



Anoka County

FINANCE & CENTRAL SERVICES DIVISION

Respectful, Innovative, Fiscally Responsible

REQUEST FOR BIDS

*Lake George Park
Picnic Pavilions and
Restroom Improvements*

July 2019

Prevailing Wages Required

**ANOKA COUNTY
2100 3RD AVENUE
SUITE 300
ANOKA, MN 55303
WWW.ANOKACOUNTY.US**

ANOKA COUNTY PURCHASING

REQUEST FOR BIDS SUMMARY SHEET

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY ANOKA COUNTY WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH THE ACCOMPANYING SPECIFICATIONS.

PROJECT NAME: Lake George Park – Picnic Pavilions and Restroom Improvements

DESCRIPTION/BACKGROUND: Anoka County is seeking bids for modifications to three (3) picnic pavilions and improvements to three (3) restroom buildings.

RELEASE DATE: Friday, July 26, 2019

PRE-BID MEETING: YES
MANDATORY: YES
DATE/TIME: Monday, August 19, 2019 2:30 P.M.
LOCATION: Lake George Regional Park, 3100-217th Ave NW, Oak Grove, MN 55303 – Pavilion #5 (just east of boat launch)

QUESTIONS DUE: Wednesday, August 21, 2019 by 3:00 P.M.
RESPONSES ISSUED: Friday, August 23, 2019 by 3:00 P.M.

BIDS DUE: Thursday, August 29, 2019 at 3:00 P.M.
SUBMISSION LOCATION: 2100 3rd Avenue, Room 710, Anoka, MN 55303

AUTHORIZED COUNTY REP: Michelle Peterson, Contract Specialist
2100 3rd Avenue, Suite 300, Anoka, MN 55303
Michelle.Peterson@co.anoka.mn.us or 763.324.1705

TERM OF CONTRACT: Upon Satisfactory Completion

BID SECURITY (SUBMIT WITH BID): YES 5% of total bid
PERFORMANCE BOND/PAYMENT BOND: Required for projects over \$50,000
CRIMINAL BACKGROUND CHECK REQUIRED: NO

AWARD DATE: September 10, 2019 (tentative)
NOTICE TO PROCEED: October 10, 2019 (tentative)
FINAL COMPLETION DATES: Substantial completion by May 15, 2020;
Final completion by June 15, 2020

LIQUIDATED DAMAGES: YES IF YES, SEE SECTION D

RESPONSIBLE CONTRACTOR ACT VERIFICATION FORM: Required for projects over \$50,000
YES IF YES, SEE EXHIBIT C

PREVAILING WAGES: YES IF YES, SEE EXHIBIT D

ANOKA COUNTY PURCHASING

REQUEST FOR BIDS PACKAGE CONTENTS

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY ANOKA COUNTY WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH THE ACCOMPANYING SPECIFICATIONS.

Bids will be awarded to the lowest responsive/responsible responder based on, but not necessarily limited to general reputation and experience of bidders, adherence to all bid requirements, and County's evaluation of the bidder's ability to service the County in terms of its requirements as called for in the bid documents. Anoka County may award to multiple vendors in whole or in part, by item, group of items, or by section where such action serves the County's best interests of the County.

IMPORTANT! All clarifications and/or questions must be submitted in writing to the County's authorized representative shown above. Contact regarding this project with any County personnel other than the Authorized County Representative or direct contact with the project consultant may result in rejection of the project submission.

This bid document package contains the following documents:

- A. Summary Sheet
- B. Advertisement
- C. Information for Bidders
- D. General Conditions and Contract Requirements
- E. Pavilion Modification Specifications
- F. Restroom Improvements Specifications
- G. Bid Form
- H. Exhibits (*check all that apply*)
 - ☒ Exhibit A – Insurance Requirements
 - ☒ Exhibit B – Sample Agreement
 - ☒ Exhibit C – Responsible Contractor Act Verification Form
 - ☒ Exhibit D – Prevailing Wages
 - ☒ Exhibit E – Women/Minority Owned Business Reporting Form
 - ☒ Exhibit F – Lake George Maps

2019-13
ADVERTISEMENT FOR BIDS
LAKE GEORGE PARK – PICNIC PAVILIONS AND RESTROOM IMPROVEMENTS

The County Administrator to the County Board, Anoka County, State of Minnesota, will receive Bids at the Administration Office, 7th Floor, Government Center, 2100 3rd Avenue, Room 710, Anoka, Minnesota, until Thursday, August 29, 2019 at 3:00 P.M.

Detailed requirements are in the Bidding Documents that may be obtained at:

1. Information at Anoka County Website, www.AnokaCounty.us/bids
2. Bidding Documents are available from www.publicpurchase.com

A mandatory pre-bid conference will be held on Monday, August 19, 2019 – 2:30 p.m. at Lake George Regional Park, 3100-217th Ave NW, Oak Grove, MN 55303 at Pavilion #5 (just east of the boat launch).

If you have a disability and need accommodation, such as an interpreter or printed material in an alternate format (i.e., Braille, large print, or audio), contact Lindsey Felgate, Finance & Central Services Department, at (763) 324-1700, Federal Information Relay Service @ 1-800-877-8339 for TTY/Voice Communication.

(This area not for publication)

/s/ _____
Rhonda Sivarajah
Anoka County Administrator

/s/ _____
Christine Carney
Assistant Anoka County Attorney

Publish In:

Anoka County Union Herald – July 26, August 2 and 9, 2019

C. INFORMATION FOR BIDDERS

1. It is the intent of this document for the successful bidder to provide the County with the material and labor for the project named on the summary sheet and as described in the bidding documents.
2. All sealed bids shall be submitted on the proper bid proposal forms provided. All blank spaces on the bid must be filled in, in ink or typewritten, and the bid proposal form must be fully completed and signed when submitted. All bids by corporations shall bear the official seal of the corporation, if applicable, along with the signature of a duly authorized officer of the corporation.
3. All bid envelopes must be sealed and bear the project name found on the summary sheet together with the firm name and address of the bidder. The bid envelopes shall be addressed to the County's authorized location found on the summary sheet and will be publicly read aloud, unless otherwise indicated on the summary sheet.
4. Bids received prior to the time of opening will be kept secure and unopened. The official whose duty it is to open bids shall determine when the specified time has arrived. No bid received thereafter will be considered and will be returned to the bidder unopened.
5. The bid package consists of the items listed on page two of the summary sheet of this request for bids, including all exhibits and addenda issued thereafter.
6. For purposes of this bid package, the terms "Bidder" and "Contractor" may be used interchangeably. Any reference to "Contractor" means the successful bidder.
7. No responsibility will attach to the County for the premature opening of a bid not properly addressed and identified.
8. After bids have been officially opened, no bid may be withdrawn for a period of 60 days, and then only by written notification to the Director of Risk Management and Purchasing.
9. In the case of a variance between written words and figures in a bid, the amount stated in written words shall govern. In case of unit price difference from extended figure, the unit price shall govern.
10. All alterations or erasures must be crossed out and the corrections thereof printed in ink or typewritten adjacent thereto. The corrections must be initialed in ink by each person signing the bid proposal form.
11. All bids must comply with and not deviate from the provisions of the specifications and other bidding documents.
12. Revisions or interpretations made by the County shall be by addendum in writing issued prior to the due date set for bids. Any explanation desired by bidders must be requested from the County's authorized representative located on the summary sheet in writing or via email. If explanation is necessary, a reply will be made in the form of an addendum. Information obtained from an unauthorized officer, agent, or employee of the County shall not affect the obligations assumed by the bidder nor relieve the bidder from fulfilling any of the conditions herein.
13. Any modification, insertion, deletion, or change, except as caused by a County addendum, shall be cause for the rejection of the bid. Should any bidder wish to submit amplifying data with bidder's bid, the bidder should make a statement on the bottom of the proposal that such amplifying material is a part of the bid and attach said material to the bid proposal form.

14. The bidder shall not be allowed to take advantage of any errors or omissions in the specifications. Where errors or omissions appear in the specifications, the bidder shall promptly notify the County of such error or omission. Inconsistencies in the specifications are to be reported before bids are received, wherever found.
15. Bids received prior to the time of opening will be securely kept unopened. The officer whose duty it is to open them will decide when the specified time has arrived and no bid received thereafter will be considered. Bids received after the time set for opening will be returned to the bidder unopened. No responsibility will attach to an officer for the premature opening of a bid not properly addressed and identified.
16. The County shall not physically release or return to the bidder any bid for the purpose of modification, withdrawal, or any other purpose whatsoever, until after the bids are officially opened and acknowledged.
17. **Non-Exclusiveness of Remedies.** Any right or remedy on behalf of the County (or on behalf of any other entity possessing the right or permission to buy under these specifications) provided for in any part of these specifications, including, but not limited to any guaranty or warranty or any remedy for contractor's non-performance, shall be in addition to and not a limitation of any right or remedy otherwise available by law, equity, or statute.
18. **Bidder Qualifications.** A contract will only be awarded to a qualified bidder. To demonstrate qualification for the project, each bidder shall complete the bidder Qualification statement and References section of the Bid Proposal Form as written evidence.

To demonstrate qualification for the project, each Bidder shall be prepared to submit, within five (5) days of County's request, written evidence that Bidder involved (1) maintains a permanent place of business; (2) has adequate staff and equipment to do work properly and expeditiously within established schedules; (3) has suitable financial status to meet obligations incident to the work including a financial statement and credit references; (4) has a satisfactory experience record with a minimum of three projects that involve similar work and size exceeding 75% of the size included in this project and that are at least two years old (these references shall include project schedules, including bid date, start and completion dates, County and/or Engineer/Architect contacts including names, addresses and telephone numbers, and the specific components existing and installed on each referenced project); (5) submit an anticipated construction schedule and staffing plan (6) submit "Contractor's Qualification Statement," AIA Document A305 (7) can show evidence of authority to conduct business in the jurisdiction where the project is located; and (8) the bidder shall demonstrate that they will perform at a minimum 60 % of the work with its own work force and that the bidder shall upon request provide information of all subcontractors who will work on the project including names, addresses, telephone numbers, and indicate what improvements the sub-contractor will be installing.

19. **BID SECURITY.** If indicated on the summary sheet, your bid must be accompanied by a certified check, cashier's check or bid bond payable to the Anoka County Treasurer, in the amount indicated on the summary sheet. No personal checks will be accepted.

As soon as the bids have been reviewed and bid prices have been compared, the County shall return the bid securities of all except the three lowest responsive, responsible bidders. When a purchase contract is fully executed, the bid securities of the remaining unsuccessful bidders will be returned.

20. **BIDDER'S EXPERIENCE.** Prior to the award of the Contract, the apparent successful bidder, if requested by the County, shall furnish current information and data regarding the bidder's financial resources and organization, within five (5) working days. The County shall have the right to take such steps as it deems necessary to determine the ability of the bidder to perform the work, and

the bidder shall furnish the County all such information and data for this purpose as the County may request. The right is reserved to reject the bid where the available evidence or information does not satisfy the County that the bidder is qualified to carry out properly the terms of the contract. The expertise of the bidder in the particular field of endeavor must be demonstrated and documented to the full satisfaction of the County, upon request, or the bid may be rejected by the County.

21. The bid award shall be based on, but not necessarily limited to the following factors of the bidder:

- a. Adherence to all bid requirements;
- b. Time of completion;
- c. General reputation and experience of bidders;
- d. County's evaluation of the bidder's ability to service the County in terms of its requirements as called for in these documents;
- e. The needs and requirements of the County;
- f. Total cost,
- g. Responder's previous related project experience;
- h. Responder's ability to meet seed requirements as called for in these documents;
- i. No bidder which discriminates against persons protected by the Anoka County Affirmative Action Policy shall be considered a responsible bidder.

22. The County reserves the right to disqualify any bid, before or after opening, upon evidence of collusion with intent to defraud, or other illegal practices upon the part of the bidders, or for noncompliance with the requirements of these documents.

23. **PROTEST PROCEDURES.** The Anoka County Bid Protest policy can be found at: http://www.anokacounty.us/v1_departments/div-finance-cent-serv/dept-fmcs/purchasing/documents/ProtestProcedure.pdf

All questions regarding the protest should be directed to:
Lindsey Felgate, Purchasing Manager
763-324-1735 or Lindsey.Felgate@co.anoka.mn.us

24. No bidder which discriminates against persons protected by the Anoka County Affirmative Action Policy shall be considered a responsible bidder.

25. By submitting a bid, the bidder certifies that it is the only party interested in its proposal, and that its proposal is made and submitted without fraud or collusion with any other person, firm, or corporation whatsoever.

26. The evaluation of bids and the determination as to the quality of the supplies, materials, and services offered shall be the responsibility of the County and will be based on information furnished by the bidder, or identified in his bid, as well as other information reasonably available to the County.

27. **BID AWARD.** The County shall notify the successful bidder upon awarding the project. All bids shall be held firm until the award has been made.

28. **ADDITIONAL DATA.** Should any bidder wish to submit amplifying data with this bid, he/she should make a statement on the bottom of the proposal that such amplifying material is a part of the bid and attach said material to the bid proposal form.

D. GENERAL CONDITIONS AND CONTRACT REQUIREMENTS

The following terms, together with the Summary Sheets, Information for Bidders, Specifications, and completed Bid Proposal Form, shall be incorporated into the Contract with the successful bidder, but may be modified by the provisions of the contract. Hereinafter, references to the successful "Bidder" may be interchangeably referred to as "Contractor" or "Responder" or "Vendor" and those terms shall have the same meaning in identifying the person or entity responding to this Bid.

1. **INDEPENDENT CONTRACTOR.** Any and all employees of the Contractor or other persons while engaged in the performance of any work or services required by the Contractor under this agreement shall not be considered employees of the County and any and all claims that may or might arise under the Worker's Compensation Act of Minnesota on behalf of said employees or other persons while so engaged, and any and all claims made by any third party as a consequence of any act or omission on the part of the work or service provided to be rendered herein shall in no way be the obligation or responsibility of the County. Contractor guarantees that it shall have Worker's Compensation Insurance in effect throughout the terms of this agreement, as required by Minn. Stat. § 176.182, and shall provide a certificate evidencing such insurance prior to executing the Contract.
2. **NON-DISCRIMINATION.** By submission of a bid, bidder agrees to abide by all provisions of Minn. Stat. § 181.59, as amended, entitled "Discrimination on Account of Race, Creed, or Color Prohibited in Contract," set forth herein.

Every contract for or on behalf of the State of Minnesota, or any county, city, town, township, school, school district, or any other district in the state, for materials, supplies, or construction shall contain provisions by which the contractor agrees:

- a) That, in the hiring of common or skilled labor for the performance of any work under any contract, or any subcontract hereunder, no contractor, material supplier, or vendor, shall, by reason of race, creed, or color, discriminate against the person or persons who are citizens of the United States who are qualified and available to perform the work to which such employment relates;
- b) That no contractor, material supplier, or vendor, shall, in any manner, discriminate against, or intimidate, or prevent the employment of any such person or persons, or on being hired, prevent, or conspire to prevent, any such person or persons from the performance of work under any contract on account of race, creed, or color;
- c) Any violation of this section shall be a misdemeanor; and
- d) That this contract may be canceled or terminated by the state, county, city, town, school board, or any other person authorized to grant contracts for such employment, and all money due, or to become due hereunder, may be forfeited for a second or subsequent violation of the terms or conditions of this contract.

3. **DECLARATION OF POLICY OF AFFIRMATIVE ACTION**

Anoka County acknowledges that equal opportunity for all persons is a fundamental human value. Consequently, it is the policy of the County to provide equal opportunity in employment and personnel management for all persons; to provide access to, admission to, full utilization and benefit of training and promotional opportunities without discrimination because of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, public assistance status, handicap or disability; and to otherwise promote full realization of human rights within the County to the extent permitted by law. To implement this policy, Anoka County requires that every

person making application for, currently employed by, or applying for future vacancies in the employ of the County of Anoka will be considered on the basis of individual ability and merit, without discrimination or favor.

In furtherance of this policy, the County of Anoka establishes an affirmative action plan, providing for and assuring fair and equitable treatment in all phases of public employment, including selection, compensation, benefits, training opportunities, promotions, transfers, layoffs and other terms, conditions and privileges of employment. The concept of this affirmative action policy is consistent and fundamental to the maintenance of effective equal opportunity and shall be implemented as an integral part of the County of Anoka's personnel system.

In the interest of advancing the goal of open competition and equal opportunity in employment, the County undertakes the responsibility for communicating its affirmative action policy to those from whom it purchases products and services.

4. **PERFORMANCE AND PAYMENT BONDS.** If the successful bidder's bid is for less than \$50,000.00, then the successful bidder shall not be required to furnish a payment and performance bond. However, if the successful bidder's bid is greater than or equal to \$50,000.00, then the successful bidder shall furnish a performance and labor and materials payment bonds in the full amount of the contract together with the executed contract. Such bonds shall be issued from a reliable surety company licensed to do business in Minnesota and must be issued from a list of surety companies listed on Treasury Department circular 570. These bonds shall remain in effect for the duration of the contract.

The bond is to insure to the County that all work has been performed in accordance with all applicable building codes, laws and ordinances.

The bond is to insure to the County that all work has been done according to the specifications of the bid documents.

The bond must be issued in favor of: County of Anoka, 2100 3rd Ave, Anoka, MN 55303

Acknowledgment of Principal and/or Acknowledgment of Surety must be included with each bond.

Attorneys-in-fact who sign performance bonds must file with each bond a certified and effective date of their power of attorney.

5. **CONFORMANCE TO SPECIFICATIONS.** The successful bidder, by entering into a contract with the County, warrants and represents that all materials or equipment delivered to the County pursuant to the contract conforms to all of the specifications contained or referred to herein, and further guarantees to replace all materials or equipment which may be rejected by the County due to defective materials or workmanship.

The County may make such investigations as it deems necessary to determine the ability of the bidder to perform the work specified in these documents, and the bidder shall furnish to the County all such information and data for this purpose as the County may request. The low bidder must supply the names and addresses of major material suppliers and subcontractors when required to do so by the County. The County reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the County that such bidder is properly qualified to carry out the obligations of the Contract, or that the equipment and materials proposed are not satisfactory. The bidder must be prepared to demonstrate that equipment and materials are in conformance with RFB specifications, on request by the County, after the opening of the bids.

6. **OWNER'S RIGHT TO CARRY OUT WORK.** If the Contractor defaults or neglects to carry out the work in accordance with the Contract Documents and fails within seven days after receipt of written notice from the County to commence and continue correction of such default or neglect

with diligence and promptness, the County may, without prejudice to any other remedy it may have, make good such deficiencies. In such case an appropriate Change Order shall be issued deducting from the payments then or thereafter due the Contractor the cost of correcting such deficiencies, including compensation for an Architect's, engineer's or other professional's additional services made necessary by such default, neglect or failure. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the County.

7. NO FRAUD OR COLLUSION.

- (A) By submitting a bid, the bidder certifies that it is the only party interested in its bid, and that its bid is made and submitted without fraud or collusion with any other person, firm, or corporation whatsoever.
- (B) The County reserves the right to disqualify any bid, before or after opening, upon evidence of collusion with intent to defraud, or other illegal practices upon the part of the bidder, or for noncompliance with the requirements of these documents.

8. **TAXES.** Before final payment is made, the Contractor shall make satisfactory showing that he has complied with the provisions of Minn. Stat. § 290.92 requiring the withholding of State income tax from wages paid to the Contractor's employees for work performed under the contract. Receipt by the owner of a certificate of compliance from the Commissioner of Revenue will satisfy this requirement. The Contractor is advised that before the certificate can be issued, he must first place on file with the Commissioner of Revenue, an affidavit stating that he has complied with the provisions of Minn. Stat. § 290.92. Unless the Contractor has presented an affidavit to the owner showing that all claims against him by the reason of the contract have either been paid or satisfactorily secured, final payment may be withheld for a sufficient amount may be retained there from to cover the unpaid lienable claims.

9. **CONTRACT DOCUMENTS.** The contract documents consist of the request for bid, bid proposal form, instruction for bidders, general conditions and contract requirements, plan sets and specifications, including special provisions of general requirements, materials, construction requirements, and method of measurement and payment, the successful bidder's bid proposal form, the resulting agreement between the Owner (the County) and the successful bidder, and all addenda issued prior to and all modification issued after execution of the resulting contract agreement.

10. **INTERPRETATION OF CONTRACT DOCUMENTS.** If any person contemplating submitting a bid for the proposed contract is in doubt as to the meaning of any part of the plans, specifications or other proposed Contract Documents, that person may submit to the County's authorized representative a written request for an Interpretation thereof, prior to the said question period above. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the Contract Documents will be made by an addendum duly issued and a copy of such addendum will be mailed or delivered to each person receiving a set of such documents. The Owner will not be responsible for any other explanations or interpretation of the Contract Documents.

Whenever there appears to be a conflict in the terms and conditions contained in the Contract Documents, the terms and conditions contained in Sections C Instructions for Bidders and D General Conditions and Contract Requirements shall take precedence.

11. **VENDOR'S RECORDS SUBJECT TO AUDIT.** Pursuant to requirements of Minn. Stat. §16B.06, subd. 4, the vendor agrees that its books, records, documents, and accounting procedures and practices relevant to this bid are subject to examination by the County, and either the legislative auditor or the State Auditor as appropriate.

12. RIGHTS OF THE COUNTY. The County reserves the right to:

- a) Accept or reject any or all bids, or any part of any bid, and to waive any defects of technicalities;
- b) Advertise for new bids where the acceptance, rejection, waiving or advertising of such would be in the best interests of the County; and
- c) Award to multiple vendors in whole or in part, by item, group of items, or by section where such action serves the County's best interests of the County.
- d) Request current information and data from the apparent successful vendor for vendor's financial resources and organization. If requested by the County, the apparent successful vendor must provide requested information within five (5) working days or be subject to being disqualified from being the apparent successful vendor.
- e) Reject the bid where the available evidence or information does not satisfy the County that the vendor is qualified to properly carry out the terms of the contract.
- f) Request demonstration and/or documentation to prove expertise of the vendor in the particular field of endeavor to the full satisfaction of the County. If unable to provide sufficient demonstration or documentation, the bid may be rejected by the County.
- g) Request the apparent successful vendor to supply the names and addresses of material suppliers and subcontractors when required to do so by the County.
- h) Reject any bid if the evidence submitted by, or investigation of a vendor fails to satisfy the County that the vendor is properly qualified to carry out the obligations of the Contract, or that the equipment and materials proposed are not satisfactory.
- i) Disqualify any bid, before or after opening, upon evidence of collusion with intent to defraud, or other illegal practices upon the part of the vendor, or for noncompliance with the requirements of these documents.
- j) Schedule an additional pre-bid meeting in the case where only one or two vendors attend the meeting scheduled in the summary sheets. Any vendor who attends the original meeting will be notified of additional meetings and may or may not be required to attend a second meeting.
- k) Security and Removal of Individuals: The County shall have the right, through its designees, to order the immediate removal of any Vendor or Sub-vendor's employees from a job site or sites for just cause including, but not limited to, security, disorderly behavior, intoxication, violation of a law or rule, unsafe behavior or for emergency public safety reasons. The County shall provide notice to the Vendor regarding the reason or reasons for such removal within 24 hours of such removal. The removed employee shall not be permitted to return to the site or sites without written approval of the County. To remove an employee for any other reason, the County shall consult with the Vendors Manager to attempt to reach a mutual agreement regarding that employee.

13. EXECUTION OF CONTRACT. The submitting of a bid on the attached form constitutes an offer by the bidder to sell the County the services listed at the price designated. The County will accept the offer by notifying the successful bidder, and shall send written notice of award by signing the written offer and forwarding a copy to the successful bidder. The fully executed offer shall constitute the written contract between the parties and is subject to all of the terms, conditions and specifications contained herein. The County and instrumentalities will individually arrange

for purchases with the successful bidder. Such bond must be issued from a list of surety companies listed on Treasury Department circular 570 and licensed to do business in Minnesota.

14. **CONTRACT DEVELOPMENT.** The content of the Request for Bid Documents and the successful bidder's bid proposal form will become an integral part of the contract, but may be modified by the provisions of the contract.

The contract resulting from this request shall be subject to the terms and conditions as provided in the sample Agreement form which is attached hereto as Exhibit B. In your response, you must acknowledge your agreement with these terms and conditions.

By submission of a bid pursuant to the Request for Bid, bidders acknowledge that they are amenable to the inclusion in a contract any information provided either in response to this request or subsequently during the selection process.

15. **ORDINANCES AND REGULATIONS.** The Contractor shall comply with all Federal, State and local laws, together with all ordinances and regulations applicable to the work. He shall procure all licenses, permits, or other rights necessary for the fulfillment of his obligation under this Document at his sole expense.

16. **COSTS NOT PROVIDED FOR.** No claim for services or supplies furnished by the Contractor not specifically provided for in this request for bid and subsequent contract will be honored by the County.

17. **INSURANCE REQUIREMENTS.** The Contractor shall procure and maintain in full force and effect during the term of its contract for this project, insurance coverage for injuries to persons or damages to property which may arise from or in connection with the performance of the work herein by the Contractor, its agents, representatives, employees or subcontractors, as well as Workers Compensation and Professional Liability coverage. The insurance coverage shall satisfy the requirements set forth in the Exhibit A which is attached hereto and incorporated herein.

Prior to the start of this Contract, Contractor will furnish Anoka County with completed copies of their certificate(s) of insurance, copies of the additional insured endorsement(s), waivers of subrogation, and any other request documents, dated within two weeks of awarding of the contract, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

- **Certificates of Insurance** - Certificate Holder must read: County of Anoka
2100 3rd Ave
Anoka, MN 55303
- **Additional Insured Endorsements – actual endorsement documents**
- **Waivers of Subrogation – actual waiver documents**

18. **INDEMNIFICATION.** To the greatest extent permitted by law, the Contractor agrees that it will save and protect, hold harmless, indemnify, and defend the county, its commissioners, officers, agents and employees and volunteer workers against any and all claims, expenses (including attorneys' fees), losses, damages or lawsuits for damages arising from or related to the negligence of the Contractor or any entity or person for which the Contractor is legally responsible.

19. **GUARANTEE.** The Contractor further agrees to guarantee all supplies bid against inferiority as to specifications, such guarantee to be unconditional. Failure or neglect of the County to require compliance with any term or condition of the contract or specifications shall not be deemed a waiver of such term or condition.

The Contractor hereby guarantees that he/she will have full legal right of material delivered under this agreement, and agrees to pay all rents and royalties of every description on any and all patents or patent rights covering said material, or covering any process or machinery used in its construction and agrees to indemnify and save the County entirely harmless from any and all claims, demands, damages, actions, or causes of actions, arising, or to arise, against said County by reason of the construction or delivery of said material, or the use of any process, machinery or material in the construction of same.

20. **UNAVAILABILITY OF FUNDS.** If the County shall learn that funding cannot be obtained or cannot be continued at a level sufficient to allow for the purchasing of the services specified herein, this Contract may then be terminated immediately, at the option of the County, by written notice of termination delivered in person or by mail to the Contractor. The County shall not be obligated to pay for any services provided by the Contractor after the Contractor has received notice of termination.
21. **PAYMENT, EXCISE AND SALES TAX.** The 2013 Legislature passed changes exempting Anoka County from sales tax beginning January 1, 2014. Anoka County's exemption number is #8026263. Please do not charge Anoka County tax on purchases.
22. **PROGRESS AND COMPLETION.** The Contractor understands and agrees that time is of the essence for completion of this Contract. The Contractor, by submitting a bid and entering into a contract with the County, agrees that Completion, as certified by the County, for the project contained in these documents shall be completed by the date specified on the Summary Sheet of this document.

The Completion date is based on the award date specified on the Summary Sheet of this document, and issuance of a Notice to Proceed on the date specified on the Summary Sheet. The date of Completion shall be adjusted accordingly if the County does not issue the Notice to Proceed on or before the aforementioned date.

23. **LIQUIDATED DAMAGES.** The Contractor understands and agrees that time is of the essence for completion of this Contract. For each and every calendar day beyond the time periods provided herein that Final Completion (as certified by the County) has not been obtained, the Contractor shall pay to the County the amount of Five Hundred and 00/100s Dollars (\$500.00) per day as liquidated damages. In any action to recover liquidated damages or other damages, the County may recover its reasonable attorney's fees in addition thereto. Contractor agrees that the damages Anoka County will suffer from Contractor's failure to complete its work on time are difficult or impossible to determine in advance. Contractor further agrees that the liquidated damages provisions contained in this contract are a reasonable forecast of the actual damages to be suffered by Anoka County and are not a penalty. Contractor waives its right to challenge the reasonableness of the liquidated damages to be assessed under this contract should Contractor fail to complete its work according to the established schedule(s).
24. **APPLICATIONS FOR PAYMENT.** On no less than a monthly basis, the Contractor shall submit to the County an itemized Application for Payment for operations completed through the 25th day of that month in accordance with the schedule of values. Such application shall be notarized and supported by such data substantiating the Contractor's right to payment as the County may require, such as copies of requisitions from Subcontractors and material suppliers, and reflecting a five percent (5%) retainage. Any interest earned on amounts retained by the County will not accrue to the benefit of the Contractor. Within thirty (30) days of receipt of Application for Payment to Contractor, the County shall make payment to Contractor.
25. **FINAL COMPLETION AND FINAL PAYMENT.** Neither the final payment nor the remaining retained percentage shall become due until the Contractor submits to the County: (1) an affidavit

that all payrolls, bills for materials and equipment, and other indebtedness connected with the work for which the County or its property might in any way be responsible, have been paid or otherwise satisfied; (2) consent of surety, if any, to final payment; and (3) if required by the County, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract, to the extent and in such form as may be designated by the County. If any Subcontractor refuses to furnish a release or waiver required by the County, the Contractor may furnish a bond satisfactory to the County to indemnify it against any such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the County all moneys that the latter may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees. Before final payment is made, the Contractor shall also make a satisfactory showing that it has complied with the provisions of Minn. Stat. §290.92 requiring the withholding of state income tax from wages paid to the Contractor's employees for work performed under the contract. Receipt by the County of a certificate of compliance from the Commissioner of Revenue will satisfy this requirement. The Contractor has been advised that before the certificate can be issued Contractor must first place on file with the Commissioner of Revenue, an affidavit stating that Contractor has complied with the provisions of Minn. Stat. §290.92. Unless the Contractor has presented an affidavit to the Architect showing that all claims against Contractor by reason of the contract have either been paid or satisfactorily secured, final payment may be withheld or a sufficient amount may be retained there from to cover the unpaid lienable claims.

26. **SECURITY AND REMOVAL OF INDIVIDUALS:** The County shall have the right, through its designees, to order the immediate removal of any Contractor or Subcontractor or their employees from a job site or sites for just cause including, but not limited to, security, disorderly behavior, intoxication, violation of a law or rule, unsafe behavior or for emergency public safety reasons. The County shall provide notice to the Contractor regarding the reason or reasons for such removal within 24 hours of such removal. The removed person shall not be permitted to return to the site or sites without written approval of the County. If time permits and circumstances allow, the County shall consult with the Contractor's Manager to attempt to reach a mutual agreement regarding removal of such contractor/employee.

27. **SMALL DISADVANTAGED BUSINESS INCLUSION:**

Pursuant to the State Grant Agreement, Anoka County requires all vendors, contractors and subcontractors providing work on grant projects to report on Women and/or Minority Owned businesses that are used on the projects. Information must include information on whether the company or business is owned by a women and/or minority, the number of employees, number of women employees and number of employees who are people of color.

Information must be recorded by the Vendor, Contractor or Sub-Contractor. A sample form is provided in the Exhibit for reference. Each report must contain the following:

- i. Company Name
- ii. Company Address
- iii. Job Type of work performed. Jobs should be classified as either (i) professional services –landscape, architectural or engineering, (ii) construction, (iii) legal services, (iv) other services – (please describe)
- iv. Is it a Small, Woman or Minority Owned Business Enterprise
- v. How many employees work for the company

28. **PAYMENT OF PREVAILING WAGES:**

The Contractor agrees that the Contractor's laborers and mechanics and any Subcontractor's (of any tier) laborers and mechanics who work on this project and who fall within any job classification established and published by the Minnesota Department of Labor & Industry shall be paid, at a minimum, the prevailing wage rate as certified by said Department. Any laborer or mechanic employed by the Contractor or any Subcontractor of any tier may not be permitted or required to

work longer than the prevailing hours of labor unless the laborer or mechanic is paid for all hours in excess of the prevailing hours at a rate of at least 1-1/2 times the hourly basic rate of pay for the laborer or mechanic. The laborer or mechanic must be paid at least the prevailing wage rate in the same or most similar trade or occupation in the area. Each Contractor and Subcontractor of any tier performing work on this project shall post on the project the applicable prevailing wage rates and hourly basic rates of pay for the Owner or area within which the project is being performed, including the effective date of any changes thereof, in at least one conspicuous place for the information of the employees working on the project. The information so posted shall include a breakdown of contributions for health and welfare benefits, vacation benefits, pension benefits and any other economic benefit required to be paid.

1. Definitions:

The definition of "laborer" and "mechanic" used in connection with prevailing wages shall be that definition contained in 29 CFR Part 5.2(m).

The definition of "prevailing hours of labor" used herein shall be that definition contained in Minn. Stat. Section 177.42, subd. 4.

The definition of "prevailing wage rate" used herein shall be that definition contained in Minn. Stat. Section 177.42, subd. 6.

2. Submission of Payroll.

- a. The Contractor and Subcontractors, if any, shall submit to the Owner, weekly for each week in which any contract work is performed, a copy of all payrolls. The payroll submitted shall set out accurately and completely all the information required to be maintained under Section 5.5(a)(3)(i) of regulations, 29 CFR Part 5. Payroll shall be submitted not more than 14 days after the end of each pay period. Failure to timely submit required payrolls may result in the withholding of payment due the Contractor for work performed.
- b. Each payroll submitted shall be accompanied by a "Statement of Compliance" signed by the Contractor or Subcontractor or its agent who supervises the payment of the persons employed under the contract and shall certify the following:
 - (1) That the payroll for the payroll period contains information required to be maintained under Section 5.5(a)(3) of regulation, 29 CFR Part 5 and that such information is correct and complete;
 - (2) That each laborer or mechanic (including each helper, apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned;
 - (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalent for the classification of work performed as specified in the applicable wage determination incorporated into this contract.
 - (4) The Contractor or Subcontractor shall make the records required under this paragraph available for inspection, copying or transcription by the Owner and shall permit the Owner to interview employees during working hours on the job. If the Contractor or

Subcontractor fails to submit the required records and make them available, the Owner may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payments, advance, or guarantee of funds.

3. Violation; Liability for Unpaid Wages.

In the event of any violation by the Contractor or Subcontractor relating to the prevailing wage provision in this Contract, the Contractor shall be liable for the unpaid wages.

4. Withholding of Unpaid Wages.

The Owner may upon its own action withhold or cause to be withheld from any monies payable on account of work performed by the Contractor or any Subcontractor such sums as the Owner may determine to be necessary to satisfy any liabilities of such Contractor or Subcontractor for any unpaid wages as required herein.

5. Fringe Benefits.

The Contractor and Subcontractors shall pay fringe benefits in the manner and in accordance with the 1964 amendments to the Davis-Bacon Act (Public Law 88-349) and the implementing regulations contained in 29 CFR, Subpart B, 5.20, et seq.

6. Liquidated Damages

If the Contractor or any Subcontractor of any tier does not pay its laborers and mechanics prevailing wages as provided herein, the Contractor shall be liable to and pay to the Owner, as liquidated damages, a sum equal to five percent (5%) of the contract amount. The Owner may deduct any money due or coming due to the Contractor such sums as the Owner may determine to be necessary to satisfy any liability of the Contractor to pay liquidated damages as provided herein. Any monies collected or deducted are not to be construed as a penalty but as liquidated damages to compensate the Owner for the Contractor's and/or Subcontractor's failure to pay prevailing wages. The rights and remedies provided for in these specifications shall be in addition to and not a limitation of any rights or remedies available at law. In any lawsuit involving assessment or recovery of liquidated damages, the reasonableness of the charges therefore shall be presumed, and the amount assessed shall be in addition to every other remedy now or hereinafter enforceable at law, in equity, by statute or under the contract.

7. Termination of Contract

A violation of any of the stipulations concerning the payment of prevailing wages and/or prevailing hours of labor as required herein shall constitute a substantial breach of the contract terms and shall constitute grounds for termination of this contract.

29. PROMPT PAYMENT TO SUBCONTRACTORS.

The Contractor shall comply with the provisions of Minn. Stat. § 471.425, subd. 4a, relating to prompt payment to subcontractors. The Contractor shall pay any subcontractor within ten (10) days of Contractor's receipt of payment from the County for undisputed services provided by the subcontractor. The Contractor shall pay interest of 1½% per month or any part of a month to the

subcontractor on any undisputed amount not paid on time to the subcontractor. The minimum monthly interest penalty payment for unpaid balance of \$100 or more is \$10. For unpaid balance of less than \$100, the Contractor shall pay the actual penalty due to the subcontractor. Any subcontractor who prevails in a civil action to collect interest penalties from the Contractor shall be awarded its costs and disbursements, including attorney's fees, incurred in bringing the action.

30. **EXAMINATION OF DRAWINGS, SPECIFICATION, AND SITE.** Before submitting a proposal, each proposer shall familiarize themselves with all ordinances and statutes pertaining to the project and shall carefully examine the drawings and the entire contents of the specifications prepared for the work so as to be thoroughly familiar with all the requirements. Each proposer shall visit the site of the work to become acquainted with all the local conditions affecting the contract and obstacles which proposer may encounter in doing work, and shall not be allowed any extra compensation by reason of any unforeseen difficulties or obstacles which the bidder could have discovered or reasonably anticipated prior to the proposing.

Also before submitting a proposal, each proposer will, at proposer's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies, and obtain any additional information and data which pertain to the physical conditions (surface, subsurface, and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the work and which proposer deems necessary to determine its proposal for performing and furnishing the work in accordance with the time, price, and other terms and conditions of the contract.

Upon request in advance, the County will provide each proposer access to the site to conduct such explorations and tests as each proposer deems necessary for submission of a proposal. Proposer shall fill all holes, clean up, and restore the site to its former condition upon completion of such explorations.

The County is not responsible for locating or securing any information which is not identified in the bid and reasonably available to the County. Accordingly, to ensure that sufficient information is available, the bidder must furnish as a part of his bid all descriptive material necessary for the County to determine whether the product offered meets the requirements of the contract documents.

31. **RESPONSIBLE CONTRACTOR ACT.** All contractors and/or subcontractors who perform work on the project shall comply with the provisions of Minn. Stat. §16C.285 ("Act"). The terms, conditions and definitions contained in the Act are incorporated herein by reference, including but not limited to the term 'responsible contractor' which is defined in Minn. Stat. §16C.285, Subd. 3.

All prime contractors or subcontractors that do not meet the minimum requirements of Minn. Stat. §16C.285, Subd. 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project.

All bidders shall submit with its bid/bid/proposal a signed, verified Responsible Contractor Act Verification Form, in the form depicted in the attached Exhibit C.

Making a false statement under oath verifying compliance with any of the minimum criteria of Subdivision 3 of the Act shall render the prime contractor or subcontractor that makes the false statement ineligible to be awarded a construction contract on the project, and may result in termination of a contract awarded to a prime contractor or subcontractor that submits a false statement.

The prime contractor shall submit to the County upon request copies of the signed Responsible Contractor Act Verification Form from all subcontractors of any tier pursuant to Subdivision. 3, clause (7) of the Act.

32. **NON-DISCRIMINATION BASED ON DISABILITY.** When and where applicable, the Contractor shall comply with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794) and Title II of the Americans with Disabilities Act as amended, Public Law 101-336 (1990), to ensure that no otherwise qualified individual with a disability in the United States shall, solely by reason of his or her handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving financial assistance under this agreement.
33. **WARRANTY.** Anoka County requires a two-year warranty of the project which requires that Contractor warrant to the County: (1) that the materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents; (2) that the work required by the Contract Documents will be free from defects; and (3) that the work required herein will conform to the requirements of the Contract Documents. Such warranty shall be unconditional. Work not conforming to the requirements of the Contract Documents shall be considered defective. If requested by the County, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment supplied by the Contractor. If within two years from the date of completion of the work required herein, any of the work performed by the Contractor is found not to be in accordance with the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the County. The Contractor shall bear costs of correcting any rejected work, including additional testing, inspections, and/or other professional services made necessary thereby. This warranty shall survive acceptance of the project by the County and termination of the contract.

**SPECIAL PROVISIONS
FOR
LAKE GEORGE PICNIC PAVILIONS AND RESTROOM IMPROVEMENTS
AT
LAKE GEORGE REGIONAL PARK
In
OAK GROVE, MINNESOTA**

SECTION A - GENERAL PROJECT REQUIREMENTS

NOTE: THE SPECIAL PROVISIONS PROVIDED IN THIS SECTION SHALL GOVERN THE CURRENT PROJECT AND ARE INTENDED TO SUPPLEMENT GENERAL PROJECT CONDITIONS. ANY INCONSISTENCIES IN THE TERMS OF THE BELOW SPECIAL PROVISIONS AND THOSE CONTAINED IN THE GENERAL PROJECT MANUAL DATED 3-16-16 WILL BE RESOLVED WITH THE TERMS OF THE SPECIAL PROVISIONS CONTROLLING.

A1. SCOPE OF WORK

The work to be performed under the provision of these contract documents shall include the furnishing of all materials, labor, tools, and equipment necessary to successfully and safely complete the construction of improvements as described in the Plans and Specifications herein. Minor appurtenances not specifically listed as proposal items, but which are necessary to complete the project, as shown in the Plans and Specifications, in a satisfactory manner, shall be considered incidental items and no direct compensation will be made therefore.

The CONTRACTOR is responsible for safety and security on this project.

A2. LOCATION

The project is located at the Lake George Regional Park, 3100 - 217TH Ave NW, Oak Grove, MN.

A3. OWNER AND ENGINEER

The OWNER of the Project is Anoka County, 2100 3rd Avenue, Anoka, MN 55303. The OWNER is also the Landscape Architect / Engineer (LA-Eng.) for the project.

Representatives from the OWNER will provide inspection and observation for the construction. Upon completion of the work and final acceptance, Anoka County will own and maintain the facilities.

A4. STARTING AND COMPLETION DATES

It is anticipated that the CONTRACTOR will be issued a Notice to Proceed on October 10, 2019. Substantial Completion date is May 15, 2020. Final Completion date is June 15, 2020.

A5. COMMENCEMENT OF WORK

Upon Notice to Proceed, the CONTRACTOR shall proceed expeditiously with adequate forces to achieve the Substantial Completion within the Contract Time. From date of commencement, CONTRACTOR shall not stop work on project for seven consecutive days. Any stoppage of work exceeding seven consecutive days must have prior written approval from the project Landscape Architect / Engineer.

A6. SITE CONDITIONS AND EXAMINATION

The CONTRACTOR is expected to carefully examine the site prior to submitting a bid and prior to work commencing.

A7. WORKING HOURS

Work shall occur between 7:00 a.m. and 7:00 p.m. Monday through Friday. No work is to be completed on weekends without prior written authorization from the County.

A8. SITE PROTECTION

The CONTRACTOR shall protect that which is to remain and shall conduct all installation operations in a manner that will not damage or jeopardize the existing facilities and plant life designated to remain. Equipment operating around existing trees and guy wires shall use extreme caution to prevent damage. The CONTRACTOR shall verify the location and elevation of existing utilities in the area of work. Any damage to utilities, trees or other existing-to-remain items shall be repaired at the CONTRACTOR's expense.

A9. RESTRICTION OF WORK WITHIN CONSTRUCTION LIMITS

The CONTRACTOR shall restrict all operations to the area immediately adjacent to each of the buildings. The contractor shall not enter into or disturb the areas outside of limits. Repair of any work outside the construction limits will be at the CONTRACTOR's expense.

A10. PUBLIC ACCESS TO SITE

Lake George Regional Park is open to the public. CONTRACTOR may close facilities as needed to perform their work. Contractor shall make every effort to not impede public use of the park outside of work areas.

A11. MEASUREMENT VERIFICATION

Before commencing work, the CONTRACTOR shall verify all measurements, grades and quantities related to the work at the site and shall report any variations or discrepancies to the LA-Eng. for adjustment. Commencement of work constitutes verification of measurements.

A12. ON-SITE FACILITIES

CONTRACTOR is responsible for providing their own portable toilet. The portable toilet should be on-site once work has begun and shall remain on-site through the completion of work. CONTRACTOR is responsible for obtaining portable toilet, all maintenance, and removal.

CONTRACTOR is responsible for providing their own water for construction purposes. Water shall not be pumped from lake or taken from hydrants on location.

A13. STOCKPILE AREAS

Stockpile areas shall be determined on-site prior to construction start.

A14. KEY USE & RETURN

CONTRACTOR shall return any key(s) used to access project to OWNER prior to final payment. If key(s) are not returned \$500 shall be deducted from final invoice.

A15. WARRANTY INFORMATION O&M INFORMATION

CONTRACTOR shall submit operations, maintenance and warranty information from all manufacturers, vendors and sub-contractors to Owner, within 30 days of substantial completion date and prior to final payment.

A16. WARRANTY PERIOD

The CONTRACTOR shall warrant all project improvements under the contract including materials and equipment for 2 (two) years. Warranty period for the project begins on the date of the Substantial Completion Notice issued by the OWNER after project completion. No partial acceptance will be considered.

A17. ADDITIONAL GOVERNING BODIES

The CONTRACTOR will insure compliance with all additional regulations and specifications from additional governing bodies, including but not limited to: City of Oak Grove

A18. PERMIT COMPLIANCE

The CONTRACTOR will insure compliance with all regulatory permits including and city, or state permits.

A19. SITE SECURITY

The CONTRACTOR is responsible for securing the construction site. The OWNER is not responsible for any damage/vandalism during construction.

A20. PLAN SET AND PROJECT MANUAL

The CONTRACTOR shall have a complete, up-to-date Plan Set and Project Manual on site for the duration of the project. If the CONTRACTOR does not have a complete Project Manual on site, a fine of \$1,000 per occurrence shall be deducted from the Contractor's next invoice.

A21. MEETINGS

a. PRECONSTRUCTION MEETING

OWNER will schedule and conduct a preconstruction meeting to be held prior to beginning Work.

b. WEEKLY PROGRESS MEETINGS, if necessary.

Weekly progress meetings to be held as needed on an agreed upon day by OWNER AND CONTRACTOR.

Attendees at the preconstruction meeting.

i. OWNER

ii. CONTRACTOR'S superintendent and foreman.

A22. SUBMITTALS

The CONTRACTOR shall submit bi-weekly construction progress schedules, Shop Drawings, samples, test results, to the OWNER for review and approval. No fabrication or work shall begin until the return of submittals with OWNER approval.

- a. Submittals shall contain
 - i. Date of submittal and dates of previous submittals
 - ii. Project title
 - iii. Contract number
 - iv. Names of:
 - 1. CONTRACTOR
 - 2. Supplier
 - 3. Manufacturer
 - v. Identification of product and manufacturer with identification/model numbers, drawings and specification section numbers, dimensions and clearances
 - vi. Field dimensions
 - vii. Identification of deviations from Contract documents
 - viii. Identification of revisions and resubmittals
 - ix. CONTRACTOR'S stamp, signed and certified the review of submittal, verification of products, field measurements, field construction criteria and coordination information
- b. Resubmittals shall include
 - i. Corrections or changes in submittals required by OWNER. Resubmittals are required until approved.
 - ii. Shop drawings and product data with revisions from initial drawings or data; and indicate changes made other than those requested by OWNER.
 - iii. Samples as requested by OWNER.

A23. APPROVED EQUAL

Any reference made in these specifications as "or approved equal" applies and must receive OWNER approval prior to installation.

**SPECIAL PROVISIONS
FOR
LAKE GEORGE PICNIC PAVILIONS AND RESTROOM IMPROVEMENTS
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SECTION B – MATERIAL AND CONSTRUCTION REQUIREMENT SPECIFICATIONS

B1. CONSTRUCTION SAFETY FENCE

CONTRACTOR shall provide and install heavy duty snow fence as temporary fencing around each structure as work is conducted for public safety and security of the project. Cost of fencing will be considered incidental to the project.

B2. PAVILION MASONRY BASES

Contractor to remove decayed bottom of the wood arch frames on each specified Pavilion and install new masonry bases on each pavilion. Work shall include:

1. Install a temporary fence around the work area.
2. Shore the existing pavilion as required to remove the bottom of the existing deteriorated wood arch frames.
3. Ensure that power has been disconnected from the building prior to any demolition. Remove the existing conduit, outlet boxes, etc. from the wood arch frames.
4. Saw cut and remove the bottom portion of the wood arch frames as indicated on the drawings.
5. Construct new masonry piers with precast caps as indicated on the drawings.
6. Connect the wood arch frames to the masonry piers with new steel brackets; 14.5 x 14 (approx) medium duty steel column bracket, powder coated black, secured with steel bolts.

Submittal required.

7. Re-install all electrical conduits, outlet boxes, etc.
8. Clean site of all debris remaining from this project.
9. Restore all landscaping damaged during the project by re-grading and re-seeding.

B3. FASCIA AND WRAP

Contractor to remove 2 x 12 fascia boards on each pavilion and replace with 2 x 12 treated wood. Wrap with Hardie or approved other no maintenance fascia wrap.

Wrap material and color submittal required for approval.

B4. REROOFING PAVILIONS

Contractor to remove and replace shingles on each pavilion as specified. Shingle shall be Certainteed, Architectural Landmark Shingle.

Color submittal required.

B5. REMOVALS/DEMOLITION

CONTRACTOR to furnish all material, labor and equipment necessary for the demolition and removal of all materials as stated in the plans and specifications. Ensure utility's have been shut off prior to removals.

Removals should be disposed of off-site and in accordance with local and state rules and regulations for construction waste.

B6. SAW CUTTING

All cutting of concrete where specified shall be a clean straight cut.

B7. BATHROOM COUNTER

CONTRACTOR shall saw cut, demolish and remove existing sink, faucet and concrete counter top. 2 per restroom building. Removal should leave a clean smooth surface for counter replacement.

Contractor shall install 2 per restroom of ½" Formica Solid Surfacing or approved equal at existing lavatory location at height of approximately 34". Height of counter should meet or exceed ADA standards. Countertop should be supported every 18" for horizontal applications as directed by manufacturer's technical data sheet included within these specifications. Counter to back and side splashes with drop edge in front. CONTRACTOR is responsible to verify measurements for each countertop prior to ordering. Note: single supply (cold only) metered faucet to be installed for sink. Counter to allow for undermount sink and single supply faucet.

Submittals required for color and material selection.

B8. LAVATORY ASSEMBLY

CONTRACTOR shall furnish and install 2 per restroom of American Standard Ovalyn Undercounter sink in white vitreous china with barrier free clearance.

Deck mounted 4" fixed center single supply metering sink faucet (cold only).

Proflo:

1-1/4 x 6 17 GA Offset grid drain CP

1-1/4 semi cast P Trap w/CO CP

Lead Law Compliant 5/8 OD x 2/8 OD Commercial lavatory kit

Cover for offset trap

CONTRACTOR to furnish and install brass isolation valve in mechanical room for each fixture.

CONTRACTOR to furnish and install any other copper work as required for functionality.

B9. WATER CLOSET

Contractor shall remove existing toilet and flush valve. 3 per restroom building.

CONTRACTOR to furnish and install 3 per restroom of barrier free American Standard Aftwall Flush Valve Wall-mounted Toilet in white vitreous china. Top of seat height to be a max. height of 17" from finished floor elevation.

Waste outlet seal ring must be neoprene or graphite-felt. Wax Ring not allowed.

CONTRACTOR to provide new wall carriers and include work for any plumbing adjustments necessary. Contractor to furnish and install cover of old wall mounted push button.

Manual 1.28 gpf Sloan Gem 2 Flushometer Valve.

Toilet seat: American Standard Extra heavy duty open in front less cover.

CONTRACTOR to provide and install brass isolation valve in mechanical room for each fixture.

CONTRACTOR to furnish and install any other necessary plumbing work as required for functionality.

B10. URINAL ASSEMBLY

Contractor shall remove existing urinals and flush valves. 1 per restroom building.

CONTRACTOR to furnish and install 1 per restroom of American Standard 1.0 GPF WashBrook FloWise Universal Barrier Free Manual Operated Urinal in White vitreous china. Bottom of urinal to be 17" maximum above finished floor elevation. Provide suitable reinforcements for all wall supports.

Manual 1.0 gpf Sloan Gem 2 flushometer valve.

CONTRACTOR to provide and install brass isolation valve in mechanical room for each fixture.

CONTRACTOR to furnish and install any other necessary plumbing work as required for functionality.

B11. FLOOR TILE

CONTRACTOR to furnish and install 150 SF of 12 x 12 inch ceramic floor tile in restroom buildings. Contractor to verify dimensions and quantities. Contractor to prepare floor surface as needed for tile installation. Epoxy grout to match tile. Adjust floor drains as necessary to provide an even grade with tile.

Color Sample Submittals required for approval.

B12. WALL TILE

CONTRACTOR to furnish and install 192 SF of 12 x 12 inch ceramic wall tile on restroom interior walls to a 76" height for all three restrooms. The Boat Launch Restroom shall have an additional 152 SF of wall tile on exterior wall to a height of 76". Contractor to verify dimensions and quantities. Contractor to prepare walls as needed for tile installation. Epoxy grout to match tile.

Color Sample Submittals required for approval.

B13. PARTITIONS & PARTITION DOORS

CONTRACTOR to saw cut, demolish, remove and dispose of specified 12" and 14" concrete block walls in each restroom. 4 walls per restroom building (2 walls per men's room, 2 per women's). Removal should leave a clean smooth surface for partition attachment. Confirm with Owner prior to removal.

Contractor to furnish and install ASI Accurate solid plastic partitions, doors, with requisite mounting hardware. 4 partition sections and 3 doors per restroom building (2 partition sections, 1 door per men's; 2 partition sections, two doors per women's room. Doors shall be a minimum of 36" wide with continuous piano hinge, ADA handle and coat hook. Contractor to verify measurements.

Submittals required for approval.

B14. HAND DRYER

CONTRACTOR to remove and dispose of existing hand dryer and furnish and install Excel ADA accessible HO-IW surface mount automatic hand dryer with white epoxy painted cover. 2 per restroom building. Hand dryer should be ADA compliant with the automatic sensor mounted between 38" and 48" from the finished floor elevation.

B15. MIRROR

CONTRACTOR to remove and dispose of existing mirror and furnish and install framed fixed SST Tempered Glass Mirror. 18" x 30". 2 per restroom building. Bottom edge of mirror to be no more than 40" above the finished floor elevations for ADA compliance.

B16. DRINKING FOUNTAIN

CONTRACTOR remove and dispose of existing drinking fountain, wall carrier and other apparatus not needed for new fountain. 1 per restroom building.

Contractor to furnish and install Most Dependable Combinations Hi/Lo drinking fountain and bottle filler that mounted to provide ADA accessibility.

Include:

ProFlo 1-1/4 semi cast p trap w/CO CP
Proflo LF 5/8 OD x 3/8OD Comm St.

Contractor to provide proper backing for the wall mount carrier plate necessary for installation.

CONTRACTOR to provide and install brass isolation valve in mechanical room for each fixture.

CONTRACTOR to furnish and install any other necessary plumbing work as required for functionality.

B17. WATER HEATER

Contractor to remove and dispose of existing water heater and furnish and install new AO Smith/Rheem 19 gallon electric water heater. 1 per restroom building. Aluminum or similar finish.

Submittals required for approval.

CONTRACTOR to provide and install brass isolation valve in mechanical room for each fixture.

CONTRACTOR to furnish and install any other necessary plumbing work as required for functionality.

B18. WATER HAMMER ARRESTOR

Contractor to furnish and provide Zurn water hammer arrestors, 1-11 fixture unit capacity. 1 per restroom building.

B19. BACKFLOW PREVENTOR

Contractor to furnish and install Wilkins reduced pressure backflow preventer, 2 IN LF RPP Assembly FNPT STRN and 1-1/4" Air gap F 975XL& 975XL2.

PROJECT MANUAL

ANOKA COUNTY

Lake George Park Picnic Pavilion

Oak Grove, Minnesota

SPECIFICATION

CONSTRUCTION DOCUMENTS MARCH 16, 2016

Owner:

Anoka County
2100 3rd Avenue
Suite 700
Anoka, MN 55303

Project Manager:

Superintendent of Park Maintenance
Michael Jacobson
Anoka County Parks
1350 Bunker Lake Blvd
Anoka, MN 55303
(763) 767-2863

Engineer:

Collaborative Design Group, Inc.
100 Portland Avenue South
Suite 100
Minneapolis, Minnesota 55401

CDG Project # 16014.00

SECTION 00 0101
PROJECT TITLE PAGE

ANOKA COUNTY
LAKE GEORGE PARK PICNIC PAVILION
PROJECT MANUAL

END OF PROJECT TITLE PAGE

Anoka County
Lake George Park Picnic Pavilion
16014.00

00 0101 - 1

PROJECT TITLE PAGE

SECTION 00 0105

CERTIFICATIONS PAGE

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Engineer under the laws of the State of Minnesota.



Craig Milkert

Reg. #18360

END OF CERTIFICATIONS PAGE

SECTION 01 1000

SUMMARY

PART 1 GENERAL

1.01 PROJECT

- A. Project Name: Anoka County – Lake George Park Picnic Pavilion.
- B. Owner's Name: Anoka County.
- C. Engineer's Name: Collaborative Design Group.
 - 1. Contact: Craig Milkert
100 Portland Avenue South, Suite 100,
Minneapolis, Minnesota 55401
612 371-6420
cmilkert@collaborativedesigngroup.com

1.02 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract.

1.03 DESCRIPTION OF WORK

- A. This Project consists of the removal of the decayed bottom of the wood arch frames on Pavilion #1, and the installation of new masonry bases.
 - 1. Install a temporary fence around the work area.
 - 2. Shore the existing pavilion as required to remove the bottom of the existing deteriorated wood arch frames.
 - 3. Ensure that power has been disconnected from the building prior to any demolition. Remove the existing conduit, outlet boxes, etc. from the wood arch frames.
 - 4. Saw cut and remove the bottom portion of the wood arch frames as indicated on the drawings. Salvage and re-paint the existing steel base brackets for re-use.
 - 5. Construct new masonry piers with precast caps as indicated on the drawings.
 - 6. Connect the wood arch frames to the masonry piers with the salvaged steel brackets.
 - 7. Re-install all electrical conduits, outlet boxes, etc.
 - 8. Clean site of all debris remaining from this project.
 - 9. Restore all landscaping damaged during the project by re-grading and re-seeding.

1.04 OWNER OCCUPANCY

- A. The park will be occupied during the construction period.
- B. Cooperate with Anoka County Parks to minimize conflict.
- C. Maintain access to all drives and trails during construction.

1.05 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
- B. Coordinate with Anoka Parks for the use of site and premises to allow for the use of the park.

C. Time Restrictions:

1. Limit conduct of especially noisy, malodorous, and dusty exterior work to the hours of 8:00 a.m. to 6:00 p.m.

1.06 WORK SCHEDULE

- A. Contractor may assume mobilization one day after award of contract. Work may not begin until contract is fully executed.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 2000

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedures for preparation and submittal of applications for progress payments.
- B. Procedures for preparation and submittal of application for final payment.

1.02 SCHEDULE OF VALUES

- A. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Engineer for approval.
- B. Forms filled out by hand will not be accepted.
- C. Submit Schedule of Values in duplicate within 3 days after date of Owner-Contractor Agreement.
- D. Format: Identify each line item with number and description from the Bid Form. Identify site mobilization.
- E. Revise schedule to list approved Change Orders, with each Application For Payment.

1.03 APPLICATIONS FOR PROGRESS PAYMENTS

- A. Payment Period: Submit at intervals stipulated in the Agreement.
- B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Engineer for approval.
- C. Forms filled out by hand will not be accepted.
- D. Execute certification by signature of authorized officer.
- E. Include the following with the application:
 - 1. Construction progress schedule, revised and current as specified in Section 01 3000.
 - 2. Submit waivers of mechanic's lien from subcontractors, sub-subcontractors, and suppliers for construction period covered by the previous application.
 - a. Submit partial waiver on each item for amount requested in previous application, after deduction for retainage, on each item.
 - b. When an application shows completion of an item, submit final or full waivers.
 - c. Owner reserves the right to designate which entities involved in the Work must submit waivers.

1.04 APPLICATION FOR FINAL PAYMENT

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Price, previous payments, and sum remaining due.
- B. Application for Final Payment will not be considered until the following have been accomplished:
 - 1. All closeout procedures specified in Section 01 7000.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 3000

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preconstruction meeting.
- B. Progress meetings.
- C. Construction progress schedule.
- D. Submittals for review, information, and project closeout.
- E. Number of copies of submittals.
- F. Submittal procedures.

1.02 RELATED REQUIREMENTS

- A. Section 01 7000 - Execution and Closeout Requirements: Additional coordination requirements.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Engineer will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. Owner.
 - 2. Engineer.
 - 3. Contractor.
- C. Agenda:
 - 1. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.

3.02 CONSTRUCTION PROGRESS SCHEDULE

- A. Within 3 days after date of the Agreement, submit preliminary schedule defining planned operations.
- B. If preliminary schedule requires revision after review, submit revised schedule within 3 days.
- C. Within 3 days after joint review, submit complete schedule.

3.03 SUBMITTALS FOR REVIEW

- A. When the following are specified in individual sections, submit them for review:
 - 1. Product data.
 - 2. Shop drawings.
- B. Submit to Engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - CLOSEOUT SUBMITTALS.

3.04 SUBMITTALS FOR INFORMATION

- A. When the following are specified in individual sections, submit them for information:
 - 1. Design data.
 - 2. Inspection reports.
 - 3. Manufacturer's field reports.
 - 4. Other types indicated.
- B. Submit for Engineer's knowledge as contract administrator or for Owner. No action will be taken.

3.05 SUBMITTALS FOR PROJECT CLOSEOUT

- A. When the following are specified in individual sections, submit them at project closeout:
 - 1. Project record documents.
 - 2. Operation and maintenance data.
 - 3. Warranties.
 - 4. Bonds.
 - 5. Other types as indicated.
- B. Submit for Owner's benefit during and after project completion.

3.06 NUMBER OF COPIES OF SUBMITTALS

- A. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

3.07 SUBMITTAL PROCEDURES

- A. Transmit each submittal with approved form.
- B. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- C. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
- E. Schedule submittals to expedite the Project, and coordinate submission of related items.
- F. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- G. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- H. Provide space for Contractor and Engineer review stamps.
- I. When revised for resubmission, identify all changes made since previous submission.
- J. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- K. Submittals not requested will not be recognized or processed.

END OF SECTION

SECTION 01 4000

QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Control of installation.
- B. Testing and inspection services.
- C. Manufacturers' field services.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Engineer before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have Work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.03 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of Engineer, it is not practical to remove and replace the Work, Engineer will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary utilities.
- B. Temporary telecommunications services.
- C. Temporary sanitary facilities.
- D. Temporary Controls: Barriers.
- E. Security requirements.
- F. Vehicular access and parking.
- G. Waste removal facilities and services.

1.02 TEMPORARY UTILITIES

- A. Existing utilities may not be used.
- B. Provide temporary water and electric services as required.

1.03 TELECOMMUNICATIONS SERVICES

- A. Provide, maintain, and pay for telecommunications services to the site superintendent and project manager at time of project mobilization.

1.04 TEMPORARY SANITARY FACILITIES

- A. Provide temporary sanitary services as required.
- B. Maintain daily in clean and sanitary condition.

1.05 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.06 SECURITY

- A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.07 VEHICULAR ACCESS AND PARKING

- A. Coordinate access and haul routes with Owner.
- B. Provide and maintain access to fire hydrants, free of obstructions.
- C. Provide means of removing mud from vehicle wheels before entering streets.
- D. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.08 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site periodically.
- C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

1.09 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

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

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000

PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Transportation, handling, storage and protection.
- B. Product option requirements.
- C. Substitution limitations and procedures.
- D. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

- A. Section 01 4000 - Quality Requirements: Product quality monitoring.

1.03 SUBMITTALS

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices.

PART 2 PRODUCTS

2.01 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by the Contract Documents.
- B. Do not use products having any of the following characteristics:
 - 1. Made outside the United States, its territories, Canada, or Mexico.
 - 2. Made using or containing CFC's or HCFC's.
- C. Where all other criteria are met, Contractor shall give preference to products that:
 - 1. Are extracted, harvested, and/or manufactured closer to the location of the project.

2.02 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

- A. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- C. A request for substitution constitutes a representation that the submitter:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 2. Will provide the same warranty for the substitution as for the specified product.
 - 3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.

4. Waives claims for additional costs or time extension that may subsequently become apparent.
- D. Substitution Submittal Procedure:
1. Submit one copy of request for substitution for consideration. Limit each request to one proposed substitution.
 2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
 3. The Engineer will notify Contractor in writing of decision to accept or reject request.

3.02 TRANSPORTATION AND HANDLING

- A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- B. Transport and handle products in accordance with manufacturer's instructions.
- C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- E. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- F. Prevent contact with material that may cause corrosion, discoloration, or staining.
- G. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- H. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 01 7000

EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Requirements for alterations work, including selective demolition, except removal, disposal, and/or remediation of hazardous materials and toxic substances.
- C. Pre-installation meetings.
- D. Cutting and patching.
- E. Cleaning and protection.
- F. Closeout procedures, except payment procedures.

1.02 RELATED REQUIREMENTS

- A. Section 01 1000 - Summary: Limitations on working on occupied site; continued occupancy; work sequence; identification of salvaged and relocated materials.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
 - 1. Structural integrity of any element of Project.
 - 2. Integrity of weather exposed or moisture resistant element.
 - 3. Visual qualities of sight exposed elements.

1.04 PROJECT CONDITIONS

- A. Dust Control: Execute work by methods to minimize raising dust from construction operations.
- B. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
- C. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

1.05 COORDINATION

- A. See Section 01 1000 for occupancy-related requirements.
- B. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.
- C. Notify affected utility companies and comply with their requirements.
- D. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- E. Coordinate completion and clean-up of work of separate sections.
- F. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
- C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 6000.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Examine and verify specific conditions described in individual specification sections.
- C. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or mis-fabrication.
- D. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- E. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

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

3.03 PREINSTALLATION MEETINGS

- A. When required in individual specification sections, convene a pre-installation meeting at the site prior to commencing work of the section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section.
- C. Notify Engineer four days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
 - 1. Review conditions of examination, preparation and installation procedures.
 - 2. Review coordination with related work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Engineer, Owner, participants, and those affected by decisions made.

3.04 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

- C. Make neat transitions between different surfaces, maintaining texture and appearance.

3.05 ALTERATIONS

- A. Drawings showing existing construction are based on casual field observation only.
 - 1. Verify that construction arrangements are as shown.
 - 2. Report discrepancies to Engineer before disturbing existing installation.
 - 3. Beginning of alterations work constitutes acceptance of existing conditions.
- B. Services (Including but not limited to Plumbing): Remove, relocate, and extend existing systems to accommodate new construction.
 - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
- C. Protect existing work to remain.
 - 1. Prevent movement of structure; provide shoring and bracing if necessary.
 - 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 - 3. Repair adjacent construction and finishes damaged during removal work.
- D. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
 - 1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Engineer.
- E. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
- F. Do not begin new construction in alterations areas before demolition is complete.
- G. Comply with all other applicable requirements of this section.

3.06 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- C. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.08 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.

3.09 FINAL CLEANING

- A. Use cleaning materials that are nonhazardous.
- B. Clean site; sweep paved areas, rake clean landscaped surfaces.
- C. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.10 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
 - 1. Provide copies to Engineer and Owner.
- B. Notify Engineer when work is considered ready for Substantial Completion.
- C. Submit written certification that Contract Documents have been reviewed, work has been

inspected, and that work is complete in accordance with Contract Documents and ready for Engineer's review.

- D. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Owner-occupied areas.
- E. Notify Engineer when work is considered finally complete.
- F. Complete items of work determined by Engineer's final inspection.

END OF SECTION

SECTION 01 7419

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

- A. Owner requires that this project generate the least amount of trash and waste possible.
- B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- D. Owner may decide to pay for additional recycling, salvage, and/or reuse based on Landfill Alternatives Proposal specified below.
- E. Required Recycling, Salvage, and Reuse: The following may not be disposed of in landfills or by incineration:
 - 1. Aluminum and plastic beverage containers.
 - 2. Corrugated cardboard.
 - 3. Wood pallets.
 - 4. Metals, including packaging banding, reinforcing bars, and other items made of steel, iron, galvanized steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
- F. Methods of trash/waste disposal that are not acceptable are:
 - 1. Burning on the project site.
 - 2. Burying on the project site.
 - 3. Dumping or burying on other property, public or private.
 - 4. Other illegal dumping or burying.
- G. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 DEFINITIONS

- A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.
- B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
- C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.

- H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- I. Return: To give back reusable items or unused products to vendors for credit.
- J. Reuse: To reuse a construction waste material in some manner on the project site.
- K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
- L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- N. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 7800

CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Project Record Documents.
- B. Operation and Maintenance Data.
- C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Section 01 7000 - Execution and Closeout Requirements: Contract closeout procedures.
- C. Individual Product Sections: Specific requirements for operation and maintenance data.
- D. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

- A. Project Record Documents: Submit documents to Engineer with claim for final Application for Payment.
- B. Warranties and Bonds:
 - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
 - 2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Addenda.
 - 3. Change Orders and other modifications to the Contract.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress.
- E. Record Drawings: Legibly mark each item to record actual construction including:
 - 1. Field changes of dimension and detail.
 - 2. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

- A. For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

3.03 WARRANTIES AND BONDS

- A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.
- B. Verify that documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.
- D. Retain warranties and bonds until time specified for submittal.

END OF SECTION

SECTION 02 4100

DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Selective demolition of building elements for alterations purposes.

1.02 RELATED REQUIREMENTS

- A. Section 01 1000 - Summary: Limitations on Contractor's use of site and premises.
- B. Section 01 5000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- C. Section 01 7000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products.
- D. Section 01 7419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Take precautions to prevent collapse of structures; do not allow worker or public access within range of potential collapse of unstable structures.
 - 3. Provide, erect, and maintain temporary barriers and security devices.
 - 4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 5. Do not close or obstruct roadways or sidewalks without permit.
 - 6. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
 - 7. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Protect existing structures and other elements that are not to be removed.
 - 1. Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger.

3.02 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
 - 1. Verify that construction and utility arrangements are as shown.
 - 2. Report discrepancies to Engineer before disturbing existing installation.

3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Remove existing work as indicated and as required to accomplish new work.
- C. Protect existing work to remain.
 1. Prevent movement of structure; provide shoring and bracing if necessary.
 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
 4. Patch as specified for patching new work.

3.03 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION 02 4100

SECTION 04 0511

MASONRY MORTARING AND GROUTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Mortar for masonry.

1.02 RELATED REQUIREMENTS

- A. Section 04 2000 - Unit Masonry

1.03 REFERENCE STANDARDS

- A. ACI 530/530.1/ERTA - Building Code Requirements and Specification for Masonry Structures; American Concrete Institute International; 2009.
- B. ACI 530.1/ASCE 6/TMS 602 - Specification for Masonry Structures; American Concrete Institute International; 2008.
- C. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2004.
- D. ASTM C150 - Standard Specification for Portland Cement; 2011.
- E. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2006.
- F. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2010.
- G. ASTM C780 - Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry; 2010.
- H. ASTM C979 - Standard Specification for Pigments for Integrally Colored Concrete; 2010.
- I. ASTM C1072 - Standard Test Method for Measurement of Masonry Flexural Bond Strength; 2010.
- J. ASTM C1314 - Standard Test Method for Compressive Strength of Masonry Prisms; 2010.
- K. ASTM E518 - Standard Test Methods for Flexural Bond Strength of Masonry; 2010.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Include design mix and indicate whether the Proportion or Property specification of ASTM C270 is to be used. Also include required environmental conditions and admixture limitations.
- C. Reports: Submit reports on mortar indicating conformance of mortar to property requirements of ASTM C 270.

1.05 QUALITY ASSURANCE

- A. Comply with provisions of ACI 530/ASCE 5/TMS 402, except where exceeded by requirements of the contract documents.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

1.07 FIELD CONDITIONS

Anoka County
Lake George Park Picnic Pavilion
16014.00

04 0511 - 1

MASONRY MORTARING AND GROUTING

- A. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and 48 hours after completion of masonry work.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F prior to, during, and 48 hours after completion of masonry work.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Portland Cement: ASTM C150, Type II - Moderate; white.
 - 1. Mortar shall be Type N and be composed of sand and lime. However, Type II non-staining Portland cement may be added to increase workability.
 - 2. The volume of portland cement shall not exceed 20% of the total cementitious materials (cement and lime).
- B. Hydrated Lime: ASTM C207, Type S.
- C. Mortar Aggregate: ASTM C144.
 - 1. Colored Mortar aggregate: Natural sand selected to produce mortar color to match existing.
 - 2. Provide sand with rounded edges for pointing Mortar.
- D. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979.
- E. Water: Clean and potable.
- F. Bonding Agent: Latex type.
- G. Deck Repair Material: BASF 10-60 Rapid Mortar.
- H. Wall Repair: BASF Gel Patch.

2.02 MORTAR MIXES

- A. Mortar shall be pre blended mix by manufacturer and arrive to site in clearly labeled packaging. Mortar color to be selected by the Engineer and Owner.
- B. Approved manufacturers include:
 - 1. SpecMix Inc., 2025 Centre Pointe Boulevard, Mendota Heights, MN 55120. Telephone: 1.888.773.2649. Fax: 1.888.329.7732. Email: Info@specmix.com.
 - 2. Or approved equal.
 - 3. Site mixed mortar will not be accepted.
- C. Mortar for Unit Masonry: ASTM C270, Property Specification.
 - 1. All Parts shall be measured by Volume. Dry Ingredients should be thoroughly mixed before water is added.
 - 2. Mortar: Type N.

2.03 MORTAR MIXING

- A. Thoroughly mix mortar ingredients using mechanical batch mixer, in accordance with ASTM C270 and in quantities needed for immediate use.
- B. Maintain sand uniformly damp immediately before the mixing process.
- C. Do not use anti-freeze compounds to lower the freezing point of mortar.
- D. If water is lost by evaporation, re-temper only within two hours of mixing.

PART 3 EXECUTION

3.01 PREPARATION

- A. Apply bonding agent to existing concrete surfaces.

3.02 INSTALLATION

- A. Install mortar to requirements of section(s) in which masonry is specified.
- B. Remove excess mortar from grout spaces.

3.03 FIELD QUALITY CONTROL

- A. An independent testing agency may perform field tests, in accordance with provisions of Section 01 4000.

END OF SECTION

SECTION 04 2000

UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete Block.
- B. Reinforcement and Anchorage.

1.02 RELATED REQUIREMENTS

- A. Section 04 0511 - Masonry Mortaring and Grouting.

1.03 REFERENCE STANDARDS

- A. ACI 530/530.1/ERTA - Building Code Requirements and Specification for Masonry Structures; American Concrete Institute International; 2009.
- B. ACI 530.1/ASCE 6/TMS 602 - Specification For Masonry Structures; American Concrete Institute International; 2008.
- C. ASTM A82/A82M - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement; 2007.
- D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- E. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a.
- F. ASTM C62 - Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale); 2010.
- G. ASTM C67 - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile; 2009.
- H. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2009.
- I. ASTM C140 – Standard Test Methods of Sampling and Testing Concrete Masonry Units and Related Units; 2010.
- J. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2010.
- K. ASTM C780 - Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry; 2010.
- L. ASTM D226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2009.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for masonry units and masonry accessories.
- C. Samples: Submit samples of CMU to illustrate color, texture, and extremes of color range.
- D. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

Anoka County
Lake George Park Picnic Pavilion
16014.00

04 2000 - 1

UNIT MASONRY

1. See Section 01 6000 - Product Requirements, for additional provisions.

1.06 QUALITY ASSURANCE

- A. Comply with provisions of ACI 530/530.1/ERTA, except where exceeded by requirements of the contract documents.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards and as follows:
 1. Size: Standard units with nominal face dimensions of 16 x 8 inches and nominal depth of as indicated on plans.
 2. Load-Bearing Units: ASTM C 90, normal weight.
 - a. Hollow block, as indicated.
 - b. Exposed faces: Split Face CMU, color to be chosen from manufacturer's standard color selection.

2.03 MORTAR AND GROUT MATERIALS

- A. Mortar and grout: As specified in Section 04 0511.

2.04 REINFORCEMENT AND ANCHORAGE

- A. Manufacturers of Joint Reinforcement and Anchors:
 1. Dur-O-Wal: www.dur-o-wal.com.
 2. Hohmann & Barnard, Inc (including Dur-O-Wal brand): www.h-b.com.
 3. WIRE-BOND: www.wirebond.com.
 4. Substitutions: See Section 01 6000 - Product Requirements.
- B. Single Wythe Joint Reinforcement: Truss type; ASTM A 82/A 82M steel wire, mill galvanized to ASTM A 641/A 641M, Class 3; 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not more than 1 inch and not less than 1/2 inch of mortar coverage on each exposure.

2.05 ACCESSORIES

- A. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.03 COLD AND HOT WEATHER REQUIREMENTS

- A. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and 48 hours after completion of masonry work.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F prior to, during, and 48 hours after completion of masonry work.

3.04 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
 - 1. Bond: Running.
 - 2. Mortar Joints: Concave.

3.05 PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

3.06 REINFORCEMENT AND ANCHORAGE - GENERAL

- A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.

3.07 FIELD QUALITY CONTROL

- A. An independent testing agency may perform field quality control tests, as specified in Section 01 4000.

3.08 CLEANING

- A. Clean soiled surfaces with cleaning solution.

END OF SECTION

SECTION 04 7200

CAST STONE MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Architectural cast stone.
- B. Units required are:
 - 1. Exterior pier caps.

1.02 RELATED REQUIREMENTS

- A. Section 04 2000 - Unit Masonry: Installation of cast stone in conjunction with masonry.

1.03 REFERENCE STANDARDS

- A. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; American Concrete Institute International; 2008.
- B. ASTM A185/A185M - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete; 2007.
- C. ASTM A615/A615M - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement; 2009b.
- D. ASTM C33 - Standard Specification for Concrete Aggregates; 2011.
- E. ASTM C150 - Standard Specification for Portland Cement; 2011.
- F. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2010.
- G. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2010a.
- H. ASTM C1364 - Standard Specification for Architectural Cast Stone; 2010b.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Manufacturer's Qualification Data: Documentation showing compliance with specified requirements.
- C. Product Data: Test results of cast stone components made previously by the manufacturer.
- D. Shop Drawings: Include elevations, dimensions, layouts, profiles, cross sections, reinforcement, exposed faces, arrangement of joints, anchoring methods, anchors, and piece numbers.
- E. Mortar Color Selection Samples.
- F. Verification Samples: Pieces of actual cast stone components not less than 12 inches square, illustrating range of color and texture to be anticipated in components furnished for the project.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A current producer member of the Cast Stone Institute with a minimum of 5 years of experience in producing cast stone of the types required for project and:
 - 1. Adequate plant capacity to furnish quality, sizes, and quantity of cast stone required without delaying progress of the work.
 - 2. Products previously produced by plant and exposed to weather that exhibit satisfactory appearance.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver cast stone components secured to shipping pallets and protected from damage and discoloration. Protect corners from damage.
- B. Number each piece individually to match shop drawings and schedule.
- C. Store cast stone components and installation materials in accordance with manufacturer's instructions.
- D. Store cast stone components on pallets with non-staining, waterproof covers. Ventilate under covers to prevent condensation. Prevent contact with dirt.
- E. Protect cast stone components during handling and installation to prevent chipping, cracking, or other damage.
- F. Store mortar materials where contamination can be avoided.
- G. Schedule and coordinate production and delivery of cast stone components with unit masonry work to optimize on-site inventory and to avoid delaying the work.

PART 2 PRODUCTS

2.01 ARCHITECTURAL CAST STONE

- A. Cast Stone: Architectural concrete product manufactured to simulate appearance of natural limestone, complying with ASTM C1364.
 - 1. Compressive Strength: As specified in ASTM C1364; calculate strength of pieces to be field cut at 80 percent of uncut piece.
 - 2. Freeze-Thaw Resistance: Demonstrated by field experience.
 - 3. Surface Texture: Sand Blasted.
 - 4. Color: To be chosen by Engineer and Owner.
 - 5. Remove cement film from exposed surfaces before packaging for shipment.
- B. Shapes: Provide sizes and shapes as indicated on the drawings.
 - 1. Variation from Any Dimension, Including Bow, Camber, and Twist: Maximum of plus/minus 1/8 inch or length divided by 360, whichever is greater, but not more than 1/4 inch.
- C. Reinforcement: Provide reinforcement as required to withstand handling and structural stresses; comply with ACI 318.

2.02 MATERIALS

- A. Portland Cement: ASTM C150.
 - 1. For Mortar: Type I or II, except Type III may be used in cold weather.
- B. Coarse Aggregate: ASTM C33, except for gradation; granite, quartz, or limestone.
- C. Fine Aggregate: ASTM C33, except for gradation; natural or manufactured sands.
- D. Admixtures: ASTM C494/C494M.
- E. Water: Potable.
- F. Reinforcing Bars: ASTM A615/A615M deformed bars, galvanized or epoxy coated.
- G. Steel Welded Wire Reinforcement: ASTM A185/A185M, galvanized or epoxy coated.
- H. Embedded Anchors, Dowels, and Inserts: Type 304 stainless steel, of type and size as required for conditions.
- I. Mortar: Portland cement-lime, ASTM C270, Type N; do not use masonry cement.
- J. Cleaner: General-purpose cleaner designed for removing mortar and grout stains,

efflorescence, and other construction stains from new masonry surfaces without discoloring or damaging masonry surfaces; approved for intended use by cast stone manufacturer and by cleaner manufacturer for use on cast stone and adjacent masonry materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine construction to receive cast stone components. Notify Architect/Engineer if construction is not acceptable.
- B. Do not begin installation until unacceptable conditions have been corrected.

3.02 INSTALLATION

- A. Install cast stone components in conjunction with masonry, complying with requirements of Section 04 2000.
- B. Mechanically anchor cast stone units indicated; set remainder in mortar.
- C. Setting:
 - 1. Drench cast stone components with clear, running water immediately before installation.
 - 2. Set units in a full bed of mortar unless otherwise indicated.
 - 3. Fill vertical joints with mortar.
 - 4. Fill dowel holes and anchor slots completely with mortar or non-shrink grout.
- E. Installation Tolerances:
 - 1. Variation from Plumb: Not more than 1/8 inch in 10 feet or 1/4 inch in 20 feet or more.
 - 2. Variation from Level: Not more than 1/8 inch in 10 feet or 1/4 inch in 20 feet, or 3/8 inch maximum.
 - 3. Variation in Joint Width: Not more than 1/8 inch in 36 inches or 1/4 of nominal joint width, whichever is less.
 - 4. Variation in Plane Between Adjacent Surfaces (Lipping): Not more than 1/16 inch difference between planes of adjacent units or adjacent surfaces indicated to be flush with units.
- F. Repairs: Repair chips and other surface damage noticeable when viewed in direct daylight at 20 feet.
 - 1. Repair with matching touchup material provided by the manufacturer and in accordance with manufacturer's instructions.
 - 2. Repair methods and results subject to Architect/Engineer 's approval.

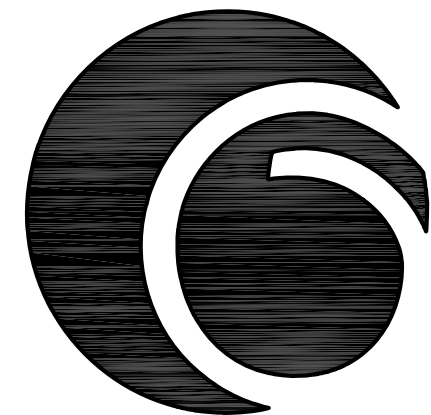
3.03 CLEANING

- A. Keep cast stone components clean as work progresses.

3.04 PROTECTION

- A. Protect completed work from damage.
- B. Clean, repair, or restore damaged or mortar-splashed work to condition of new work.

END OF SECTION



**COLLABORATIVE
DesignGroup, inc.**
100 Portland Avenue South, Suite 100
Minneapolis, Minnesota 55401
p 612.332.3654 f 612.332.3626
www.collaborativedesigngroup.com

**Anoka County
Lake George Park
Picnic Pavilion**
3100 217th Avenue NW
Oak Grove, Minnesota

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature
Craig A. Milkert
Name
18360
License # Date

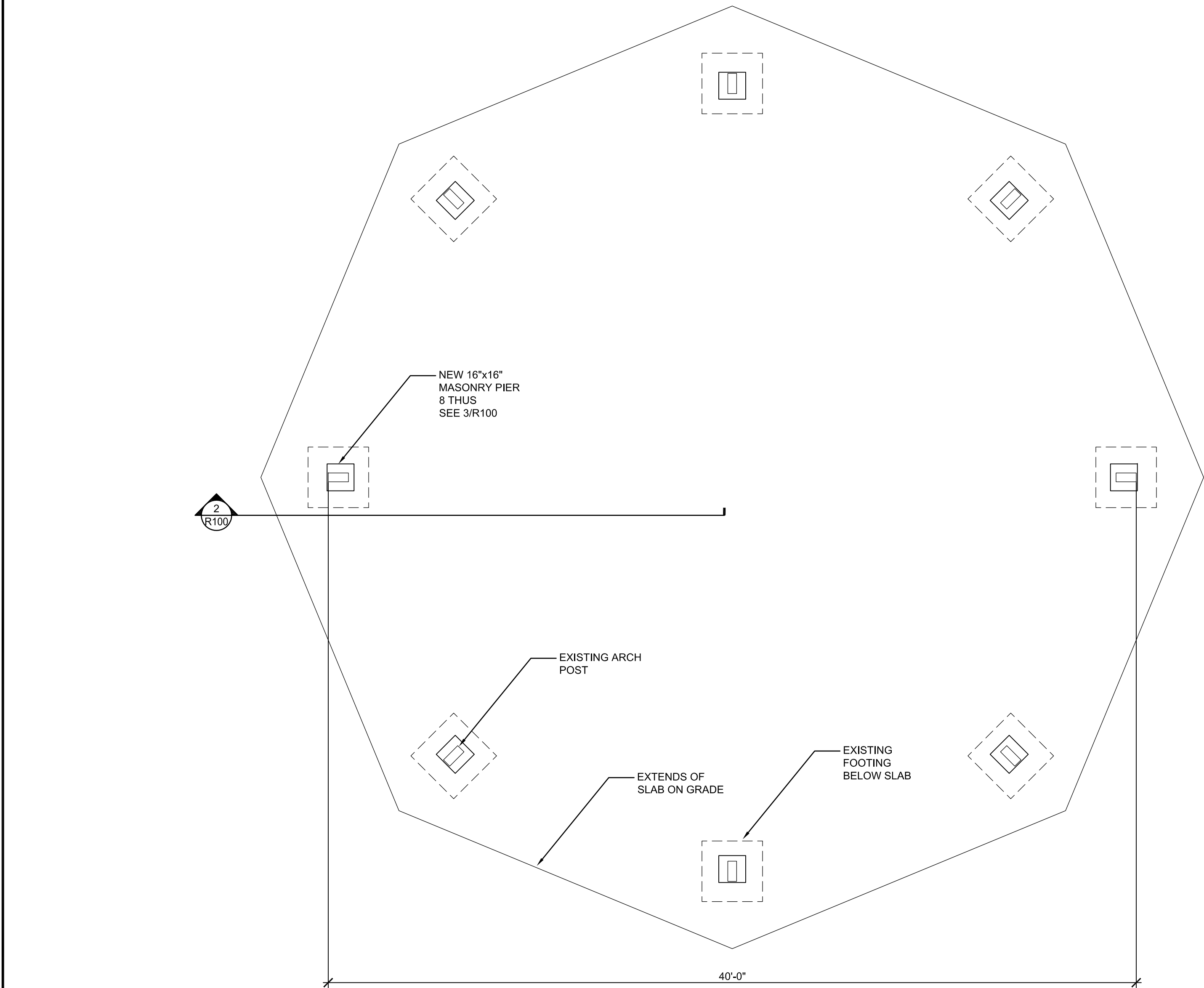
**CONSTRUCTION
DOCUMENTS
March 16, 2016**

REVISION LOG		
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0	03-16-16	CONSTRUCTION DOCUMENTS

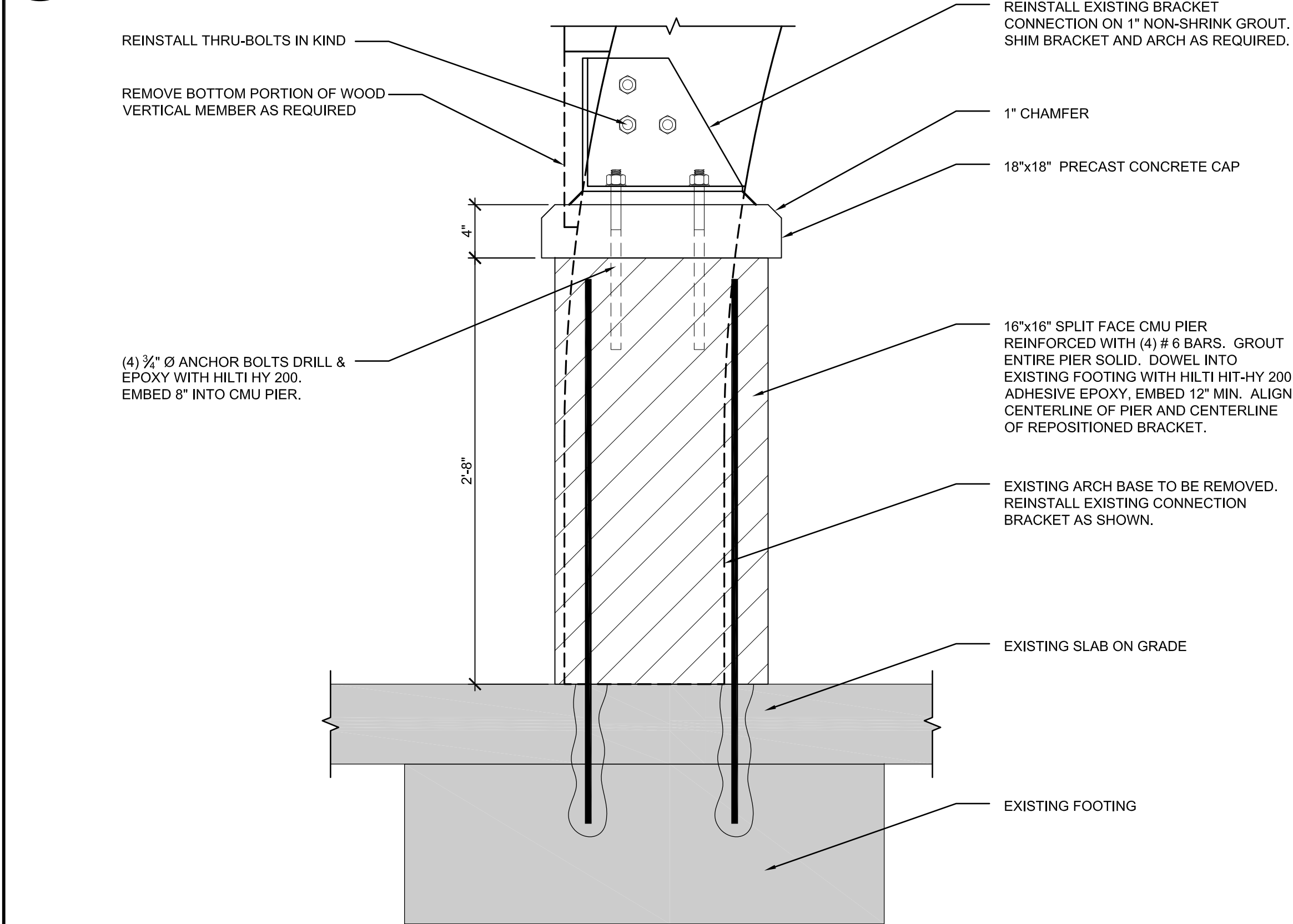
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PROJECT NUMBER
JAGN
DRAWN BY CHECKED BY
CAM
PROJECT MGR.

**PLAN, SECTION,
AND DETAIL**

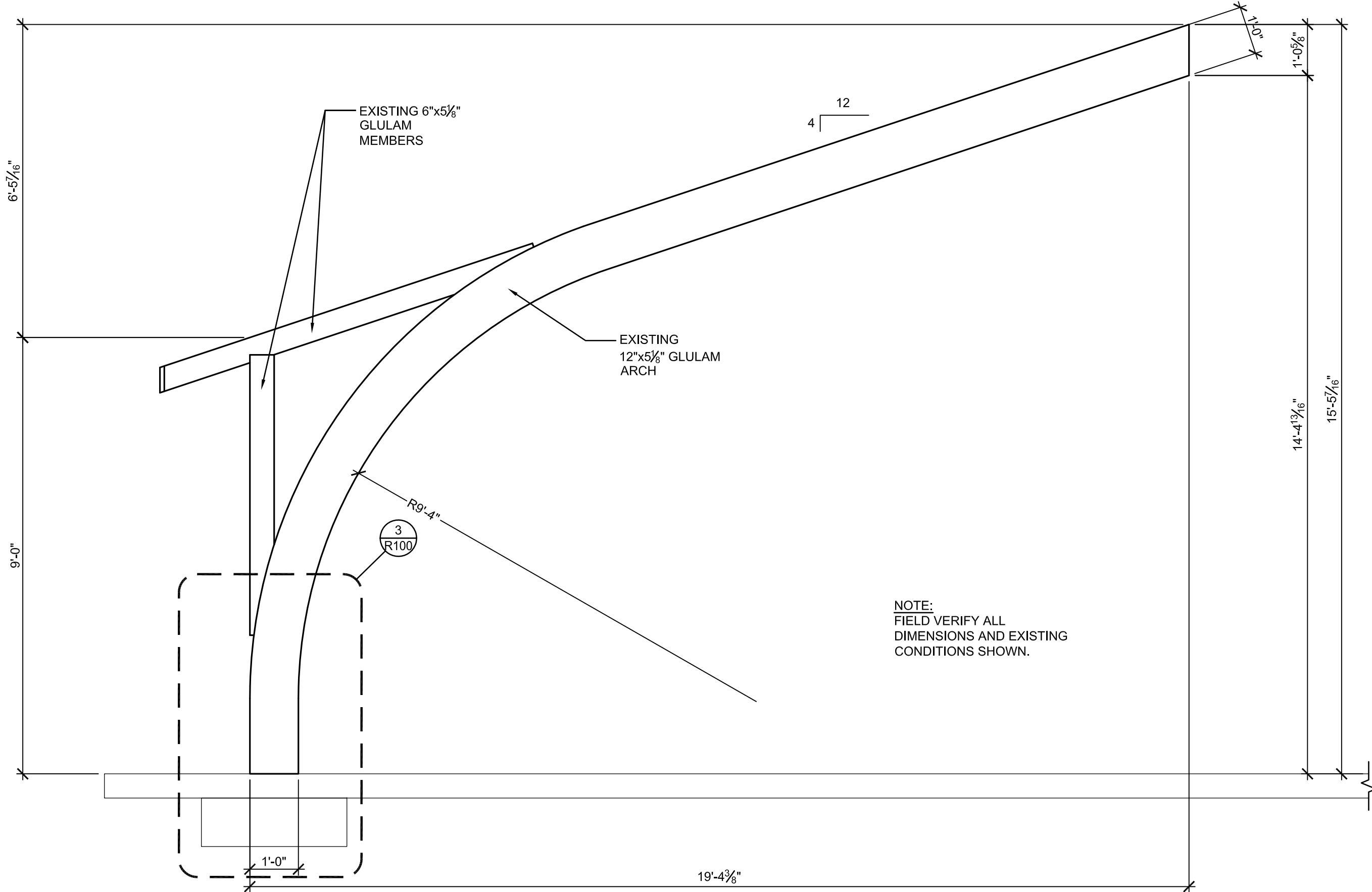
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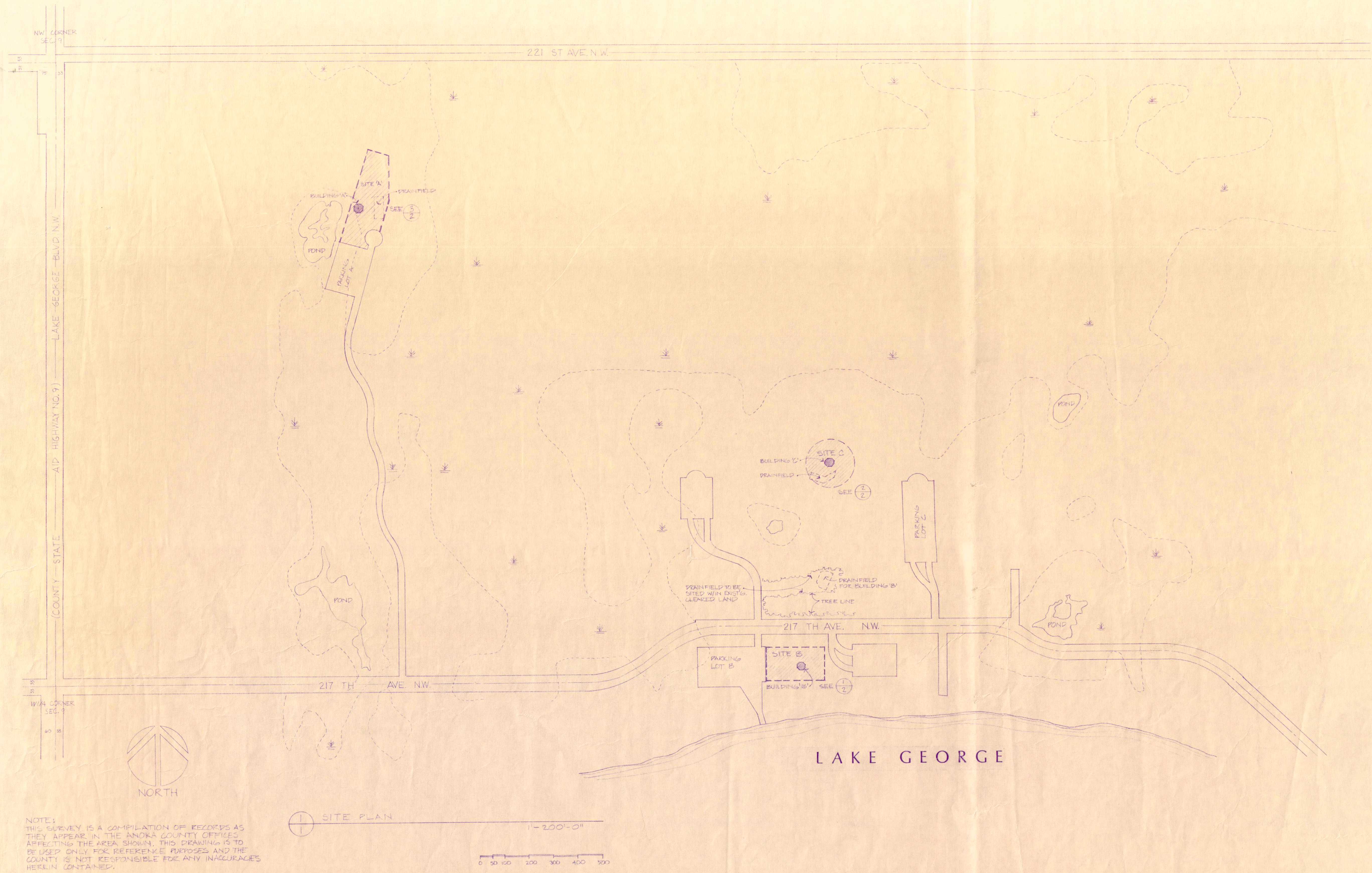
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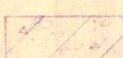



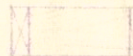





3 NEW PIER BASE DETAIL
SCALE: 1 1/2" = 1'-0"



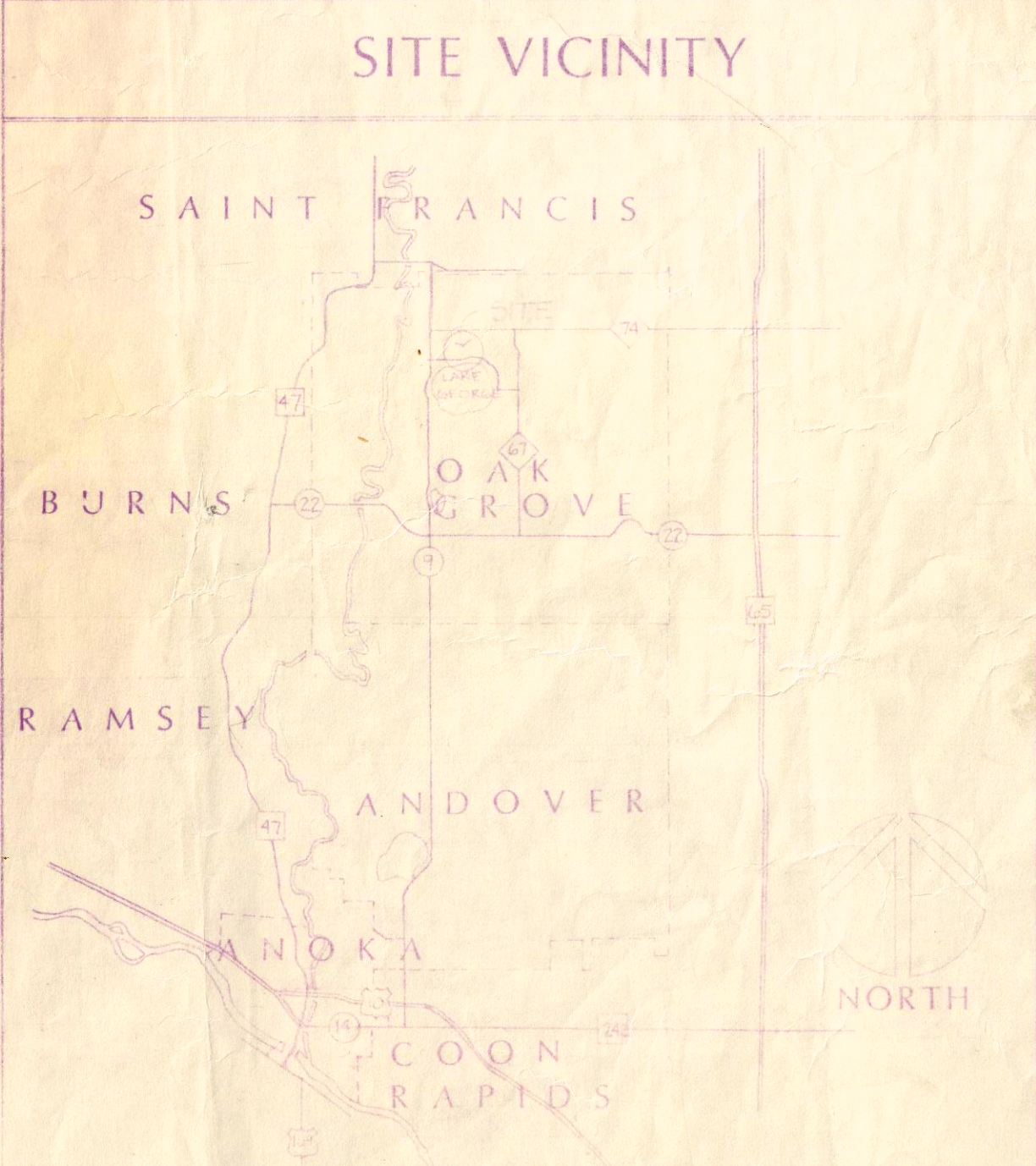
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SCALE: 1/2" = 1'-0"

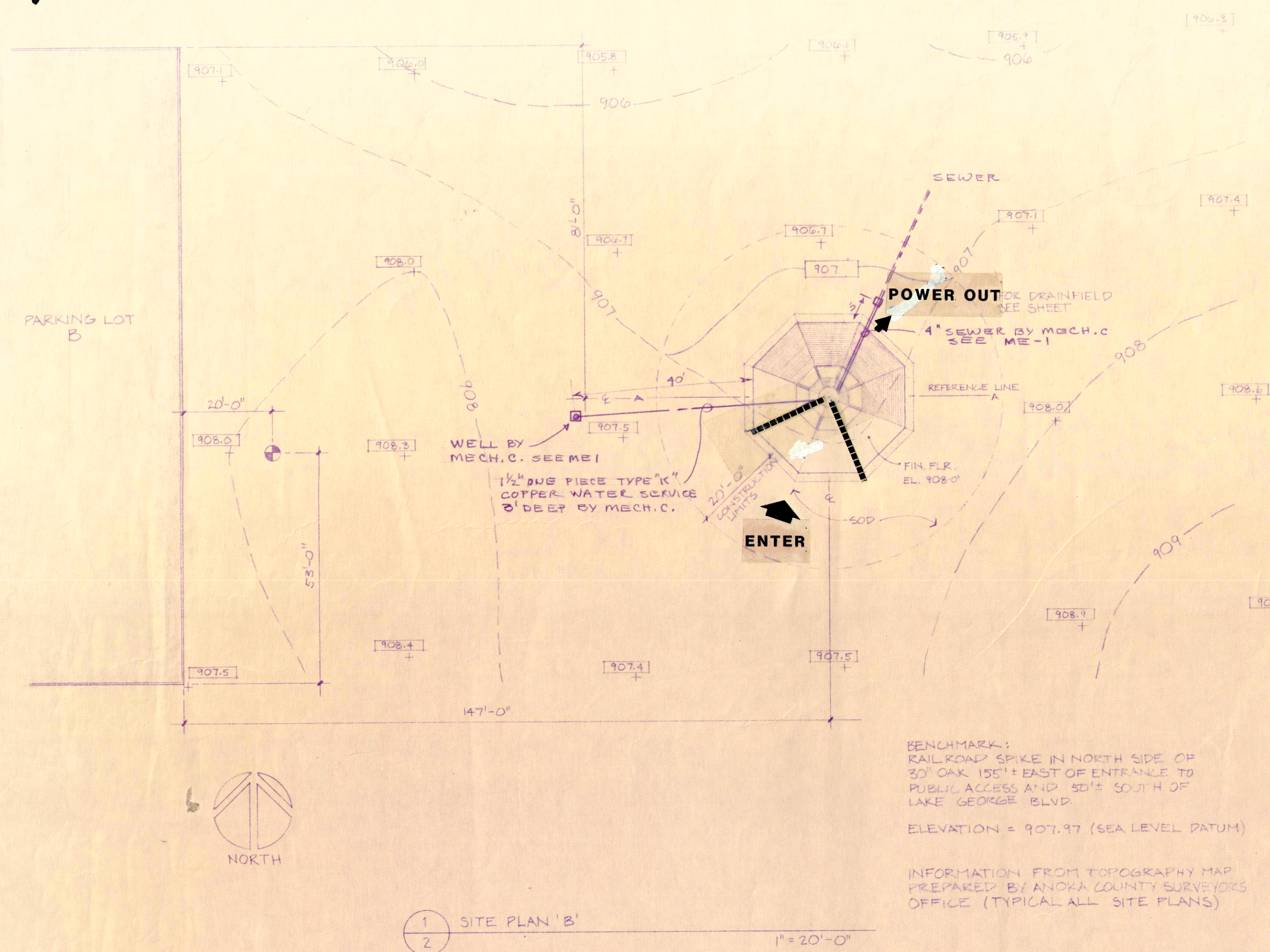


INDEX TO DRAWINGS		
TYPE	SHEET	DESCRIPTION
ARCH	1	SITE PLAN - LEGEND
	2	PARTIAL SITE PLAN
	3	PLANS - ELEVATIONS
	4	SECTION, INT. ELEVATIONS, DETAIL
	5	DRAIN FIELD PLANS, DETAILS, SPECIFICATIONS
M.E.E.	ME-1	PLANS, DETAILS, RISERS, SCHEDULES

KEY TO MATERIALS	
	EARTH
	CONCRETE
	CONCRETE BLOCK
	CLAY OR CERAMIC TILE
	FACE BRICK
	PLASTER (5/8\"/>
	WOOD FRAMING & SIDING
	INSULATION
	METAL FLASHING
	AC BOARD
	GRAVEL
	METAL - SILL STUDS

DOOR LEGEND	DETAIL LEGEND

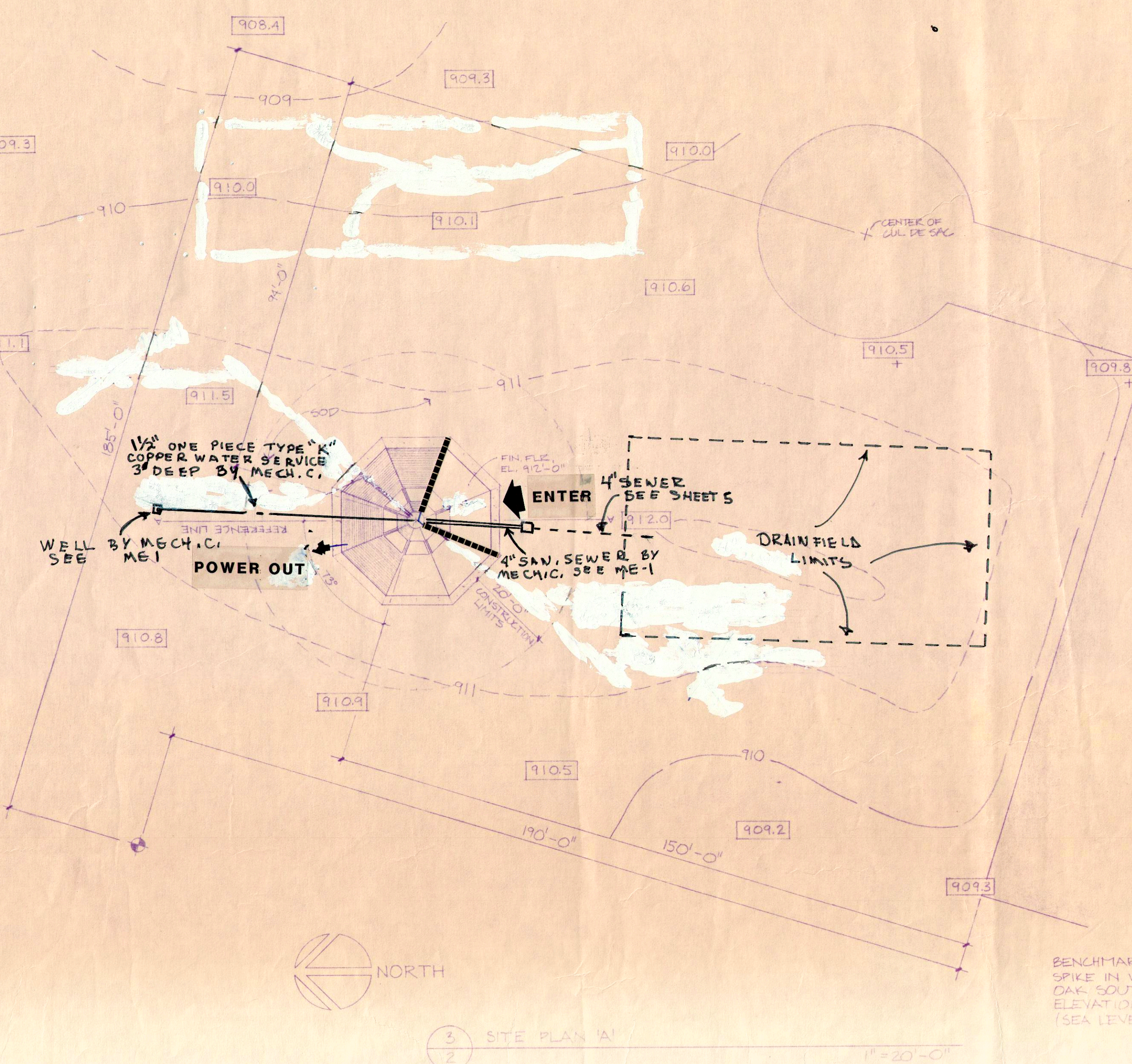




BENCHMARK:
RAILROAD SPIKE IN NORTH SIDE OF
30' OAK 150' EAST OF ENTRANCE TO
PUBLIC ACCESS AND 50' SOUTH OF
LINE GEORGE BLVD.
ELEVATION = 907.97 (SEA LEVEL DATUM)

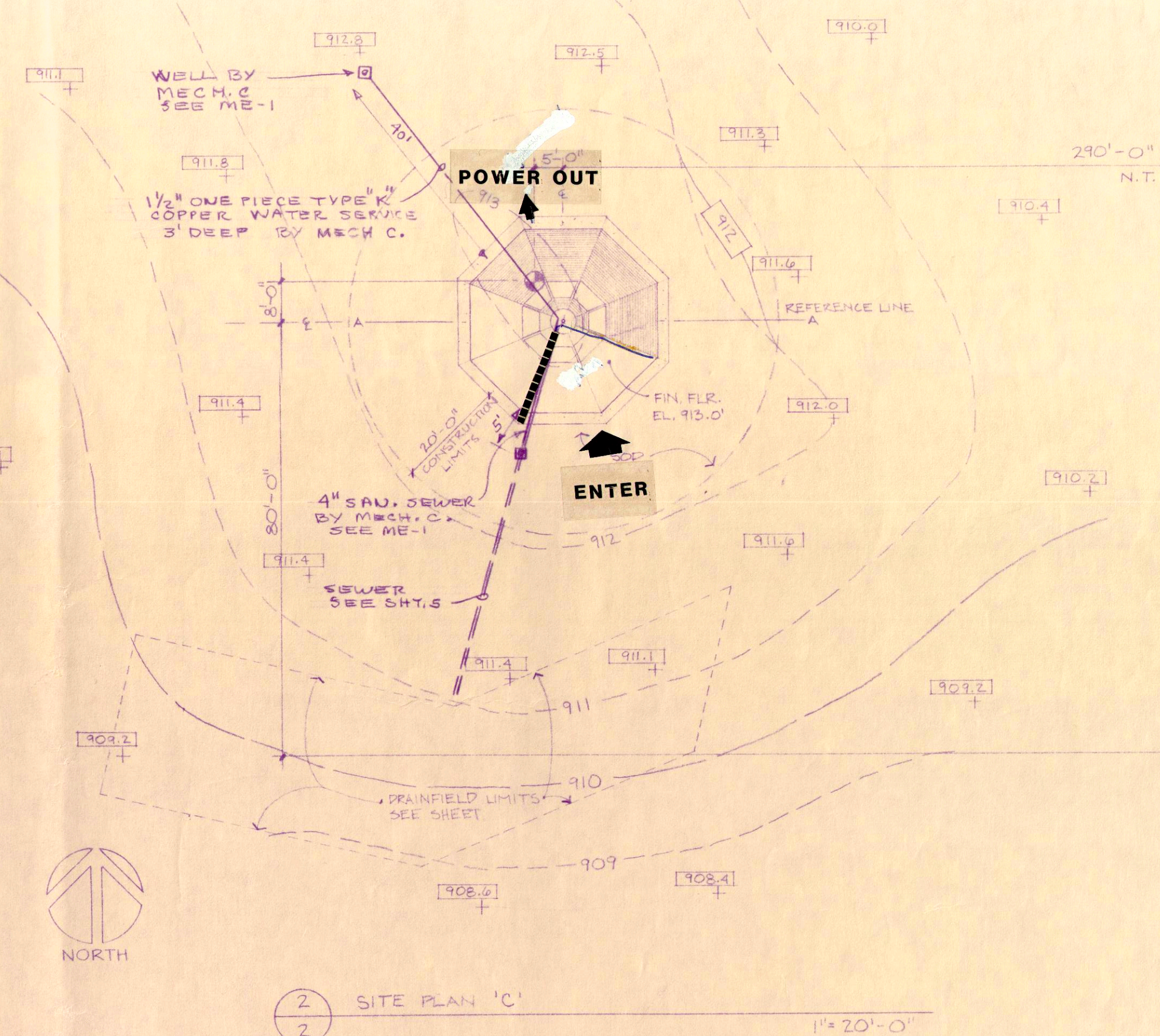
INFORMATION FROM TOPOGRAPHY MAP
PREPARED BY ANOKA COUNTY SURVEYORS
OFFICE (TYPICAL ALL SITE PLANS)

1 SITE PLAN 'B'
2



BENCHMARK:
SPIKE IN WEST SIDE OF 12\"/>

3 SITE PLAN 'A'
2



BENCHMARK:
SPIKE IN SOUTH SIDE OF 10\"/>

2 SITE PLAN 'C'
2

REVISIONS

I hereby certify that this drawing was
prepared by me or under my direct su-
pervision and that I am a duly registered
architect under the laws of
the State of Minnesota.
Date of 11-11-88 Reg. No. 55427

Signature
Date 11-11-88 Reg. No. 55427

Patch Erickson Madson Watten, Inc.
Architects and Planners

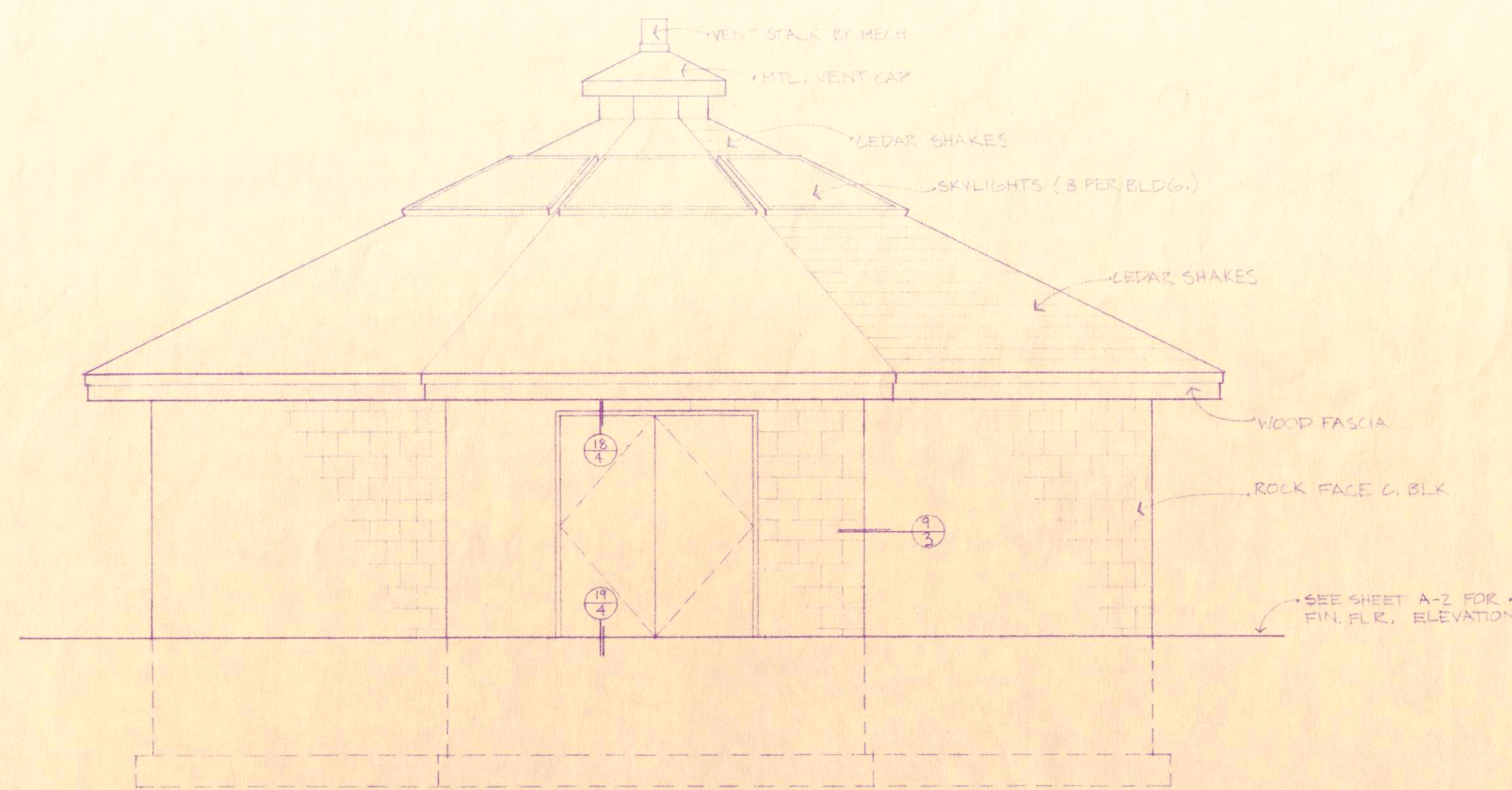
2730 Nevada Avenue North, Minneapolis, Minnesota 55427 Telephone 812/593-5106

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R.T.

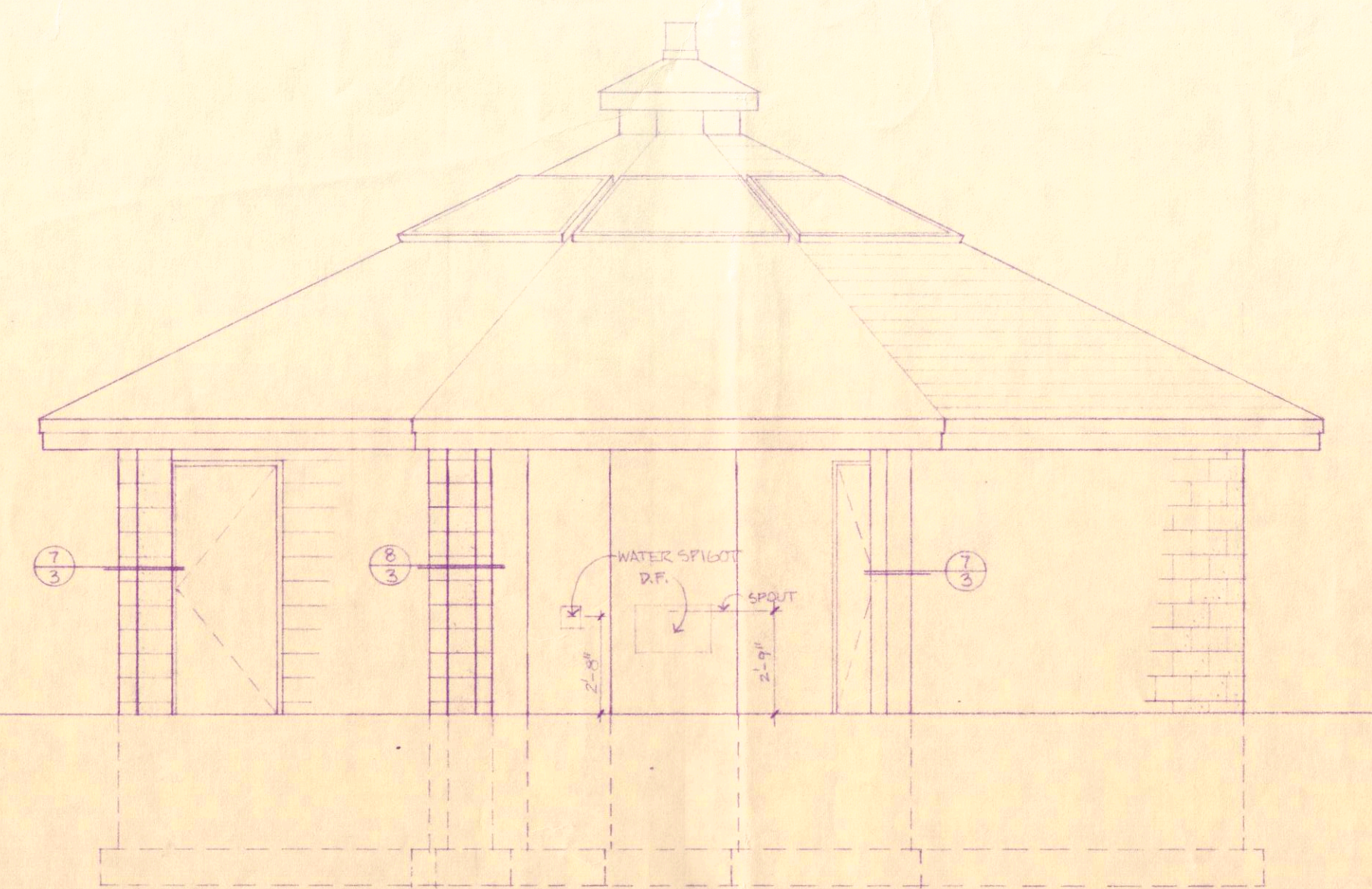
COMM. NO.
8814
DATE
11-10-88

SHEET NUMBER
2
OF FIVE SHEETS

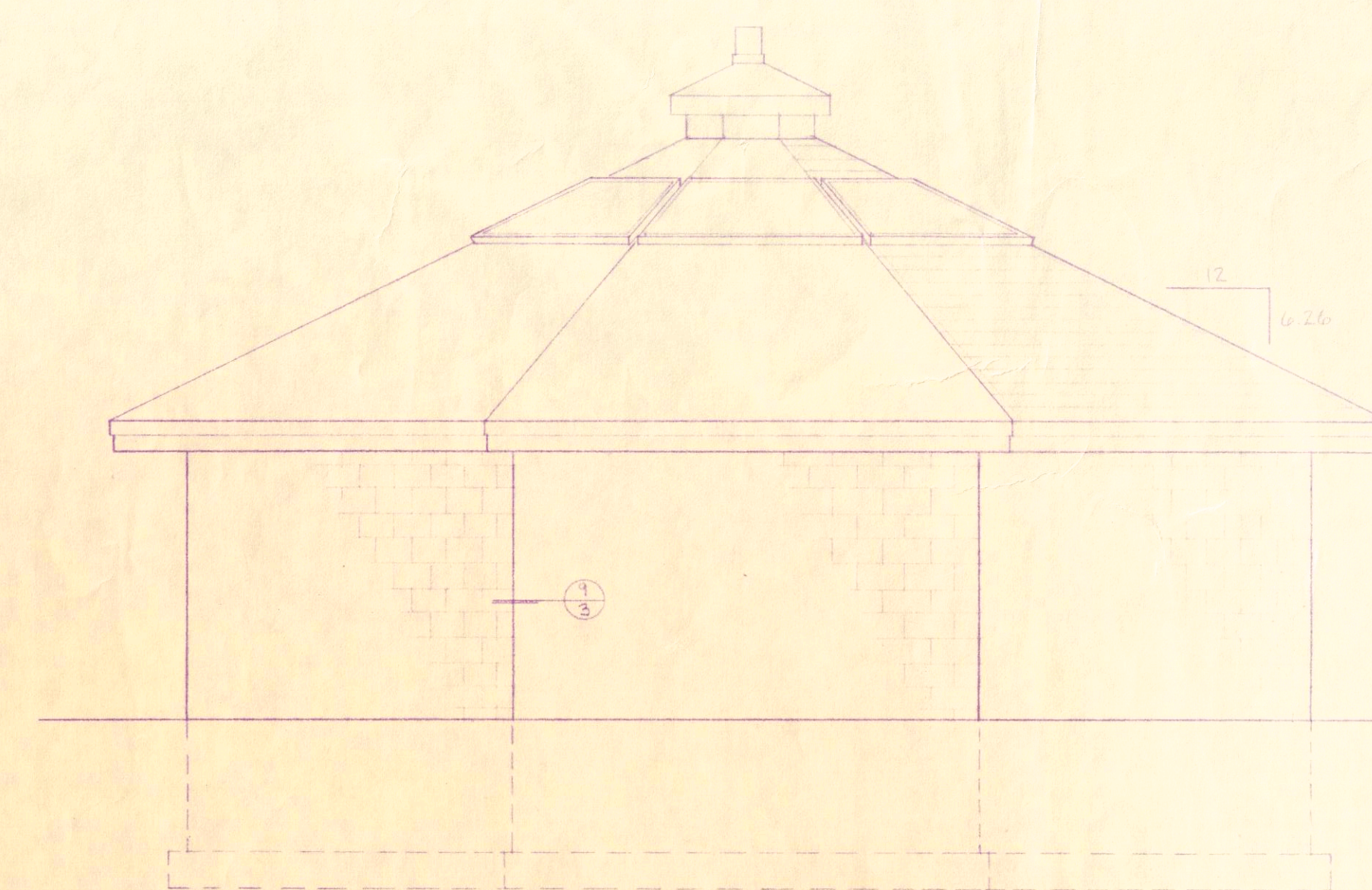
LAKE GEORGE RESTROOM FACILITIES
ANOKA COUNTY
OAK GROVE, MINNESOTA



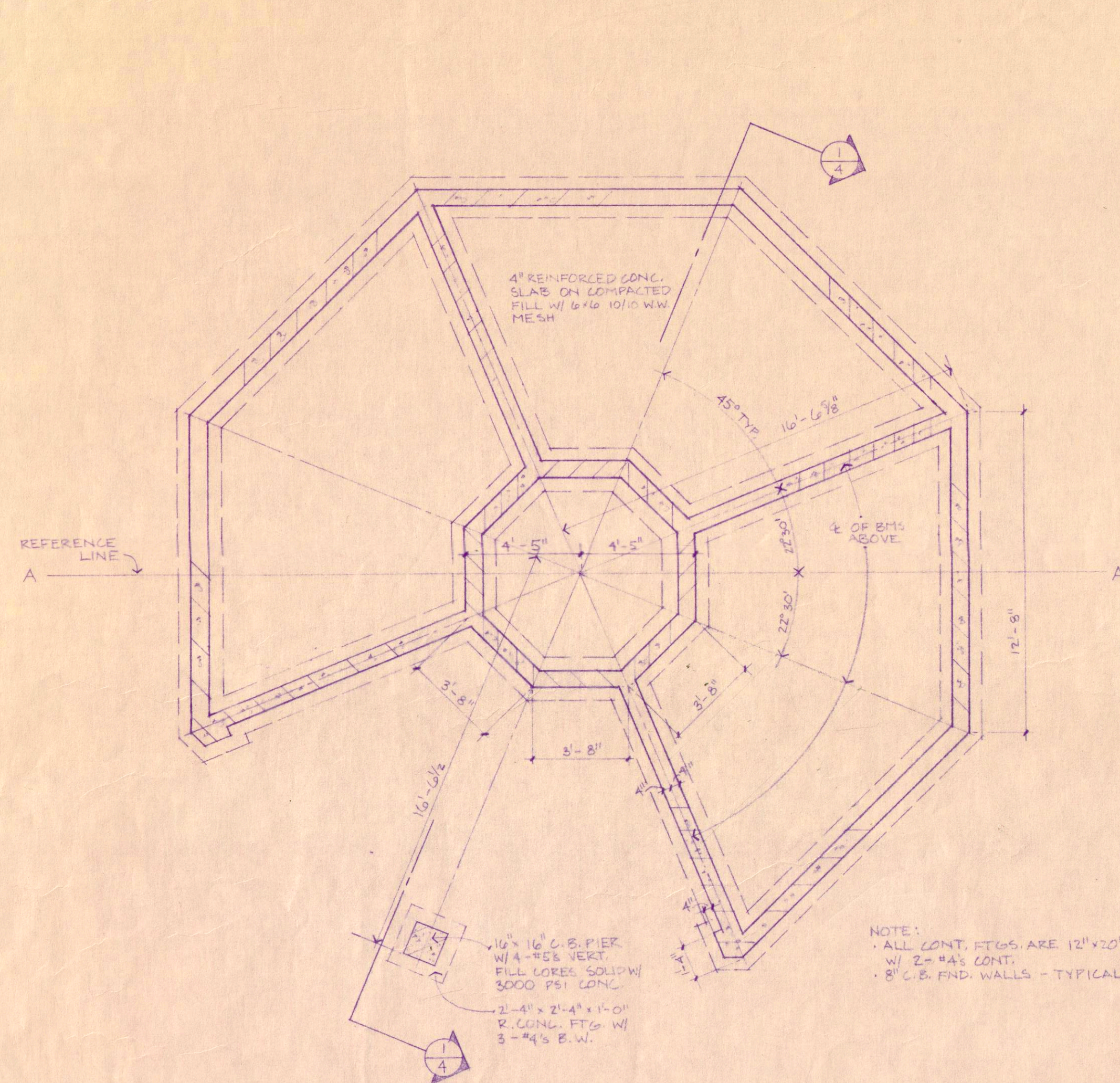
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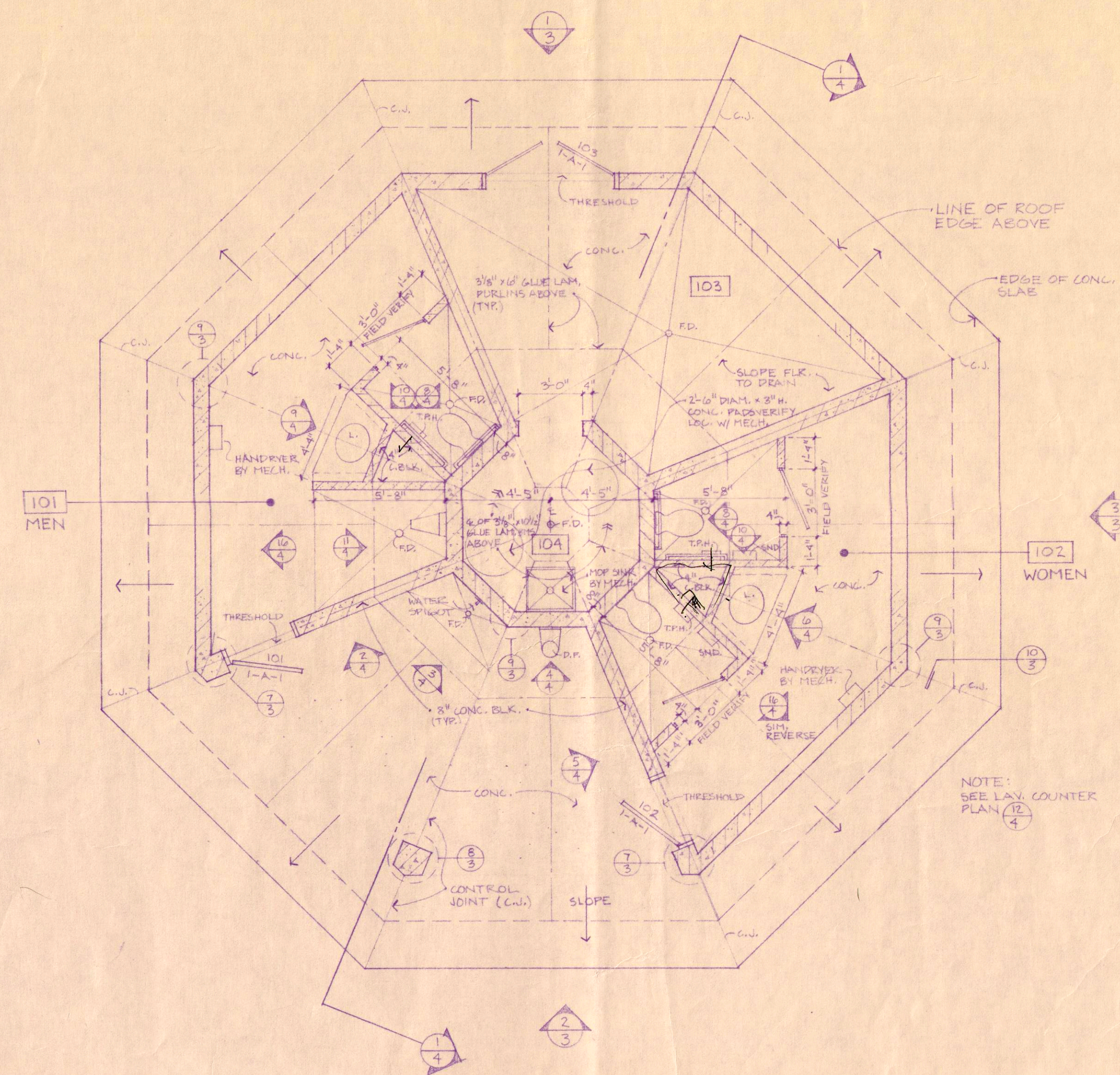
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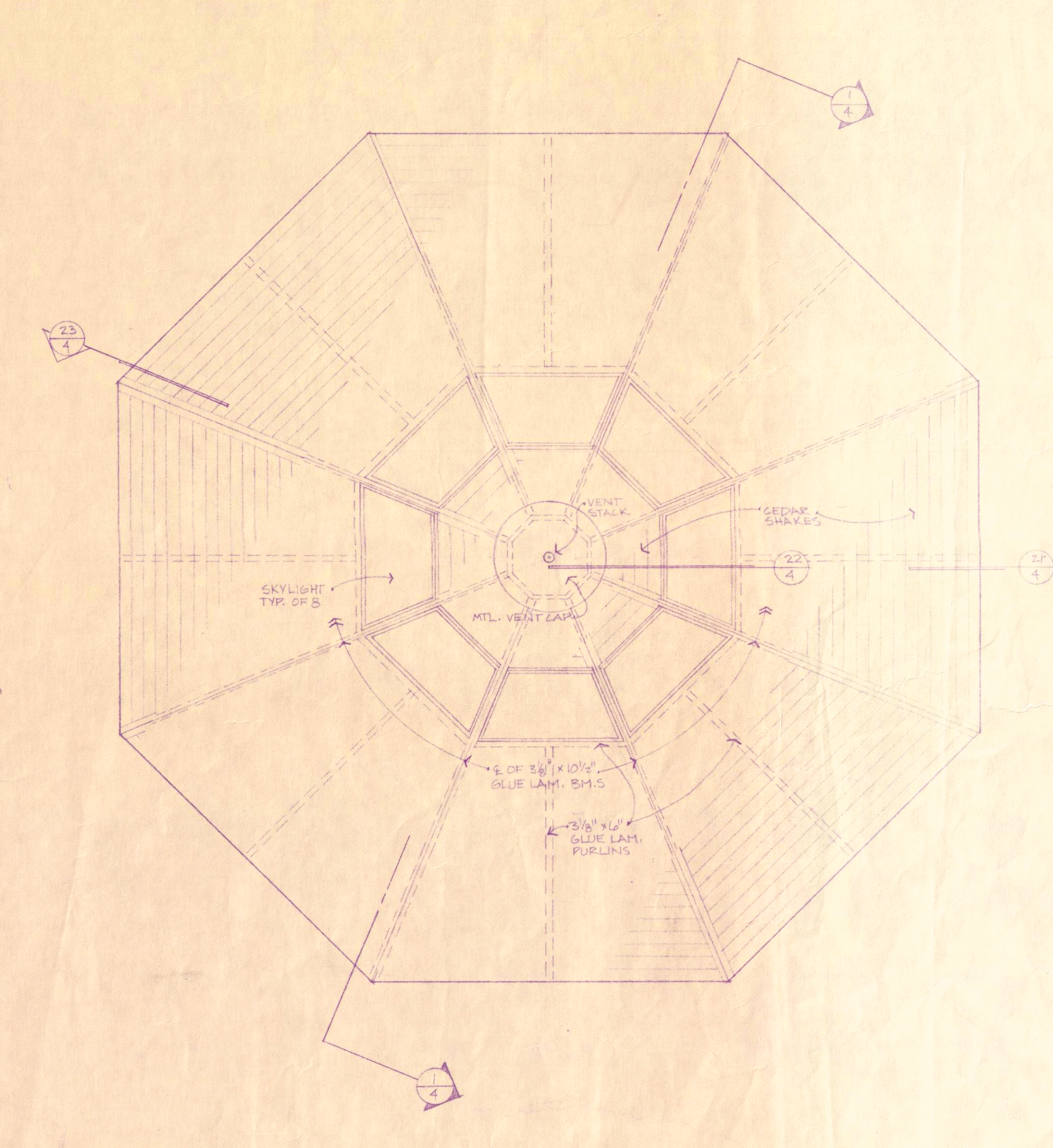
3 ELEVATION
3 1/4" = 1'-0"



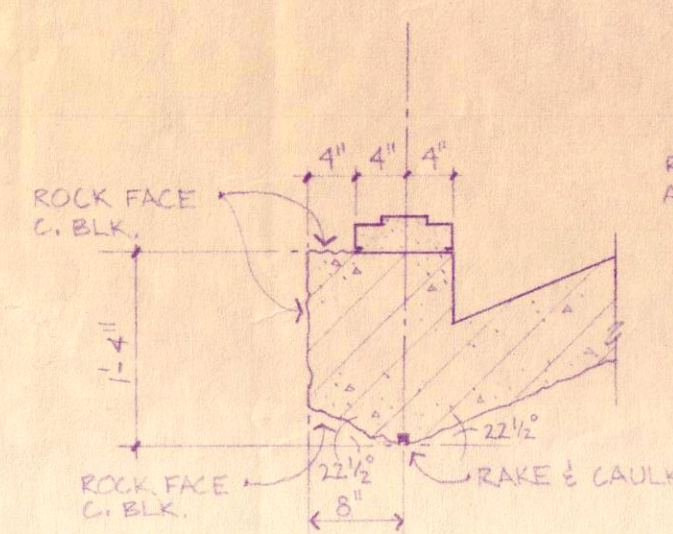
4 FOOTING & FOUNDATION PLAN
3 1/4" = 1'-0"



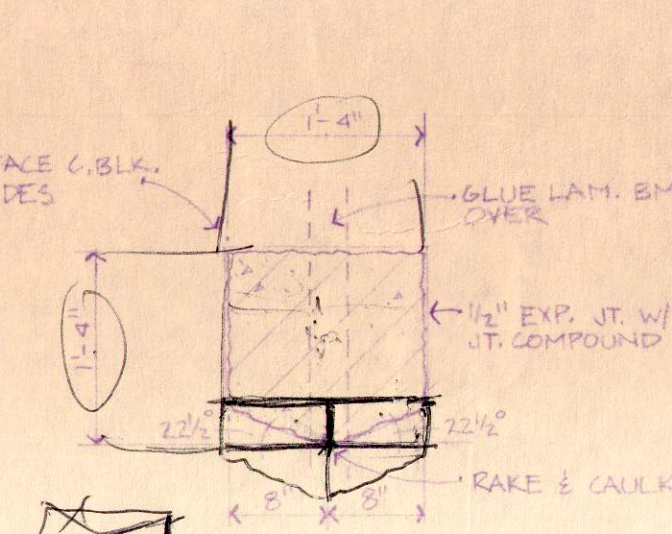
5 FLOOR PLAN
3 1/4" = 1'-0"



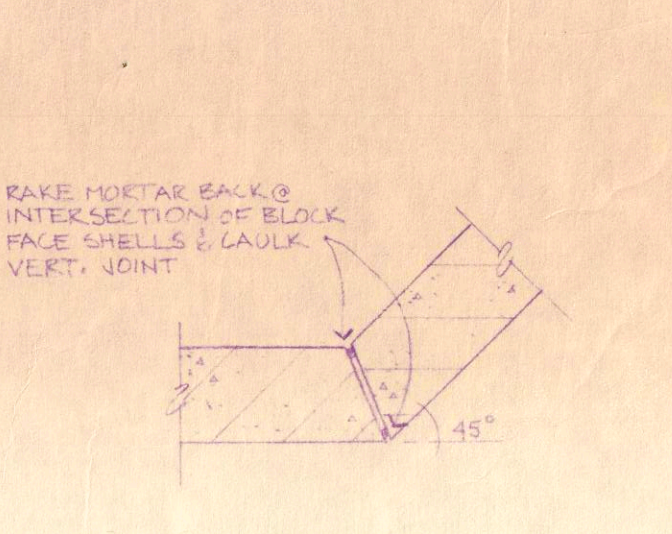
6 ROOF PLAN
3 1/4" = 1'-0"



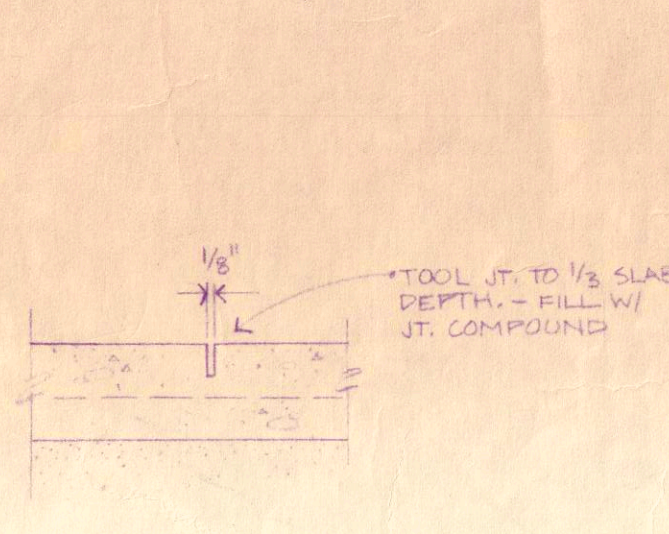
7 CORNER DETAIL
3 3/4" = 1'-0"



8 COLUMN DETAIL
3 1/4" = 1'-0"



9 CORNER DETAIL (TYPICAL)
3 1/4" = 1'-0"



10 CONTROL JOINT DETAIL
3 1/4" = 1'-0"

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		CEILING		REMARKS
		MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	
101	MEN	CONC.	SEALED	C. BLK.	EPOXY PT.	C. BLK.	EPOXY PT.	W.D. PEA. BM. FLOOR	SPAIN	CLUB HQT. VARIES
102	WOMEN	"	"	"	"	"	"	"	"	"
103	MECH/STOR.	"	"	"	SEALED	"	SEALED	"	"	"
104	MECH.	"	"	"	"	"	"	"	"	"

REVISIONS

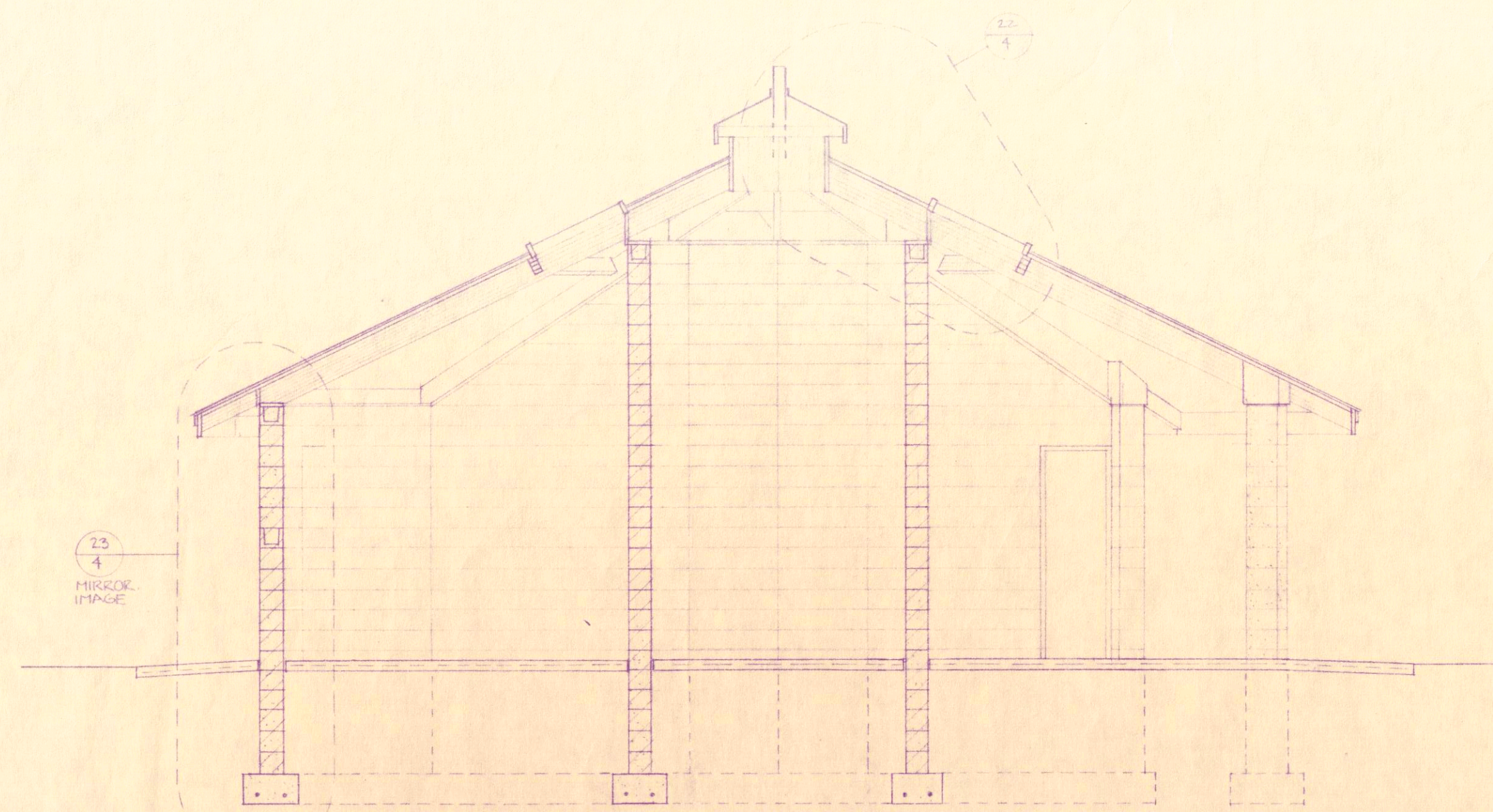
I hereby certify that this drawing was prepared by me or under my direct supervision and that I am a duly registered architect under the laws of the State of Minnesota.

Signature: *[Signature]*
Date: 10-14-80
Reg. No. 3457

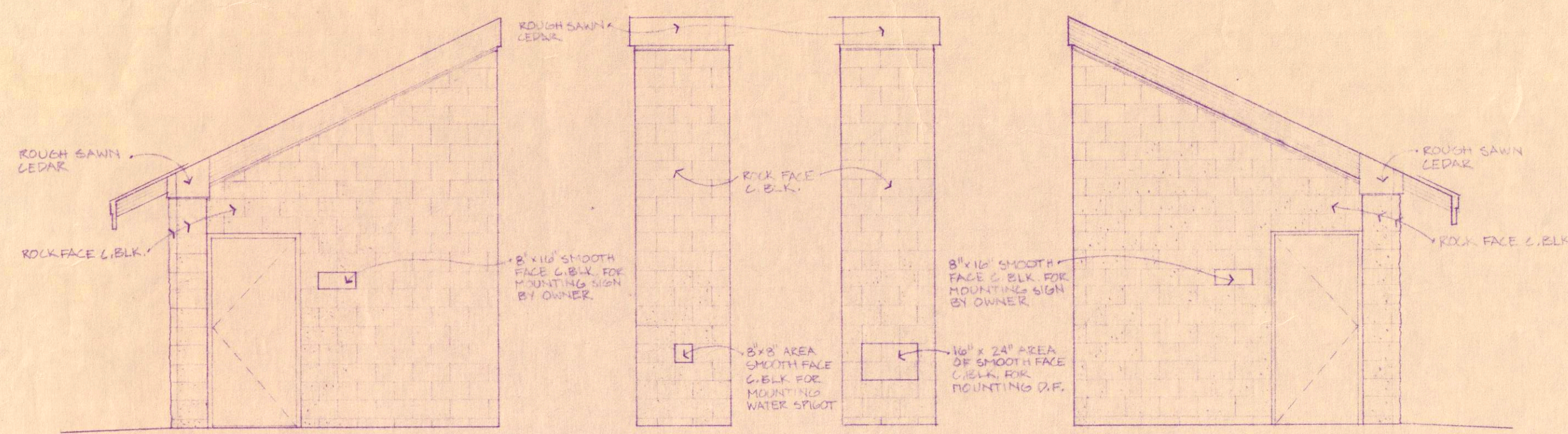
Patch Erickson Madson Watten, Inc.
Architects and Planners
2730 Nevada Avenue North, Minneapolis, Minnesota 55427 Telephone 812/583-5106

DRAWN BY: *[Name]*
CHECKED BY: *[Name]*
COMM. NO. 8814
DATE 10-10-80
SHEET NUMBER 3
OF five SHEETS

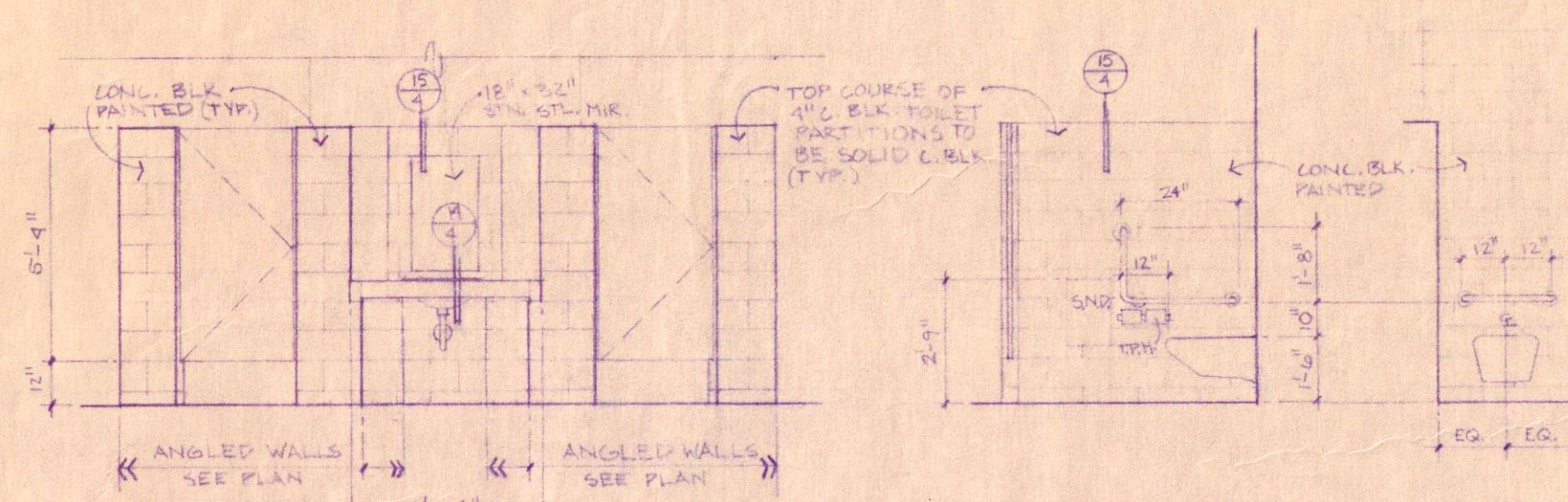
LAKE GEORGE RESTROOM FACILITIES
ANOKA COUNTY
OAK GROVE, MINNESOTA



1 BUILDING SECTION
1/4" = 1'-0"

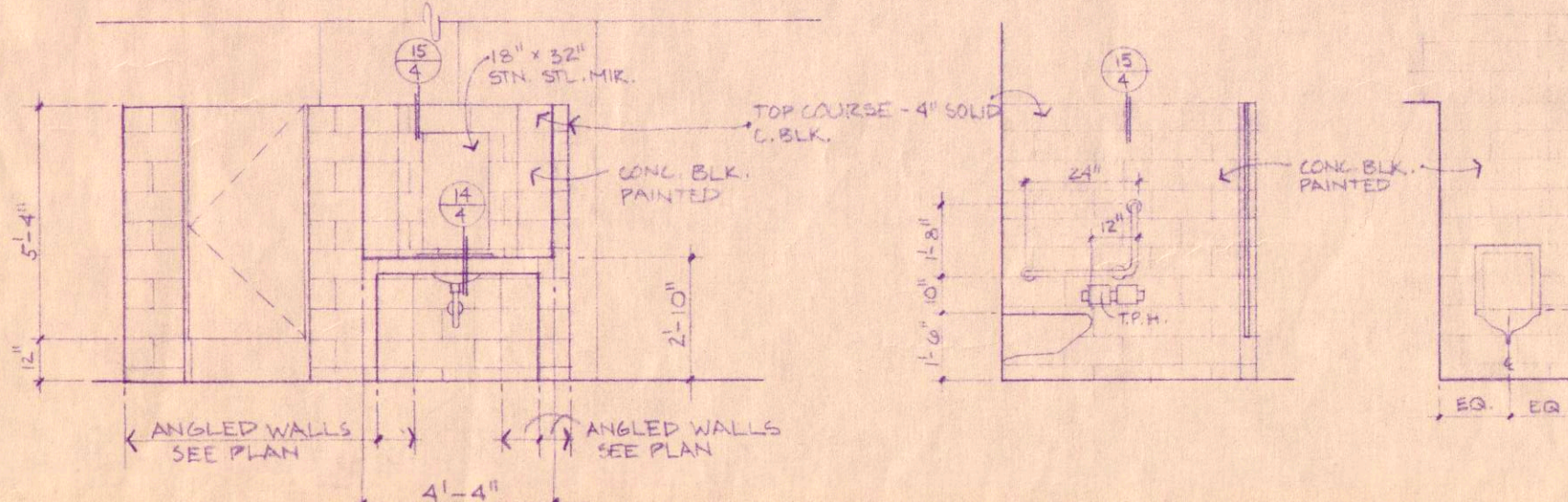


2 ELEVATION
1/4" = 1'-0"



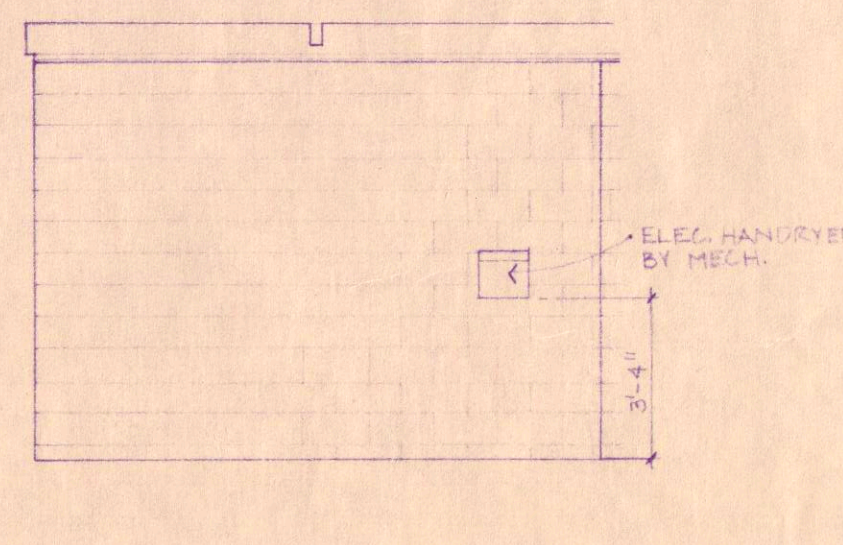
6 INT. ELEV. - RM
1/4" = 1'-0"

7 INT. ELEV. - (WOMEN'S)
1/4" = 1'-0"

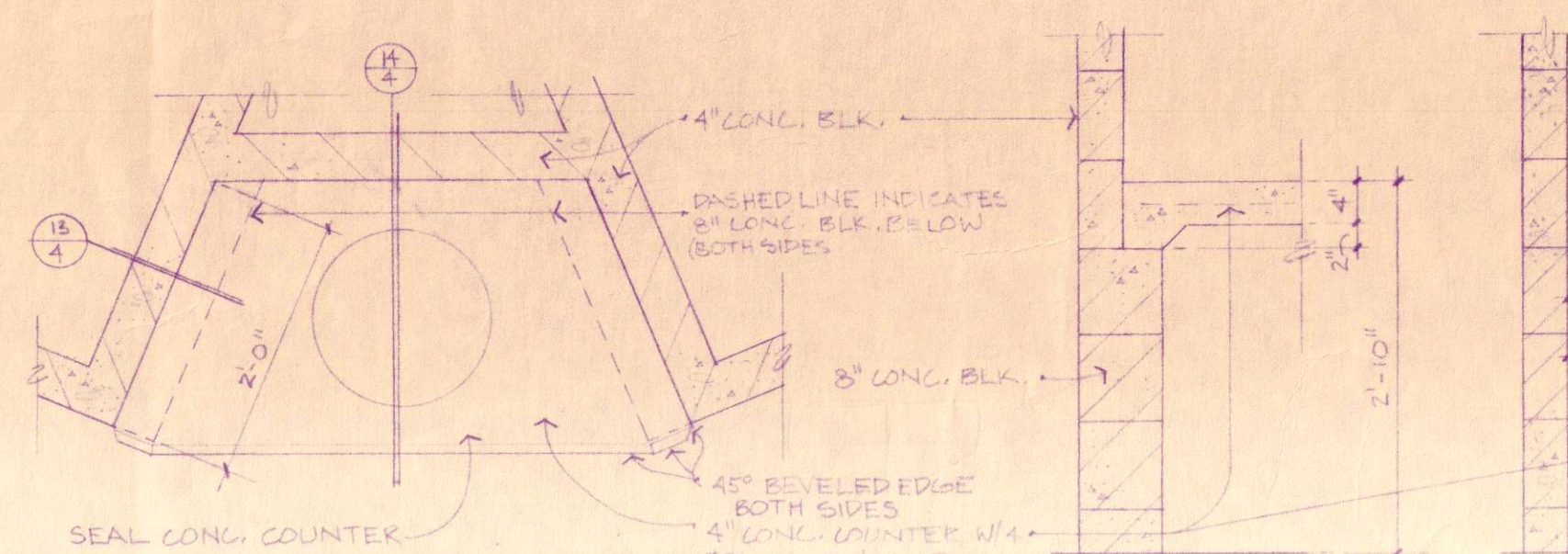


9 INT. ELEV. - RM
1/4" = 1'-0"

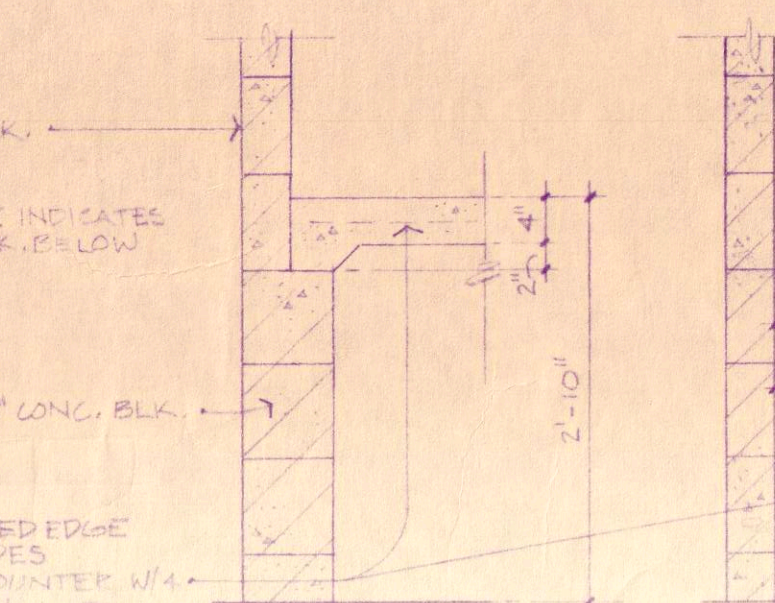
10 INT. ELEV. - (MENS.)
1/4" = 1'-0"



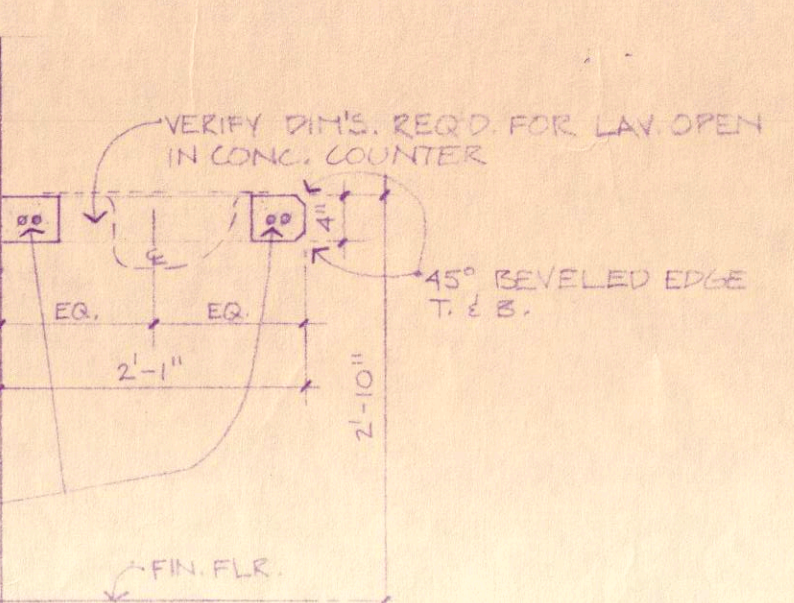
11 INT. ELEV.
1/4" = 1'-0"



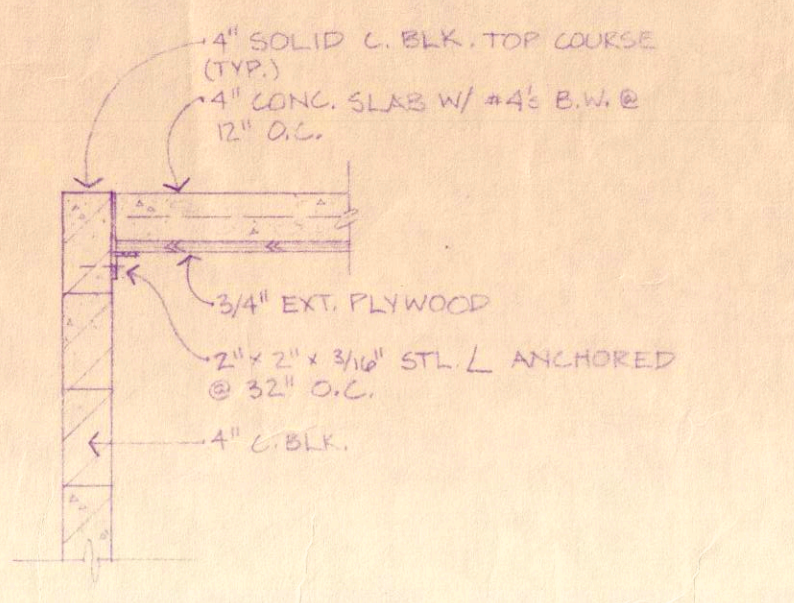
12 LAV. COUNTER PLAN
1/4" = 1'-0"



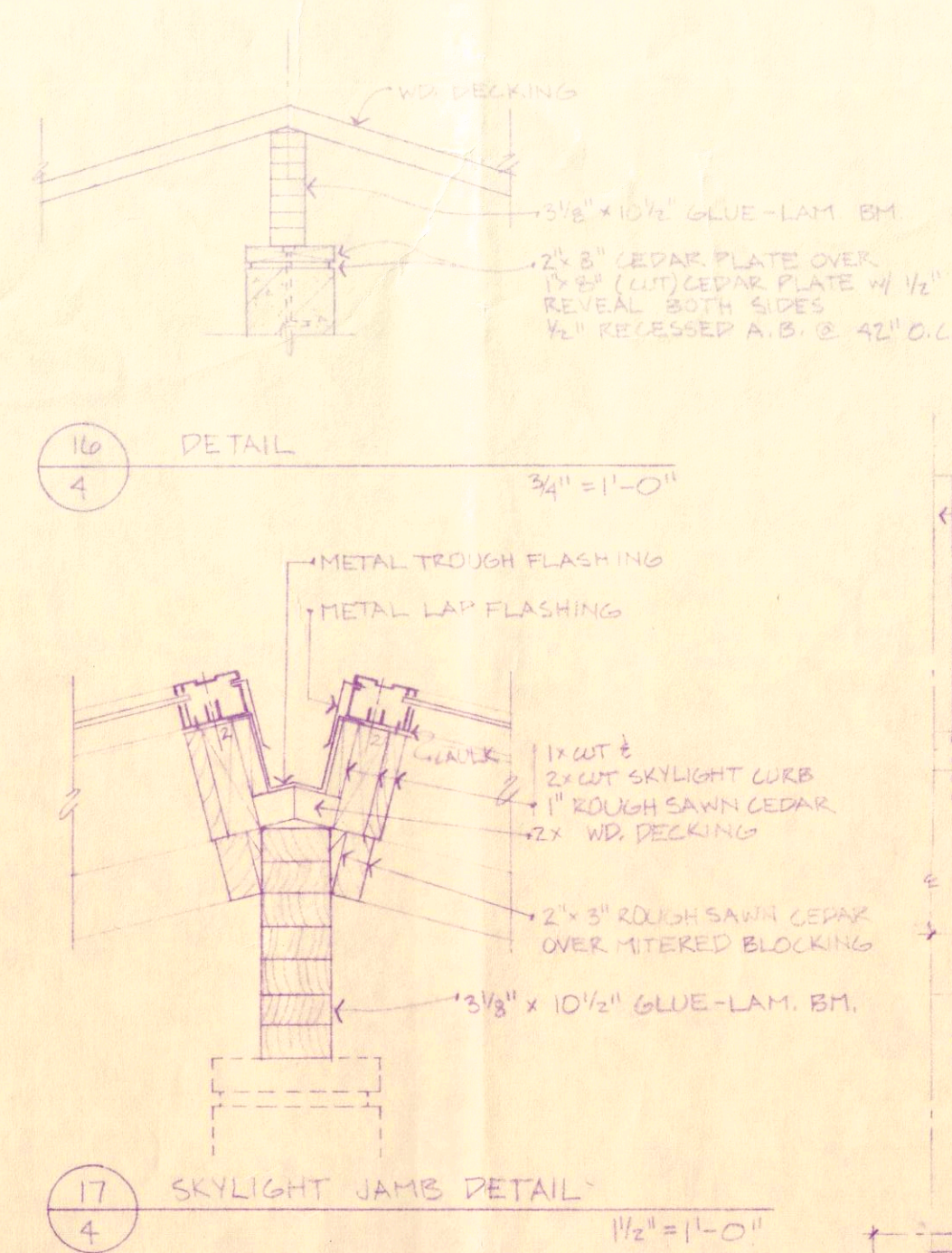
13 LAV. COUNTER DETAIL
1/4" = 1'-0"



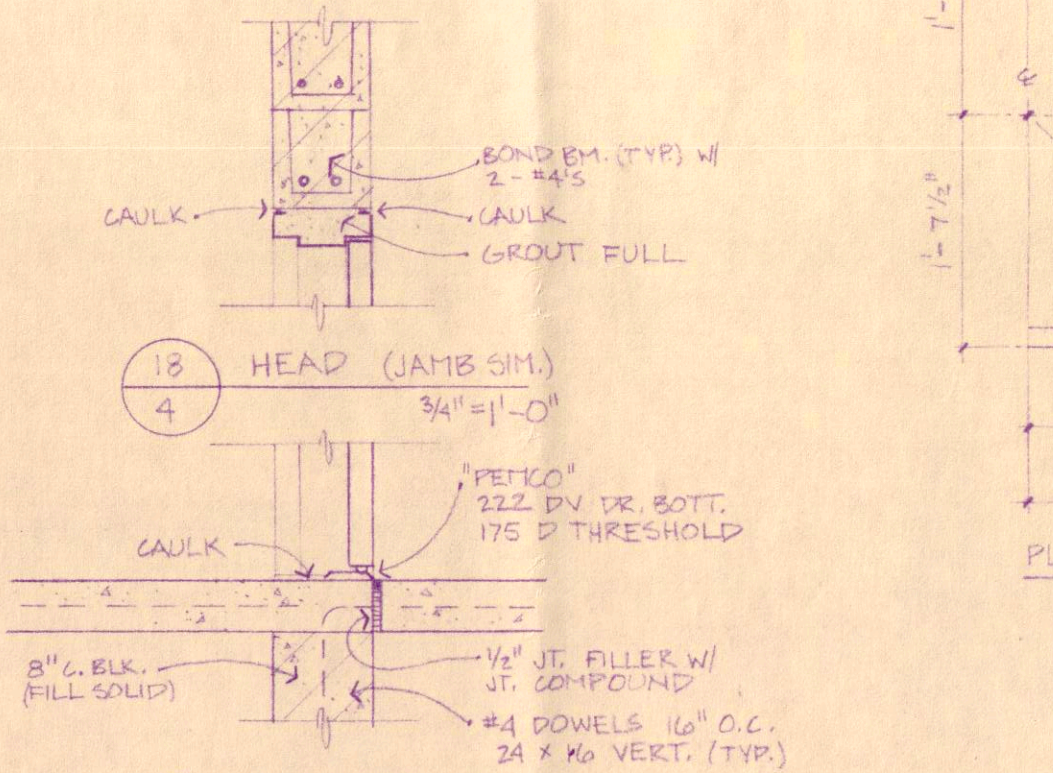
14 LAV. COUNTER DETAIL
1/4" = 1'-0"



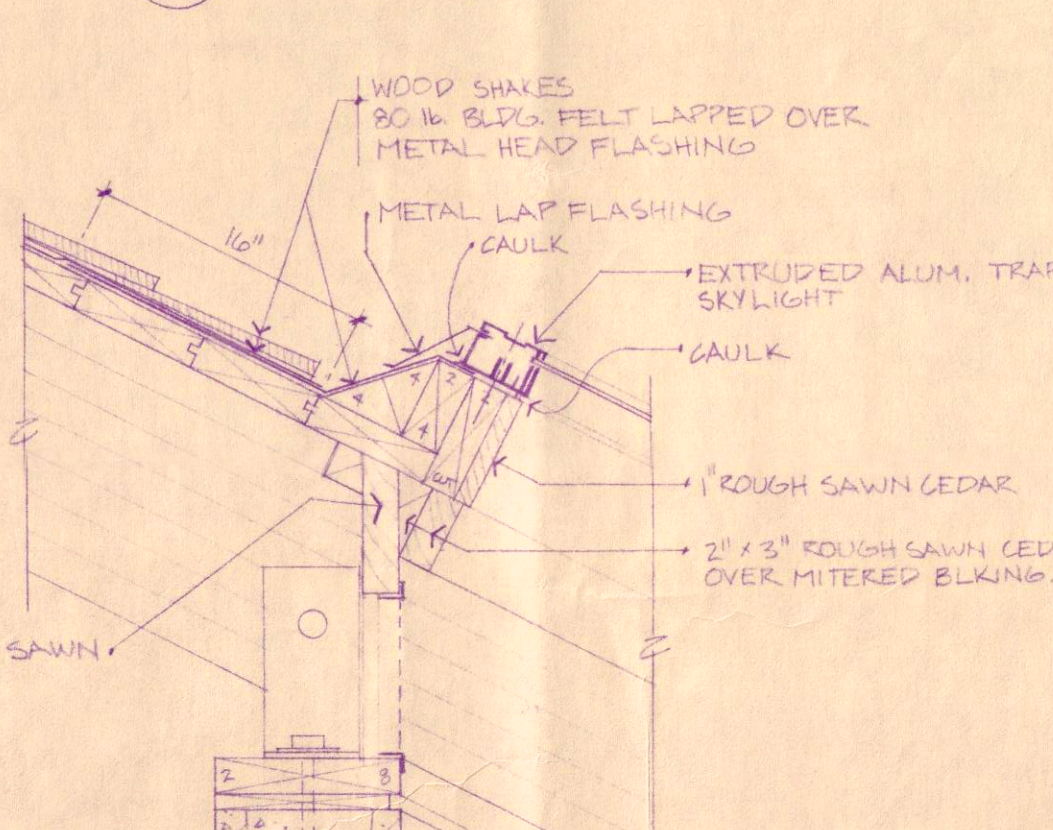
15 DETAIL
1/4" = 1'-0"



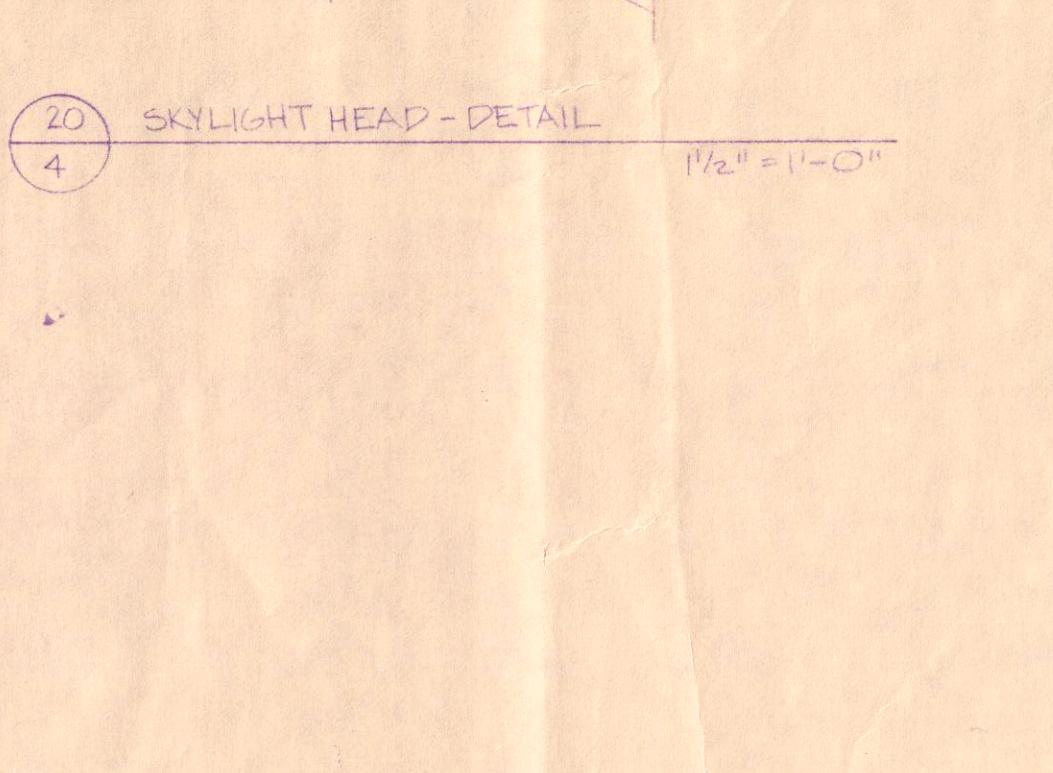
16 DETAIL
1/4" = 1'-0"



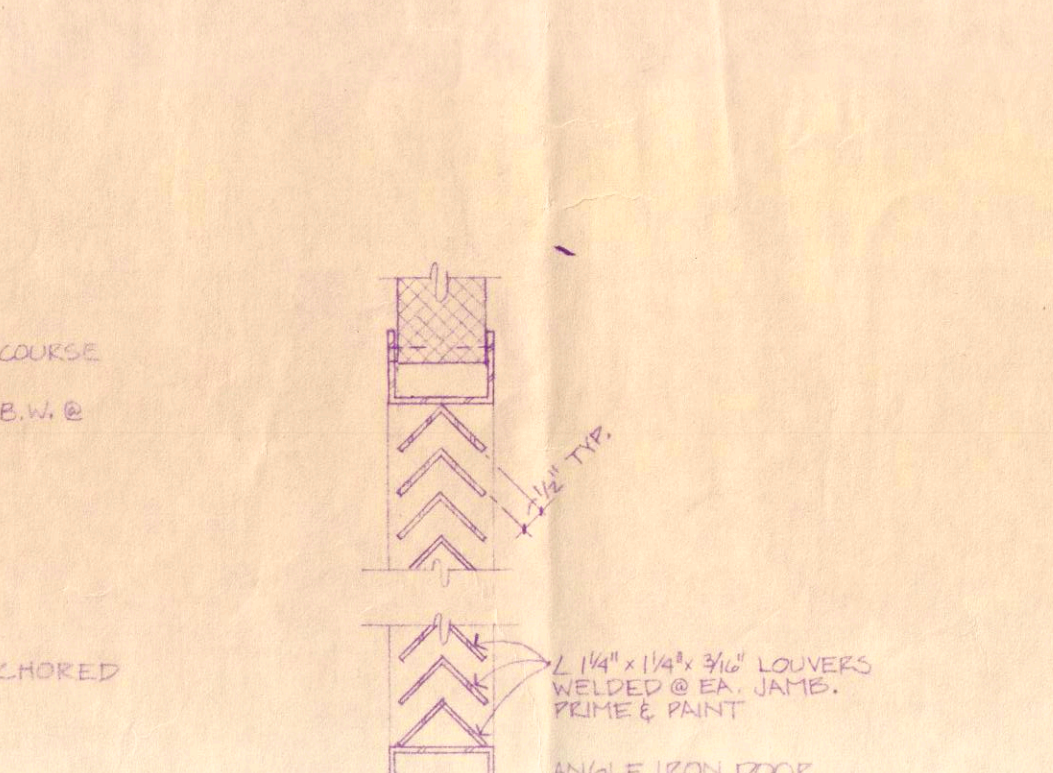
17 SKYLIGHT JAMB DETAIL
1/2" = 1'-0"



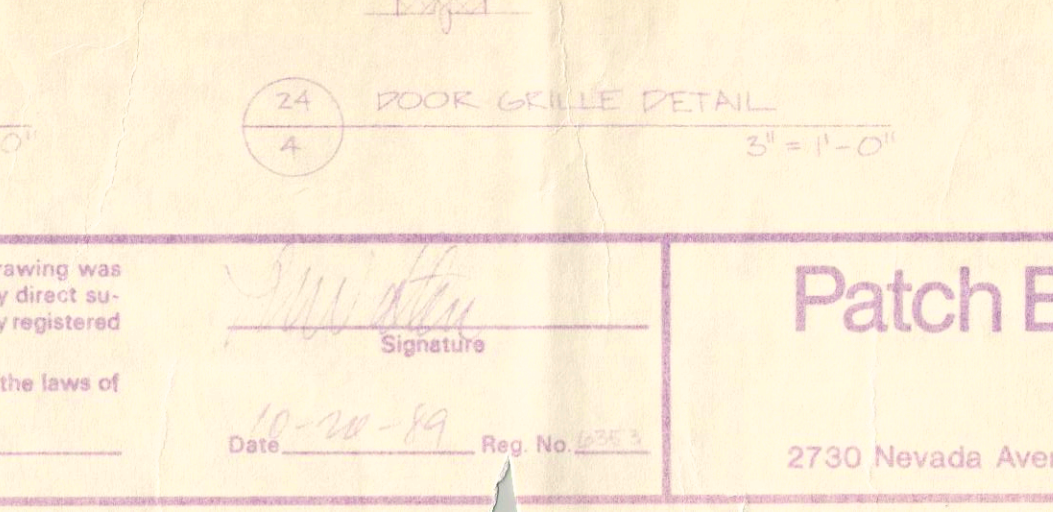
18 HEAD (JAMB SIM.)
1/4" = 1'-0"



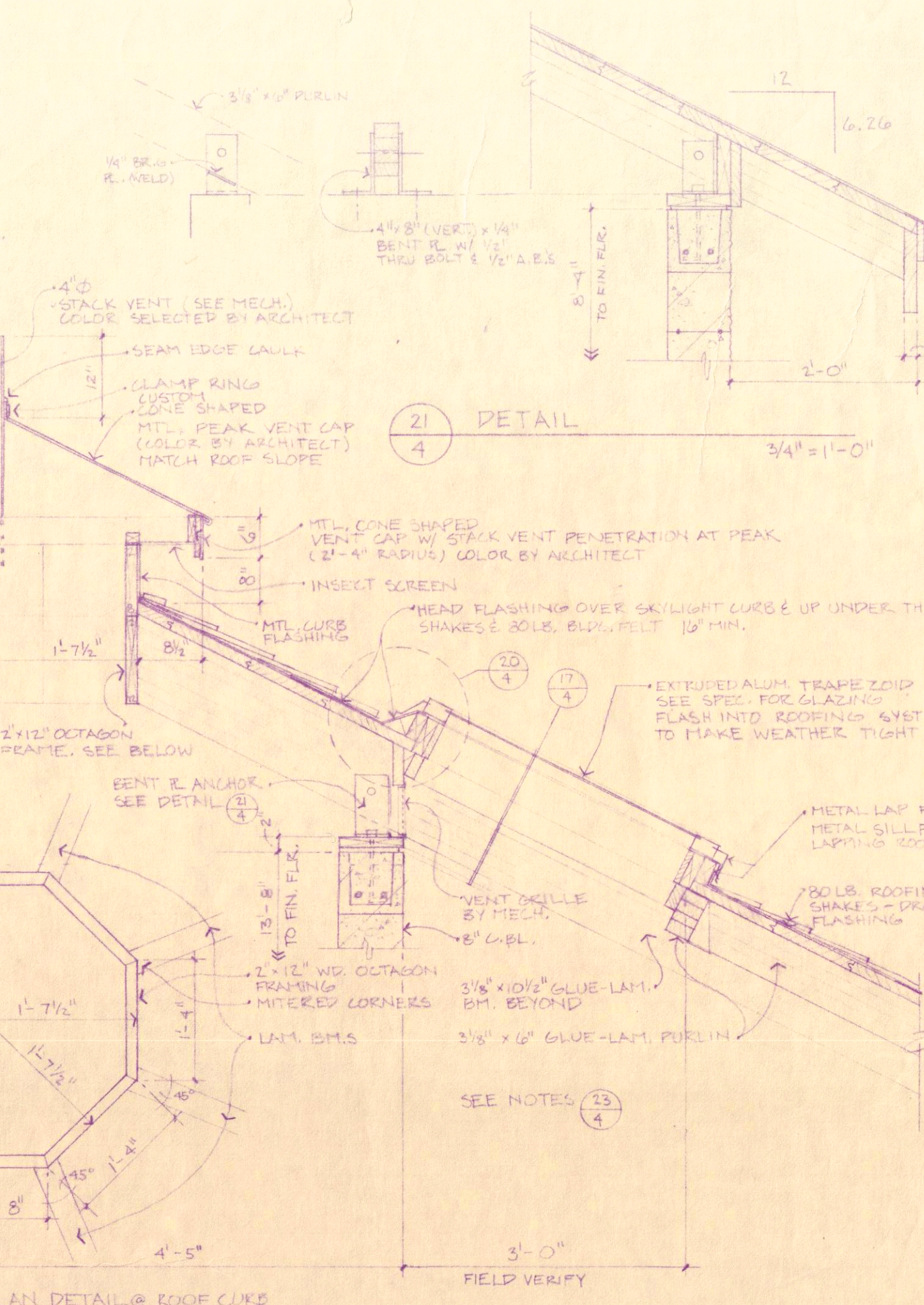
19 DOOR SILL
1/4" = 1'-0"



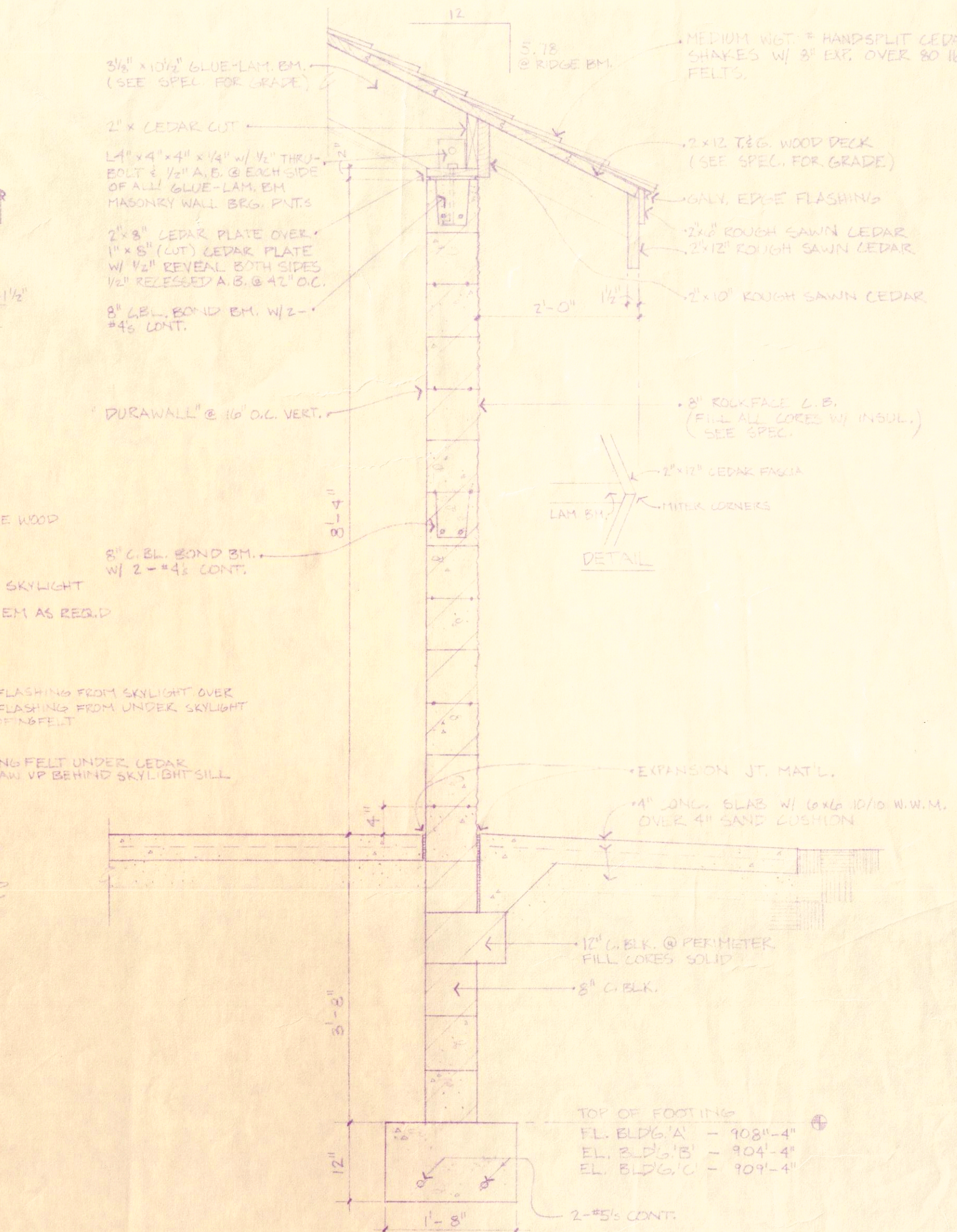
20 SKYLIGHT HEAD - DETAIL
1/2" = 1'-0"



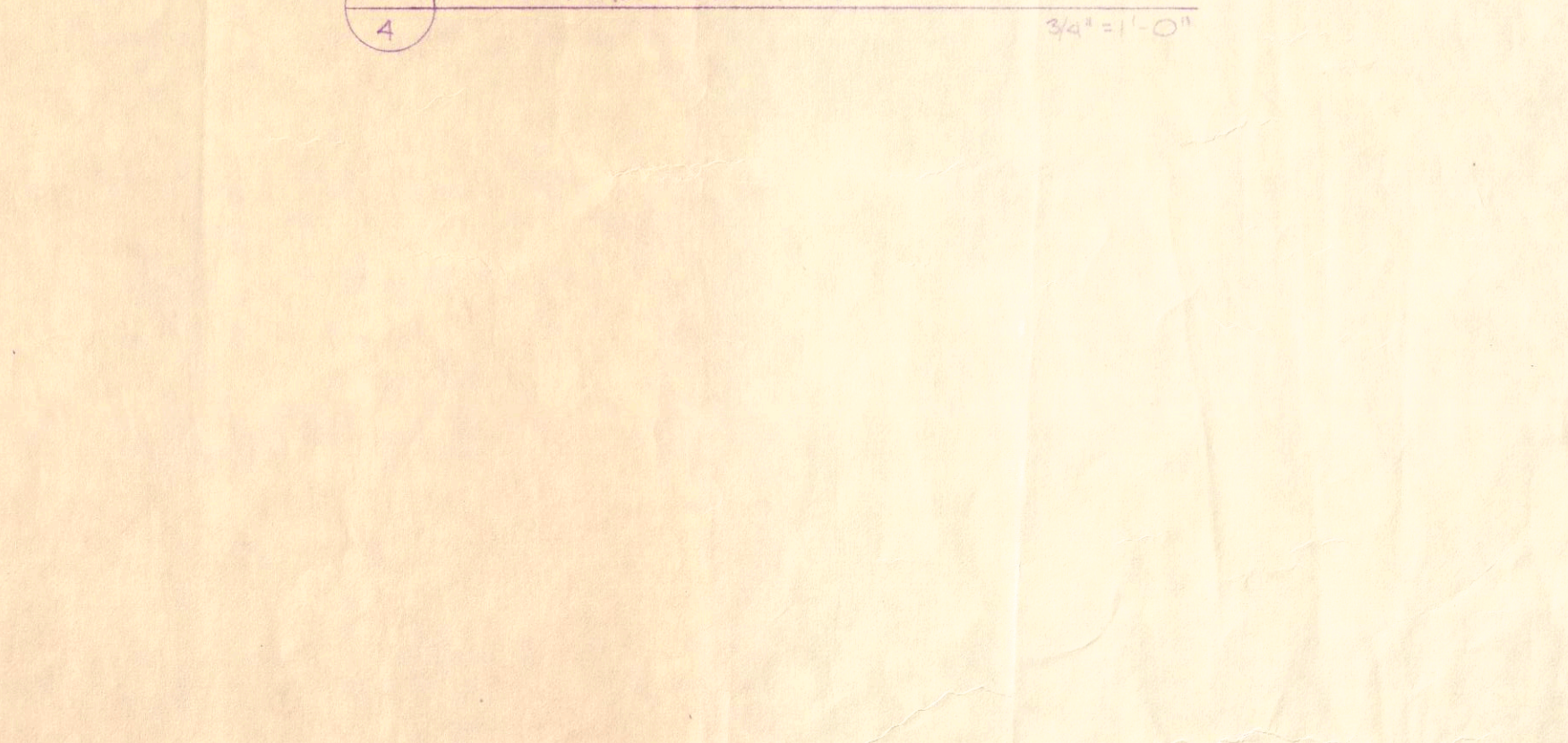
21 DETAIL
1/2" = 1'-0"



22 ROOF VENT / SKYLIGHT DETAIL
3/4" = 1'-0"



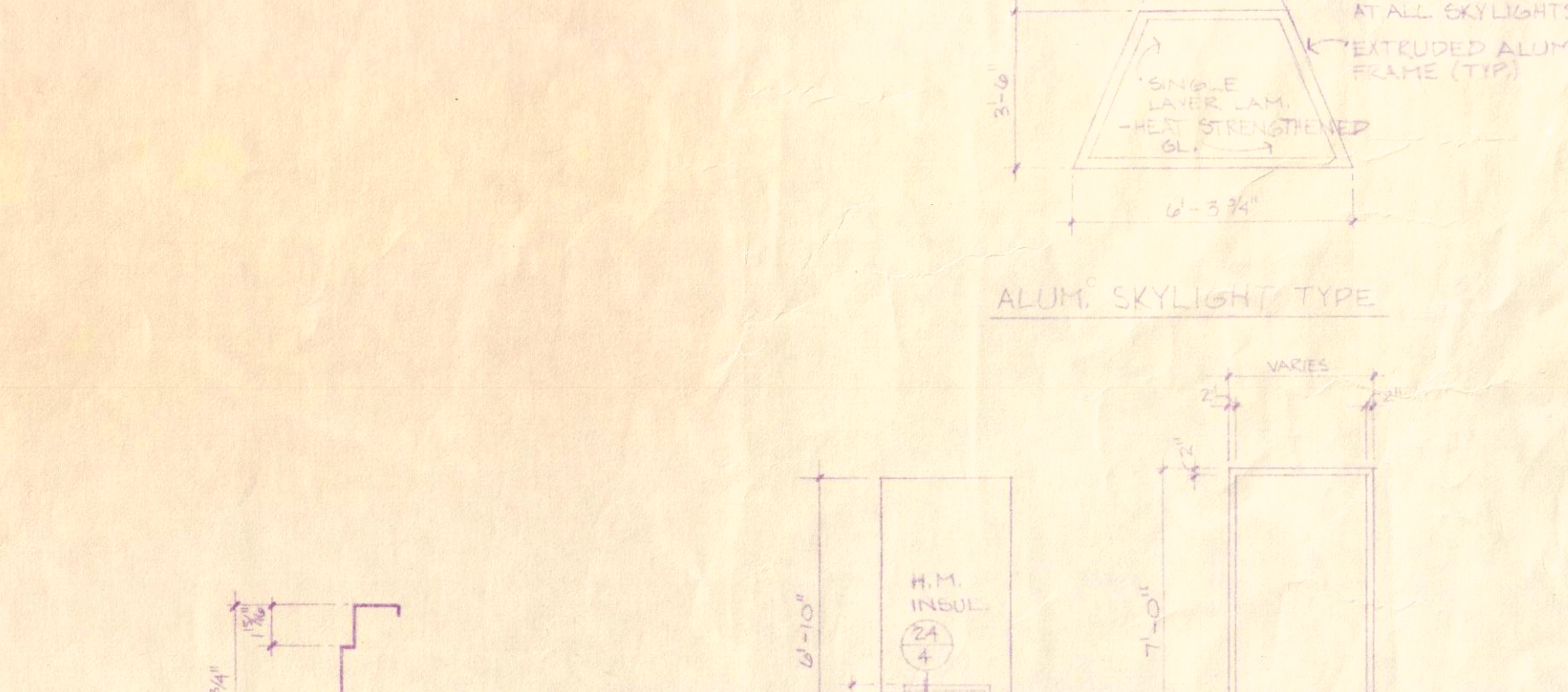
23 TYP. WALL SECTION
1/4" = 1'-0"



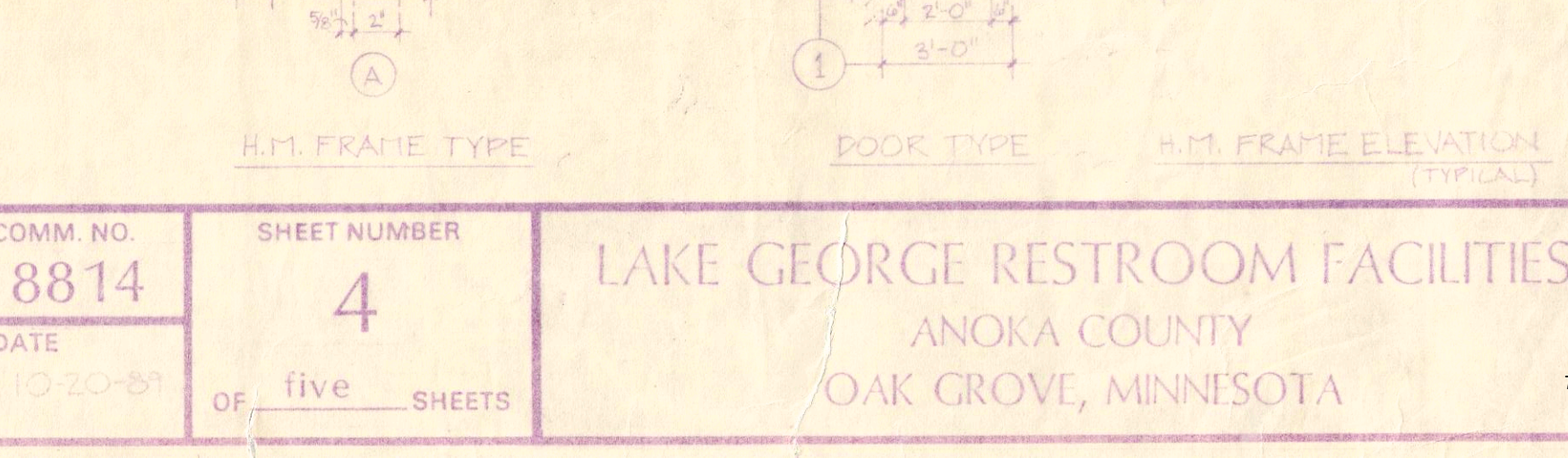
24 DOOR GABLE DETAIL
1/2" = 1'-0"



25 ALUM. SKYLIGHT TYPE
1/2" = 1'-0"



26 H.M. FRAME TYPE
1/2" = 1'-0"



27 BOOK TYPE
1/2" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION
1	10-28-19	REVISED

I hereby certify that this drawing was prepared by me or under my direct supervision and that I am a duly registered ARCHITECT under the laws of the State of MINNESOTA.

Signature
Date 10-28-19 Reg. No. 2063

Patch Erickson Madson Watten, Inc.
Architects and Planners
2730 Nevada Avenue North, Minneapolis, Minnesota 55427 Telephone 612/593-5106

DRAWN BY
CHECKED BY
DATE 10-20-19

COMM. NO. 8814
SHEET NUMBER 4
OF five SHEETS

LAKE GEORGE RESTROOM FACILITIES
ANOKA COUNTY
OAK GROVE, MINNESOTA

SITE A

1. Source of Sewage	Picnic Area
2. Number of Visitors	100 per day (1)
3. Design Flow Basis (Ave.)	10 GPD per visitor
4. System Load	1000 GPD
5. Total Septic Tank Liquid Capacity	2000 gal. (267 cu. ft.) (4)
6. Water Table Elevation	886
7. Percolation Rate	3 MPI
8. Soil Treatment Area Multiplier	1.67 sq. ft./GPD (2)
9. Soil Treatment Area (req'd.)	1340 sq. ft. (3)
10. Trench Width	3 ft.
11. Depth of Rock Below Drainpipe	12 in.
12. Length of Drainfield Trench	500 ft.
13. Trench Spacing	7.5 ft. o.c.
14. Rock Volume	83 cu. yds.
15. Rock Weight	117 tons

- (1) Based on estimates from Anoka County Parks Dept.
 (2) Soil has more than 50 percent of very fine sand by weight.
 (3) Includes 20 percent reduction for 12" of drainfield rock below drainpipe.
 (4) Based on maximum flow of 13 GPD per visitor.

SITE C

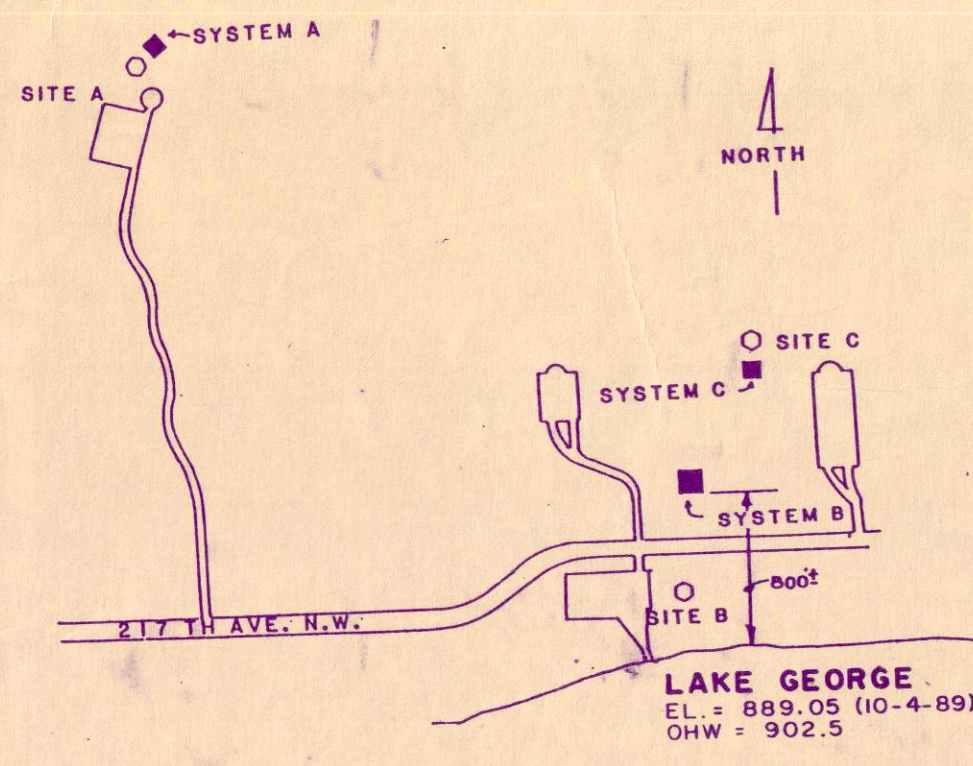
1. Source of Sewage	Picnic Area
2. Number of Visitors	100 visitors per day (1)
3. Design Flow Basis (Ave.)	10 GPD per visitor
4. System Load	1000 GPD
5. Total Septic Tank Liquid Capacity	2000 gal. (267 cu. ft.) (4)
6. Water Table Elevation	None observed
7. Percolation Rate	3 MPI
8. Soil Treatment Area Multiplier	1.67 sq. ft./GPD (2)
9. Soil Treatment Area (req'd.)	1340 sq. ft. (3)
10. Trench Width	3 ft.
11. Depth of Rock Below Drainpipe	12 in.
12. Length of Drainfield Trench	460 ft.
13. Trench Spacing	7.5 ft. o.c.
14. Rock Volume	77 cu. yds.
15. Rock Weight	108 tons

- (1) Based on estimates from Anoka County Parks Dept.
 (2) Soil has more than 50 percent of very fine sand by weight.
 (3) Includes 20 percent reduction for 12" of drainfield rock below drainpipe.
 (4) Based on maximum flow of 13 GPD per visitor.

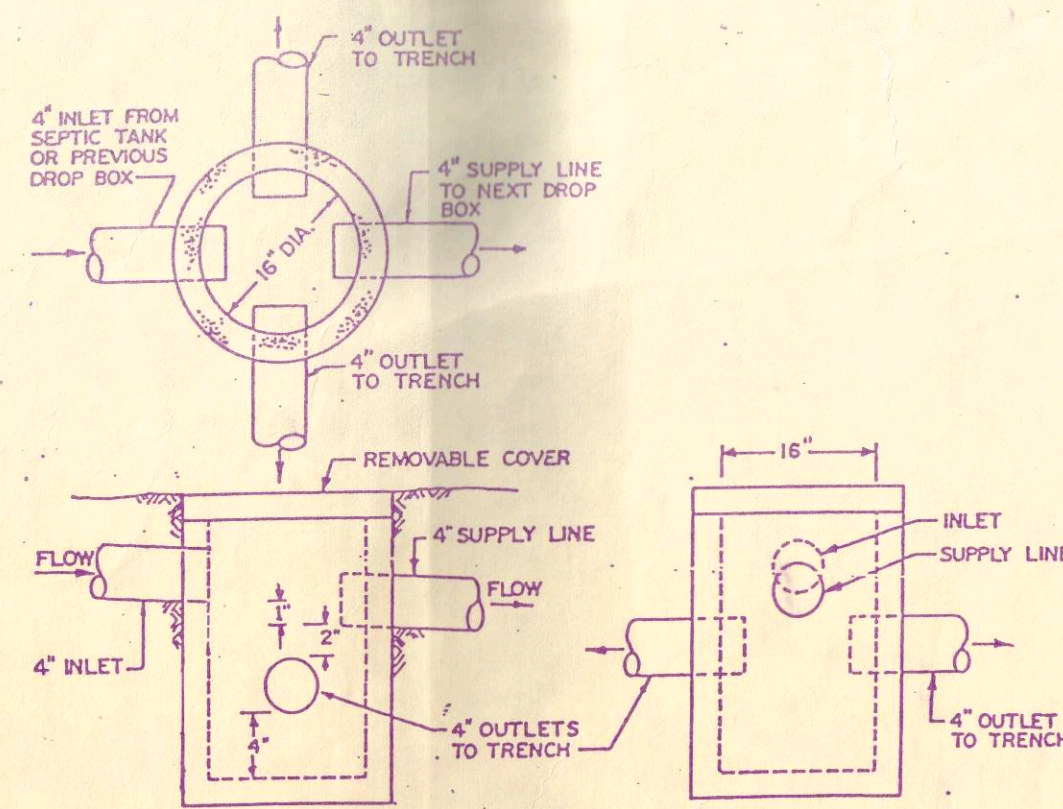
SITE B

1. Source of Sewage	Swimming Beach/Park
2. Number of Visitors	330 per day (1)
3. Design Flow Basis (Ave.)	10 GPD per visitor
4. System Load	3300 GPD
5. Total Septic Tank Liquid Capacity	4500 gal. (602 cu. ft.) (4)
6. Water Table Elevation	None observed
7. Percolation Rate	2 MPI
8. Soil Treatment Area Multiplier	1.67 sq. ft./GPD (2)
9. Soil Treatment Area (req'd.)	4410 sq. ft. (3)
10. Trench Width	3 ft.
11. Depth of Rock Below Drainpipe	12 in.
12. Length of Drainfield Trench	1720 ft.
13. Trench Spacing	7.5 ft. o.c.
14. Rock Volume	287 cu. yds.
15. Rock Weight	401 tons
16. Elevation of Pump (Approx.)	901.6
17. Elevation of Receiving Manhole	911
18. Static Head	9.4 ft.
19. Pumping Rate	35 GPM
20. Friction Head	0.4 ft.
21. Total Head	9.8 ft.
22. Pumpable Capacity	865 gal.
23. Reserve Capacity	150 gal.

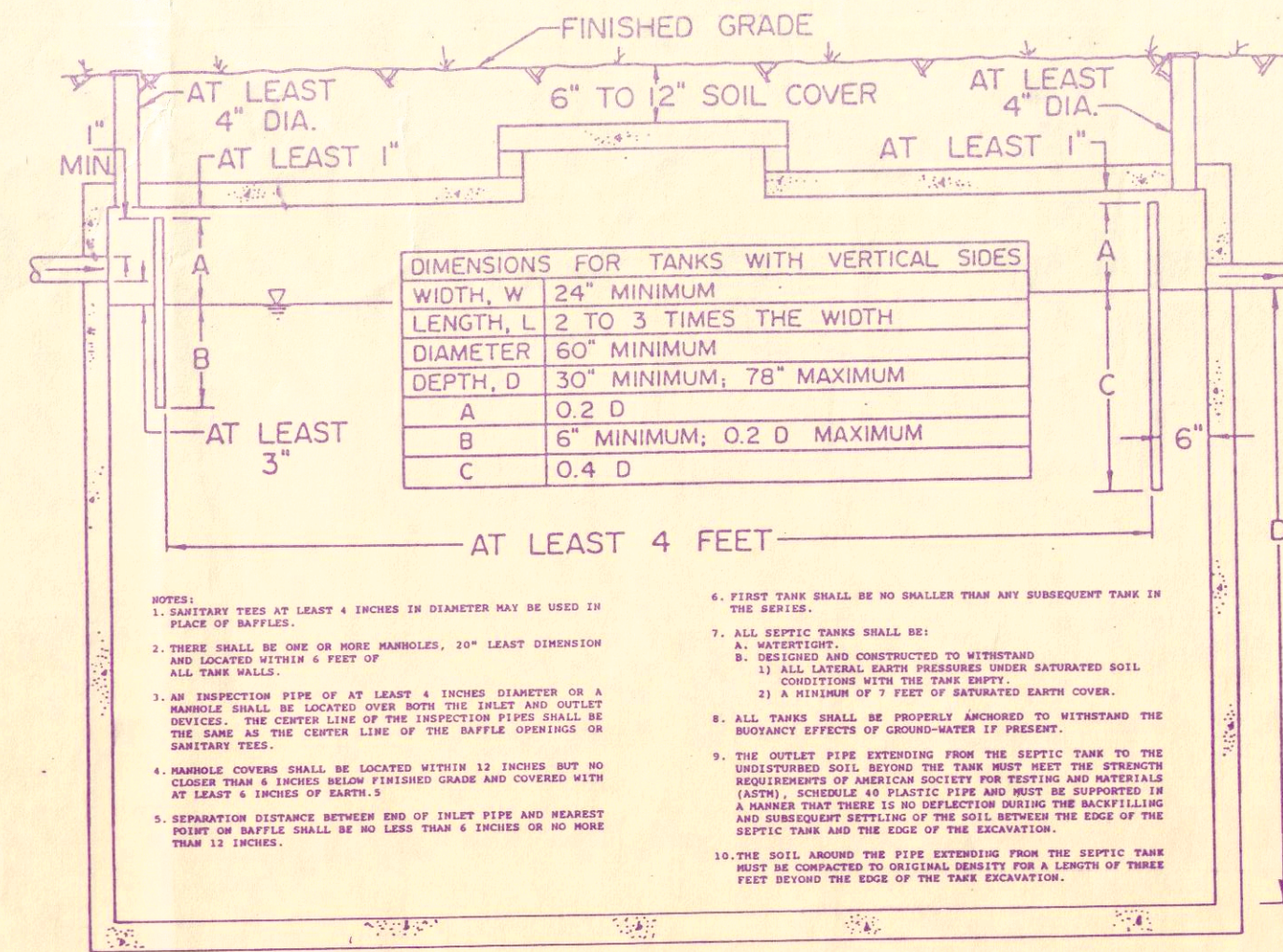
- (1) Based on estimates from Anoka County Parks Dept.
 (2) Soil has more than 50 percent of very fine sand by weight.
 (3) Includes 20 percent reduction for 12" of drainfield rock below drainpipe.
 (4) Based on maximum flow of 13 GPD per visitor.



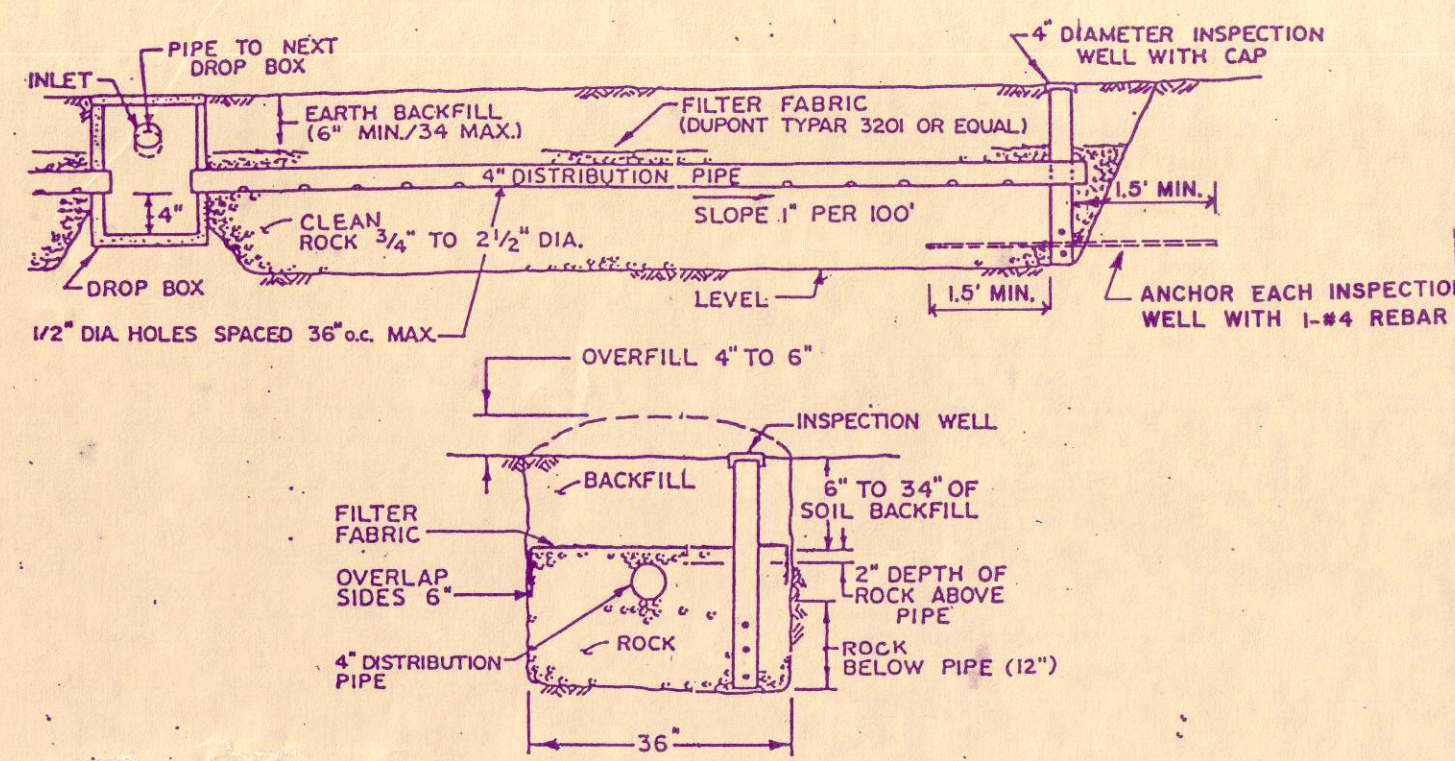
SITE LOCATIONS
NO SCALE



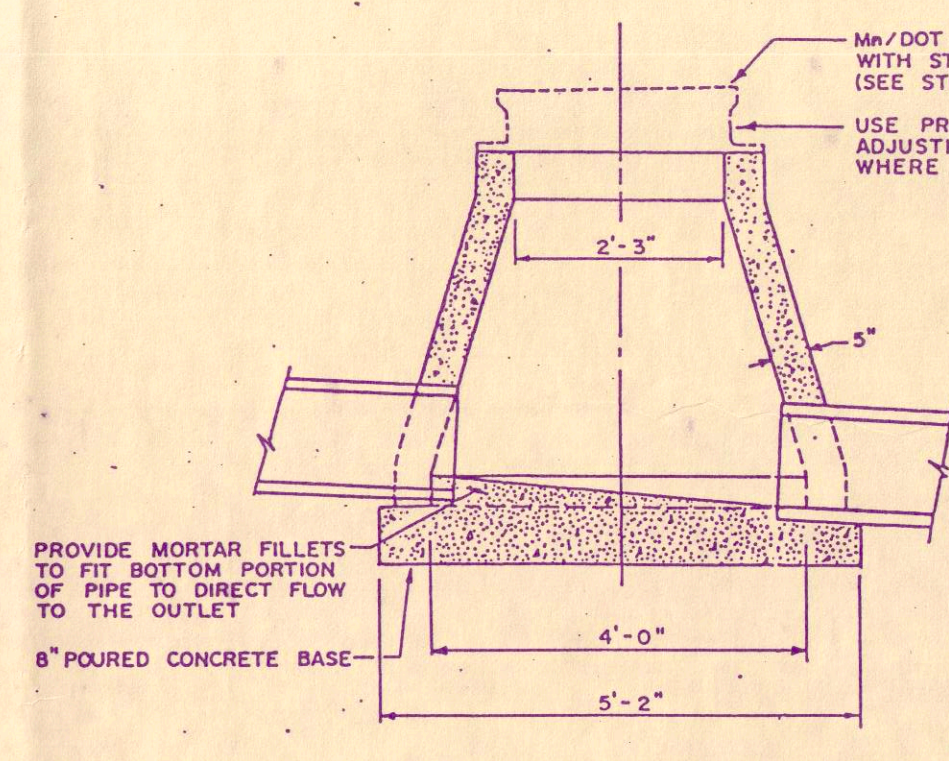
CONCRETE DROP BOX



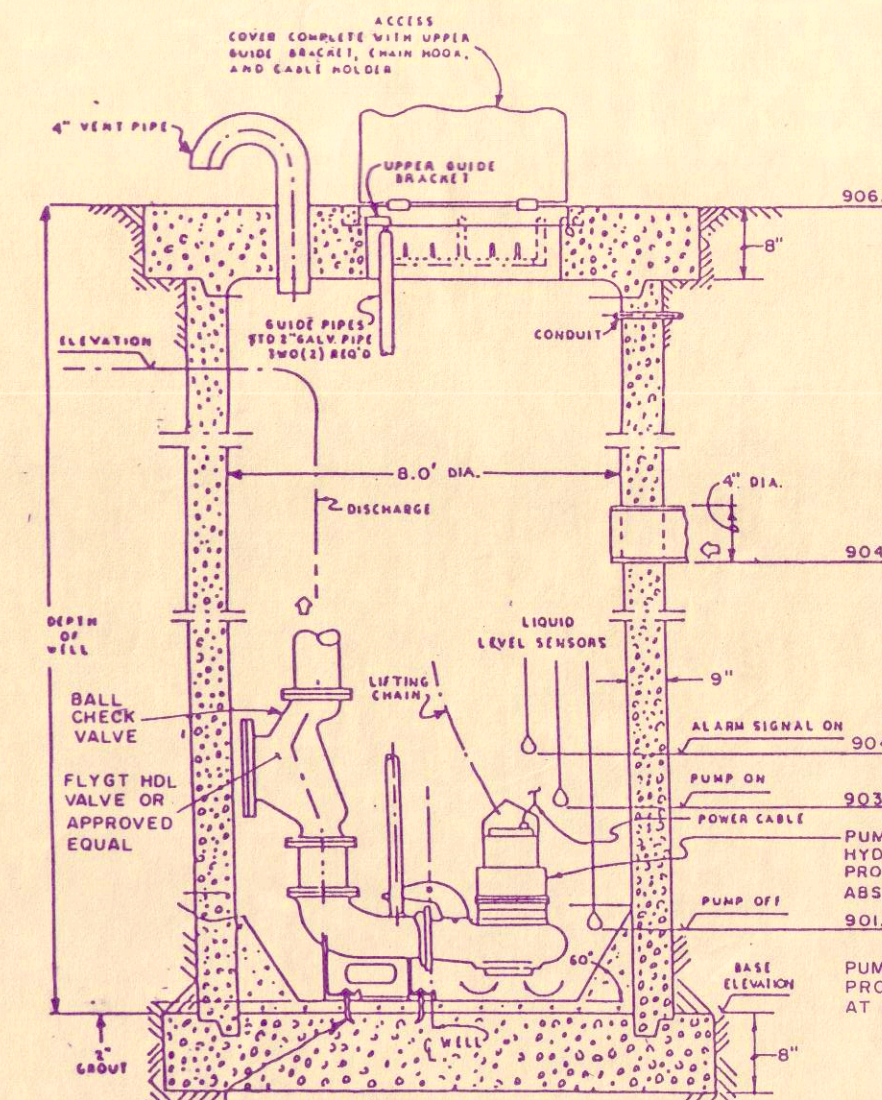
PRECAST SEPTIC TANK



DRAINFIELD TRENCH

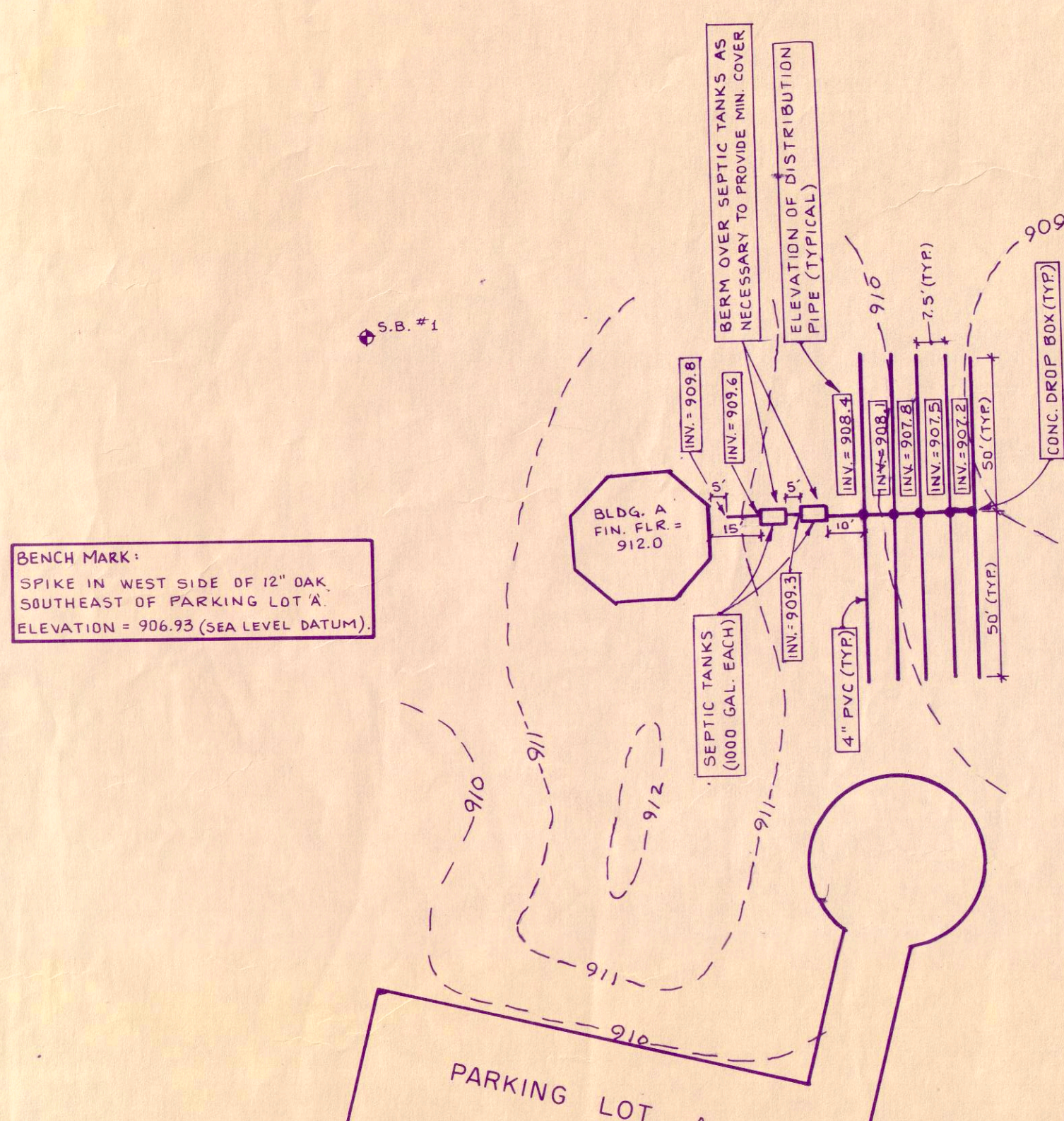


RECEIVING MANHOLE

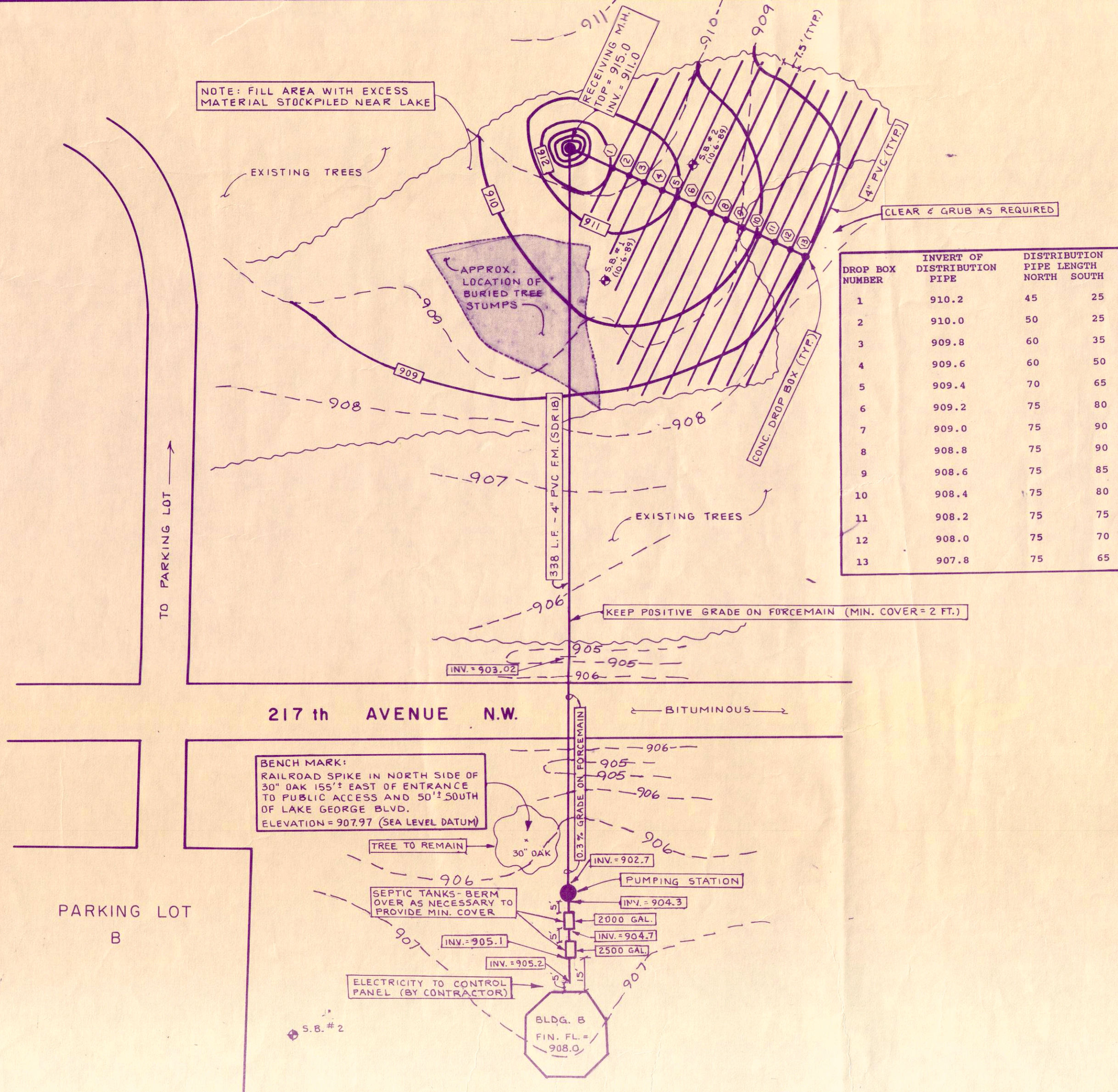


SIMPLE PUMPING STATION

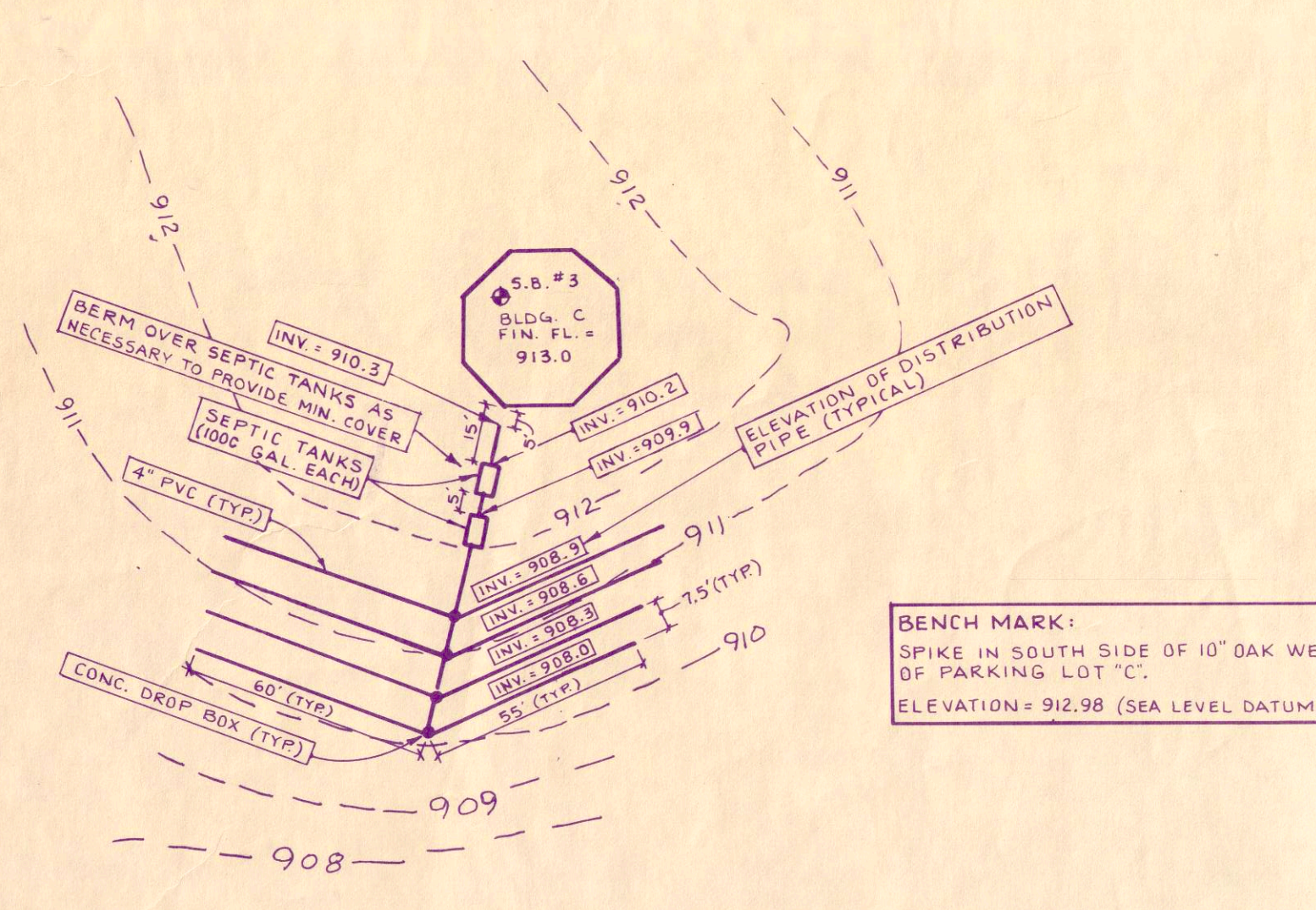
NOTE: ALL TANKS SHALL BE PROPERLY ANCHORED TO WITHSTAND THE BOUANCY EFFECTS OF GROUND-WATER IF PRESENT.



SITE A
SCALE: 1" = 40'



SITE B
SCALE: 1" = 40'

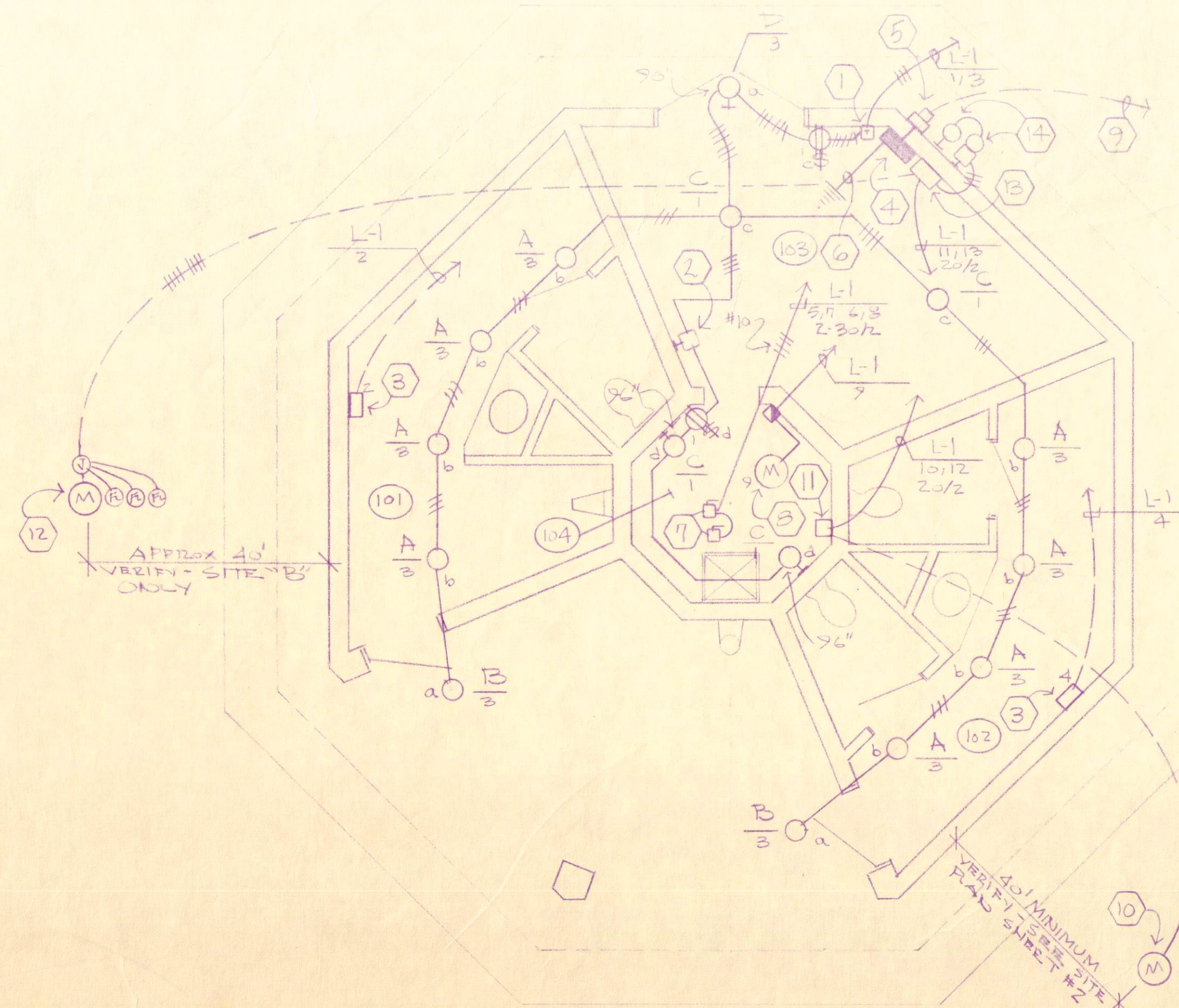


SITE C
SCALE: 1" = 40'

PARKING LOT C

ELEC. NOTES

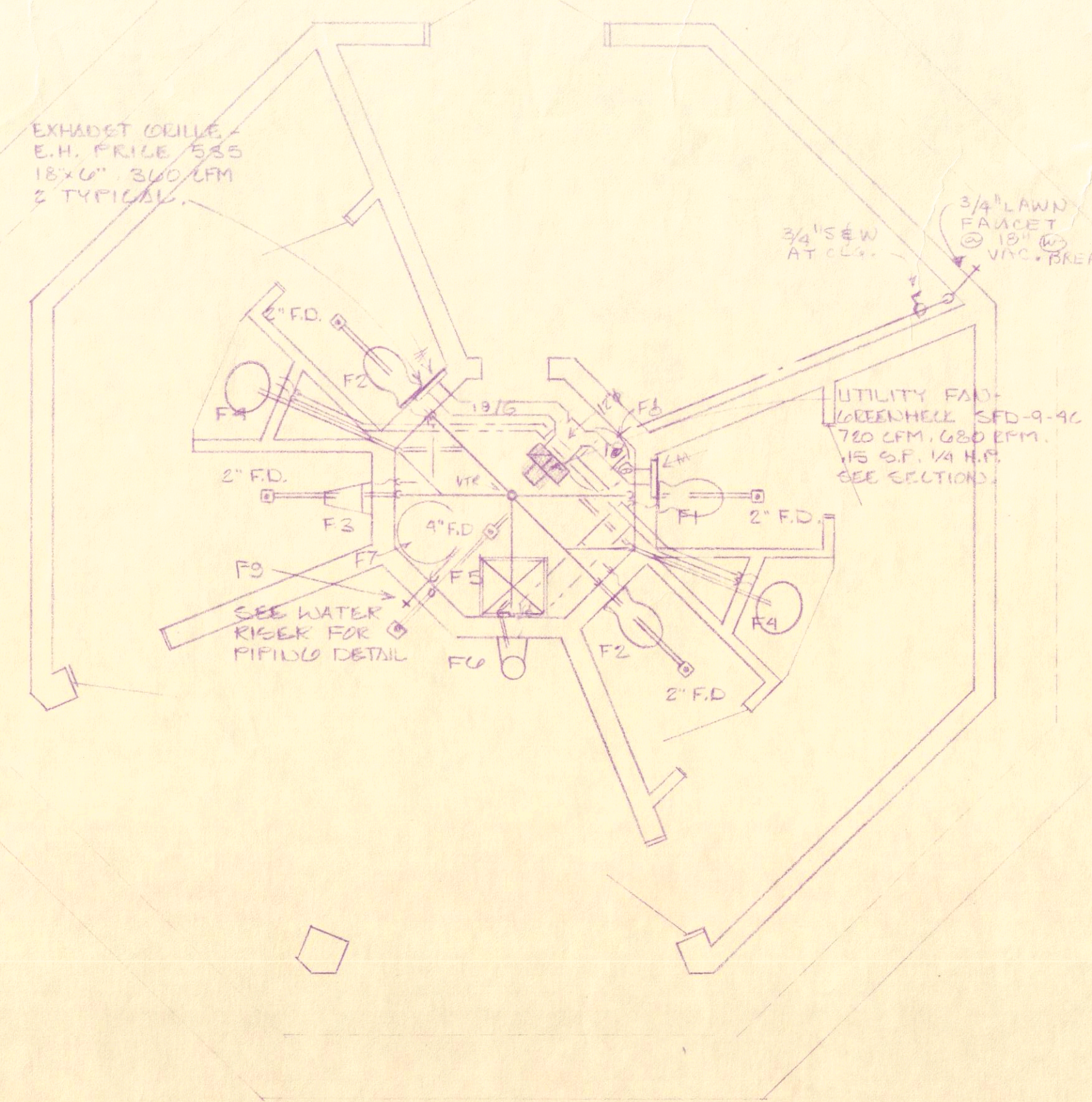
1. TIME SWITCH FOR LIGHTING TOXIC #W-300L, SEE DIAGRAM
2. PHOTO CONTROL TOXIC #2101, INSTALL UNDER SKYLIGHT UP, SEE DIAGRAM
3. ELECTRICAL HAND DRYER, WORK #R-52, RELEASED, 120V.
4. PANEL "L-1" 120/240V, SINGLE PHASE, THREE WIRE, SURGE MOUNTED WITH 100A/2P MAIN CIRCUIT BREAKER, ADD THE FOLLOWING BRANCH CIRCUITS: 8-20/1, 2-20/2, 2-30/2, SPACE ONLY 3-IF
5. ELECTRICAL METER
6. 1/2" - 1#6 SERVICE GROUND
7. CONNECT TO TWO 4500W, 240V WATER HEATERS, PROVIDE DISC. SWITCHES.
8. UTILITY FAN 1/4HP, 120V WITH DAMPER MOTOR, PROVIDE MANUAL MOTOR STARTER WITH PIVOT LIGHT
9. 1/4" - 3#2 THW CU TO CONTRACT LIMIT 100' FROM BUILDING, EXTENSION TO UTILITY POWER SOURCE BY OWNER. COORDINATE WITH OWNER BEFORE INSTALLATION.
10. WELL PUMP 1HP, 240V VERIFY EXACT LOCATION WITH WELL CONTR. PROVIDE ALL REQ. DISCONNECTS.
11. WELL CONTROLS BY WELL CONTR. WIRE ALL COMPONENTS COMPLETE INCLUDING MOTOR, STARTER, LIGHTING, DISTRIBUTION, PRESSURE SWITCH, PROVIDE REQ. DISCONNECT SWITCH
12. SEWAGE PUMP STATION WITH ONE 1/2HP, 230V PUMP AND THREE FLOAT SWITCHES, SITE "B" ONLY.
13. CONTROL POWER FOR SEWAGE PUMP STATION FURNISHED BY OTHERS, SITE "B" ONLY
14. ALARM LIGHT & ALARM BELL, EXACT LOCATION MUST BE VERIFIED, FURNISHED BY OTHERS, SITE "B" ONLY



1 FLOOR PLAN - ELEC.
SCALE: 1/4" = 1'-0" TYPICAL FOR THREE (3) BUILDINGS SITE "A", SITE "B" & SITE "C"

NOTE 3

ROOMS #101 & #102 - RUN WIRING CONCEALED WHERE POSSIBLE, EXPOSED WIRING MUST BE INSTALLED IN VERTICAL RACES #103 & #104 - WIRING MAY BE RUN EXPOSED IN CONDUIT.

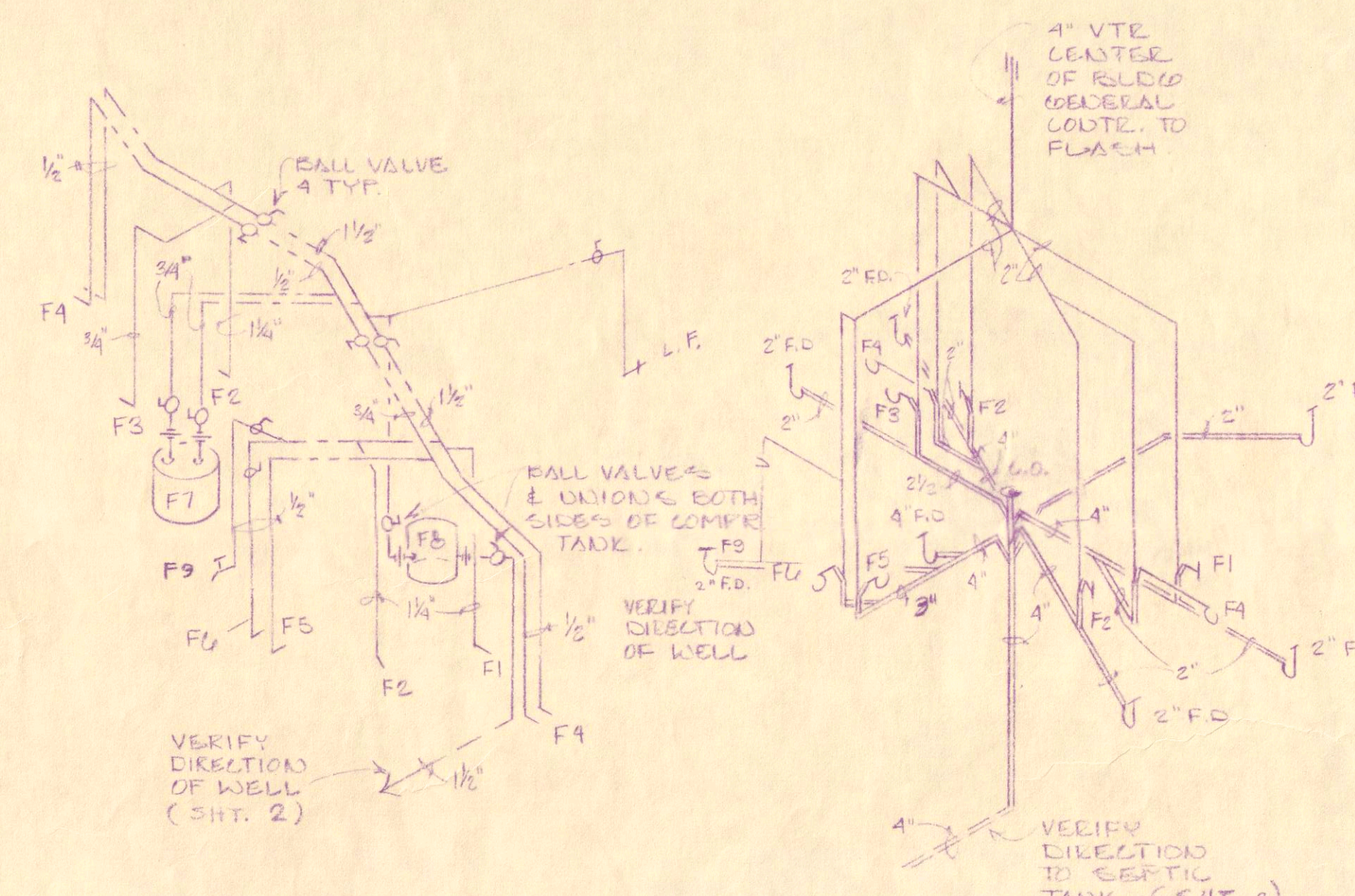


2 FLOOR PLAN - MECH.
SCALE: 1/4" = 1'-0"

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
—S—	SANITARY SEWER	—P—	PRESSURE REDUCING VALVE
—W—	WASTE	—R—	RELIEF VALVE
—C—	CLEANOUT	—E—	ELBOW DOWN
—F—	FLOOR DRAIN	—U—	ELBOW UP
—H—	COLD WATER	—D—	FLOOR DRAIN
—H—	HOT WATER	—T—	TEE UP
—C—	CIRCULATING HOT WATER	—V—	VALVE & VERTICAL
—S—	HOT WATER HEATING SUPPLY	—B—	BASEBOARD RADIATION
—R—	HOT WATER HEATING RETURN	—P—	PIPE GUIDE
—V—	VENT	—A—	PIPE ANCHOR
—F—	FIRE	—E—	EXPANSION JOINT
—O—	OIL	—U—	UNION
—C—	COLD WATER SUPPLY	—S—	SUPPLY DUCT UP
—C—	CHILLED WATER SUPPLY	—S—	SUPPLY DUCT DOWN
—C—	CHILLED WATER RETURN	—S—	EXIST. STEAM TO BE REMOVED
—G—	GLYCOL RETURN	—C—	CONDENSATE
—V—	VENT	—C—	HIGH CONDENSATE
—A—	AIR VENT	—C—	EXISTING CONDENSATE
—F—	FIRE	—C—	PRESSURE GAUGE
—O—	OIL	—C—	AUTOMATIC CONTROL VALVE
—V—	VACUUM	—C—	GATE VALVE
—F—	FUEL OIL SUPPLY	—C—	BALANCING COCK
—F—	FUEL OIL RETURN	—C—	CHECK VALVE
—G—	INTERRUPTIBLE GAS	—C—	REDUCER
—G—	FIRM GAS	—C—	STRAINER
—G—	EXISTING STEAM	—C—	CIRCUIT SETTER
—C—	EXIST. CONDENSATE TO BE REMOVED	—C—	BALL VALVE
—C—	PUMP CONDENSATE TO BE REMOVED		
—C—	THERMOSTAT		

1. ALL SOIL, WASTE & STORM PIPING SHALL BE RUN BELOW FLOOR OF PLAN ON WHICH IT IS SHOWN UNLESS OTHERWISE NOTED.
2. ALL WATER, VENT & OTHER SERVICE PIPES SHALL BE RUN NEAR CEILING EXPOSED OR CONCEALED IN A SUFFICIENT CEILING OF PLAN ON WHICH IT IS SHOWN UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FIXTURES & EQUIPMENT.
4. NUMBERS NEAR FIXTURES REFER TO ITEM NUMBERS IN THE SPECIFICATIONS &/OR SCHEDULES.
5. DUCT SIZE SHOWN REFER TO INSIDE CLEAR DIMENSION. INCREASE SHEET METAL SIZES AS REQUIRED IN ACCORDANCE WITH INSULATION THICKNESS LISTED IN THE SPECIFICATIONS.
6. DIMENSIONS NEAR BASEBOARD REFERS TO ACTUAL FINISHED LENGTH.
7. REFER TO ARCHITECTURAL PLANS & EQUIPMENT SCHEDULES FOR FIXTURES & EQUIPMENT.
8. DIMENSIONS BETWEEN SEWER LINES & GRID ROWS INDICATE DISTANCE REQ'D. TO PREVENT UNDERMINING FOOTINGS. IN ALL CASES, ALL BELOW FLOOR PIPING SHALL BE INSTALLED AT A LOCATION AS REQ'D TO ALLOW MINIMUM OF 1:1 SLOPE TO ANY COLUMN PAD OR FOOTING.

GR.	GRILLE
REG.	REGISTER
EXH.	EXHAUST
EXIST.	EXISTING
CEG.	CEILING
FLO.	FLOOR
RE.	ROOF
SUP.	SUPPLY
RET.	RETURN
L.F.	LAUN FACET
VR.	VENT VENT ROOF
R.D.	RAIN DRAIN

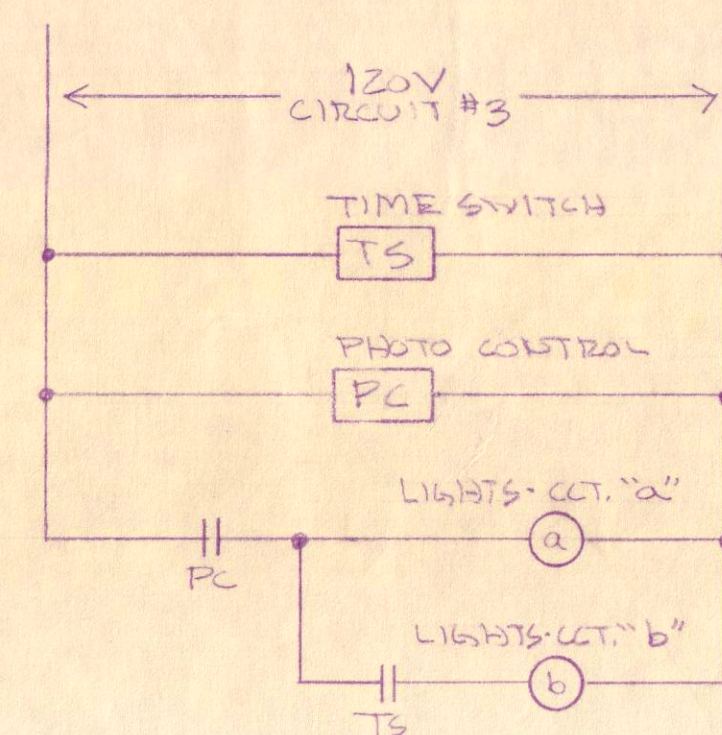


3 WATER RISER SCALE: NONE
4 WASTE & VENT RISER SCALE: NONE

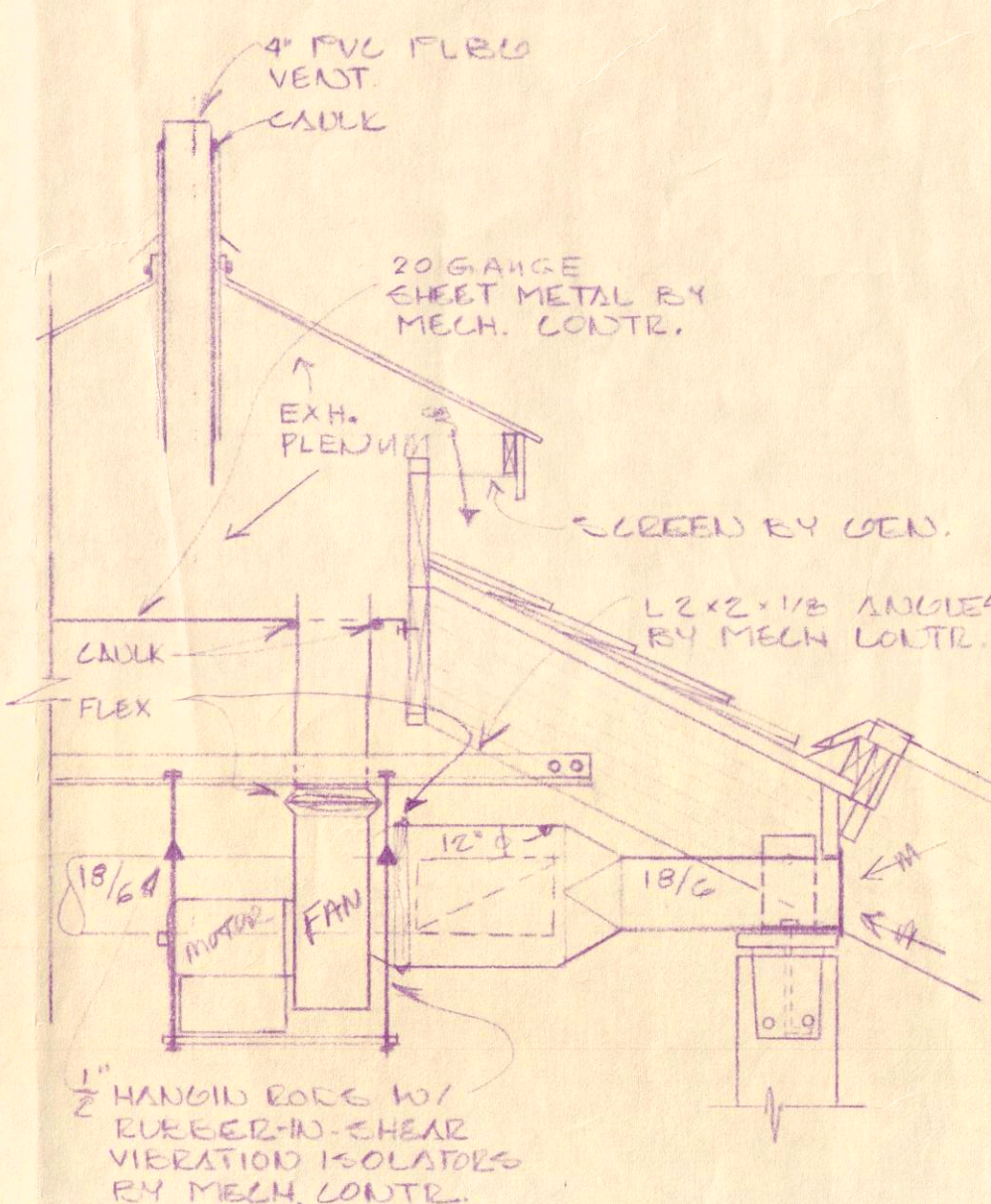
NO.	DESCRIPTION	W.	V.	W.H.	W.H.T.	REMARKS
F1	WATER CLOSET	4"	2"	1/4"	15"	
F2	WATER CLOSET - HENCK	4"	2"	1/4"	15"	
F3	URINAL	3"	2"	5/8"	15"	
F4	WASHB.	2"	1 1/2"	1/2"	52"	COUNTER BY OTHERS.
F5	SHOWER RECEPT	3"	1 1/2"	1/2"	52"	FLR VALVE 2 1/2"
F6	SHOWER FOUNTAIN	1 1/4"	1 1/4"	1/2"	30"	
F7	HOT WATER HEATER			3/4"	3/4"	
F8	COMPRESSED TANK			1 1/2"		
F9	POT FILLER	2"	1 1/2"	1/2"	30"	

NO.	MF.	MODEL	MEG	MODEL	ALLES/DEFS
F1	ALCOID	2100	ALCOID	2224-10	VANDAL PROOF
F2	ALCOID	2100	ALCOID	2224-10	W/ SHAIR CAULIS
F3	ALCOID	2100	ALCOID	2224-10	VANDAL PROOF
F4	ELKAY	FELV-191708	CHILDA	6024-ES-2	LAST EDGE 1/2" FLEX TO WALL
F5	FIAT	MGE-2424	CHILDA	227	ORIGINAL 2" FLEX VALVE & FILL
F6	ALCOID	1070-1			VANDAL PROOF
F7	A.O. SMITH	(2) 4500	ESATT	240	2 1/2" 1/2"
F8	WOLFE-TOL.	WY-550	ESATT	30"	30" 3/4" 1000 GPH
F9			CHILDA	324-P-B	POLISHED CHROME VANDAL PROOF

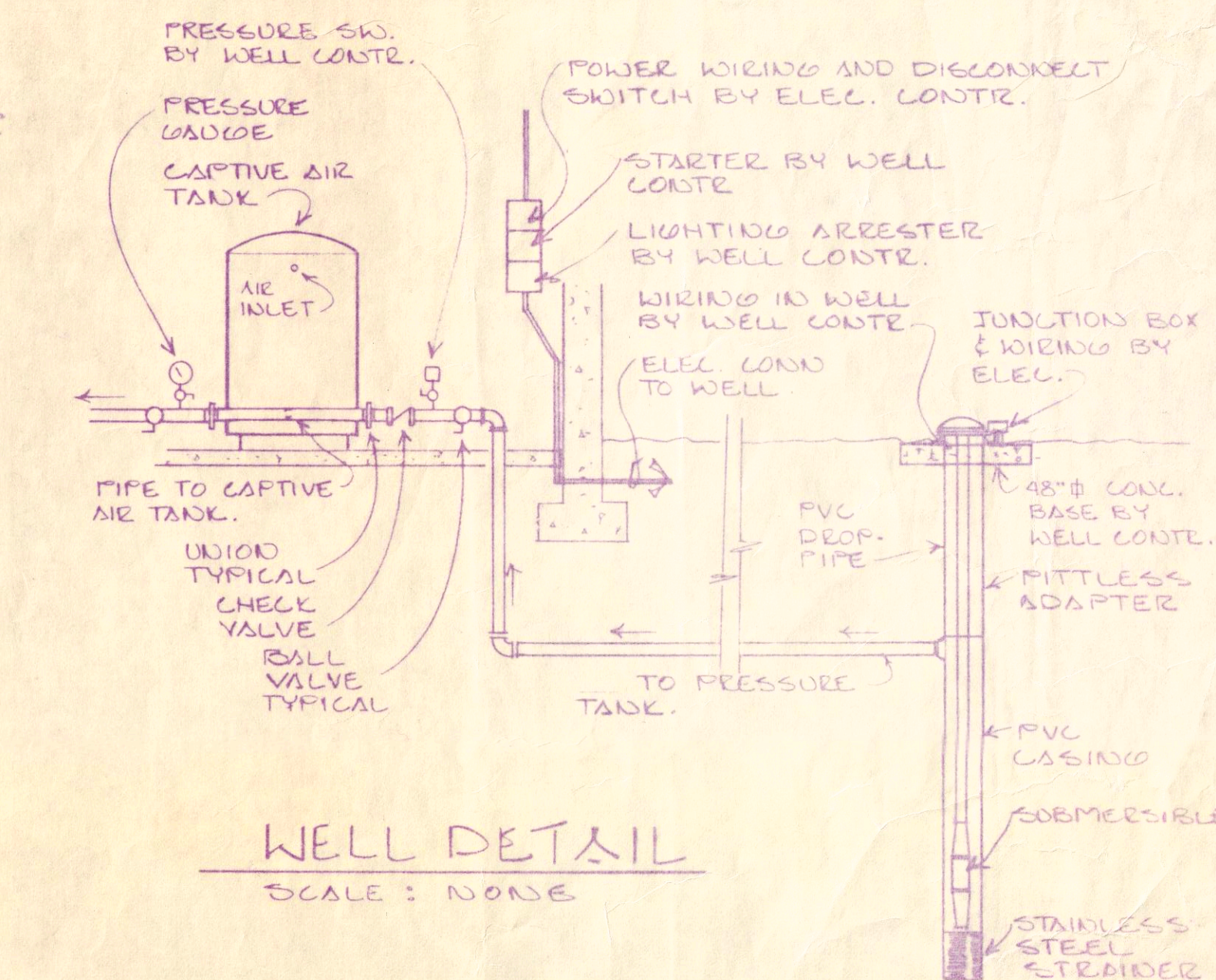
TYPE	DESCRIPTION	VOLTAGE	LAMP	DIFFUSER	LOCATION	WAFER # CAT. NO.	NOTES
A	VANDAL RESISTANT SURFACE H.I.D.	120	1-100W MV DEUXE WHITE	DEACTYLIC PRISMATIC	CEILING	LITROBIA #404-100H KEDALL #5705	
B	VANDAL RESISTANT SURFACE H.I.D.	120	1-10W H.P.S.	PRISMATIC	CEILING	LITROBIA #404-705 KEDALL #5755	
C	KEYLESS PORCELAIN LAMP HOLDER	120	1-100W A	NONE	CEILING WALL	PAULSON #1625	
D	VANDAL RESISTANT SURFACE H.I.D.	120	1-10W H.P.S.	PRISMATIC	WALL	LITROBIA #204-705R KEDALL #6020-HFF	



LIGHTING CONTROL



5 SECTION & UTILITY FAN.
SCALE: NONE



NOTE: ONE BLOCK OFF 3' ABOVE SHOWN ONE WELL OF 3' ABOVE SHOWN SEE ARCHITECTURAL SITE PLAN FOR LOCATION OF SEPTIC SYSTEM BY OTHERS

REVISIONS



EMANUELSON-PODAS, INC.
CONSULTING ENGINEERS
9507 18TH AVENUE SOUTH
MINNEAPOLIS, MINN. 55423

I hereby certify that this drawing was prepared by me or under my direct supervision and that I am a duly registered ENGINEER under the laws of the State of MINNESOTA.

Signature
Date 10/31/89 Reg. No. 515

Patch Erickson Madson Watten, Inc.
Architects and Planners
2730 Nevada Avenue North, Minneapolis, Minnesota 55427 Telephone 612/593-5108

DRAWN BY
MAW/

COMM. NO.
#1357

SHEET NUMBER
MEI

LAKE GEORGE RESTROOM FACILITIES
ANOKA COUNTY
OAK GROVE, MINNESOTA

FORMICA® SOLID SURFACING



FABRICATIONS 3-PART TECHNICAL SPECIFICATION

SECTION 06610 (06 61 16)

PART 1 — GENERAL

1.1 SUMMARY

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

B. SECTION INCLUDES:

1. Solid Surfacing Fabrications for [tabletops] [countertops] [vanities] [with integral bowls] [shower surrounds] [tub surrounds] [wall cladding] [wainscoting] [handrails] [windowsills] [toilet partitions] as indicated, including trim and material needed for a complete installation.

1.2 RELATED WORK

A. WORK OF THIS SECTION IS RELATED TO WORK SPECIFIED IN THE FOLLOWING SECTIONS:

1. Section 06200 (06 20 23) - "Interior Finish Carpentry."
2. Section 06400 (06 40 23) - "Interior Architectural Woodwork" (12 32 00) - ["Institutional Casework"] ["Residential Casework"] ["Laboratory Casework"].
3. Section 09310 (09 31 00) - "Ceramic Tile."
4. Section 10260 (10 26 23) - "Impact Resistant Wall Protection."
5. Section 15410 (22 40 00) - "Plumbing Fixtures."

B. ALLOWANCES: Furnish the following under the allowances indicated as specified in Division 1 Section "Allowances":

1. [<Insert work to be included under an allowance>.]

C. ALTERNATES: Refer to Section 01230 (01 23 00) - "Alternates" for description of Work in this Section affected by alternates.

1.3 REFERENCES

A. REFERENCE STANDARDS: In addition to requirements, comply with applicable provisions of following for design, materials, fabrication, and installation of component parts:

1. ISSFA-2, "Classification And Standards Publication of Solid Surfacing Material".
2. ANSI Z124-3 for vanities and Z124-6 for kitchen sinks.
3. NSF Standard 51 for use in both splash and food service areas.
4. New York City MEA for gas toxicity.
5. Canadian Standards Association (CSA).
6. ASTM G21 "Fungal Resistance," Method [A] [B], no growth.
7. ASTM G22 "Bacterial Resistance," no growth.
8. Stain Resistance, ANSI Z124-6-5.2 1997.
9. [Comply with requirements in CID-A-A-60003, "Partitions, Toilets, Complete."]

1.4 DESIGN REQUIREMENTS

A. DESIGN LOAD: Deflection limited to 1/360.

B. Design items with sufficient strength for handling stresses.

C. ACCESSIBLE DESIGN: Comply with [the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."] [ICC/ANSI A117.1.] [FED-STD-795, "Uniform Federal Accessibility Standards."]

1.5 SUBMITTALS

A. PRODUCT DATA: Manufacturer's technical literature indicating physical properties and performance criteria for solid surfacing materials and related components.

B. SHOP DRAWINGS: Indicate design parameters, adjacent construction, materials, dimensions, thickness, fabrication details, tolerances, jointing methods, method of support, anchorages, integration with plumbing fixtures and connections, and colors.

C. SAMPLES: Submit two, 2"x 2" (51mm x 51mm) samples representative of colors, patterns, textures, finishes and edge treatments. Approved samples will be retained as a standard for the work.

D. INFORMATIONAL SUBMITTALS: Submit following packaged separately from other submittals:

1. Manufacturer's written installation instructions.
2. Maintenance Data: Manufacturer's recommended cleaning and maintenance procedures. Include in project closeout documents.

E. LEED SUBMITTALS:

1. Product Data for Credit EQ 4.1: For installation adhesives, including printed statement of VOC content.
2. Product Data for Credit EQ 4.4: For adhesives, documentation indicating that the adhesive contains no urea formaldehyde.
3. Credit MR 4: For products having recycled content, provide documentation indicating percentages, by weight, of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.
4. Credit MR 5: Identify each regional material along with the location of its harvest, extraction, or manufacture. Include material cost for each item.

1.6 QUALITY ASSURANCE

A. FABRICATOR/INSTALLER QUALIFICATIONS: Company specializing in fabricating and installing solid surfacing fabrications similar in complexity to those required in this project, including specific requirements indicated.

B. SOURCE LIMITATIONS: Obtain solid surfacing fabrications through one source.

FORMICA® SOLID SURFACING



FABRICATIONS 3-PART TECHNICAL SPECIFICATION

SECTION 06610 (06 61 16)

C. FIRE-TEST-RESPONSE CHARACTERISTICS: Provide solid surfacing fabrications with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL 723 or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.

D. MOCKUPS: Build mockups to [verify selections made under sample Submittals and to demonstrate aesthetic effects][and qualities of materials and execution][set quality standard for fabrication and installation].

E. PRE-INSTALLATION CONFERENCE: Conduct conference at Project site to comply with requirements in Section 01310 (01 31 00) - "Project Management and Coordination."

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, handle, and protect materials in accordance with manufacturer's written instructions.

1. Provide protective coverings of suitable material. Take special precautions at corners.

1.8 PROJECT CONDITIONS

A. ENVIRONMENTAL LIMITATIONS: Do not deliver or install solid surfacing fabrications until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at design levels during the remainder of the construction period.

B. FIELD MEASUREMENTS: Verify that field measurements are as indicated on Shop Drawings.

1.9 SEQUENCING

- A. Sequence work to permit installation of adjacent affected construction, plumbing rough-in.**
- B. Coordinate sizes and locations of plumbing, cut-outs, and other related work specified in other sections to ensure that interior architectural woodwork can be supported and installed as indicated.**

1.10 WARRANTY

A. WARRANTY: Provide manufacturer's 10 year limited warranty covering replacement of the material except for non-covered conditions as follows:

1. Minor stains, scratches, water spots, and burns that may be corrected by techniques covered in the manufacturer's Use and Care Guide.
 2. Failure of solid surfacing joint material.
 3. Failure due to structural failure of base cabinets or other solid surfacing substrate construction.
 4. Use for purposes other than indoor finish material.
- See manufacturer's warranty for complete details.

PART 2 — PRODUCTS

2.1 PRODUCTS AND MANUFACTURERS

A. ACCEPTABLE PRODUCT AND MANUFACTURER: Formica® Solid Surfacing, Formica Corporation, Cincinnati, OH.

2.2 MATERIALS AND COMPONENTS

A. SOLID SURFACING MATERIALS: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2.

1. Colors and Patterns: [As indicated by manufacturer's designations] [Match Architect's samples] [As selected by Architect from manufacturer's full range].

B. SPECIAL FEATURES: Eased edge treatments.

C. ACCESSORIES:

1. Adhesives: For seams and drop edges, Formica® Solid Surfacing Seaming Cartridges, 9 ounce (260ml); color to blend with sheet material.
2. VOC Limits for Installation Adhesives and Glues: Use installation adhesives that comply with the limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.3 FABRICATION

A. Assemble work at shop following manufacturer's printed fabrication instructions and deliver to job ready for installation. Manufacture in largest practical pieces for handling and shipping without seams.

1. Grade: AWI, [Premium] [Custom] [Economy].
2. Fabricate work square and to required lines.
3. Recess and conceal fasteners, connections, and reinforcing.
4. Design construction and installation details to allow for expansion and contraction of materials. Properly frame material with tight, hairline joints held rigidly in place.
5. Fabricate countertops and vanities with back splash and side splash pieces to profiles and sizes indicated.
6. Fabricate items to profiles shown with connections and supports as indicated or as required for complete installation in accordance with manufacturer's written instructions and approved submittals.
7. Provide cut-outs for plumbing fixtures and trim, washroom accessories, appliances, and related items. Confirm layout with manufacturer's cut-out templates before beginning work. Round corners of cut-outs and sand edges smooth.
8. Do not exceed manufacturer's recommended unsupported overhang distances.
9. Finish exposed surfaces smooth and polish to low sheen.
10. Radius corners and edges.

FORMICA® SOLID SURFACING



FABRICATIONS 3-PART TECHNICAL SPECIFICATION

SECTION 06610 (06 61 16)

B. [Tabletops] [Countertops] [Vanity Tops] [Bar Tops]: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated.

C. LABORATORY TOPS: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated [complete with indicated plumbing fixtures and accessories]. Refer to Formica® Solid Surfacing Data Sheet (Form No. 11-117) for list of chemicals that do and do not stain Formica® Solid Surfacing.

D. [Reception Countertops] [Nurse Station Countertops]: Horizontal surfaces of $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated.

E. VERTICAL SURFACES: $\frac{1}{4}$ " (6mm) $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated.

F. COLD CAFETERIA SURFACES: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated.

1. Provide expansion joints in countertops as indicated.
2. Provide cut-outs for equipment and appliances in accordance with approved submittals with templates furnished by equipment manufacturer.
3. Reinforce seams, cut-outs and edges in accordance with approved submittals and manufacturer's written installation instructions.
4. Provide insulation between solid surfacing fabrications and adjacent cold pans in accordance with approved submittals and manufacturer's written installation instructions.

G. HOT CAFETERIA SURFACES: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, adhesively joined with no exposed seams, edge details as indicated.

1. Provide expansion joints in countertops as indicated.
2. Provide cut-outs for equipment and appliances in accordance with approved submittals, with templates furnished by equipment manufacturer.
3. Reinforce seams, cut-outs and edges in accordance with approved submittals and manufacturer's written installation instructions.
4. Provide insulation and conductive tape between solid surfacing fabrications and adjacent hot pans in accordance with approved submittals and manufacturer's written installation instructions.

5. Provide venting of cabinets as indicated.

H. [Toilet Partitions] [Shower Partitions]: $\frac{3}{4}$ " (19mm) thick, Custom Solid Surfacing with solid phenolic or chrome plated steel pilasters attached at floor and ceiling. Provide partition manufacturers standard hardware for assembly and attachment.

I. [Wall Cladding] [Wainscoting]: $\frac{1}{4}$ " (6mm) thick Solid Surfacing, with [butt joints] $\frac{1}{8}$ " (3mm) wide joints sealed with silicone sealant per solid surfacing manufacturer's recommendations, adhesively applied to approved substrate.

J. WINDOWSILLS: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, edge details as indicated.

K. SINKS:

1. K080 MODEL KITCHEN SINK: Single Bowl, Outside dimensions $22\frac{5}{8}$ " x $17\frac{3}{4}$ " x $7\frac{1}{2}$ " deep ; Inside Dimensions $20\frac{5}{8}$ " x $15\frac{3}{4}$ ", Drain Diameter $3\frac{9}{16}$ " in.
2. K155 MODEL KITCHEN SINK: Double Bowl, Outside Dimensions $30\frac{7}{8}$ " x 18"; Inside Dimensions large bowl $17\frac{3}{4}$ " x $16\frac{1}{8}$ " x $7\frac{1}{2}$ " deep, Inside Dimensions small bowl $9\frac{1}{2}$ " x $16\frac{1}{8}$ " x 5" deep. Drain Diameter $3\frac{9}{16}$ ".
3. K250 MODEL KITCHEN SINK: Double Even Bowl, Outside Dimensions 30 in by 18 in.; Inside Dimensions $13\frac{3}{8}$ in by $16\frac{1}{8}$ in by $7\frac{1}{2}$ in deep. Drain Diameter $3\frac{9}{16}$ " in.
4. 2716US MODEL KITCHEN SINK: Single Bowl, Outside Dimensions $28\frac{1}{2}$ " x 17"; Inside Dimensions 27" x 16" x $5\frac{1}{2}$ " deep. Drain Diameter $3\frac{9}{16}$ ".

L. COUNTERTOPS WITH UNDER-MOUNTED SINKS: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, edge details as indicated with under-mount sink.

M. VANITY TOPS WITH UNDER-MOUNTED SINKS: $\frac{1}{2}$ " (13mm) thick, Solid Surfacing, edge details and back splash as indicated, with under-mount sink.

N. ACCESSIBLE-ADA LAVATORY BOWL:

1. L-075 MODEL SINK: $18\frac{1}{2}$ " x $15\frac{1}{16}$ " x $5\frac{1}{4}$ " deep (Outside Dimensions); $16\frac{1}{2}$ " x $13\frac{1}{16}$ " (Inside Dimensions), Overflow: Front.
2. V-065 MODEL SINK: 18" x 14" x 5" deep (Outside Dimensions); 16" x 12" (Inside Dimensions), Overflow: Front.
3. L-080 MODEL SINK: Vanity Undermount Bowl, $17\frac{7}{8}$ " x $15\frac{15}{16}$ " x 5" deep (Outside Dimensions); $14\frac{15}{16}$ " x 13" (Inside Dimensions), Drain Diameter $1\frac{3}{4}$ " (44.5mm). Overflow: Back
4. 1812VO MODEL SINK: $19\frac{1}{2}$ " x $4\frac{5}{16}$ " (Outside Dimensions); 18" x $12\frac{3}{4}$ " x 4" deep (Inside Dimensions), Overflow: Front.

O. TOLERANCES:

1. VARIATION IN COMPONENT SIZE: Plus/Minus $\frac{1}{4}$ ".
2. LOCATION OF OPENINGS: Plus/Minus $\frac{1}{4}$ " from indicated location.

PART 3 — EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Examine surfaces for conditions that would adversely affect execution.

B. PREPARATION: Take field measurements.

3.2 INSTALLATION

A. GENERAL: Install in accordance with manufacturer's written installation instructions and approved Submittals. Provide templates and rough-in measurements.

FORMICA® SOLID SURFACING



FABRICATIONS 3-PART TECHNICAL SPECIFICATION

SECTION 06610 (06 61 16)

1. Set items plumb, level, rigid and solidly adhered to substrate.
2. Prefit items: Adjust supports to make fit. Align joints over support framing.
3. Apply dabs of silicone on supports; place items on supports and attach.

B. SPLASHES: Install splashes at back and sides of countertops and vanities using silicone. Apply silicone to back surface only. Place thin bead of seam adhesive along edge where splash seats.

1. Seal joint between vanity top and splashes and between splashes and walls with Sealant Designation [] as specified in Section 07920 (07 92 00) "Sealants".

C. WINDOW SILLS: Install sills tight to window framing and adjacent wall surfaces. Anchor with concealed fastening system to securely prevent rocking, racking, or displacement. Seal joint between sill at adjacent wall and window surfaces with Sealant Designation [] as specified in Section 07920 (07 92 00) - "Sealants."

D. TOLERANCES:

1. Maximum Variation From True Dimension: 1/8".
2. Maximum Offset From True Position: 1/8".

3.3 CLEANING AND PROTECTION

A. CLEANING:

1. Clean and polish fabrications in accordance with manufacturer's instructions.
2. Promptly remove excessive mastic and seam adhesive.
3. Clean tops and splashes in accordance with manufacturer's recommendations.

B. PROTECTION:

1. Do not permit construction near unprotected surfaces.

Refer to manufacturer's warranty and exclusions.

Formica is a sublicensed trademark to Formica Corporation. Formica and the Formica Anvil logo are registered trademarks of The Diller Corporation. 1-800-FORMICA is a trademark of The Diller Corporation. The products and manufacturing processes of Formica Corporation are protected under U.S. and foreign patents.

All ® brands are registered trademarks of the respective owners.
All ™ brands are trademarks of the respective owners.

For warranty information, please visit or call 1-800-FORMICA™.

GreenGuard Environmental Institute

Formica® Solid Surfacing is GreenGuard Indoor Air Quality Certified under the GreenGuard Standard for Low-Emitting Products.

OVALYN™ UNDERCOUNTER SINK

- Classic oval undermount sink
- Made from vitreous china
- Front overflow
- Supplied with mounting kit (047194-0070A) and template

☐ **0495.221 Unglazed rim**

435 x 359mm
(17-1/8" x 14-1/8")

☐ **0495.300 Glazed underside**

Bowl size:

382mm (15-1/16") wide
306mm (12-1/16") front to back
140mm (5-1/2") deep

☐ **0496.221 Unglazed rim**

489 x 413mm
(19-1/4" x 16-1/4")

☐ **0496.300 Glazed underside**

Bowl size:

432mm (17") wide
356mm (14") front to back
140mm (5-1/2") deep

☐ **0497.221 Unglazed rim**

546 x 441mm
(21-1/2" x 17-3/8")

☐ **0497.300 Glazed underside**

Bowl size:

483mm (19") wide
391mm (15-3/8") front to back
140mm (5-1/2") deep

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2M for Vitreous China Fixtures
- CAN/CSA B45 series

To Be Specified:

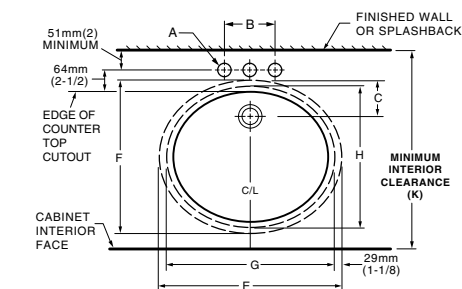
- ☐ Color: ☐ White ☐ Bone ☐ Linen
☐ Silver ☐ Fawn Beige ☐ Black
- ☐ Faucet*:
☐ Faucet Finish:
☐ Supplies:
☐ 1-1/4" Trap:

* See faucet section for additional models available

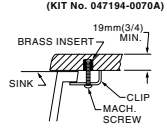


SEE REVERSE FOR ROUGHING-IN DIMENSIONS

0496/0497



▼ DETAIL OF MOUNTING CLIP (KIT No. 047194-0070A)



REFER TO INSTRUCTIONS PROVIDED WITH KIT FOR ADDITIONAL INFORMATION

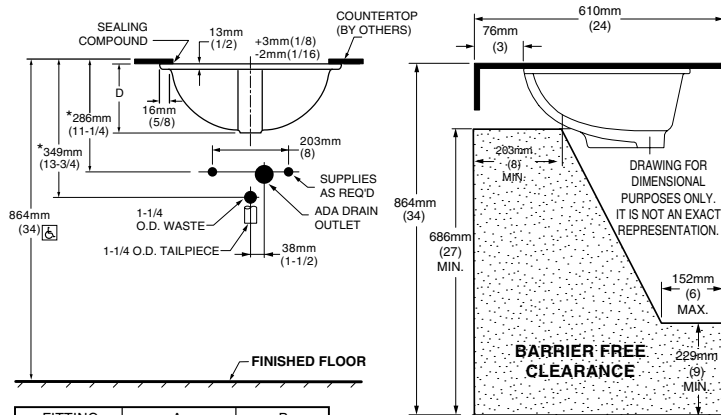
NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIED AND "P" TRAP ARE SUGGESTED.

▼ UNDERCOUNTER MOUNTING KIT SUPPLIED WITH SINK.

PLEASE NOTE MINIMUM INTERIOR CLEARANCE (K). FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. USE ENCLOSED TEMPLATE FOR COUNTER TOP CUTOUT SEALING COMPOUND SUPPLIED BY OTHERS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



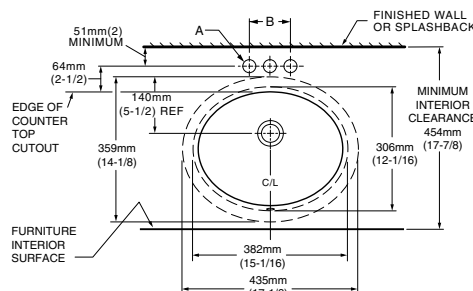
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.

Countertop 864mm (34") from finished floor. Lavatory installed 76mm (3") from front edge of countertop. Countertop thickness to be 25mm (1") maximum.

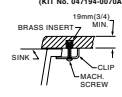
FITTING	A	B
CENTERSET	1-1/4 (32mm)	4 (102mm)
SPREAD	1-3/8 (35mm)	8 (203mm)

CAT. NO.	E	F	G	H	C	D	J	K
0496.221	489mm (19-1/4)	413mm (16-1/4)	432mm (17)	356mm (14)	103mm (4-1/16)	182mm (7-3/16)	16mm (5/8)	500mm (19-11/16)
0497.221	546mm (21-1/2)	441mm (17-3/8)	483mm (19)	391mm (15-3/8)	95mm (3-3/4)	191mm (7-1/2)	19mm (3/4)	534mm (21-1/16)

0495



▼ DETAIL OF MOUNTING CLIP (KIT No. 047194-0070A)



REFER TO INSTRUCTIONS PROVIDED WITH KIT FOR ADDITIONAL INFORMATION

FITTING	A	B
CENTERSET	1-1/4 (32mm)	4 (102mm)
SPREAD	1-3/8 (35mm)	8 (203mm)

NOTES:

USE ENCLOSED TEMPLATE FOR COUNTER TOP CUTOUT. FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIED AND "P" TRAP ARE SUGGESTED.

▼ UNDERCOUNTER MOUNTING KIT SUPPLIED WITH SINK.

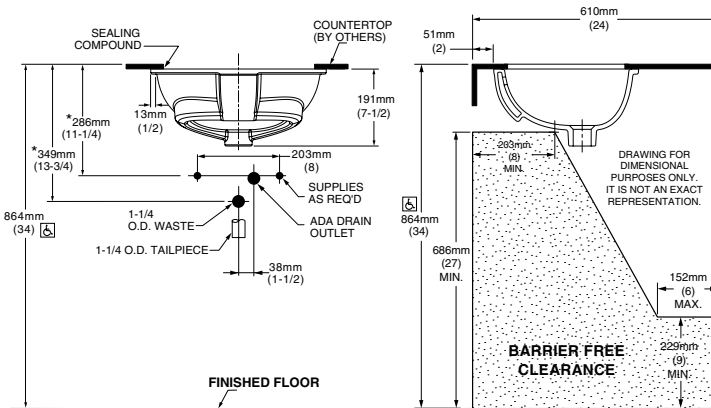
PLEASE NOTE MINIMUM INTERIOR CLEARANCE (K). SEALING COMPOUND SUPPLIED BY OTHERS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.

Countertop 864mm (34") from finished floor. Lavatory installed 51mm (2") from front edge of countertop. Countertop thickness to be 25mm (1") maximum.



Manual Faucets

Product Type

Deck Mounted 4" Fixed Centers Single Supply Metering Sink
Faucet

Features & Specifications

- 4" Fixed Centers
- 2.2 GPM (8.3 L/min) Aerator
- 1-3/4" Vandal Proof MVP Metering Push Handle
- MVP Metering Adjustable Cycle Time Closure Cartridge
- 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser
- 4" Center to Center Deck Cover Plate
- 4 1/8" Center to Center Integral Cast Brass Spout
- ECAST® design provides durable brass construction with total lead content equal to or less than 0.25% by weighted average
- CFNow! Item Ships in 5 Days

Performance Specification

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F

Warranty

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

Codes & Standards

- ASME A112.18.1/CSA B125.1
- California Health and Safety Code 116875 (AB1953-2006)
- Vermont Bill S.152
- NSF/ANSI 372 Low Lead Content
- ADA ANSI/ICC A117.1

Job Name _____

Item Number _____

Section/Tag _____

Model Specified _____

Architect _____

Engineer _____

Contractor _____

☐ Submitted as Shown ☐ Submitted with Variations

Date _____

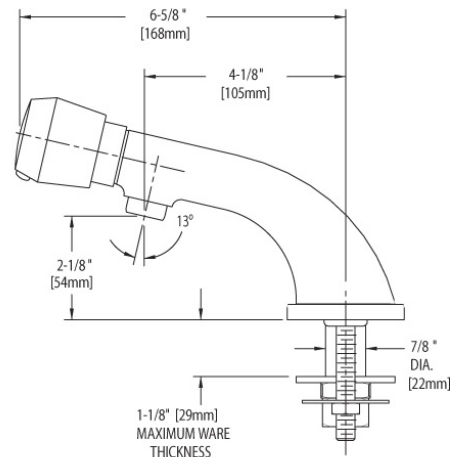
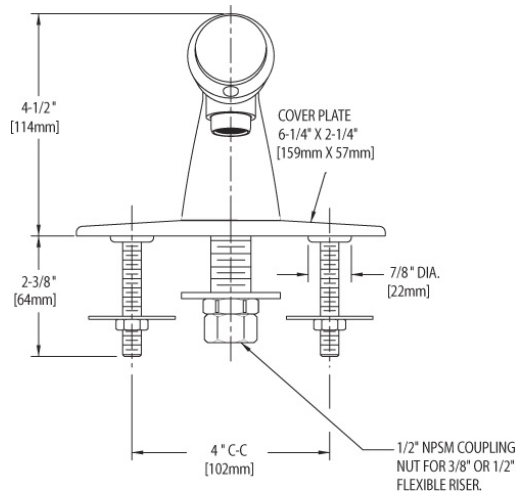


ECAST®

ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

Architect/Engineer Specification

Chicago Faucets No. 857-E12-665PSHABCP, Deck Mounted 4" Fixed Centers Single Supply Metering Sink Faucet, Chrome Plated solid brass construction. 4 1/8" Center to Center Integral Cast Brass Spout. 2.2 GPM (8.3 L/min) Pressure Compensating Softflo Aerator. 1-3/4" Metal Vandal Proof MVP Metering Push handle(s) with Blue or Red Button. MVP™ self-closing, auto-timed metering cartridge, adjustable run time from 2 to 15 seconds, opens with push, 0.20 max gallon/cycle. 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser. 4" Center to Center Deck Cover Plate. ECAST® construction with less than 0.25% lead content by weighted average. Secondary Control Valve: 4 1/8" Center to Center Integral Cast Brass Spout. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152, and NSF/ANSI 372 Low Lead Content.



Operation and Maintenance

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at www.chicagofaucets.com.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.





BARRIER FREE

AFWALL® MILLENNIUM™ FloWise® ELONGATED FLUSHOMETER TOILET VITREOUS CHINA LESS EVERCLEAN®

AFWALL® MILLENNIUM™ FloWise® ELONGATED FLUSHOMETER TOILET LESS EVERCLEAN®

- Wall-mounted flushometer valve toilet
- Vitreous china
- Conventional glaze
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.1 gpf - 1.6 gpf or 1.28/1.1 gpf dual flush)
- Maximum Performance (MaP) score of 1,000 grams at 1.1 gpf - 1.6 gpf
- Condensation channel
- Concealed trapway design
- Elongated bowl
- Powerful direct-fed siphon jet action
- 1-1/2" inlet spud
- Fully-glazed 2-1/8" trapway
- 10" x 12" water surface area
- Static weight load of 1,000 lbs.*
- 100% factory flush tested

- ☐ **2257.101** Elongated bowl only, top spud
- ☐ **2257.101.NAF** Elongated bowl only, top spud, NAFTA Compliant
- ☐ **2633.101** Elongated bowl only, top spud with slotted rim for bedpan holding
- ☐ **2634.101** Elongated bowl only, back spud

System MaP* Score:

- 1,000 grams of miso @ 1.1 gpf to 1.6 gpf when used with an American Standard flush valve

* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)

Nominal Dimensions:

660 x 356 x 381mm
(26" x 14" x 15")

Recommended working pressure—between 25 psi at valve when flushing and 80 psi static

Fixture only, less seat, bolt caps, and flushometer valve

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2/CSA B45.1 for Vitreous China Fixtures

* This product is not recommended for bariatric use.



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- ☐ Color: ☐ White
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
 - ☐ 1.6 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
AC Power #6067.161.002 (Top Spud)
 - ☐ Manual: American Standard #6047.161.002 (Top Spud)
 - ☐ 1.28 gpf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
AC Power #6067.121.002 (Top Spud)
 - ☐ Manual: American Standard #6047.121.002 (Top Spud)
 - ☐ 1.6 / 1.1 gpf Dual Flush:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.761.002 (Top Spud)
AC Power #6067.761.002 (Top Spud)
 - ☐ 1.28 / 1.1 gpf Dual Flush:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.721.002 (Top Spud)
AC Power #6067.721.002 (Top Spud)



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES - CHECK LOCAL CODES.

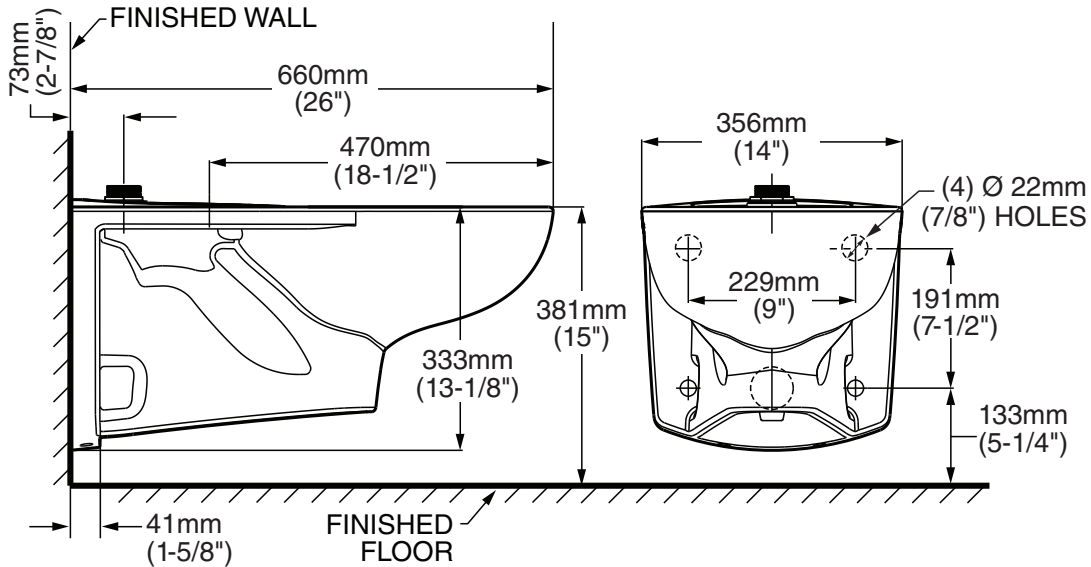
- When installed so top of seat is 432 to 483mm (17" to 19") from the finished floor.



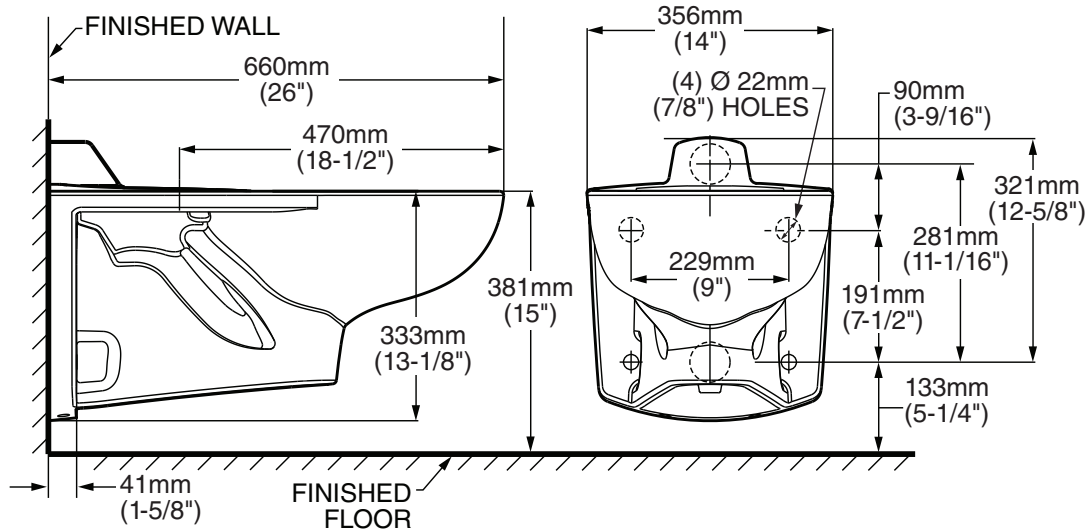
AFWALL® MILLENNIUM™ FloWise® ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA LESS EVERCLEAN®

2257.101/2633.101



2634.101



NOTES:

● Toilet designed to meet ADA accessibility standards when top of seat height set at 432 to 483mm (17" to 19") from finished floor.

PRODUCT 2257 SHOWN, 2366 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.

WASTE OUTLET SEAL RING MUST BE NEOPRENE OR GRAPHITE-FELT (WAX RING NOT RECOMMENDED).

SUGGESTED 2mm (1/16) CLEARANCE BETWEEN FACE OF WALL AND BACK OF BOWL.

TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.

FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.

CARRIER FITTING AS REQUIRED TO BE FURNISHED BY OTHERS.

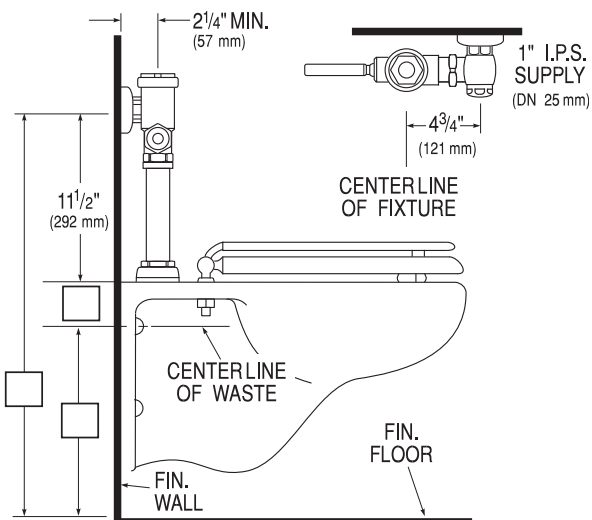
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORT.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.

These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages



Listed by I.A.P.M.O.



Gem•2® Model 111-1.28 Flushometer

Description

Exposed, Water Closet Flushometer for floor mounted or wall hung top spud bowls.

Flush Cycle

□ Model 111-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Specifications

Quiet, Exposed, Piston Type, Chrome Plated Closet Flushometer with the following features:

- Fixed Volume Piston with Filtered O-ring Bypass
- ADA Compliant Metal Oscillating Non-Hold-Open Handle
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Locking Vandal Resistant Stop Cap
- Adjustable Tailpiece
- Vacuum Breaker Flush Connection
- Spud Coupling, Wall and Spud Flanges for 1 1/2" Top Spud
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Handle and No External Volume Adjustment to Ensure Water Conservation
- Handle Packing, Stop Seat and Vacuum Breaker Molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2.

Variations

- | | |
|---------------|--|
| □ U | 1 1/4" Flush Connection and Spud Coupling |
| □ TP | Trap Primer |
| □ XV | Valve Less Vacuum Breaker |
| □ YB | Sweat Solder Adapter Kit |
| □ YBYC | Sweat Solder Adapter & Cast Wall Flange with Set Screw |
| □ YG | Extended Bumper on Angle Stop (for seat with cover) |
| □ YJ | Split Ring Pipe Support |
| □ YK | Solid Ring Pipe Support |
| □ YO | Bumper on Angle Stop |

NOTE: Bak-Chek® Angle Stop available with 1" Whitworth Thread (please specify).

Accessories

See Accessories Section of the Sloan catalog for details on these and other Flushometer variations.

Fixtures

Consult Sloan for Sloan brand matching fixture options.

This space for Architect/Engineer approval

Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

The information contained in this document is subject to change without notice.

SLOAN®



SLOAN VALVE COMPANY • 10500 SEYMOUR AVE. • FRANKLIN PARK, IL. 60131

Ph: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380

Made in the U.S.A.

www.sloanvalve.com

**Washbrook® FloWise® Universal Urinal
with EverClean®**

- Vitreous china
- **Permanent EverClean® surface inhibits the growth of stain and odor causing bacteria, mold and mildew on the surface**
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125gpf to 1.0gpf (0.5 Lpf to 3.8 Lpf)
- Flushing rim
- Elongated 14" rim from finished wall
- Washout flush action
- Extended sides for privacy
- 3/4" inlet spud
- Outlet connection threaded 2" inside (NPTF)
- 2 wall hangers
- Fixture only
- Strainer included
- Meets ASME flush requirements at 0.125 to 1.0 gpf

☐ **6590.001EC** Universal Top spud with EverClean

Nominal Dimensions:

360 x 480 x 664mm
(14-1/8" x 18-7/8" x 26-1/8")

Recommended working pressure – between
20 psi at valve when flushing and 80 psi static

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- ☐ Color: ☐ White
- ☐ Flush Valve:
 - 1.0 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.101.002 DC Power (Top Spud)
 - 1.0 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard # 6045.101.002
 - 0.5 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.051.002 DC Power (Top Spud)
 - 0.5 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard #6045.051.002
 - 0.125 gpf Flush Valve: Sensor-Operated:
 - ☐ American Standard Selectronic® #6063.013.002 DC Power (Top Spud)
 - 0.125 gpf Flush Valve: Manual-Operated:
 - ☐ American Standard #6045.013.002



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES
AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND
FACILITIES - CHECK LOCAL CODES.

- When installed so top of rim is 432mm (17") MAXIMUM from finished floor.



When used with
0.125 gpf
urinal flush valve



When used with
0.125 or 0.5 gpf
urinal flush valve

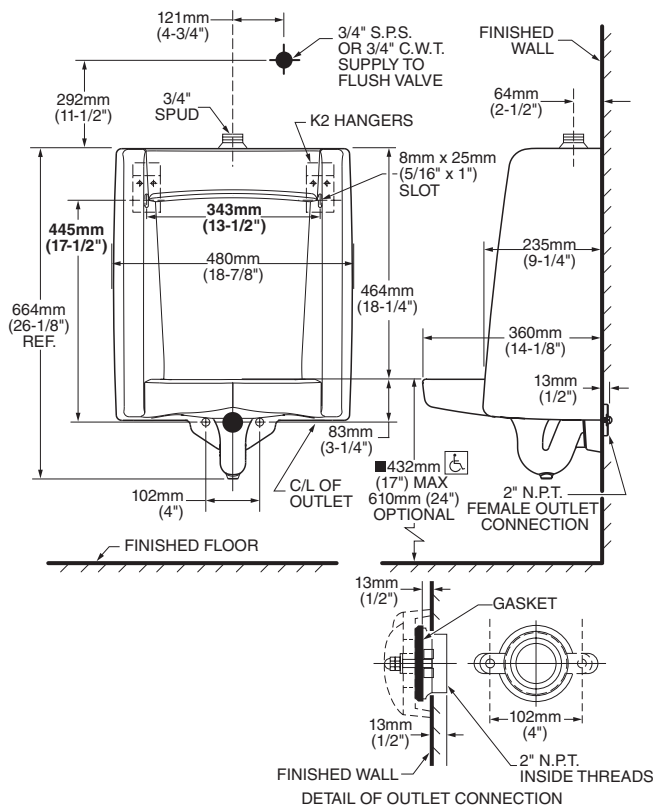



ADA
COMPLIANT



EVERCLEAN

6590.001EC TOP SPUD



 **MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.**
● When installed so top of rim is 432mm (17") MAXIMUM from finished floor.

NOTES:

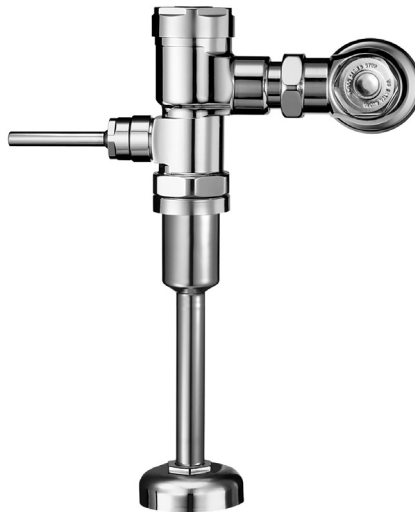
FLUSH VALVE NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

INSTALLATION INSTRUCTIONS FOR EXPOSED GEM•2® AND GEM•2® XL PISTON TYPE WATER CLOSET AND URINAL FLUSHOMETERS



**Closet Flushometer for
1 ½" Top Spud
MODELS
110/111, 113, 115 & 136**



**Urinal Flushometer for
1 ¼" Top Spud
MODEL 180**

**Urinal Flushometer for
¾" Top Spud
MODEL 186**



**Closet Flushometer for
1 ½" Back Spud
MODELS
120, 121, 122 & 137**

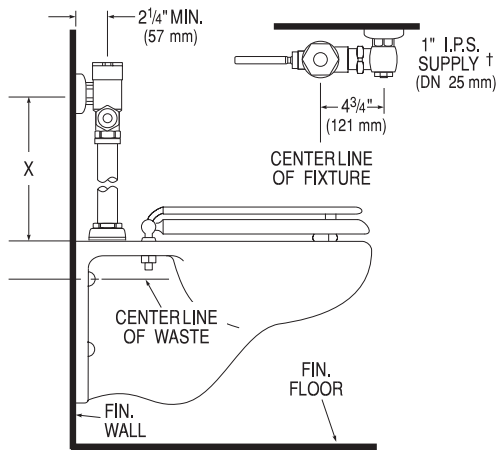
Made in the U.S.A.

LIMITED WARRANTY

Sloan Valve Company warrants its Gem•2® Flushometers to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which they are intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of three years (1 year for special finishes) from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer's cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company's products directly from Sloan Valve Company for purpose of resale.

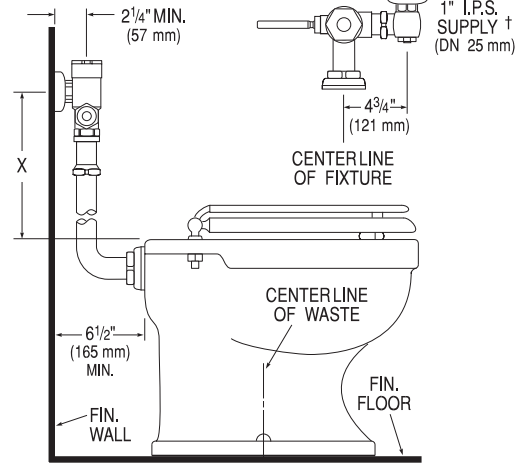
THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

VALVE ROUGH-IN MODELS 110/111, 113, 115



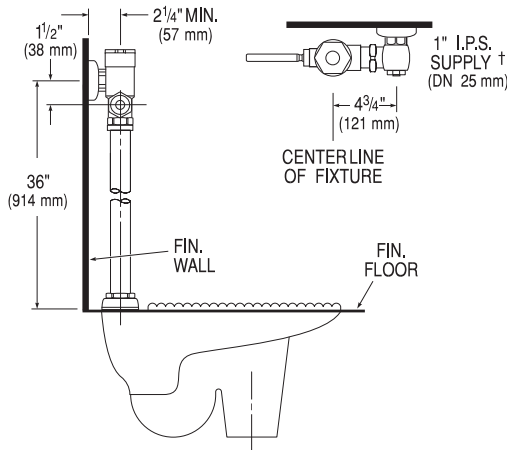
X = Model 110/111 - 11-1/2" (292 mm)
 Model 113 - 16" (406 mm)
 Model 115 - 24" (610 mm)

MODELS 120, 121, 122

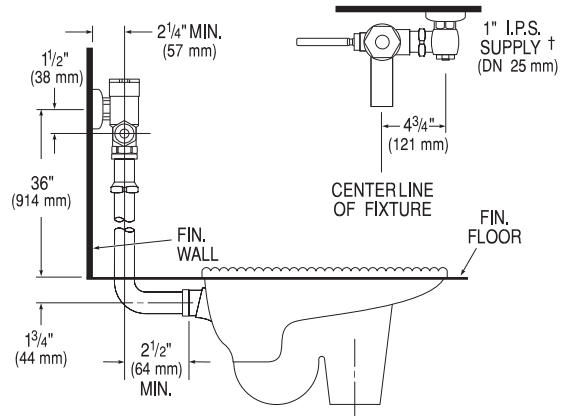


X = Model 120 — 11 1/2" (292 mm)
 Model 121 — 16" (406 mm)
 Model 122 — 24" (610 mm)

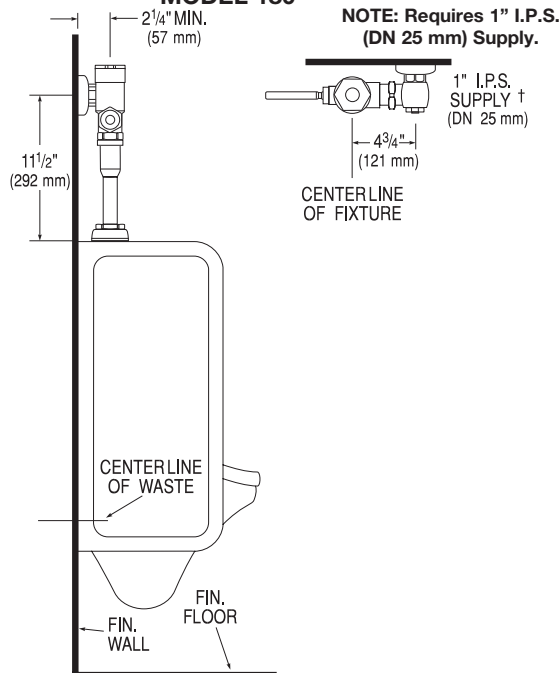
MODEL 136



MODEL 137

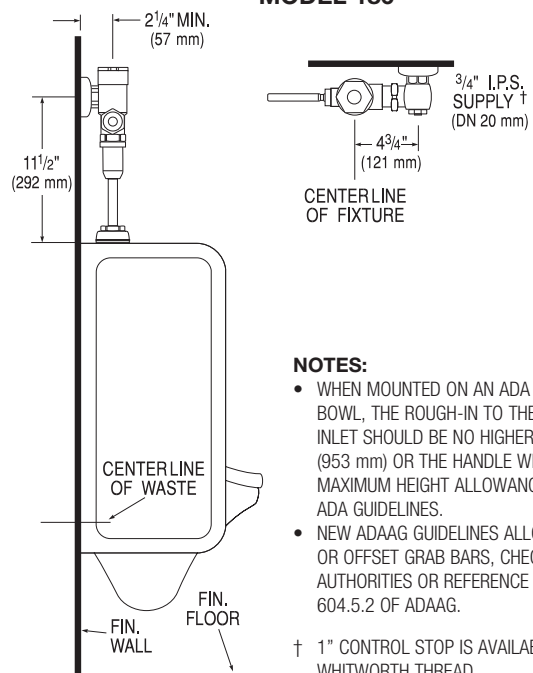


MODEL 180



NOTE: Requires 1" I.P.S. (DN 25 mm) Supply.

MODEL 186



NOTES:

- WHEN MOUNTED ON AN ADA ACCESSIBLE BOWL, THE ROUGH-IN TO THE SUPPLY INLET SHOULD BE NO HIGHER THAN 37 1/2" (953 mm) OR THE HANDLE WILL EXCEED MAXIMUM HEIGHT ALLOWANCES UNDER ADA GUIDELINES.
- NEW ADAAG GUIDELINES ALLOW FOR SPLIT OR OFFSET GRAB BARS, CHECK WITH LOCAL AUTHORITIES OR REFERENCE SECTION 604.5.2 OF ADAAG.

† 1" CONTROL STOP IS AVAILABLE WITH WHITWORTH THREAD.



SECTION 10155
TOILET COMPARTMENTS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Solid plastic partitions.

1.2 RELATED SECTIONS

- A. Section 05500 - Metal Fabrications: Concealed steel support members.
- B. Section 06110 - Wood Framing: Concealed wood framing and blocking for compartment support.
- C. Section 10800 - Toilet and Bath Accessories.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM D 1735 - Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus.
 - 3. ASTM D 2247 - Standard Practice for Testing Water Resistance of Coatings in 100 percent Relative Humidity.
- B. National Fire Protection Association: NFPA 286 - Standard Methods of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- C. United States Green Building Council (USGBC): LEED Green Building Rating System.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Literature indicating typical panel, pilaster, door, hardware and fastening.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Installation methods.
- C. Shop Drawings:
 - 1. Dimensioned plans indicating layout of toilet compartments.
 - 2. Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances.

3. Details indicating anchoring components (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.
- D. Selection Samples: For each finish product specified, one complete set of color selection guides representing manufacturer's full range of available colors, textures and patterns.
- E. Verification Samples: For each finish product specified, two samples representing actual product, color, texture and pattern.
- F. LEED Green Building Rating System: Submit manufacturer's documentation of recycled content, in accordance with LEED credit calculations.
- G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
- B. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.
- C. Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.
- D. Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).

1.7 WARRANTY

- A. Manufacturers Standard Warranty: For Solid Plastic HDPE Material: Against breakage, corrosion, and delamination for 15 years.

1.8 COORDINATION

- A. Coordinate Work with placement of support framing and anchors in walls and ceilings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ASI Accurate Partitions; 160 Tower Drive, Burr Ridge, IL 60527; Tel: 708-442-6800; Email: info@asi-accuratepartitions.com; Web: <http://www.asi-accuratepartitions.com>.
 1. Other Acceptable Manufacturer: ASI Global Partitions; Eastanollee, GA; Tel: 706-827-2700; Web: www.asi-globalpartitions.com.
 2. No other manufacturer will be accepted without ASTM performance compliance.

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 COMPARTMENTS AND SCREENS

- A. Toilet Compartments: Floor anchored/overhead braced solid plastic panels.
 - 1. Compartment Depth and Width: As scheduled and indicated on Drawings.
 - 2. Door Width: 24 inches (610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum.
 - 3. Height Above Floor: 14 inches (356 mm).
 - 4. Door/Panel Height: 55 inches (1397 mm).
 - 5. Pilaster Height: 82 inches (2083 mm).

2.3 SOLID PLASTIC TOILET COMPARTMENTS

- A. Doors, Panels, Screens, and Pilasters: Single sheet solid, homogenous HDPE plastic material formed from waterproof, non-absorbent, high-density polyethylene resins; mark-resistant self-lubricating surface; edges finished smooth.
 - 1. Material: Solid, homogenous HDPE; 1 inch (25 mm) thick.
 - 2. Edges: 1/4 inch (6 mm) radius machined edges.
 - 3. Heat Sink: Aluminum heat sink, to dissipate heat from incendiary devices used by vandals, attached to bottom of doors and panels.
- B. Finish: Pebble-textured homogenous color throughout material.
 - 1. Color: As selected from manufacturer's standard colors.
- C. Pilaster Shoes: Type 304 Stainless Steel, No. 4 satin finish. Easy Stall shoe shall be of a one piece design and integral to the mounting system and formed from 304 stainless steel 3 inch (76 mm) high with a No. 4 satin finish. Pilaster shoes are anchored to the pilaster with No. 10 stainless steel, vandal-resistant screws.
- D. Headrail: Manufacture's standard anodized aluminum rail with anti-grip profile.
- E. Pilaster Anchors, Floor Anchored/Overhead Braced:
 - 1. Easy Stall shoe system. 1/4 by 2 inch (6 by 51 mm) steel screws attach Easy Stall shoe to floor.
 - 2. Pilaster to be inserted into shoe and secured after height adjusted. Leveling adjustment to be concealed by pilaster shoe.
 - 3. Height/leveling adjustment to be made via machine thread bolts inserted into factory installed threaded insert in bottom of pilaster.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.
- B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

1. Verify dimensions of areas to receive compartments.
2. Verify locations of built-in framing, anchorage, bracing, and plumbing fixtures.

3.2 INSTALLATION

- A. Install in accordance with approved shop drawings and manufacturer's instructions.
- B. Fasten components to adjacent materials and to other components using purpose-designed fastening devices.
- C. Adjust pilaster anchors for substrate variations; conceal anchors with pilaster shoes.
- D. Equip each compartment door with hinges and door latch.
- E. Install door strike keeper on pilasters in alignment with door latch.
- F. Equip each compartment door with one coat hook and bumper.
- G. Installation Tolerances:
 1. Maximum variations from plumb or level: 1/8 inch (3 mm).
 2. Clearance between wall surface and panels or pilasters: 1-1/2 inch (38 mm) maximum.

3.3 ADJUSTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors.
- B. Adjust adjacent components for consistency of line or plane.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before substantial completion.

END OF SECTION

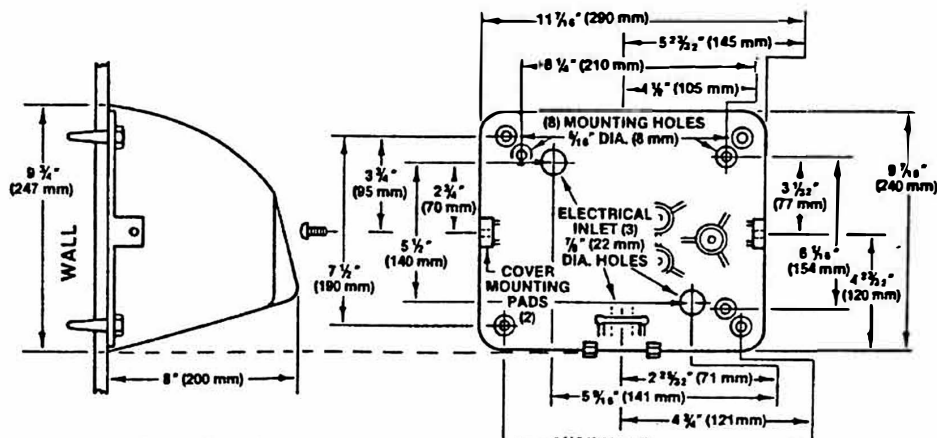
SURFACE MOUNTED



Model HO-IW
Surface Mounted, Automatic
White Epoxy Painted Cover



Model HO-IC
Surface Mounted, Automatic
Chrome Plated Cover



SURFACE MOUNTED

Dimensions: 12 lg. x 9 3/4" high x 8" deep (305 mm x 248 mm x 203 mm)
Weight: cast 17 Lbs. (7.7 Kgs.)

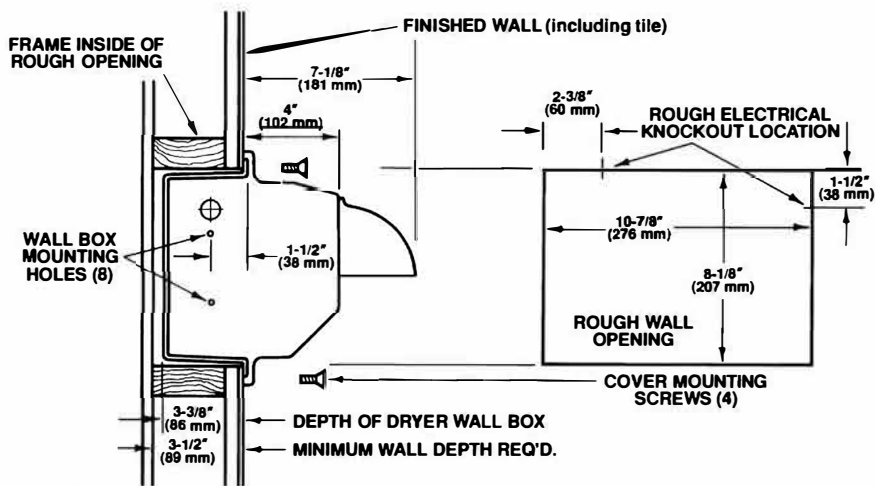
MODEL NO.	COVER FINISH	MOUNTING	TIME CYCLE	DRYER TYPE
HO-IW	White	Surface	Automatic	Hand Dryer
HO-IC	Chrome	Surface	Automatic	Hand Dryer

SUGGESTED MOUNTING HEIGHTS FROM FLOOR TO BOTTOM OF DRYER

	Men's	Ladies	Teenagers	Children's	Handicapped
Surface Mounted	43" (109 cm.)	41" (104 cm.)	39" (99 cm.)	33" (84 cm.)	35" (89 cm.)
Recessed Mounted	40" (102 cm.)	38" (97 cm.)	36" (91 cm.)	30" (76 cm.)	32" (82 cm.)

All units are available as specified in: 110/120V 15 or 20 Amp. 60 Hz, 208/230V 10 Amp. 60 Hz, 277V 8 Amp. 60 Hz. (up to 2400 Watts). 50 Hz units are available for export.

RECESSED MOUNTED



RECESSED MOUNTED

Dimensions: 12 lg. x 9 3/4" high x 4" deep 318 mm x 248 mm x 102 mm
Weight: 20 lbs. (9.0Kgs.)

MODEL NO.	COVER FINISH	MOUNTING	TIME CYCLE	DRYER TYPE
R76-IW	White	Recessed	Automatic	Hand Dryer
R76-IC	Chrome	Recessed	Automatic	Hand Dryer



R76-IW
Recessed Automatic
Epoxy Painted Cover.



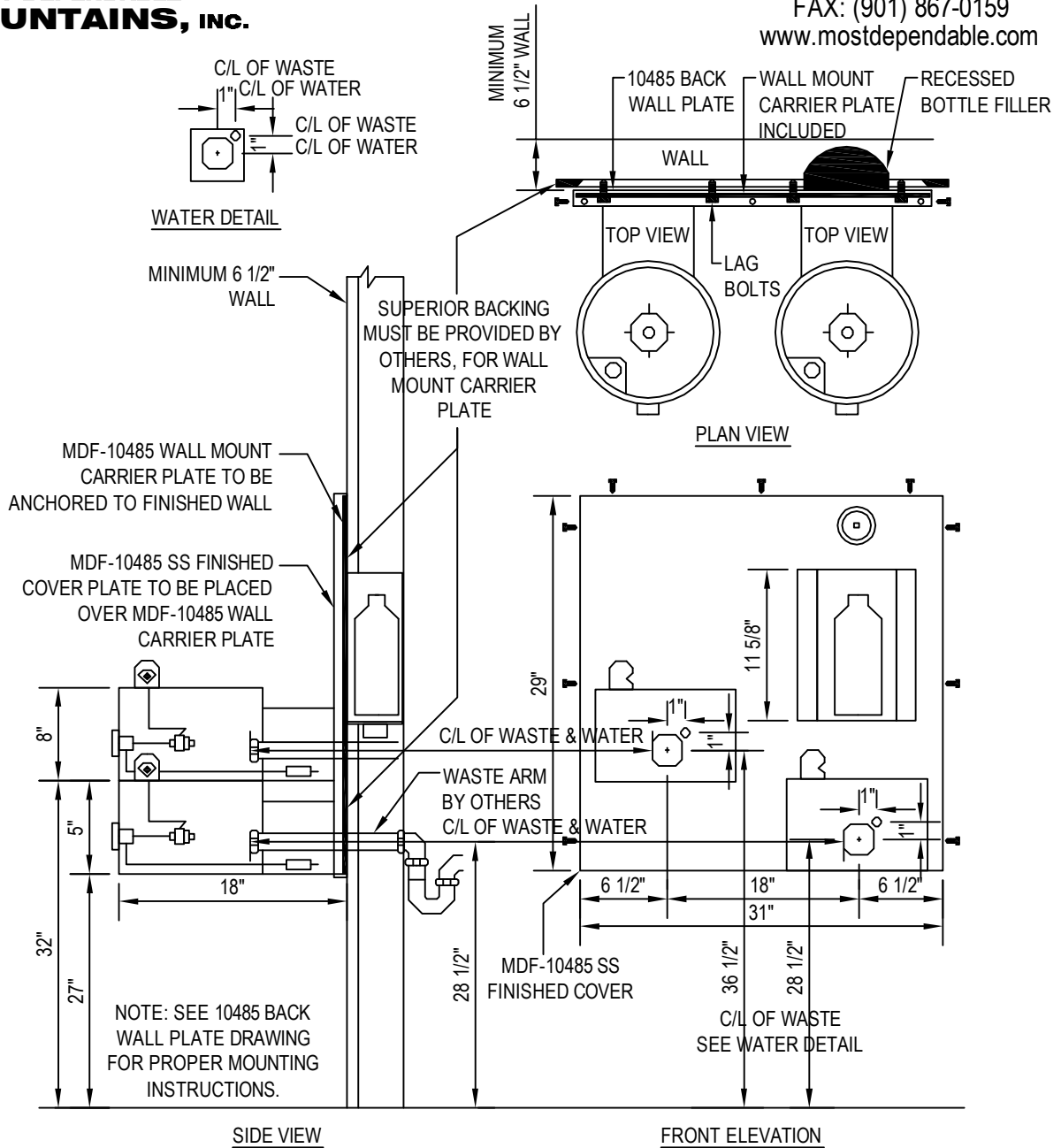
R76-IC
Recessed Automatic
Chrome Plated Cover.

**Most
Dependable
Fountains, Inc.**

OPERATIONS MANUAL

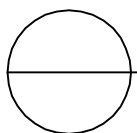
**MODELS:
10485 WM & 10485 WMSS**

Most Dependable Fountains, IncTM
5705 Commander Drive
Arlington, TN 38002
800-552-6331
www.mostdependable.com



NOTES:

1. THIS MODEL COMES WITH A CARRIER PLATE.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-17.13.



MODEL 10485 WM

10485 WM CARRIER PLATE INCLUDED





WALL MOUNT COMBINATION SPECIFICATIONS

WATER QUALITY (LEAD FREE)

Section 9, California Proposition 6 and the Federal Safe Drinking Water Act.

■ STANDARD

OR

■ STAINLESS STEEL

One piece weld construction with MDF standard 3/16" wall thickness.

One piece weld construction with MDF standard 304 schedule 10 stainless steel.

RECEPTOR BOWL

18 gauge electro-polished stainless steel bowl. Bowl overlaps pedestal, preventing buildup of residue in visual drinking area. Optional stainless steel Bowl Strainer recommended for areas with sand.

BOTTLE FILLER SPOUT

Sanitary recessed nozzle.

BUBBLER HEAD

Stainless steel anti-squirt head (weighing a pound and a half) mounted with a lock nut and washer to prevent tampering. Lock nut pin holds bubbler in locked position to prevent twisting or turning. The MDF bubbler head has a unique design that features a steady stream trajectory and a built in natural shield from contamination.

PUSH BAR

304 stainless steel with circumference exceeding 8.6". Mushroom style push bar overlaps and prevents sand and other objects from sticking push bar in the ON position. Stainless steel bubbler housing standard.

CONTROL VALVE

Requires less than 5 lbs to operate. Non-cartridge O-ring delivers steady stream of water through an adjustable valve. This valve design is to operate and function at 30 to 80 PSI. Ideal operating pressure is 60 PSI.

FLOW REGULATOR

Designed to operate and function at 30 to 80 PSI. Ideal operating pressure is 60 PSI.

WATER SUPPLY (LEAD FREE)

Maintenance free reinforced nylobraid tubing - **this tubing is not plastic**. It is supplied with a 1/2" MIP threaded inlet with stainless steel strainer. Union fittings at every connection. Supply line stops above grade. Water Filter is standard on this model.

DRAIN

1 1/2" drain line.

FINISH

Oven baked powder coat. Choice of colors are: ☐ green, ☐ blue, ☐ black, ☐ brown, ☐ red, ☐ yellow, ☐ orange and ☐ white. Textured color choices: ☐ emerald, ☐ sapphire, ☐ pyrite, ☐ text-black, ☐ burgandy, ☐ gold vein, ☐ copper and ☐ sand-stone. Stainless steel models are powder coated for added protection. The color ☐ chrome is available for stainless steel models only.

INSTALLATION

Wall Mount units are anchored to a wall with bolts. Plate is included.

WINTERIZATION

Shut off water and drain down. Remove water filter.

WARRANTY

One year warranty, labor not included.

SHIPPING WEIGHT

Model 10105 WM.....	60 lbs	Model 10105 WMSS.....	55 lbs	Model 10175 FMSS.....	31lbs
Model 10485 WM.....	122 lbs	Model 10485 WMSS.....	122 lbs		
Model 10495 WM.....	86 lbs	Model 10495 WMSS.....	86 lbs		

MOST DEPENDABLE FOUNTAINS, INC.™
(800) 552-6331 • (901) 867-0039 • Fax (901) 867-4008
5705 COMMANDER DR. • ARLINGTON, TN 38002-0587
www.mostdependable.com



LIMITED PRODUCT WARRANTY

Most Dependable Fountains, Inc.TM

Most Dependable Fountains, Inc.TM warrants that all of its products are guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. Most Dependable Fountains, Inc.TM liability under this warranty shall be discharged by furnishing without charge any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship. Most Dependable Fountains, Inc.TM will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents. Most Dependable Fountains, Inc.TM will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that Most Dependable Fountains, Inc.TM has made no other warranties either expressed or implied in addition to those above stated. The products manufactured by Most Dependable Fountains, Inc.TM is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended.



**Fix tilt mirror with welded corners:**

- ☐ Standard Model 740-1830 (18" x 30") **Bradex**[®]
- ☐ Standard Model 740-1836 (18" x 36") **Bradex**[®]
- ☐ Standard Model 740-2436 (24" x 36") **Bradex**[®]
- ☐ Model 740-XXXX (Specify width and height)

Product Materials

FRAME: 20 gauge stainless steel, corners welded and ground smooth to satin finish. 20 gauge angle stiffeners welded to frame provide additional rigidity.

BACK: galvanized steel, secured to frame with concealed screws equipped with integral horizontal hanging brackets.

MIRROR: first quality 1/4" float glass, thermosetting infrared-cured paint backing with Poly-Glaze protective finish. Manufactured in accordance with ASTM C 1036 and ASTM C 1503. The back of the mirror is protected by a wedge of extruded polystyrene, which is placed between the mirror and the galvanized steel.

WALL HANGER: 18 gauge cold-rolled steel, all welded construction to form rigid template.

**Optional Features**

Features	Suffix
<input type="checkbox"/> 1/4" tempered glass mirror in lieu of polished float glass mirror*	-2
<input type="checkbox"/> Laminate glass	-3
<input type="checkbox"/> Highly polished No. 8 architectural finish, 20 gauge stainless steel in lieu of polished float glass mirror	-4
<input type="checkbox"/> Bright annealed 20 gauge stainless steel in lieu of polished float glass mirror	-5
<input type="checkbox"/> Plexiglas [®]	-6

*Either the Length (L) or the Width (W) must be greater than 25".

- ☒ An inherent characteristic of a manufacturing process for tempered glass is distortion which may vary from mirror to mirror.
- ☒ Stainless steel mirrors will differ in optic quality from glass mirrors.
- ☒ In larger sizes, stainless mirrors are subject to distortion and/or "oil canning" for which Bradley Corporation cannot accept responsibility.
- ☒ Bradley mirrors are not field interchangeable from horizontal to vertical or vice versa. **Always specify width first.**

Installation

Verify all rough-in dimensions prior to installation. Secure concealed mounting bracket to wall with screws (not included) at holes provided. Provide in-wall backing at mounting screw locations. Position mirror over mounting bracket to engage hanger tabs. Slide mirror down and lock into position.

Orders composed of products indicated as **Bradex**[®] will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

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This information is subject to change without notice.
Bradley_Mirror_740

Guide Specification

Fixed tilt mirror shall be framed with 20 gauge stainless steel with 20 gauge concealed stiffeners. Welded corners shall be polished to a uniform satin finish. Mirror shall be of first quality 1/4" float glass guaranteed for 15 years against silver spoilage and protected by a shock-absorbing, waterproof foam filler with Poly-Glaze protective finish. Back of unit shall be galvanized steel secured to frame with concealed screws, equipped with integral horizontal hanging brackets and separate wall hanger for concealed mounting.

Fixed Tilt Framed Mirror shall be Bradley Model 740-_____ " W x _____ " H (specify width and height).

ADA Compliant

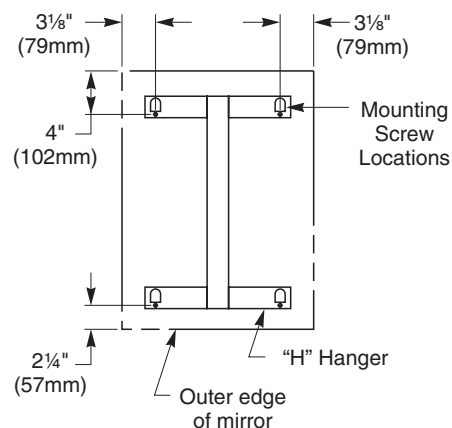
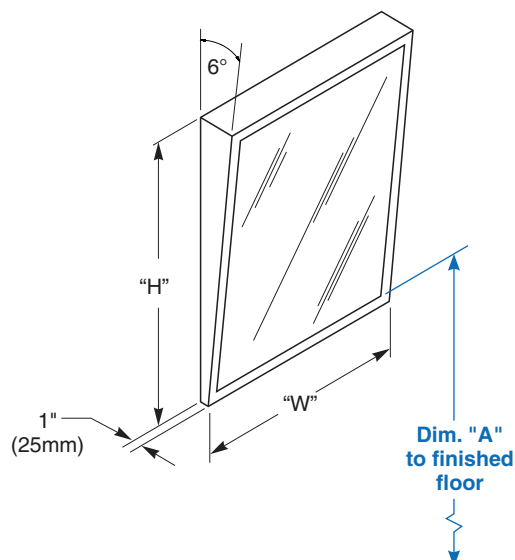
- ☒ Consult local and national accessibility codes for proper installation guidelines.
- ☒ Conformity and compliance to local and national codes is the responsibility of the installer.

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P.O. Box 309, Menomonee Falls, WI 53052-0309
800 BRADLEY (800 272 3539) +1 262 251 6000
bradleycorp.com



Dimensions



Bradex® Models

Width (Inches) W	Height (Inches) H	Overall Dimension (Inches)	Overall Dimensions (Millimeters)	Standard Model Number
18"	30"	18 x 30	457 x 762	740-1830
18"	36"	18 x 36	457 x 914	740-1836
24"	36"	24 x 36	610 x 914	740-2436

Model 740 series angle framed mirrors can be fabricated to a maximum size of 48"W x 48"H.

Dim. "A" Key Surface:	For Dim. "A"	Bottom of Unit
Mirror's bottom edge of the reflecting surface to finished floor	40" (1016mm)	39 1/4" (997mm)
	37" (940mm)	36 1/4" (921mm)
	34" (864mm)	33 1/4" (845mm)
Rough wall opening:		
Surface Mount:	No rough wall opening, see overall dimensions	

Orders composed of products indicated as **Bradex®** will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

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E. BID PROPOSAL FORM

ANOKA COUNTY – LAKE GEORGE PARK PICNIC PAVILIONS AND RESTROOM IMPROVEMENTS

(To be opened and read publicly at Administration Office, 7th Floor, Government Center,
2100 3rd Avenue, Room 710, Anoka, Minnesota, until Thursday, August 29, 2019 at 3:00 PM)

TO: Anoka County, Board of Commissioners
2100 3rd Avenue, Room 710
Anoka, MN 55303

FROM: _____
Firm: _____
Address: _____

DATE: _____

1. The following Bid Proposal is for the above stated project as set forth in the Bidding Documents, Project Manual, all Special Provisions and Exhibits on file in the office of the Anoka County Administrator.
2. This Bid is in accordance with the requirements and terms specified in the Bidding Documents, Project Manual, all Special Provisions and Exhibits which were distributed with this Bid Proposal form, and any Addenda to the above.
3. The Bidder certifies that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.
4. Bidder hereby agrees to execute a contract within fifteen (15) days of mailing of contract.
5. A Bid Security in the amount of 5% of the bid total is enclosed with this proposal.
6. The Bidder acknowledges receipt of Addendum Number(s): _____.
7. Should this Bid Proposal be accepted, Bidder agrees to furnish a Performance Bond and Labor and Materials Bond as specified in the Bidding Documents.
8. Bidder hereby declares that Bidder fully intends to comply with the standards of Affirmative Action and Equal Opportunity Employment and Anti-Discrimination as cited in the Civil Rights Act of 1964 as amended in 1972 by the Equal Employment Opportunity Act, if selected as the successful bidder.
9. The following is Bidder's Affirmative Action Information:
 - a. The number of employees in Bidder's firm: _____
 - b. Bidder's firm has filed an Equal Employment Opportunity Information Report EEO-1 for the period ending December 31, 2018, or most current. ____ YES ____ NO
 - c. Bidder's firm has adopted a written Affirmative Action Program: ____ YES ____ NO
 - d. Bidder's Affirmative Action Program (if any) has been subject to federal equal opportunity review: ____ YES ____ NO

10. Responsible Contractor Compliance

By signing this bid form, I am an Owner or Officer of the firm name listed on the bid form and I verify under oath that as a Prime Contractor I am in compliance with the Responsible Contractor criteria as defined in Minnesota Statute 16C.285, subd. 3.

11. Bidder is strongly encouraged to share and discuss the County insurance requirements with their insurance agent to ensure they have proper coverage. Bidder acknowledges that they have read and can meet the insurance requirements. _____ YES _____ NO

12. Responder must complete the table below. Anoka County may award to multiple vendors in whole or in part, by item, group of items, or by section where such action serves the County's best interests.

PAVILION IMPROVEMENTS						
Item #	Description	Unit	Pavilion 4	Pavilion 5	Pavilion 7	TOTAL FOR ALL 3
1	Pavilion Masonry Base installion per plans and specifications.	EACH				
2	Pavilion Fascia and Wrap installation per plans and specifications	EACH				
3	Pavilion Reroofing per plans and specifications	EACH				
4	TOTAL FOR ALL WORK ON EACH PAVILION	EACH				
RESTROOM IMPROVEMENTS						
Item #	Description	Unit	YMCA Restroom	Pavilion 5/Boat Launch Restroom	Pavilion 6 & 7 Restroom	TOTAL FOR ALL 3
5	Floor Tile Installation	EACH				
6	Wall Tile Installation	EACH				
7	Bathroom Counter Installation; includes demo and removal of existing counter/sink and installation of new counter, lavatory and faucet per plans and specifications.	EACH				
8	Water Closet Installation; includes removal of existing toilet/flush valve and installation of new toilet, flush valve, seat per plans and specifications.	EACH				
9	Urinal Assembly installation; include removal of existing urinal/flush valve and installation of new urinal and flush valve per plans and specifications.	EACH				
10	Partition Wall and Door installation; includes demo and removal of existing walls and installation of new partition doors, walls and hardware per plans and specifications.	EACH				
11	Hand Dryer Installation; includes removal of existing and installation of new hand dryer per plans and specifications.	EACH				
12	Mirror installation; includes removal of existing and installation of new per plans and specifications.	EACH				
13	Drinking Fountain installation; includes the removal of existing fountain and installation of new per plans and specifications.	EACH				
14	Water Heater Installation; includes the removal and disposal of existing heater and installation of new water heater per plans and specifications.	EACH				
15	Water Hammer Arrestor installation per plans and specifications.	EACH				
16	Backflow Preventor installation per plans and specifications.	EACH				
17	TOTAL FOR ALL WORK ON EACH RESTROOM	EACH				

13. Designated person to be contacted for contract administration in the event of an award:
 Name: _____
 Title: _____
 Address: _____
 Telephone: _____
 Email Address: _____

14. References (other than Anoka County): Furnish the following information for 5 commercial/institutional contracts of similar size to this project in the last five years:

Reference No. 1	
Agency or Commercial Firm	
Name of Person to be contacted	
Telephone Number	
Type of Service Provided	
Dollar Amount of Said Service	
Bid Date & Start Date	/
Completion Date	

Reference No. 2	
Agency or Commercial Firm	
Name of Person to be contacted	
Telephone Number	
Type of Service Provided	
Dollar Amount of Said Service	
Bid Date & Start Date	/
Completion Date	

Reference No. 3	
Agency or Commercial Firm	
Name of Person to be contacted	
Telephone Number	
Type of Service Provided	
Dollar Amount of Said Service	
Bid Date & Start Date	/
Completion Date	

Reference No. 4	
Agency or Commercial Firm	
Name of Person to be contacted	
Telephone Number	
Type of Service Provided	
Dollar Amount of Said Service	
Bid Date & Start Date	/
Completion Date	

Reference No. 5	
Agency or Commercial Firm	
Name of Person to be contacted	
Telephone Number	
Type of Service Provided	
Dollar Amount of Said Service	
Bid Date & Start Date	/
Completion Date	

PROPOSAL SUBMITTED BY:

Name of Firm (type or print)

Address _____

Telephone _____

By: _____
Signature

Name (type or print)

Date: _____

For Corporations

_____ Corporate Seal affixed

_____ Proposer's corporation does not
employ a seal

State of Incorporation: _____

For Partnerships

Signatures of Partners:

By: _____
Signature

Name and Address (type or print)

By: _____
Signature

Name and Address (type or print)

EXHIBIT A
CONSTRUCTION/MAINTENANCE
INSURANCE REQUIREMENTS

Bidders/contractors/consultants (hereinafter referred to as the “Contractor”) will procure and maintain for the duration of this Agreement/Contract (hereinafter referred to as the “Contract”), insurance coverage for injuries to persons or damages to property which may arise from or in connection with the performance of the work herein by the contractor, its agents, representatives, employees or subcontractors. **ANOKA COUNTY CONTRACT NUMBER:** _____ .

- 1.1 **Commercial General Liability and Umbrella Liability Insurance.** Contractors will maintain Commercial General Liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$3,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it shall apply separately to this project.
 - 1.1.1 CGL Insurance will be written on ISO occurrence form CG 00 01 12 07 (or a substitute form providing equivalent coverage), and will 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.
 - 1.1.2 **Anoka County**, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees, and volunteers, and all its officers, agents, and consultants, are named as Additional Insured under the CGL, using ISO additional insured endorsement CG 20 10 and CG 20 37 or substitute providing equivalent coverage, and under the commercial umbrella, if any with respect to liability arising out of the contractor’s work and services performed for the County. This coverage shall apply as primary insurance with respect to any other insurance or self insurance programs afforded to the Additional Insured. This includes coverage for Anoka County with respect to liability arising out of the completed operations of contractor.
 - 1.1.3 The status of Anoka County as an insured under a CGL obtained in compliance with paragraph 1.1, shall not restrict coverage under such CGL with respect to the escape or release of pollutants at or from a site owned or occupied by or rented or loaned to the County.
 - 1.1.4 There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, underground property damage, employment related practices, or damage to the named insured’s work.
 - 1.1.5 The County’s insurance will be excess of the contractor’s insurance and will not contribute to it. The contractor’s coverage will contain no special limitations on the scope of protection afforded to the County, its agents, officers, directors, and employees.
 - 1.1.6 **Waiver of Subrogation.** Contractor waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent

these damages are covered by the Commercial General Liability or commercial umbrella liability insurance obtained by Contractor pursuant to Paragraph 1.1.

1.2 **Automobile Liability.** Contractor will maintain automobile liability and, if necessary, commercial umbrella insurance with a limit of not less than \$5,000,000 each accident.

1.2.1 Automobile insurance will cover liability arising out of any auto (including owned, hired and non-owned autos). If the Contractor does not own any vehicles, Anoka County will accept hired and non-owned autos with a letter from the Contractor stating that it does not own any autos.

1.2.2 Coverage as required in paragraph in 1.2 above will be written on ISO form CA 00 01, or substitute form providing equivalent liability coverage. If necessary, the policy will be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later edition of CA 00 01.

1.2.3 Waiver of Subrogation. Contractor waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the business auto liability or commercial umbrella liability insurance obtained by Contractor pursuant to Paragraph 1.2 of this Exhibit.

1.3 **Workers' Compensation Insurance.** Contractor will maintain Workers' Compensation Insurance as required by the State of Minnesota and Employers Liability Insurance with a limits not less than \$1,000,000 Bodily Injury By Accident for each accident, not less than \$1,000,000 Bodily Injury By Disease each employee and not less than \$1,000,000 Bodily Injury By Disease policy limit.

1.3.1 If Contractor is not required by Statute to carry Workers' Compensation insurance, Contractor must provide a letter on their letterhead which includes:

1.3.1.1 Provide evidence why the contractor is not required to obtain Workers' Compensation Insurance.

1.3.1.2 A statement in writing which agrees to provide notice to Anoka County of any change in Contractor's exception status under the Minnesota State Statutes 176.041; and

1.3.1.3 A statement which agrees to hold Anoka County harmless and indemnify the County from and against any and all claims and losses brought by Contractor or any subcontractor or other persons claiming injury or illness resulting from performance of work this contract.

1.3.2 Waiver of Subrogation. Contractor waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the workers compensation and employer's liability or commercial umbrella liability insurance obtained by Contractor pursuant to Paragraph 1.4 of this Exhibit. Lessee will obtain an endorsement equivalent to WC 00 03 13 to affect this waiver.

- 1.4 **Builders' Risk Insurance.** Anoka County will maintain Builders' Risk Insurance for this project. Contractor will be responsible for the \$25,000.00 deductible.
- 1.5 **Other Insurance Provisions**
- 1.5.1 **Prior to the start of this Contract,** Contractor will furnish Anoka County with completed copies of their certificate(s) of insurance, copies of the additional insured endorsement(s), waivers of subrogation, and any other request documents, dated within two weeks of awarding of the contract, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.
- 1.5.2 Cancellation and Material Change Endorsement shall be included on all insurance policies required by the County. Thirty (30) days Advance Written Notice of Cancellation, Non-Renewal, Reduction in insurance coverage and/or limits and ten (10) days written notice of non-payment of premium shall be sent to the County at the office and attention of the Certificate Holder. This endorsement supersedes the Standard Cancellation Statement on Certifications of Insurance to which this endorsement is attached.
- 1.5.3 **No Representation of Coverage Adequacy.** By requiring insurance herein, Anoka County does not represent that coverage and limits will necessarily be adequate to protect the Contractor and such coverage and limits shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Anoka County in this Contract.
- 1.5.4 Failure of Anoka County to demand such certification or other evidence of full compliance with these insurance requirements or failure of Anoka County to identify deficiency from evidence that is provided will not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.5.5 Failure to maintain the required insurance may result in termination of this Contract at Anoka County option.
- 1.5.6 Contractor will provide certified copies of all insurance policies required herein within 10 days if requested in writing by Anoka County.
- 1.5.7 Cross-Liability coverage. If Contractor's liability policies do not contain the standard ISO separation of insured condition, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.
- 1.5.8 Any policy written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy proceeds the effective dates of this contract; and that continuous coverage will be maintained or extended discovery period of 2 years beginning from the time that work under the contract is completed.
- 1.5.9 Acceptability of Insurer(s). Anoka County reserves the right to reject any insurance carriers that are rated less than: A.M. Best rating of A: IV.

1.5.10 If Contractor fails to maintain the insurance as set forth herein, Anoka County shall have the right, but not the obligation, to purchase said insurance at the Contractor's expense.

Exhibit B – SAMPLE BID AGREEMENT

Anoka County Contract No. _____

AGREEMENT

THIS AGREEMENT is made this _____ day of _____, 20____, the date of the signature of the parties notwithstanding, between the County of Anoka, a political subdivision of the State of Minnesota, Anoka County Government Center, 2100 Third Avenue, Anoka, Minnesota 55303, hereinafter referred to as the "County," and _____, hereinafter referred to as the "Contractor."

WITNESSETH:

WHEREAS, the County has caused bid proposals to be submitted for _____;
and

WHEREAS, the County has awarded said bid to the Contractor.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the County and Contractor hereby enter into the following Contract:

I. CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement; the Bidding Documents, including all exhibits; the completed Bid Proposal Form submitted by Contractor; and all Addenda issued prior to and all Modifications issued after execution of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein. Contractor understands that all references to "Bidder" or "Responder" or "Proposer" or "Vendor" in the Contract Documents now refer to Contractor.

ATTACH CONTRACTOR'S PROPOSAL/BID AS EXHIBIT A
ATTACH INSURANCE REQUIREMENTS AS EXHIBIT B

II. SERVICES

Contractor hereby covenants and agrees to perform all services and provide all personnel and equipment for the price and compensation under all terms and requirements set forth and specified in the Contract Documents.

III. TERM

The work to be performed under this Agreement shall be commenced immediately upon receipt of the signed Agreement; issuance and approval of the performance bond and labor and materials payment bond; issuance and approval of the certificate of insurance and required endorsements and waivers; and issuance of the notice to proceed. Subject to authorized adjustments, Substantial Completion and Final Completion shall be achieved not later than as provided for in the Contract Documents.

IV. CONTRACT SUM

The Contract Sum shall be as specified in the Bid Proposal Form submitted by Contractor. Contractor's Bid Proposal Form is attached hereto and incorporated herein as Exhibit A. For these services, the County shall pay the Contractor a total sum not to exceed \$.

V. INSURANCE REQUIREMENTS

The County's Insurance Requirements for this project are attached hereto and incorporated herein as Exhibit B.

VI. MODIFICATIONS

Any material alterations, modifications or variations of the terms of this Agreement shall be valid and enforceable only when they have been reduced to writing as an amendment and signed by the parties.

VIII. COUNTERPARTS

This Agreement may be executed in any number of counterparts, each one of which shall be deemed to be an original, but all such counterparts together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Contract on the date so indicated.

COUNTY OF ANOKA

By: _____
Jerry Soma
County Administrator

Dated: _____

By: _____

Its: _____

Dated: _____

APPROVED AS TO FORM

By: _____
Christine V. Carney
Assistant County Attorney

Dated: _____

By: _____

Its: _____

Dated: _____

EXHIBIT C - RESPONSIBLE CONTRACTOR ACT VERIFICATION FORM

Re: _____
[Project Name and Number]

The undersigned owner/officer of _____ ("Company") hereby certifies that it complies with each of the minimum criteria in Minn. Stat. § 16C.285, subd. 3, as of the time of the submission of its bid for the above-referenced project ("Project").

The first-tier Subcontractors that Company intends to retain for work on the Project are:

- _____
- _____
- _____

The first-tier Subcontractors listed above have provided verification required by Minn. Stat. § 16C.285, subd. 3(7).

The remaining first-tier subcontractors that Company intends to retain for work on the Project have not yet been determined. Company will obtain and submit signed verifications from each of its subsequently retained subcontractors, confirming compliance with Minn. Stat. § 16C.285, subd. 3, within 14 days of retaining the subcontractors.

Dated: _____

Company

By: _____

Its: _____

Owner/Officer

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

Notary Public

Exhibit D

MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY PREVAILING WAGES FOR STATE FUNDED
CONSTRUCTION PROJECTS



THIS NOTICE MUST BE POSTED ON THE JOBSITE IN A CONSPICUOUS PLACE

Construction Type: Commercial

County Number: 02

County Name: ANOKA

Effective: 2018-12-17 Revised: 2019-01-28

This project is covered by Minnesota prevailing wage statutes. Wage rates listed below are the minimum hourly rates to be paid on this project.

All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at a rate of one and one half (1 1/2) times the basic hourly rate.

Violations should be reported to:

Department of Labor and Industry
Prevailing Wage Section
443 Lafayette Road N
St Paul, MN 55155
(651) 284-5091
DLI.PrevWage@state.mn.us

* Indicates that adjacent county rates were used for the labor class listed.

County: ANOKA (02)

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
LABORERS (101 - 112) (SPECIAL CRAFTS 701 - 730)					
101	LABORER, COMMON (GENERAL LABOR WORK)	2018-12-17	34.11	19.64	53.75
102	LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2018-12-17	34.11	19.64	53.75

103*	LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2018-12-17	23.02	15.99	39.01
		2019-05-01	24.00	16.96	40.96
104*	FLAG PERSON	2018-12-17	34.11	19.64	53.75
105*	WATCH PERSON	2018-12-17	30.48	19.29	49.77
106*	BLASTER	2018-12-17	34.26	18.54	52.80
107	PIPELAYER (WATER, SEWER AND GAS)	2018-12-17	34.15	19.64	53.79
		2019-05-01	35.30	20.44	55.74
108*	TUNNEL MINER	2018-12-17	32.35	19.64	51.99
		2019-05-01	33.50	20.44	53.94
109	UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2018-12-17	32.35	19.64	51.99
		2019-05-01	33.50	20.44	53.94
110*	SURVEY FIELD TECHNICIAN (OPERATE TOTAL STATION, GPS RECEIVER, LEVEL, ROD OR RANGE POLES, STEEL TAPE MEASUREMENT; MARK AND DRIVE STAKES; HAND OR POWER DIGGING FOR AND IDENTIFICATION OF MARKERS OR MONUMENTS; PERFORM AND CHECK CALCULATIONS; REVIEW AND UNDERSTAND CONSTRUCTION PLANS AND LAND SURVEY MATERIALS). THIS CLASSIFICATION DOES NOT APPLY TO THE WORK PERFORMED ON A PREVAILING WAGE PROJECT BY A LAND SURVEYOR WHO IS LICENSED PURSUANT TO MINNESOTA STATUTES, SECTIONS 326.02 TO 326.15.	2018-12-17	34.11	19.64	53.75
111*	TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE)	2018-12-17	34.11	19.64	53.75
SPECIAL EQUIPMENT (201 - 204)					
201*	ARTICULATED HAULER	2018-12-17	37.83	18.65	56.48
202*	BOOM TRUCK	2018-12-17	38.13	20.30	58.43

203*	LANDSCAPING EQUIPMENT, INCLUDES HYDRO SEEDER OR MULCHER, SOD ROLLER, FARM TRACTOR WITH ATTACHMENT SPECIFICALLY SEEDING, SODDING, OR PLANT, AND TWO-FRAMED FORKLIFT (EXCLUDING FRONT, POSIT-TRACK, AND SKID STEER LOADERS), NO EARTHWORK OR GRADING FOR ELEVATIONS	2018-12-17	23.02	15.99	39.01
		2019-05-01	24.00	16.96	40.96
204	OFF-ROAD TRUCK	2018-12-17	31.37	16.70	48.07
205*	PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS.	2018-12-17	37.05	19.39	56.44

HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR

GROUP 2		2018-12-17	35.54	19.70	55.24
306	GRADER OR MOTOR PATROL				
308	TUGBOAT 100 H.P. AND OVER WHEN LICENSE REQUIRED (HIGHWAY AND HEAVY ONLY)				
GROUP 3 *		2018-12-17	27.45	6.76	34.21
309	ASPHALT BITUMINOUS STABILIZER PLANT				
310	CABLEWAY				
312	DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY)				
314	DREDGE OR ENGINEERS, DREDGE (POWER) AND ENGINEER				
316	LOCOMOTIVE CRANE OPERATOR				
320	TANDEM SCRAPER				
322	TUGBOAT 100 H.P AND OVER (HIGHWAY AND HEAVY ONLY)				
GROUP 4		2018-12-17	36.04	20.30	56.34
		2019-05-01	37.79	20.50	58.29
323	AIR TRACK ROCK DRILL				
324	AUTOMATIC ROAD MACHINE (CMI OR SIMILAR) (HIGHWAY AND HEAVY ONLY)				
325	BACKFILLER OPERATOR				

- 327 BITUMINOUS ROLLERS, RUBBER TIRED OR STEEL DRUMMED (EIGHT TONS AND OVER)
- 328 BITUMINOUS SPREADER AND FINISHING MACHINES (POWER), INCLUDING PAVERS, MACRO SURFACING AND MICRO SURFACING, OR SIMILAR TYPES (OPERATOR AND SCREED PERSON)
- 329 BROKK OR R.T.C. REMOTE CONTROL OR SIMILAR TYPE WITH ALL ATTACHMENTS
- 330 CAT CHALLENGER TRACTORS OR SIMILAR TYPES PULLING ROCK WAGONS, BULLDOZERS AND SCRAPERS
- 331 CHIP HARVESTER AND TREE CUTTER
- 332 CONCRETE DISTRIBUTOR AND SPREADER FINISHING MACHINE, LONGITUDINAL FLOAT, JOINT MACHINE, AND SPRAY MACHINE
- 334 CONCRETE MOBIL (HIGHWAY AND HEAVY ONLY)
- 335 CRUSHING PLANT (GRAVEL AND STONE) OR GRAVEL WASHING, CRUSHING AND SCREENING PLANT
- 336 CURB MACHINE
- 337 DIRECTIONAL BORING MACHINE
- 338 DOPE MACHINE (PIPELINE)
- 340 DUAL TRACTOR
- 341 ELEVATING GRADER
- 345 GPS REMOTE OPERATING OF EQUIPMENT
- 347 HYDRAULIC TREE PLANTER
- 348 LAUNCHER PERSON (TANKER PERSON OR PILOT LICENSE)
- 349 LOCOMOTIVE (HIGHWAY AND HEAVY ONLY)
- 350 MILLING, GRINDING, PLANNING, FINE GRADE, OR TRIMMER MACHINE
- 352 PAVEMENT BREAKER OR TAMPING MACHINE (POWER DRIVEN) MIGHTY MITE OR SIMILAR TYPE
- 354 PIPELINE WRAPPING, CLEANING OR BENDING MACHINE
- 356 POWER ACTUATED HORIZONTAL BORING MACHINE, OVER SIX INCHES
- 357 PUGMILL
- 359 RUBBER-TIRED FARM TRACTOR WITH BACKHOE INCLUDING ATTACHMENTS (HIGHWAY AND HEAVY ONLY)
- 360 SCRAPER
- 361 SELF-PROPELLED SOIL STABILIZER
- 362 SLIP FORM (POWER DRIVEN) (PAVING)
- 363 TIE TAMPER AND BALLAST MACHINE
- 365 TRACTOR, WHEEL TYPE, OVER 50 H.P. WITH PTO UNRELATED TO LANDSCAPING (HIGHWAY AND HEAVY ONLY)
- 367 TUB GRINDER, MORBARK, OR SIMILAR TYPE

GROUP 5 *

2018-12-17 31.65 19.70 51.35

370	BITUMINOUS ROLLER (UNDER EIGHT TONS)				
371	CONCRETE SAW (MULTIPLE BLADE) (POWER OPERATED)				
372	FORM TRENCH DIGGER (POWER)				
375	HYDRAULIC LOG SPLITTER				
376	LOADER (BARBER GREENE OR SIMILAR TYPE)				
377	POST HOLE DRIVING MACHINE/POST HOLE AUGER				
379	POWER ACTUATED JACK				
381	SELF-PROPELLED CHIP SPREADER (FLAHERTY OR SIMILAR)				
382	SHEEP FOOT COMPACTOR WITH BLADE . 200 H.P. AND OVER				
383	SHOULDERING MACHINE (POWER) APSCO OR SIMILAR TYPE INCLUDING SELF-PROPELLED SAND AND CHIP SPREADER				
384	STUMP CHIPPER AND TREE CHIPPER				
385	TREE FARMER (MACHINE)				
GROUP 6 *		2018-12-17	31.79	20.30	52.09
		2019-05-01	33.54	20.50	54.04
387	CAT, CHALLENGER, OR SIMILAR TYPE OF TRACTORS, WHEN PULLING DISK OR ROLLER				
389	DREDGE DECK HAND				
391	GRAVEL SCREENING PLANT (PORTABLE NOT CRUSHING OR WASHING)				
393	LEVER PERSON				
395	POWER SWEEPER				
396	SHEEP FOOT ROLLER AND ROLLERS ON GRAVEL COMPACTION, INCLUDING VIBRATING ROLLERS				
397	TRACTOR, WHEEL TYPE, OVER 50 H.P., UNRELATED TO LANDSCAPING				
COMMERCIAL POWER EQUIPMENT OPERATOR					
GROUP 1		2018-12-17	41.14	20.30	61.44
501	HELICOPTER PILOT (COMMERCIAL CONSTRUCTION ONLY)				
502	TOWER CRANE 250 FEET AND OVER (COMMERCIAL CONSTRUCTION ONLY)				
503	TRUCK CRAWLER CRANE WITH 200 FEET OF BOOM AND OVER, INCLUDING JIB (COMMERCIAL CONSTRUCTION ONLY)				
GROUP 2 *		2018-12-17	40.80	20.30	61.10
504	CONCRETE PUMP WITH 50 METERS/164 FEET OF BOOM AND OVER (COMMERCIAL CONSTRUCTION ONLY)				
505	PILE DRIVING WHEN THREE DRUMS IN USE (COMMERCIAL CONSTRUCTION ONLY)				

506	TOWER CRANE 200 FEET AND OVER (COMMERCIAL CONSTRUCTION ONLY)				
507	TRUCK OR CRAWLER CRANE WITH 150 FEET OF BOOM UP TO AND NOT INCLUDING 200 FEET, INCLUDING JIB (COMMERCIAL CONSTRUCTION ONLY)				
GROUP 3		2018-12-17	39.39	20.30	59.69
508	ALL-TERRAIN VEHICLE CRANES (COMMERCIAL CONSTRUCTION ONLY)				
509	CONCRETE PUMP 32-49 METERS/102-164 FEET (COMMERCIAL CONSTRUCTION ONLY)				
510	DERRICK (GUY & STIFFLEG) (COMMERCIAL CONSTRUCTION ONLY)				
511	STATIONARY TOWER CRANE UP TO 200 FEET				
512	SELF-ERECTING TOWER CRANE 100 FEET AND OVER MEASURED FROM BOOM FOOT PIN (COMMERCIAL CONSTRUCTION ONLY)				
513	TRAVELING TOWER CRANE (COMMERCIAL CONSTRUCTION ONLY)				
514	TRUCK OR CRAWLER CRANE UP TO AND NOT INCLUDING 150 FEET OF BOOM, INCLUDING JIB (COMMERCIAL CONSTRUCTION ONLY)				
GROUP 4		2018-12-17	39.05	20.30	59.35
515	CRAWLER BACKHOE INCLUDING ATTACHMENTS (COMMERCIAL CONSTRUCTION ONLY)				
516	FIREPERSON, CHIEF BOILER LICENSE (COMMERCIAL CONSTRUCTION ONLY)				
517	HOIST ENGINEER (THREE DRUMS OR MORE) (COMMERCIAL CONSTRUCTION ONLY)				
518	LOCOMOTIVE (COMMERCIAL CONSTRUCTION ONLY)				
519	OVERHEAD CRANE (INSIDE BUILDING PERIMETER) (COMMERCIAL CONSTRUCTION ONLY)				
520	TRACTOR . BOOM TYPE (COMMERCIAL CONSTRUCTION ONLY)				
GROUP 5		2018-12-17	38.13	20.30	58.43
521	AIR COMPRESSOR 450 CFM OR OVER (TWO OR MORE MACHINES) (COMMERCIAL CONSTRUCTION ONLY)				
522	CONCRETE MIXER (COMMERCIAL CONSTRUCTION ONLY)				
523	CONCRETE PUMP UP TO 31 METERS/101 FEET OF BOOM				
524	DRILL RIGS, HEAVY ROTARY OR CHURN OR CABLE DRILL WHEN USED FOR CAISSON FOR ELEVATOR OR BUILDING CONSTRUCTION (COMMERCIAL CONSTRUCTION ONLY)				
525	FORKLIFT (COMMERCIAL CONSTRUCTION ONLY)				
526	FRONT END, SKID STEER 1 C YD AND OVER				
527	HOIST ENGINEER (ONE OR TWO DRUMS) (COMMERCIAL CONSTRUCTION ONLY)				
528	MECHANIC-WELDER (ON POWER EQUIPMENT) (COMMERCIAL CONSTRUCTION ONLY)				
529	POWER PLANT (100 KW AND OVER OR MULTIPLES EQUAL TO 100KW AND OVER) (COMMERCIAL CONSTRUCTION ONLY)				
530	PUMP OPERATOR AND/OR CONVEYOR (TWO OR MORE MACHINES) (COMMERCIAL CONSTRUCTION ONLY)				

- 531 SELF-ERECTING TOWER CRANE UNDER 100 FEET MEASURED FROM BOOM FOOT PIN
(COMMERCIAL CONSTRUCTION ONLY)
- 532 STRADDLE CARRIER (COMMERCIAL CONSTRUCTION ONLY)
- 533 TRACTOR OVER D2 (COMMERCIAL CONSTRUCTION ONLY)
- 534 WELL POINT PUMP (COMMERCIAL CONSTRUCTION ONLY)

GROUP 6	2018-12-17	36.62	20.30	56.92
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- 535 CONCRETE BATCH PLANT (COMMERCIAL CONSTRUCTION ONLY)
- 536 FIREPERSON, FIRST CLASS BOILER LICENSE (COMMERCIAL CONSTRUCTION ONLY)
- 537 FRONT END, SKID STEER UP TO 1 C YD
- 538 GUNITE MACHINE (COMMERCIAL CONSTRUCTION ONLY)
- 539 TRACTOR OPERATOR D2 OR SIMILAR SIZE (COMMERCIAL CONSTRUCTION ONLY)
- 540 TRENCHING MACHINE (SEWER, WATER, GAS) EXCLUDES WALK BEHIND TRENCHER

GROUP 7	2018-12-17	35.50	20.30	55.80
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- 541 AIR COMPRESSOR 600 CFM OR OVER (COMMERCIAL CONSTRUCTION ONLY)
- 542 BRAKEPERSON (COMMERCIAL CONSTRUCTION ONLY)
- 543 CONCRETE PUMP/PUMPCRETE OR COMPLACO TYPE (COMMERCIAL CONSTRUCTION ONLY)
- 544 FIREPERSON, TEMPORARY HEAT SECOND CLASS BOILER LICENSE (COMMERCIAL
CONSTRUCTION ONLY)
- 545 OILER (POWER SHOVEL, CRANE, TRUCK CRANE, DRAGLINE, CRUSHERS AND MILLING
MACHINES, OR OTHER SIMILAR POWER EQUIPMENT) (COMMERCIAL CONSTRUCTION ONLY)
- 546 PICK UP SWEEPER (ONE CUBIC YARD HOPPER CAPACITY) (COMMERCIAL CONSTRUCTION
ONLY)
- 547 PUMP AND/OR CONVEYOR (COMMERCIAL CONSTRUCTION ONLY)

GROUP 8 *	2018-12-17	33.49	20.30	53.79
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- 548 ELEVATOR OPERATOR (COMMERCIAL CONSTRUCTION ONLY)
- 549 GREASER (COMMERCIAL CONSTRUCTION ONLY)
- 550 MECHANICAL SPACE HEATER (TEMPORARY HEAT NO BOILER LICENSE REQUIRED)
(COMMERCIAL CONSTRUCTION ONLY)

TRUCK DRIVERS

GROUP 1 *	2018-12-17	23.65	6.76	30.41
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- 601 MECHANIC . WELDER
- 602 TRACTOR TRAILER DRIVER

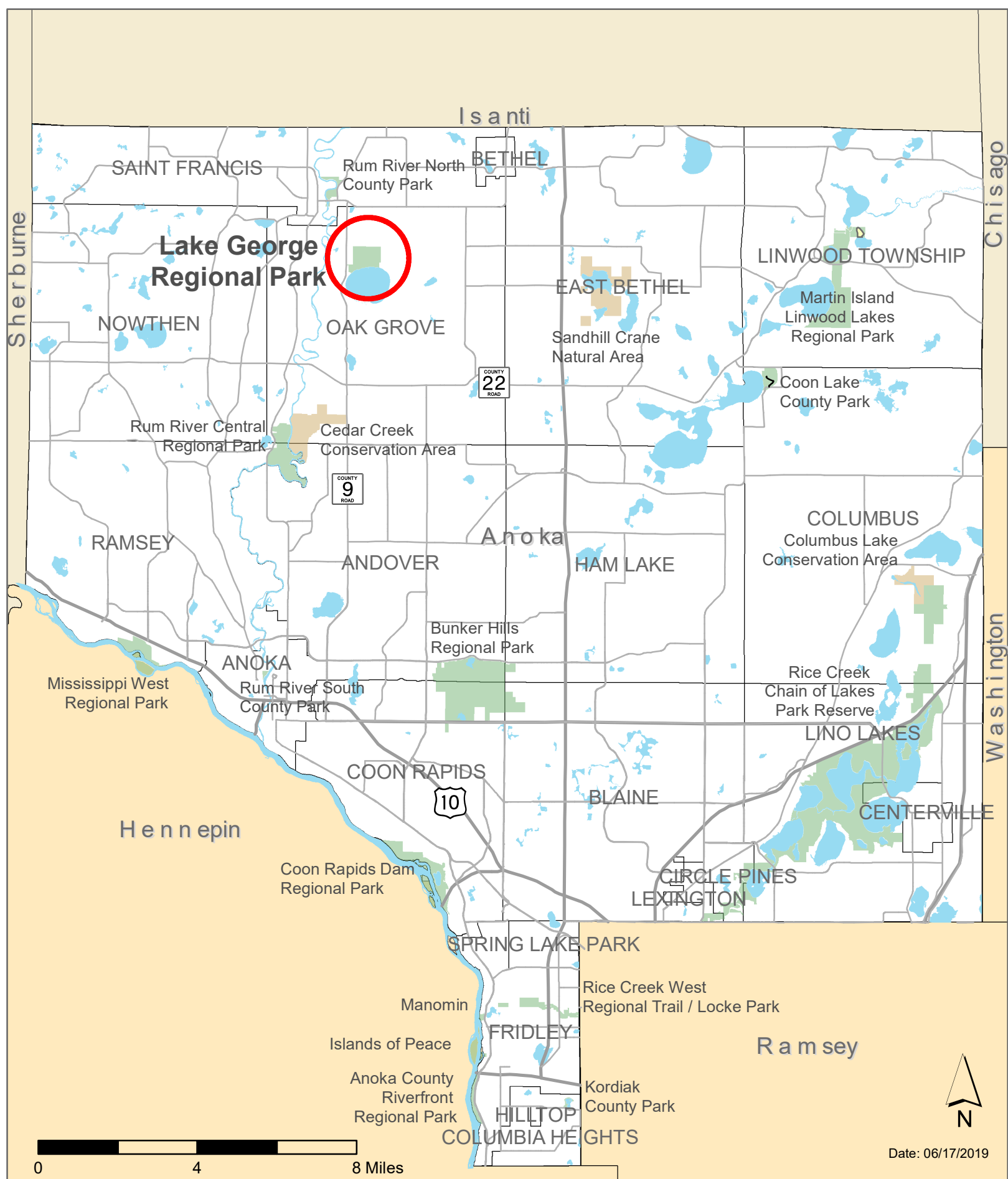
603	TRUCK DRIVER (HAULING MACHINERY INCLUDING OPERATION OF HAND AND POWER OPERATED WINCHES)				
GROUP 2 *		2018-12-17	18.75	6.76	25.51
604	FOUR OR MORE AXLE UNIT, STRAIGHT BODY TRUCK				
GROUP 3 *		2018-12-17	22.35	6.76	29.11
605	BITUMINOUS DISTRIBUTOR DRIVER				
606	BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607	THREE AXLE UNITS				
GROUP 4 *		2018-12-17	28.00	9.56	37.56
608	BITUMINOUS DISTRIBUTOR SPRAY OPERATOR (REAR AND OILER)				
609	DUMP PERSON				
610	GREASER				
611	PILOT CAR DRIVER				
612	RUBBER-TIRED, SELF-PROPELLED PACKER UNDER 8 TONS				
613	TWO AXLE UNIT				
614	SLURRY OPERATOR				
615	TANK TRUCK HELPER (GAS, OIL, ROAD OIL, AND WATER)				
616	TRACTOR OPERATOR, UNDER 50 H.P.				
SPECIAL CRAFTS					
701	HEATING AND FROST INSULATORS	2018-12-17	44.60	24.40	69.00
		2019-06-01	47.10	24.40	71.50
702*	BOILERMAKERS	2018-12-17	37.22	27.14	64.36
		2019-01-01	38.33	27.43	65.76
703	BRICKLAYERS	2018-12-17	38.76	20.87	59.63
704	CARPENTERS	2018-12-17	37.18	21.45	58.63
705	CARPET LAYERS (LINOLEUM)	2018-12-17	37.84	19.19	57.03
706	CEMENT MASONS	2018-12-17	38.41	19.67	58.08

707	ELECTRICIANS	2018-12-17	42.28	29.07	71.35
		2019-05-01	45.23	29.07	74.30
708	ELEVATOR CONSTRUCTORS	2018-12-17	48.36	32.65	81.01
		2019-01-01	49.91	39.24	89.15
709	GLAZIERS	2018-12-17	41.19	18.54	59.73
710*	LATHERS	2018-12-17	38.47	20.18	58.65
712	IRONWORKERS	2018-12-17	37.10	27.85	64.95
714	MILLWRIGHT	2018-12-17	35.13	24.98	60.11
715	PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2018-12-17	36.75	21.24	57.99
716*	PILEDRIIVER (INCLUDING VIBRATORY DRIVER OR EXTRACTOR FOR PILING AND SHEETING OPERATIONS)	2018-12-17	38.01	21.08	59.09
		2019-05-01	39.96	21.08	61.04
717	PIPEFITTERS . STEAMFITTERS	2018-12-17	45.82	27.37	73.19
718	PLASTERERS	2018-12-17	38.96	19.45	58.41
719	PLUMBERS	2018-12-17	46.91	23.79	70.70
		2019-05-01	49.66	23.79	73.45
720	ROOFER	2018-12-17	36.26	17.46	53.72
721	SHEET METAL WORKERS	2018-12-17	43.31	27.72	71.03
		2019-05-01	45.91	27.72	73.63
722	SPRINKLER FITTERS	2018-12-17	45.28	26.55	71.83

		2019-01-01	45.08	26.75	71.83
		2019-06-01	47.93	26.75	74.68
723	TERRAZZO WORKERS	2018-12-17	38.91	19.40	58.31
724	TILE SETTERS	2018-12-17	33.55	24.44	57.99
725	TILE FINISHERS	2018-12-17	28.23	19.12	47.35
726	DRYWALL TAPER	2018-12-17	34.51	22.28	56.79
727	WIRING SYSTEM TECHNICIAN	2018-12-17	38.97	17.14	56.11
		2019-07-01	40.17	17.14	57.31
728	WIRING SYSTEMS INSTALLER	2018-12-17	27.30	14.31	41.61
		2019-07-01	28.14	14.31	42.45
729*	ASBESTOS ABATEMENT WORKER	2018-12-17	31.68	18.71	50.39
		2019-01-01	32.68	19.66	52.34
730*	SIGN ERECTOR	2018-12-17	28.80	14.92	43.72
		2019-06-01	30.45	14.92	45.37

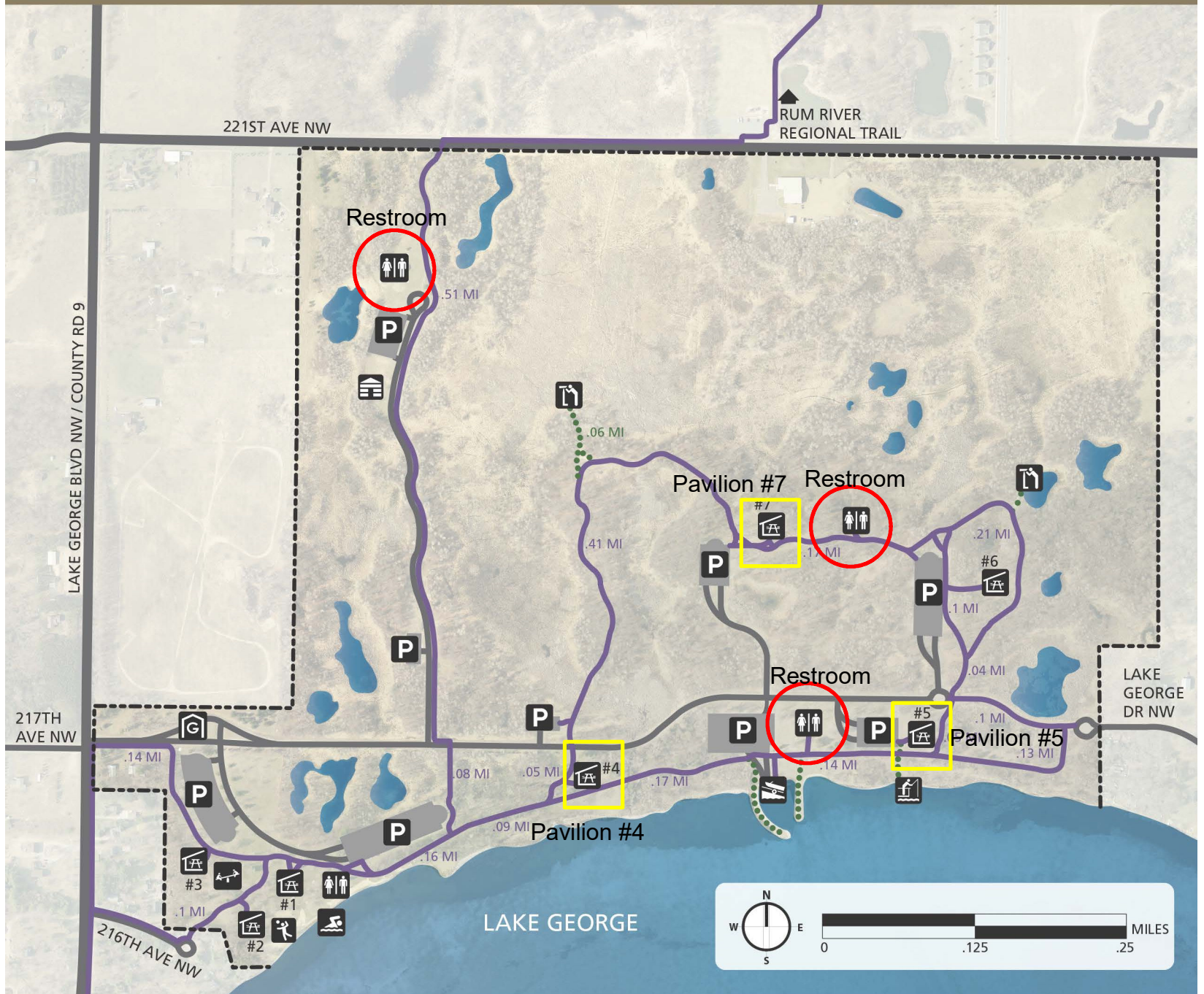
Exhibit E

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Project Location Map County Context

LAKE GEORGE REGIONAL PARK



- | | | |
|--------------------------------------|-------------------|----------------------------------|
| ----- PARK BOUNDARY | GATE HOUSE / INFO | VIEWING AREA |
| ===== PAVED ROADS | PARKING LOT | FISHING PIER / OBSERVATION DECK |
| ===== PAVED TRAILS / REGIONAL TRAILS | PLAYGROUND | BEACH |
| NATURAL SURFACE TRAILS | PICNIC PAVILION | SAND VOLLEYBALL COURT |
| | RESTROOMS | CAMP ROBINSON -
YMCA DAY CAMP |
| | BOAT LAUNCH | |

*NOTE: TRAIL DISTANCES ARE SHOWN FOR SEGMENTS WITHIN THE PARK AND BETWEEN TRAIL INTERSECTIONS OF THE SAME TRAIL SURFACE TYPE.

Project Location Map Park Context