISTRATIVE CODE, TITLE 77, CHAP. I, SUBCHAP. R, PART 900.30.
- SEPTIC TANKS SHALL MEET THE REQUIREMENTS OF ILLINOIS ADMINISTRATIVE CODE, TITLE 77, CHAP. I, SUBCHAP. R, PART 905.40.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL PERMIT FEES. COSTS ASSOCIATED WITH OBTAINING PERMITS, INCLUDING PAYING OF PERMITS FEES, SHALL BE CONSIDERED INCLUDED IN THE CONTRACTORS BID FOR THE FURNISHING AND INSTALLATION OF THE PRIVATE SEWAGE DISPOSAL SYSTEM AND WILL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL SIGN THE SWPPP TO SHOW COMPLIANCE WITH THE PLAN AS IT PERTAINS TO WORK IN THIS CONTRACT.
- EXCESS EXCAVATED MATERIAL SHALL BE NEATLY PLACED ONSITE, GRADED TO DRAIN AND SEEDED OR SODDED AS SHOWN ON THE PLANS. EXCAVATED MATERIAL MAY ALSO BE LEGALLY DISPOSED OFFSITE, AT THE CONTRACTORS OPTION. THIS WORK CONSIDERED INCLUDED IN THE CONTRACTORS BID FOR THE FURNISHING AND INSTALLATION OF THE PRIVATE SEWAGE DISPOSAL SYSTEM AND WILL NOT BE PAID FOR SEPARATELY. IN THE EVENT THAT THE OWNER DOES NOT HAVE A SUITABLE LOCATION FOR EXCESS EXCAVATED MATERIAL, THE MATERIAL WILL BE HAULED AWAY AND LEGALLY DISPOSED OF OFFSITE. MATERIAL, EQUIPMENT AND LABOR TO DISPOSE OF EXCESS EXCAVATED MATERIAL OFFSITE WILL BE PAID FOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR ADDITIONS AND DELETIONS, AND SHALL NOT BE INCLUDED IN THE BASE BID.
- A PORTION OF THE PROJECT MAY BE ADJACENT TO CONSTRUCTION UNDER A SEPARATE CONTRACT. THE SEPTIC CONTRACTOR SHALL COORDINATE ADJACENT AND OVERLAPPING WORK WITH ALL PARTIES INVOLVED, INCLUDING THE SITE CONTRACTOR AND BUILDING CONTRACTOR.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CUT SHEETS TO THE ENGINEER FOR REVIEW ON ALL PRIVATE SEWAGE SYSTEM COMPONENTS 7 DAYS AFTER THE NOTICE TO PROCEED. THE CONTRACTOR SHALL NOT BEGIN ANY UTILITY WORK UNTIL THE SHOP DRAWING REVIEW IS COMPLETE.

TREATMENT SYSTEM AND PIPING NOTES:

- THE BATCH AERATION TREATMENT SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH NSF/ANSI 40 AND SHALL BE RATED TO TREAT A MINIMUM OF 330 GPD.
- THE BATCH AERATION TREATMENT SYSTEM TANK SHALL HAVE A MINIMUM AVAILABLE VOLUME OF 990 GALLONS.
- TREATMENT SYSTEM SHALL FEATURE A HIGH WATER ALARM, A COMPRESSOR FAILURE ALARM, AN EMERGENCY PUMP ON SWITCH (FLOAT OR PRESSURE), AND A BACK FLOW VALVE ON THE EFFLUENT DISCHARGE PIPE.
- ALARMS SHALL BE VISUAL AND AUDIBLE.
- SYSTEM CONTROL PANEL SHALL BE SEPTIC PRODUCTS, INC. MODEL A-AV-PT OR APPROVED EQUAL. IF BATCH AERATION TREATMENT SYSTEM REQUIRES A SPECIFIC AND/OR INTEGRATED CONTROL PANEL FOR FULL FUNCTIONALITY IT SHALL BE DEEMED EQUIVALENT TO SPECIFIED PANEL IF SPECIFIC/INTEGRATED PANEL HAS NECESSARY CIRCUITRY TO CONTROL ITEMS REQUIRED BY NOTE 4.
- COORDINATE PANEL MOUNTING LOCATION WITH OWNER. CONTRACTOR TO FURNISH AND INSTALL BREAKER, CONDUIT AND CONDUCTORS FOR POWER FROM SERVICE PANEL TO SYSTEM CONTROL PANEL. CONTRACTOR TO FURNISH AND INSTALL CONDUCTORS AND CONDUIT FROM CONTROL PANEL TO SYSTEM COMPONENTS. CONDUCTORS SHALL BE #10 COPPER FROM THE SERVICE PANEL TO THE CONTROL PANEL. CONDUCTORS FROM THE CONTROL PANEL TO THE SYSTEM COMPONENTS SHALL BE PER THE SYSTEM MANUFACTURER RECOMMENDATIONS - MINIMUM #12 COPPER.
- ALL SYSTEM COMPONENTS SHALL FEATURE A MINIMUM WARRANTY OF 2 YEARS.
- SYSTEM INSTALLATION SHALL INCLUDE 2 YEAR SYSTEM SERVICE POLICY INCLUDED IN COST OF INSTALLATION. THE SYSTEM SERVICE POLICY SHALL INCLUDE:

FOUR INSPECTION/SERVICE CALLS, AT LEAST ONE EVERY 6 MONTHS, THAT INCLUDE INSPECTION, ADJUSTMENT AND SERVICING OF THE MECHANICAL AND THE APPLICABLE COMPONENT PARTS TO ENSURE PROPER FUNCTION;

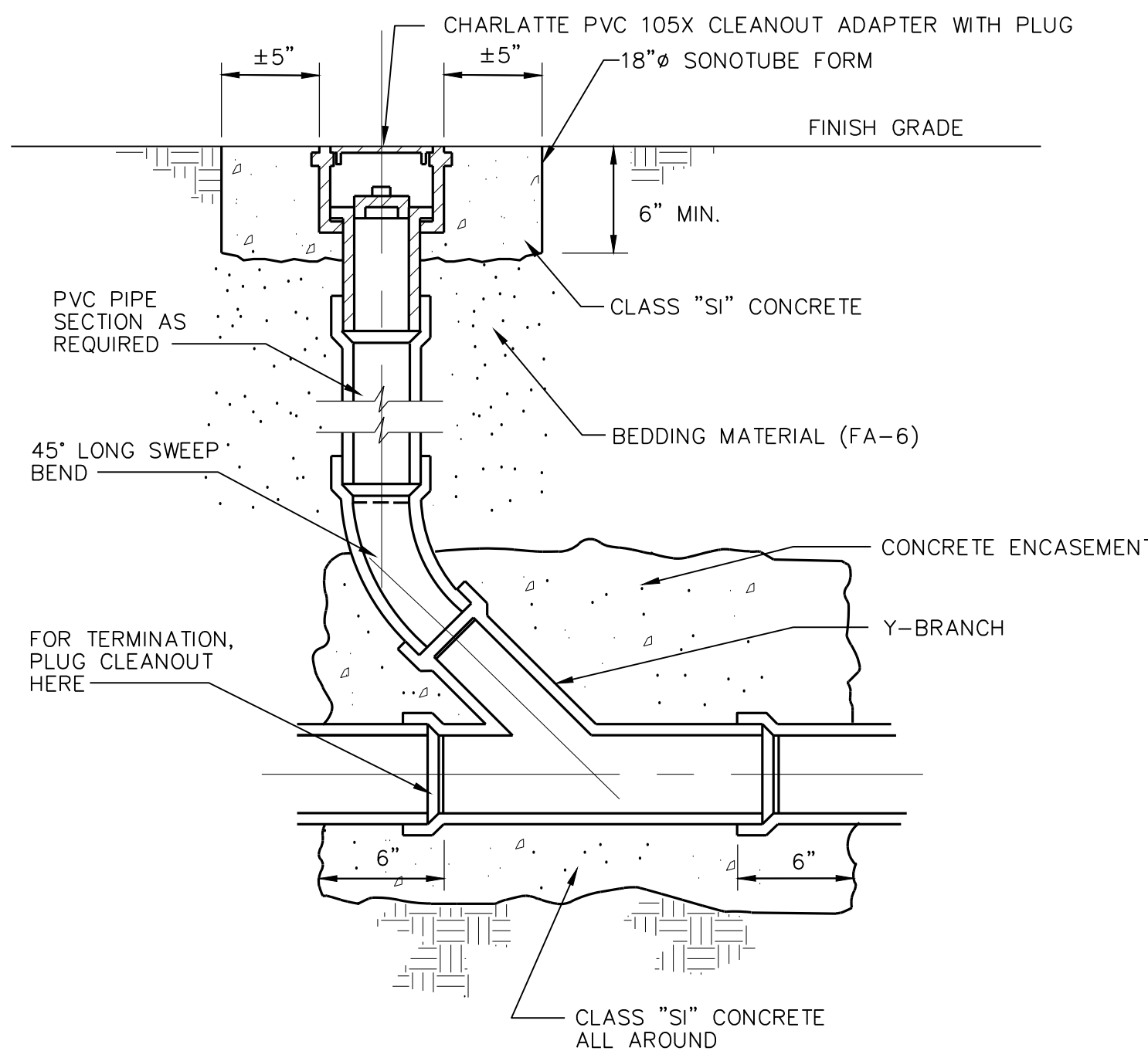
REPORTING TO THE OWNER IMMEDIATELY ANY IMPROPER OPERATION THAT CANNOT BE CORRECTED AT THE TIME OF THE INSPECTION OR SERVICE CALL. THIS SHALL BE FOLLOWED BY A WRITTEN REPORT TO THE OWNER THAT INCLUDES THE DATE BY WHICH THE CONDITION WILL BE CORRECTED.

AN EFFLUENT QUALITY INSPECTION CONSISTING OF A VISUAL CHECK FOR COLOR, TURBIDITY, SCUM OVERFLOW, AND AN EXAMINATION FOR ODORS;

REPORTING TO THE OWNER IMMEDIATELY ANY IMPROPER OPERATION THAT CANNOT BE CORRECTED AT THE TIME OF THE INSPECTION OR SERVICE CALL. THIS SHALL BE FOLLOWED BY A WRITTEN REPORT TO THE OWNER THAT INCLUDES THE DATE BY WHICH THE CONDITION WILL BE CORRECTED.

PIPE FOR SANITARY LATERAL SHALL BE ASTM D2665, SCHEDULE 40 OR ASTM D1785, SCHEDULE 40. PIPE FOR EFFLUENT DISCHARGE PIPE SHALL BE ASTM D1785, SCHEDULE 80. PIPE FOR THE DISTRIBUTION PIPING SHALL BE ASTM D2665, SCHEDULE 40 OR ASTM D1785, SCHEDULE 40. JOINTS SHALL BE SOLVENT WELDED IN THE FIELD PER ASTM D2672.

PIPE SHALL BE INSTALLED AND BACKFILLED PER THE PLAN DETAILS.



CLEANOUT DETAIL

SCALE: N.T.S.

SITE PREPARATION, GRADING, SEEDING AND SODDING NOTES:

- ALL WORK SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN AFTER REFERRED TO AS STANDARD SPECIFICATIONS) ADOPTED JANUARY 1, 2012 AND SUPPLEMENTAL SPECIFICATION WITHIN THE STANDARD SPECIFICATIONS. ARTICLES 105.01, 105.09, 105.10, 105.11, 105.12, 105.13 AND SECTION 109 SHALL NOT BE INCORPORATED INTO THIS CONTRACT. ALL REFERENCES TO "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" SHALL NOT BE INCORPORATED INTO THIS CONTRACT.
- CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
- THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE CONTRACTOR, OR THE SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES/UTILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS, CALL J.U.L.I.E. AT 1-800-892-0123 AND CONTACT THE USING AGENCY. ANY DAMAGE TO ANY OF THE UTILITIES SHALL BE PROMPTLY REPORTED TO THE OWNER AND THE A/E. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCK PILES, AND PARKED CONSTRUCTION EQUIPMENT THAT MAY POSE A POTENTIAL HAZARD TO THE DAILY OPERATIONS AT THIS FACILITY.
- PRIOR TO THE BEGINNING OF THE PROJECT, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND DIMENSIONS SHOWN AND SHALL REPORT TO OWNER AND THE A/E ANY DISCREPANCIES WHICH MAY AFFECT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL GRADE TO SMOOTH SLOPES AND CONTOURS AS SHOWN OR REQUIRED. ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE A/E. ALL DISTURBED AREAS SHALL BE SEEDED, AND MULCHED, AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND TO PREVENT EROSION.
- SEED SHALL BE NO MOW SEED MIXTURE CONSISTING OF FRESH, CLEAN, AND NEW-CROP SEED MIXTURE. SEED MIXTURE SHALL BE COMPOSED OF THE FOLLOWING VARIETIES, MIXED TO THE SPECIFIED PROPORTIONS BY WEIGHT AND TESTED TO MINIMUM PERCENTAGES OF PURITY AND GERMINATION. POA ANNUA, BENT GRASS , AND NOXIOUS WEED SEED FREE.

PROPORTIONS BY WEIGHT:	
JAMESTOWN IV CHEWING FESCUE	24.88%
QUATRO SHEEP FESCUE	24.29%
AURORA HARD FESCUE	11.92%
SWORD HARD FESCUE	12.69%
SEA LINK SLENDER CREEPING RED FESCUE	12.78%
KENT CREEPING RED FESCUE	11.80%

SEED MIXTURE SHALL BE APPLIED AT A RATE OF 5LBS/1000 SQ.FT.
- SEEDING, KNITTED STRAW BLANKET, AND MULCHING SHALL BE IN ACCORDANCE WITH ARTICLES 250 THROUGH 252 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT DISTURB AREAS BEYOND THOSE SHOWN ON THE PLANS TO BE DISTURBED AND AS REQUIRED TO COMPLETE THE PROJECT. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THIS PROJECT WHICH ARE LOCATED OUTSIDE OF THE LIMITS OF THE PROPOSED SEEDING LIMITS SHALL BE GRADED TO DRAIN AND SEEDED. THE COST ASSOCIATED WITH THE PLACEMENT OF ADDITIONAL SEED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO PLACEMENT OF TOPSOIL CONTRACTOR SHALL STRIP EXISTING VEGETATION WITHIN TOPSOIL PLACEMENT LIMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING ALL AS-BUILT DRAWINGS TO THE OWNER AND THE A/E WITHIN 30 DAYS OF RESPECTIVE UTILITY COMPLETION.
- REFERENCES TO "INSPECTION" OR "INSPECTOR" IN THE SPECIFICATIONS SHALL NOT CREATE, IMPOSE, OR GIVE RISE TO ANY DUTY OWED BY THE OWNER OR A/E TO THE CONTRACTOR, ANY SUBCONTRACTOR OR ANY SUPPLIER.
- IF THERE IS A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS, AND/OR SPECIAL PROVISIONS, THE MORE STRINGENT (AS DETERMINED BY THE A/E) SHALL APPLY.
- EROSION CONTROL MEASURES SHALL CONFORM TO "IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL" CURRENT EDITION, AND THE EROSION CONTROL PLAN FOR THIS PROJECT.
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE GRADED TO DRAIN AND SEEDED. THE COST ASSOCIATED WITH THE PLACEMENT OF SEED SHALL BE CONSIDERED INCLUDED IN THE CONTRACTORS BID FOR THE FURNISHING AND INSTALLATION OF THE PRIVATE SEWAGE DISPOSAL SYSTEM AND WILL NOT BE PAID FOR SEPARATELY.

Issued

Rev Date
Description

Designed: JLA 07/22/2014
Drawn: JLA 07/22/2014
Checked: DLH 07/22/2014
Approved:

PROJECT NUMBER
20140033

SHEET REFERENCE NUMBER

S:\ENGINEERING\PROJECTS\PEORIA PARK DISTRICT\20140033 TAWNY OAKS VISITOR CENTER SEPTIC SYSTEM DESIGN\400 CAD\402_XREF\TAWNY OAKS SITE DESIGN.DWG 10/10/2013 1:12 PM



MEMORANDUM

Date: June 10, 2014
To: Mary Harden, Peoria Park District
From: Josh Auxier, PE, LEED® AP
Subject: Soil Classification to Determine Feasibility of a Sub-Surface Seepage Field

Distribution: Mary Harden, File

Background Information and Site Description

The Peoria Park District owns and maintains Tawny Oaks Park; a large timber covered natural preserve in rural Edelstein located along Singing Woods Road. The Park consists of a large acreage of mature timber featuring native Illinois hardwood trees, a homestead, a stable, an outdoor riding arena, and an indoor riding arena. It is the Park District's desire to convert the existing stable into a Visitor Center for the Park which would require a private sewage disposal system. As a requirement for the installation of the private sewage disposal system a site soil analysis must be performed to determine the soils characteristics and permeability. This memo includes the results of the site soil analysis and recommendations for the proposed private sewage disposal system.

Methodology and Approach to Analysis

Data Collection

Samples were collected at six locations. Three locations were taken from the primary anticipated location for the private sewage disposal system, and three additional samples were collected at an alternative system location. All locations were extracted by the screw auger method, and were collected at intervals of 8-12" and when a change in soil strata was observed. Soil samples were collected, stored in airtight bags, and cataloged for classification in the lab.

100 N. Main Street • Ste. 301 • East Peoria, IL 61611 • 309.222.8600 tel • 309.698.3055 fax



Evaluation Approach

Soil samples were inspected and analyzed in accordance with requirements of Illinois Title 77: Public Health, Part 905 Private Sewage Disposal Code and the Natural Resources Conservation Service *Field Book for Describing and Sampling Soils*.

Summary of Findings

The soil samples collected and identified indicate that the soil stratum contains high clay content and in general exhibits poor permeability. See attached soil boring report for details of findings.

Proposed Solutions

Recommended Septic Design

Based on the soil analysis performed a below grade seepage system is not recommended. Several options for private sewage disposal systems are feasible based on the soils on the site and these options include a sand filter design, an aerobic treatment plant, or Illinois Raised Filter Bed combined with a batch treatment aeration system. It is our recommendation to install an Illinois Raised Filter Bed and a batch treatment aeration system as it will eliminate a surface discharge, it can be positioned on the site to be aesthetically pleasing, and can be easily constructed to meet site conditions.

Closing

Thank you for the opportunity to assist the Peoria Park District regarding this Project. If you have any questions or need additional information please do not hesitate to contact us. If you prefer, we would be happy to set up a meeting to go over these findings and recommendations.

Very respectfully,

Josh L. Auxier, PE, LEED® AP
jauxier@mweainc.com

Appendices Follow

100 N. Main Street • Ste. 301 • East Peoria, IL 61611 • 309.222.8600 tel • 309.698.3055 fax



Shallow Boring Report

Client Name: Peoria Park District
Project Name: Site Development at Tawny Oaks
Project Location: 715 W. Singing Woods Road, Edelstein, IL
Project Number: Park District 13-036 / MWEA 20140034
Date of Field Work: 5/5/2014
Field Work By: Matt Youngman / Jim Bessler
Soil Classified By: Josh Auxier, PE
Reviewed By: David Horton, PE / Nate Parrot, RLA

Boring:	1	Depth to Saturated Soil:	Greater than 60"	Land Slope:	5-10%
Depth (inches)	Soil Characteristics				
	Matrix Wet	Texture	Material	Structure	Consistence
0-20	10YR 4/3	CL	Till	Blocky	Firm
20-48	10YR 5/4	C	Till	Massive	Firm
48-64	10YR 4/4	SiC	Till	Massive	Firm

Boring:	2	Depth to Saturated Soil:	Greater than 60"	Land Slope:	5-10%
Depth (inches)	Soil Characteristics				
	Matrix Wet	Texture	Material	Structure	Consistence
0-8	10YR 5/3	SiCL	Till	Blocky	Firm
8-24	10YR 4/4	SiC	Till	Massive	Firm
24-60	10YR 4/6	SiC	Till	Massive	Very Firm

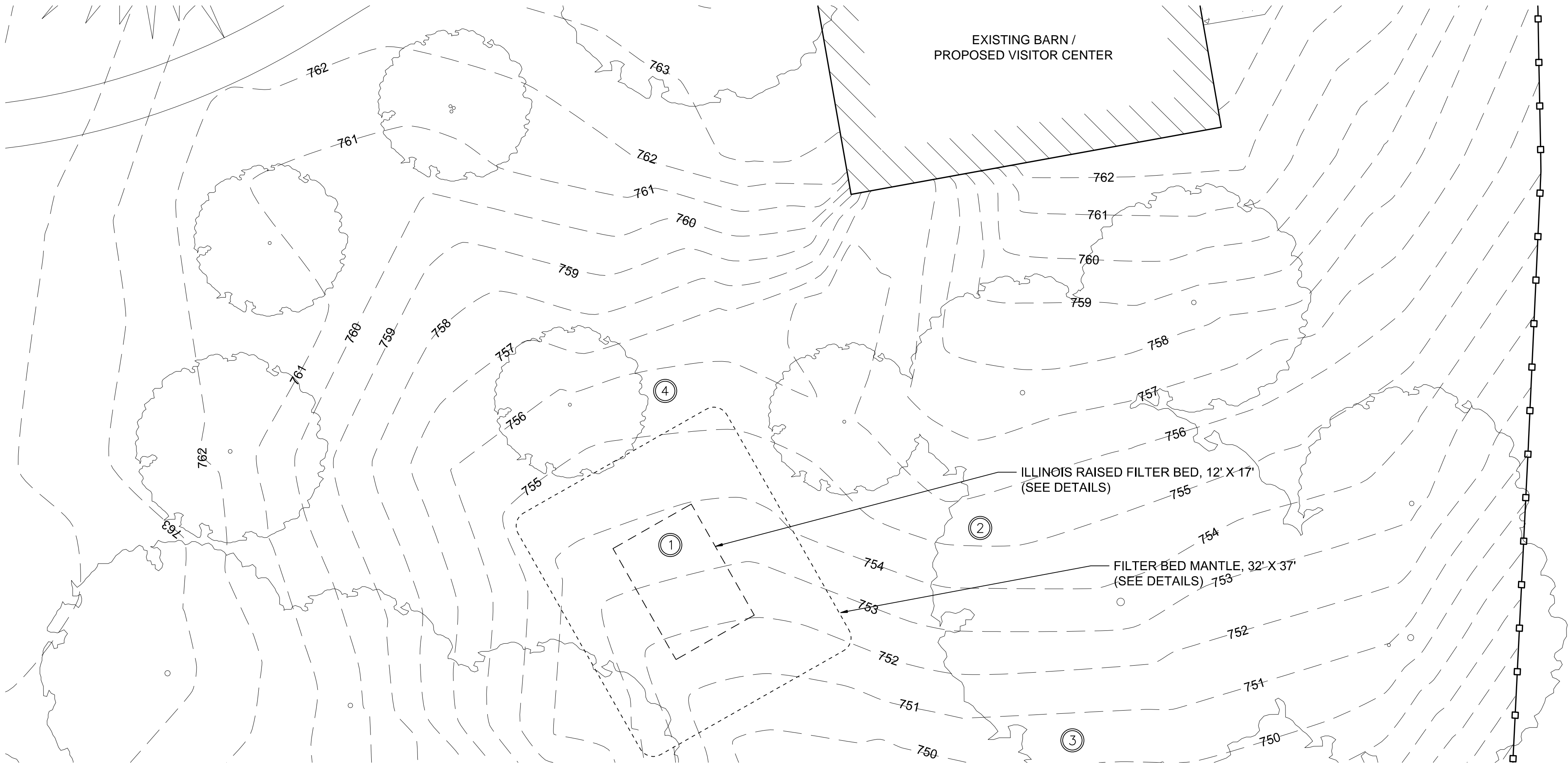
Boring:	3*	Depth to Saturated Soil:	Greater than 60"	Land Slope:	5-10%
Depth (inches)	Soil Characteristics				
	Matrix Wet	Texture	Material	Structure	Consistence
0-48	10YR 2/2	LS	Loess	Crumb	Very Friable
48-60	10YR 2/2	SiCL	Till	Massive	Very Firm
60-72	10YR 4/6	SiC	Till	Massive	Very Firm

*Boring 3 appeared to be inconsistent with other borings and general adjacent soil characteristics.

Boring:	4	Depth to Saturated Soil:	Greater than 60"	Land Slope:	5-10%
Depth (inches)	Soil Characteristics				
	Matrix Wet	Texture	Material	Structure	Consistence
0-24	10YR 5/3	CL	Till	Blocky	Firm
24-32	10YR 4/2	SiC	Till	Blocky	Very Firm
32-60	10YR 4/2	SiC	Till	Massive	Very Firm

Texture Abbreviations

C Clay
CL Clay Loam
SiC Silty Clay
SiCL Silty Clay Loam
LS Loamy Sand



BORING LOCATION MAP

SCALE: 1" = 10'



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184-005896

PARK DISTRICT OF PEORIA
TAWNY OAKS VISITOR CENTER
IMPROVEMENTS
715 W. SINGING WOODS RD.
EDELSTEIN, IL

SOIL BORING DATA AND
LOCATION MAP

Issued

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CE 3

SHEET 3 OF 3