

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**



**REQUEST FOR QUOTATION**

**DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING AT  
DPS 10 (9600 Haynes Blvd.)**

**SWBNO PROJECT 2023-SWB-72 (ME 23-0031)**

**QUOTATION DUE DATE: October 26, 2023  
QUOTATION TIME: 11:00 A.M., LOCAL TIME**

**QUOTE OF:**

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**(CONTRACTOR'S NAME)**

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**(CONTRACTOR'S LICENSE)**

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## INSTRUCTIONS FOR SUBMITTING QUOTATIONS

1. Submit “PART 1, QUOTATION FORMS” only as your quote.
2. Retain “PART 2, SPECIAL PROVISIONS AND CONTRACT DOCUMENTS” for your records.

# PART 1

## SEWERAGE AND WATER BOARD OF NEW ORLEANS

### CONSTRUCTION QUOTATION FORM

#### **DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING AT DPS 10 (9600 Haynes Blvd.)**

#### **SWBNO PROJECT ME 23-0031**

Quotations will be received up to 11:00 A.M., Local Time, **on October 26, 2023**, by the Purchasing Department, Room 133, 625 St. Joseph Street, New Orleans, LA 70165, Attn: Shelita Sells or via email at [ssells2@swbno.org](mailto:ssells2@swbno.org). No responses will be considered for award after 11:00 A.M.

I (We) hereby agree to furnish all materials, tools, equipment, and labor to perform the work required for the construction of the following project:

#### **DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING AT DPS 10 (9600 Haynes Blvd.)**

as set forth in the following documents:

1. Request for Quotation
2. Construction Quotation Form
3. Special Provisions/Technical Specifications
4. Agreement
5. The Construction Drawings
6. The Standard Specifications
7. The following enumerated addenda: A and B

The undersigned, as vendor, declares that the only persons or parties interested in this quotation as principals are those named herein; that this response is made without collusion or combination of any kind or character with any other person, firm, association or corporation, or any member or official thereof, that he has carefully examined the site of the proposed work, the plans, Standard Specifications and Special Provisions above mentioned, and the form of contract and contract bond; that he proposes, and agrees, if this response is accepted to provide all necessary machinery, tools, apparatus, and other means of construction and will do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed and in accordance with the requirements of the Engineer as therein set forth; and that he hereby proposes to accept as full compensation there for the summation of the quantities of work and material actually incorporated in the complete project, as determined by the Engineer, multiplied by the respective unit prices shown on the schedule of quote items when applicable, or per the lump sum price, herein quote.

The undersigned proposes to perform all extra and force account work that may be required on the basis provided in the specifications, to give such work his personal attention and to secure economic performance.

The undersigned further agrees that the quote is firm for a period of sixty (60 days) from the opening of quotations and no response can be withdrawn for any reason during this period of time.

The undersigned further agrees that within fifteen (15) days after notice that the Parish has been authorized to enter into a contract, he will execute the agreement and furnish to the SWBNO all insurance certificates required by Contract. The Contractor shall also furnish a satisfactory performance and payment bond, said bond to be in an amount equal to the amount of the contract and shall guarantee the faithful performance of the contract for contracts **\$25,000 and greater**.

The undersigned further agrees that the work will begin no later than fourteen (14) calendar days after the date of the Notice to Proceed and shall be diligently prosecuted at such rate and in such manner as necessary for the completion of the work within the time specified in the agreement.

If this quotation is valued at \$25,000 and greater, accompanying this response is a certified check, cashier's check or a bid bond which represents **Five Percent (5%)** of the amount of the quote, payable to the SWBNO. If this response shall be accepted and the undersigned shall fail to exercise the contract and furnish performance and payment surety bond as provided above, then the bid security shall be forfeited.

Respectfully submitted,

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(Signature)

**THE ATTACHED SHEET MUST BE COMPLETED TO INDICATE WHETHER VENDOR IS AN INDIVIDUAL, UNINCORPORATED FIRM OR A CORPORATION.**

**THE ATTACHED BID BOND SHEET MUST BE COMPLETED IF A BID BOND, IN LIEU OF A CERTIFIED CHECK OR CASHIERS CHECK, ACCOMPANIES THIS QUOTE.**

**PART 1**  
**CORPORATE RESOLUTION**

A meeting of the Board of Directors of \_\_\_\_\_, a Corporation organized under the laws of the State of \_\_\_\_\_ and domiciled in \_\_\_\_\_, was held this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, and was attended by a quorum of the members of the Board of Directors.

The following resolution was offered, duly seconded and, after discussion, was unanimously adopted by said quorum:

**BE IT RESOLVED**, that \_\_\_\_\_ is hereby authorized to submit quotations and execute agreements on behalf of this corporation with the Sewerage & Water Board of New Orleans.

**BE IT FURTHER RESOLVED**, that said authorization and appointment shall remain in full force and effect, unless revoked by resolution of this Board of Directors and that said revocation will not take effect until the Procurement Director of the SWBNO, shall have been furnished a copy of said resolution, duly certified.

I, \_\_\_\_\_, hereby certify that I am the Secretary of \_\_\_\_\_, a corporation created under the laws of the State of \_\_\_\_\_ domiciled in \_\_\_\_\_; that the foregoing is a true and exact copy of a resolution adopted by a quorum of the Board of Directors of said corporation at a meeting legally called and held on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, as said resolution appears of record in the Official Minutes of the Board of Directors in my possession. This \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Secretary

**PART 1**  
**CONSTRUCTION QUOTATION FORM**

**BID BOND**  
**(Required for Quotes \$25,000 and greater)**

That we, the undersigned, \_\_\_\_\_, as Principal (Vendor), and \_\_\_\_\_ as Surety, are hereby held and firmly bound unto the \_\_\_\_\_ and SWBNO as Owner, in the penal sum of five percent (5%) of the amount bid for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Owner a certain Bid, attached hereto and hereby made a part hereof to enter into an Agreement in writing, for:

**DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING AT**  
**DPS 10 (9600 Haynes Blvd.)**

**NOW THEREFORE,**

- (a) If said Bid or quotation shall be rejected, or in the alternative,
- (b) If said Bid or quotation shall be accepted and the Principal shall execute and deliver a Contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish bonds for his faithful performance of said Contract and for furnishing materials in connection therewith and shall in all other respects perfect the Agreement created by the acceptance of said Bid,

then this obligation shall be void; otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any extension.

**IN WITNESS WHEREOF**, Said Principal and Surety have hereunto set their hands and seals, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**PRINCIPAL (VENDOR)**

**SURETY**

\_\_\_\_\_

\_\_\_\_\_

(Address)

(Address)

By: \_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Typed Name and Title)

(Typed Name and Title)

**PART 1, QUOTATION FORMS**

**PRICE RESPONSE PAGE**

**DPS 10 # 1 ASSEMBLY AND COMMISSIONING AT**  
**DPS 10 (9600 Haynes Blvd.)**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
0001	DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING DPS 10 (9600 Haynes Blvd., New Orleans)	1	Lump Sum	\$_____	\$_____

**PART 1  
SPECIFICATIONS**

Walk through/Site Visit      **September 28, 2023 @ 1p.m.**  
Bid date                              **October 26, 2023 @ 11a.m.**  
Completion Time                  6 Weeks

**I. GENERAL INFORMATION**

**A. Project Description**

- A. Although it is not required, the bidders are encouraged to attend a pre-bid site walkthrough on **September 28, 2023, at 1 p.m.**, at 9600 Haynes Blvd, New Orleans, LA. 70127, so they are thoroughly aware of the scope and magnitude of the project before bidding.
- B. Contractor shall provide all labor, materials, and incidentals necessary to unload, install and commission one (1) vertical pump. Detailed shop drawings for the assembly and parts are in Appendix A.
- C. Contractor shall furnish and install all scaffolding, staging, work platforms, structures, tools, hoisting equipment, and instruments to execute the unloading, installation and commissioning.
- D. Contractor shall dewater the pump pit for work required under the station floor.
  - a. Stop logs are available to isolate the pump pit for dewatering. Contractor shall inspect the stop logs and repair, as necessary.
  - b. Contractor shall provide divers as needed.
  - c. Contractor shall install stop logs as needed and shall remove all debris from the pump pit.
  - d. Contractor shall replace antivortex baffle plates depicted on drawings 11522 M4-W10 and 11522 M3-W10, except the Contractor must submit antivortex design for approval by the Owner. The approved design must maintain the 6” holes with spacing as shown on the reference drawing 11522 M4-W10.
  - e. Contractor shall install suction bell onto pump, currently in pump pit.
- E. Contractor shall reassemble pump and motor, startup, and commission the pump.
- F. Contractor shall supply all materials necessary for completing the work required per these specifications. These materials shall include, but not be limited to, spacers, gaskets, fasteners, tape, and supports.
- G. Contractor shall flush, clean and repair grease piping and taps.
- H. Contractor shall execute any other item for installation or testing not listed above but required to complete the pump installation and startup to make the pumps complete in all respects for operation.

**B. Work Hours**

Extended working hours can be arranged with the S&WB representative.

**C. Submit quotes**

Quotes must be submitted to the Procurement Department of the Sewage and Water Board of New



Orleans by **October 26, 2023**, to Attn: Shelita Sells or email at [ssells2@swbno.org](mailto:ssells2@swbno.org). All questions not addressed at the walk-through need to be sent in via email to Shelita Sells, Procurement Analyst at [ssells2@swbno.org](mailto:ssells2@swbno.org). Deadline date is October 5, 2023, at 5p.m.

#### **D. Communications**

Addendums and other communications will be sent via email.

#### **E. Performance**

Contractor is responsible for all electrical and mechanical disconnections required to perform the work. Contractor shall supply all tools, equipment, and temporary items necessary and proper to carry out the evident intent of this project.

#### **F. Safety**

Contractor is to utilize all the standard safety procedures called for by the construction industry according to the work being performed.

#### **G. Costs**

Costs for developing quotations and participating in the selection process are entirely the responsibility of the prospective group and shall not be charged to the SWBNO. There is no expressed or implied obligation for the SWBNO to reimburse prospective group for any expense incurred in preparing proposals or participating in the selection process in response to this request. This price shall include all labor, support vehicle, supply trailer, travel time, materials, equipment and proper disposal of waste.

## **II. CONTRACT TERMS**

### **A. VENDORS TO EXAMINE LOCATION OF WORK**

Vendors shall make a personal examination of the location of the proposed work and of the surroundings. They shall thoroughly acquaint themselves with the details of the work to be done and all the conditions and obstacles likely to be encountered, including hazardous conditions, in the performance and completion of work. Vendors shall inform themselves as to the facilities for the transportation, handling and storage of equipment and materials, and they shall carefully study the plans, specifications and other contract documents and thoroughly satisfy themselves as to the conditions under which the work is to be done, and as to the character, qualities and quantities of work to be performed, and materials to be furnished, and be prepared to execute a finished job in every particular without any extra charge except as may be specifically provided for elsewhere in these contract documents.

### **B. COMPLETION TIME**

- 1. All work shall be completed, and the equipment returned to normal service no more than 6 weeks after delivery of pump and receipt of the written notice to proceed**, unless otherwise extended at the direction of SWBNO based on operational needs. Additional time for delivery of any materials that are back-ordered will be allotted as necessary.
2. The successful vendor is expected to direct the full force of its effort toward prompt completion of the work in accordance with the required completion time.
3. The work performed within the time frame stated above shall also include repair of damages to public or private property, complete cleanup of the premises, and completion of all punch list items generated by the Engineer's final inspection.

4. Extended working hours are allowed by arranging them with the Board representative.

### **C. INSURANCE: GENERAL REQUIREMENTS**

The Contractor will maintain, at his own cost and expense, and in good standing, such insurance as will protect the Sewerage and Water Board of New Orleans (the Board), the City of New Orleans (the City,) their officers, officials, employees, boards, commissions and volunteers, as well as the Contractor himself and any subcontractors from and against any and all claims for damages to public and private property and personal injury, including death, to employees or to the public, which may arise from any operations under this Contract or any of its subcontracts. The coverage will contain no special limitations on the scope of protection afforded to the Board and the City. Both the Board and the City will appear as "Additional Insured" on all Commercial General Liability and Business Automobile Liability. Any failure to comply with the reporting provisions of a policy will not affect coverage provided to the Board and the City, their officers, officials, employees, boards and commissions and volunteers. The Contractor's insurance will apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

In general, insurance is to be placed with insurers with an A.M. Best's rating of A-, although this requirement may be reviewed and modified by the Risk Manager of the Sewerage and Water Board of New Orleans in the best interest of the Board. **The Risk Manager may also consider performing such review upon written request from the Contractor. The Contractor shall furnish the Sewerage and Water of New Orleans with certificates of insurance affecting coverage required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates of insurance are to be received and approved by the Risk Manager of the Sewerage and Water Board of New Orleans, 625 St. Joseph St., Rm. 119, New Orleans, LA 70165, before work commences. The Sewerage and Water Board of New Orleans reserves the right to require complete, certified copies of all insurance policies at any time, as proof that the insurance placed meets the requirements of this Contract.**

If the insurance is written subject to a deductible clause, Contractor assumes responsibility for the amount of the deductible. In addition, the Contractor shall be required to furnish to the Risk Manager of the Sewerage and Water Board of New Orleans all copies of investigative reports with regard to any and all claims with the Contractor and his insurance carriers, relative to the contract, with the exception of claims filed with his Workers' Compensation Insurance. Such reports shall include dates, location and description of loss as well as amounts of settlements or judgments in order that annual aggregate limits may be monitored by the Sewerage and Water Board of New Orleans for the Contactor's compliance with these Specifications.

The furnishing of insurance as provided above shall not relieve the Contractor of his responsibility for losses not covered by insurance. All policies shall be with insurance companies authorized to do business in Louisiana and shall remain in full force and effect until the final completion of the work and acceptance thereof by the authority of the Board.

### **D. SUBROGATION**

The Contractor, Subcontractor(s), and their insurers shall agree to waive all the rights of subrogation against the Board, the City, and their officers, officials, employees, boards and commissions, and volunteers for losses arising from work performed by the Contractor for the Board and the City.

### **E. INSURANCE CANCELLATIONS AND STOP-WORK**

Each insurance policy required by this contract shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30)

days prior written notice has been given to the Risk Manager, 625 St. Joseph St., Rm. 119, New Orleans, LA 70165, of the Sewerage & Water Board of New Orleans, via certified mail.

The Contractor and/or his insurer shall notify the Risk Manager of the Sewerage and Water Board of New Orleans at least thirty (30) days in advance of any insurance coverage to be canceled or of any insurance coverage that will expire. The Contractor shall simultaneously furnish the Board evidence of new coverage to be effective the same day and hour of the expired or canceled coverage.

In the event the Contractor and/or his insurer fails to submit this evidence of new coverage five (5) days prior to the cancellation date or expiration date of any policy or policies, the Sewerage and Water Board will have the right to obtain the required coverage to become effective on the date of cancellation or expiration of said policies. The cost of such new policies shall be at the expense of the Contractor and any expenditure incurred by the Board for this coverage will be deducted from any balance due to the Contractor.

Should the Board be unable to secure new coverage to take the place of the expired or cancelled policy or policies, a “stop work” order will be issued and all work on the contract shall cease on the same date and hour as the coverage ceases. Should the Contractor fail or refuse to secure coverage within five (5) days after the date of the “stop work” order, the Contractor shall be declared to be in default, and the contract between the parties shall be considered cancelled and of no force or effect between the parties reserving all the rights of the Board against the Contractor and his surety.

#### **F. INSURANCE POLICIES, ENDORSEMENTS, AND LIMITS**

The following are the types of insurance policies and the minimum limits of insurance coverage which shall be maintained by the Contractor during the entire term of the Contract:

#### **G. WORKERS’ COMPENSATION AND EMPLOYERS’ LIABILITY INSURANCE**

Workers’ compensation and employer’s liability insurance, as will protect Contractor from claims under Louisiana Workers’ Compensation Laws. The Workers’ Compensation Section of the policy shall afford Statutory Limits and be in accordance with all Louisiana Workers’ Compensation Statutes. **The Employers Liability limit shall not be less than \$1,000,000 each accident for bodily injury by accident and \$1,000,000 each employee/policy limit for bodily injury by disease.** Whenever any Federal Longshoreman’s and Harbor Workers’ Act and shall also include protection for injuries and/or death to Master and Members of the crews of vessels with statutory limits in accordance with the Jones Act.

#### **H. COMMERCIAL GENERAL LIABILITY INSURANCE**

COMMERCIAL GENERAL LIABILITY INSURANCE, with a limit of not less than \$2,000,000 each occurrence and not less than \$4,000,000 general annual aggregate, including Explosion, Collapse, and Underground Property Damage Hazards. The Products-Completed Operations aggregate limit shall not be less than \$2,000,000 each occurrence. The general aggregate limit shall apply separately to this project.

#### **I. BUSINESS AUTOMOBILE LIABILITY INSURANCE**

Business automobile liability insurance, which shall cover liability arising out of accidents involving any auto (including Owned, Hired, and Non-Owned autos). The limit of liability shall not be less than \$1,000,000 each accident for all injuries, property damage, and/or death resulting from any one occurrence.

## **J. OWNER’S AND CONTRACTOR’S PROTECTIVE LIABILITY INSURANCE**

Owner’s and contractor’s protective liability insurance, as will protect the Contractor, the Sewerage and Water Board of New Orleans, and the City of New Orleans from and against any and all claims and lawsuits involving vicarious liability. The limits of liability shall be the same as specified in Paragraph (b) above, and shall include Explosion, Collapse and Underground Hazards.

## **K. PROFESSIONAL LIABILITY INSURANCE**

Professional liability insurance, as may be applicable to the particular profession or service to be provided, with a limit of not less than \$1,000,000 each Claim, with at least a \$2,000,000 annual aggregate, without any restrictive “negligent act, negligent error, or negligent omission” clause, and sufficient to protect the Contractor, the Board, and the City, for a five (5) year period from completion of this contract, against any and all claims which may arise from the Contractor’s negligent performance of work described herein.

## **L. PROPERTY INSURANCE**

Property insurance, required on all work except sewer and water drainage pipelines, reinforced concrete canals, work completely underground, and similar work (however Contractor is not relieved of responsibility therefore) as follows:

All risks builders risk insurance (covering Fire, Extended Coverage, Vandalism and Malicious Mischief) will be carried on a completed value or reporting form, for not less than 100 percent of the value of the work, including foundations.

Coverage will include all machinery and equipment to be installed, whether furnished by the Sewerage & Water Board or by Contractor, for not less than 100 percent of the installed value of the machinery and equipment. This insurance shall be written in the same Insurance Company carrying the Builder’s Risk Insurance, shall include testing and startup, shall for partial utilization of the Work by Owner, and shall terminate only when installation has been accepted by the Sewerage and Water Board.

The All Risks Builder’s Risk Policy shall include the names of the Sewerage & Water Board of New Orleans, and City of New Orleans, and will cover the interests of all sub-contractors without specifically naming them.

## **III. SCOPE OF WORK**

DPS 10 # 1 Pump Assembly and Commissioning of Allis Chambers 102 x 84 WCAX Vertical Pump

- Assemble and Commission pump
  - Mobilize crew and equipment
  - Unload equipment from shipping truck
  - Provide divers as necessary to access lower pump bowl assembly
  - Isolate and drain water from wet pit as necessary to complete scope. Install stop logs, drain pump pit, remove debris from pit, install suction bell, remove stop logs.
  - Complete reassembly of the pump, catwalk, piping, and accessories to manufacturer’s specifications.
  - During assembly the SWB Machine Shop authorized person will review the work at various inspection points and sign off. See form in Appendix B, “SWB Rotating

Equipment Acceptance” form. Contractor shall communicate with SWB to arrange the inspections.

- During assembly the Contractor shall subcontract the pump OEM, Xylem, to act as an onsite advisor and inspector throughout installation.
  - Existing grease lubrication piping shall be inspected, repaired, flushed, and cleaned.
  - Fabricate and install vortex breaker plates with 6” openings. Contractor shall submit design to SWB for approval.
  - Dry and wet test run the pump and perform vibration analysis to the satisfaction of the Engineer. The Contractor shall provide the Engineer with three (3) copies of this written report.
  - Complete balance of all systems functional testing, oil flushing, start-up and commissioning. Furnish turnover packages.
  - Commission and startup pump to ensure satisfactory operation
  - Clean area and pump pit of all discarded materials
  - Demobilize crew and equipment.
- On-Site Lifting
    - The Contractor shall provide, at its expense, qualified crane operators and riggers, slings, and all other materials and equipment necessary for performance of work under the contract, subject to approval of the Owner.
    - Following completion of the work, the cranes shall be returned to the Owner in the same condition as when received by the Contractor, reasonable wear expected.
    - The Owner will perform periodic and necessary crane maintenance at no cost to the Contractor, provided such maintenance does not result from misuse or abuse by the Contractor. The Contractor shall be charged for crane damages due to misuse or abuse.
  - Scaffolding
    - All scaffolding and supports required to complete the work shall be furnished by the Contractor.
  - Final Inspection

Once all the work, other than operational tests and adjustments, are completed and just prior to starting the unit for the first time following the overhaul, a final inspection of the unit should be made. Some of the items listed below will have been checked previously, but because of potential damage to the machine, they should be checked again. This inspection should include, but not be limited to, the following:

    - Inspection. Inspection of the pump internals should be made to check for any bolts, nuts, tools, etc. Once this area has been inspected and verified to be clean, no one should be allowed back in. If it is necessary for someone to go back into these areas, they should remove everything from their pockets and make a list of every tool that is taken in so that they can verify nothing is left inside when they are finished.
    - Clearances. Clearances between stationery and rotating parts should be checked. Bearing covers should be checked for adequate clearance.
    - Oil or water leaks. With full pressure and flow, check threaded and flanged joints of the various water lines to the unit for leaks. Check oil piping and bearing oil tubs for leaks at joints.
  - Initial Startup
    - The Initial Startup will be witnessed by the Engineer of Record and a representative of operations. The Contractor shall schedule Initial Startup with the Engineer of Record to

- determine a suitable time for required witnessing.
- When the pump checkout has been completed and the clearance for the overhaul released, water is to be introduced to the pump for startup. Maintenance personnel should watch for anything unusual when the pump is started. The pump should run under no load for a short period of time to listen for rubbing or other interferences. If no problems are noted, the pump should be loaded and run at full capacity. If any of the observers notice any unusual noise or other problems, they should notify the operator to immediately shut the unit down.
- Functional Test
    - Once it is determined that the unit can be operated with no problems, the following readings and functional tests should be taken. These readings are suggested only as basic indication of the unit's condition.
    - Bearing heat run. With the unit running at speed-no-load, the bearing metal temperatures should be recorded until the temperatures stabilize. RTD's are available for this information. If a data logger is not available for use during the test, the temperatures should be recorded manually every 5 minutes for the first 30 minutes of operation and every 15 minutes after that until the temperatures stabilize. After the pump is brought online, again monitor temperatures as the pump is loaded.
    - Shaft runout readings. The runout readings can be taken with dial indicators but are much more meaningful if taken by proximity probes. Readings should be taken at both unloaded and fully loaded conditions. If proximity probes are used, the signal should be recorded with a strip chart recorder so that the wave form of the runout can be analyzed. A normal runout pattern will be a sine wave with a time period corresponding to the rotational speed. If problems are encountered, such as extremely high runout magnitude or a hot bearing, further analysis should be performed. If two proximity probes are mounted 90 degrees apart at each elevation, their output can be hooked up to a two-channel oscilloscope to plot the actual runout orbit pattern. This can be helpful in detecting a rub in the bearing. A spectrum analyzer is also useful when troubleshooting a vibration problem. The spectrum analyzer breaks down the signal from the proximity probes into its component frequencies. The runout readings taken should also be compared to the condition assessment readings taken before the pump was shut down for the overhaul.
  - Test Report
    - Shortly after completion of the field acceptance tests, but not later than thirty (30) calendar days, the Contractor shall prepare and forward draft copies of the field acceptance test report to the Owner for review. After the review, the Contractor shall incorporate the comments in the final report. Copies of the final report shall be submitted to the Owner.
    - The report shall include a description of the item tested and of the instrumentation; a list of the test personnel; calibrations of measuring equipment; test procedure; tabulations of measurements taken; test results including final adjustments; a discussion of the test results and conclusions.

## PART 2

### SPECIAL PROVISIONS

#### **NOTICE TO VENDORS**

For Individual Quotes (Quotations) totaling \$25,000 and greater, the following shall apply:

- a). A Bid Bond, cashier's check or certified check is required to be submitted with the response.
- b). A Performance and Payment Bond will be required for the contract.
- c). The Contract shall be approved by the SWBNO Board. *(if applicable)*
- d). The Contract shall be recorded with the Recorder of Mortgages.
- e). Retainage may be withheld until receipt of a clear lien certificate following the 45-day lien period after the Board has approved final acceptance of the Contract. *(if applicable)*

The above requirements do not apply to individual quotations less than \$25,000.00

#### **EXAMINATION OF PLANS, SPECIFICATION, SPECIAL PROVISIONS AND SITE OF WORK**

Before preparing his quote, each vendor should make a field examination of the proposed work and to fully acquaint himself with conditions relating to construction and labor so that he may fully understand the facilities, difficulties and restrictions attending the execution of the work under this contract. Vendors should thoroughly examine and be familiar with the Plans, Specifications and Contract Documents.

Submission of a quote shall be considered prima facie evidence that the vendor has made such an examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the plans, project specifications and documents.

#### **RESPONSE GUARANTY**

Each response must be accompanied by a certified check, cashier's check or bid bond acceptable to the SWBNO in an amount equal to at least 5% of the response, payable without condition to the SWBNO as a guarantee that the vendor, if awarded the contract, will promptly execute such contract in accordance with the response and in a manner and form required by the contract documents and will furnish good and sufficient bond for faithful performance of the same.

When a bid bond is used, it shall be written by a surety company currently qualified to do business in Louisiana and currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies published annually in the Federal Register, or by an insurance company currently qualified to do business in Louisiana with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide to write individual bonds up to 10% of policyholders' surplus as shown in the A.M. Best's Key Rating Guide.

#### **SURETY BOND**

Prior to execution of the contract, the contractor shall file with the Purchasing Director a surety bond on a form provided or approved by the SWBNO. The contractor shall pay all costs, therefore.

The bond shall be written by a surety company qualified to do business in Louisiana and on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies published annually in the Federal Register, or by an insurance company qualified to do business in Louisiana with at least an A- rating in the latest printing of A.M. Best's Key Rating Guide to write individual bonds up to 10% of policyholders' surplus

as shown in A.M. Best's Key Rating Guide.

The bond shall be in effect at 100% of the contract amount until completion of the 1-year warranty period specified and until all claims for materials and labor are paid, subject to local ordinances and state lien laws.

The bond shall be so conditioned as to assure performance by the contractor of all work under said contract within the time limit prescribed in a manner satisfactory to the SWBNO; that materials and workmanship will be free from defects; and that should defects appear prior to completion of the 1-year warranty period specified in Subsection 4-6, the contractor shall make good such defects and make all replacements and adjustments required within a reasonable time after being notified by the Department to do so.

Should any surety become insufficient, the contractor shall renew said bond with good and sufficient sureties within 10 days after receiving notice from the SWBNO.

### **AWARD AND EXECUTION OF CONTRACT**

A total quotation of **\$250,000.00** and under will be considered a quotation and is not within the purview of the Public Bid Law (LA RS 38:2212 et.seq). It is the SWBNO's intent to obtain fair and competitive quotations. However, the SWBNO specifically reserves the right to evaluate quotations, waive irregularities or informalities not affecting price or quality, to accept the quotation which is in the best interest of the SWBNO, and to reject all quotations if that is in the best interest of the SWBNO.



## **PART 2**

### **REQUIREMENTS FOR THIS QUOTE**

**All contractors bidding on this work shall comply with all provisions of State Licensing Law for Contractor, RS 37:2150-2192, as amended, for all public contacts. It shall also be the responsibility of the General Contractor to assure that all subcontractors comply with this law. If required for bidding, Contractors must hold an active license issued by the Louisiana State Licensing Board for Contractors and must show their license number on page one (1) of the request for quotation.**

In accordance with RS 37:2150-2192, on any bid for a commercial project submitted in the amount of fifty thousand dollars (\$50,000) or more, or ten thousand dollars (\$10,000) or more for Plumbing, Electrical or Mechanical, and Asbestos, Hazardous Waste, Lead-Based Paint Abatement/Removal, Underground Storage Tanks require a license for projects with a value of one dollar or more the contractor shall certify licensure under R.S. 37:2150-2192 and show the license number where indicated.

1. Contractor, and any sub-contractor, shall comply with all applicable laws, obtain all permits and possess all licenses required in connection with work hereunder.
2. Contractor shall indemnify SWBNO against any and all liens for which SWBNO owned property may become liable as a result of Contractors work hereunder.
3. Before issuance of final payment, the Contractor may be required to submit evidence satisfactory to the SWBNO that all payrolls, material bills, and other indebtedness connected with the work have been paid or otherwise satisfied.
4. All material and workmanship, as applicable, shall be guaranteed for a minimum of one (1) year, unless provided otherwise by the specification or response form. Such guarantee shall include all labor and materials needed to replace any defective workmanship or materials within the guarantee period.
5. Before this contract is acceptable and complete, successful vendor shall clean up and remove from the premise all debris resulting from his work, and shall see to it that all the items furnished are left in good order, clean and properly installed.
6. Quotes: unless otherwise specified, a lump sum quote is requested for the work in the specifications.
7. Permits, Licenses and Laws: The contractor shall furnish all necessary permits, licenses, and certificates and comply with all laws or ordinances applicable to the locality of the building site and the State of Louisiana.
8. The SWBNO, its officers, employees and agents, shall not be responsible for the negligent acts and omissions of the Contractor or the Contractor's officers, employees or agents or subcontractors, nor shall the Contractor or the Contractor's officers, employees or agents be responsible for the negligent acts or omissions of the SWBNO, its officers, employees and agents. Accordingly, Contractor shall indemnify and save SWBNO, its officers, employees and agents, harmless from any and all claims, suits and actions of any character, name or description brought for or on account of any injury or damage to any person or property arising out of the work performed by the Contractor, or Contractor's officers, employees, agents or subcontractors.
9. Contractor shall furnish insurance as required on the attached sheet.

## **Inquiry Period**

An inquiry period is hereby firmly set for all interested vendors to perform a detailed review of the bid documents and to submit any written questions relative thereto. ***Without exception, all questions MUST be in writing.*** Inquiries are to be directed as follows:

**Emailed, Hand Delivered or by Courier or by US Postal Service**

SWBNO Purchasing Department  
625 St. Joseph Street  
New Orleans, LA 70165

**By email:** [ssells2@swbno.org](mailto:ssells2@swbno.org)

The SWBNO shall not and cannot permit an open-ended inquiry period, as this creates an unwarranted delay in the procurement cycle and operations of our departments. The SWBNO reasonably expects and requires *responsible and interested* proposers to conduct their in-depth response review and submit inquiries in a timely manner.

**All inquiries shall be received by Shelita Sells, [ssells2@swbno.org](mailto:ssells2@swbno.org). The deadline date for inquiries are October 5, 2023, at 5p.m.**

## **PART 2**

### **ADDITIONAL INSTRUCTIONS FOR LABOR QUOTATIONS**

1. Contractor must obtain all permits required and possess all license required for the work.
2. Contractor must furnish insurance as shown in this package prior to award of a contract and purchase order.
3. Contractor shall indemnify and hold harmless against any and all liens for which SWBNO property may become liable as a result of Contractor's work hereunder.
4. The SWBNO is exempt from all State and Local sales/use taxes on direct purchases.
5. Before issuance of final payment, the Contractor may be required to submit evidence satisfactory to the SWBNO that all payrolls, material bills, and other indebtedness connected with the work have been paid or otherwise satisfied.
6. All material and workmanship shall be guaranteed for a minimum of one (1) year. Such guarantee shall include all labor and materials needed to replace any defective workmanship or materials within the guarantee period.
7. The SWBNO is an equal opportunity employer.
8. Contractor shall permit the authorized representative of the SWBNO to periodically inspect and audit all records of the Contractor relating to his performance under this contract.

**PART 2**  
**CONTRACT**

**THIS CONTRACT** is by and between the Sewerage and Water Board of New Orleans (“Owner”) and                      (“Contractor”) in consideration of the mutual covenants set forth herein, agree as follows:

**1. WORK.**

1.1. Contractor shall complete the Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

1.1.1. **Contract ME 23-0031 DPS 10 # 1 Pump Assembly and Commissioning**

**2. THE PROJECT.**

2.1. The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

2.1.1. **Contract ME 23-0031 DPS 10 # 1 Pump Assembly and Commissioning**

**3. ENGINEER.**

3.1. The Project has been designed by Mike Genova (Designer) who is to act as the Engineer-of-Record under the oversight and administration of the Owner’s Representative.

**3. CONTRACT TIMES.**

4.1. Time of the Essence: Time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.2. Days to Achieve Substantial Completion and Final Payment:

4.2.1. The Work shall be substantially completed within    calendar days from the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within    calendar days after the date when the Contract Times commence to run.

4.3. Liquidated Damages: **\$500.00**

4.3.1. Should the Contractor fail to commence or start the work within the time allotted or fail to complete individual phases of the work within the times allotted for said individual phases, the Contractor shall pay to the Board the sum of **\$500.00** liquidated damages for each calendar day beyond the times specified. If unforeseen circumstances are encountered at the work site, the Contractor may request in writing an extension in days for the completion of work. If granted, the extension of time must be approved in writing by the Engineer and submitted with the invoice.

4.4. Night, Weekend, or Holiday Work:

4.4.1. Night, weekend or holiday work which requires the presence of an engineer or inspector will not be permitted except in cases of emergency or by permission of the Engineer. Except in cases of emergency, all requests for night, weekend or holiday work shall be submitted in writing at least seven calendar days prior to the work being performed. Any approved night, weekend or

holiday work requires prior written authorization from the Engineer

#### **4. CONTRACT PRICE.**

5.1. Owner shall pay Contractor **DOLLARS and No/100 ( )** Dollars for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to the prices stated in Contractor's Bid attached hereto as an exhibit.

#### **5. PAYMENT PROCEDURES.**

6.1. Submittal and Processing of Payments: Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.2. Progress Payments and Retainage: Owner will make progress payments on account of the Contract Price on the basis of Contractor's Application for Payment on the date of each month as established in the preconstruction conference during performance of the Work as provided herein. All such payments will be measured by the Schedule of Values established as provided in Paragraph 2.07 of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided in the General Requirements.

6.2.1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Paragraph 14.02 of the General Conditions:

6.2.1.1. Ninety-five percent of Work completed for contracts in the amount of \$500,000.00 or greater (with the balance being retainage). Ninety percent of Work completed for contracts in an amount less than \$500,000.00 (with the balance being retainage).

6.2.2 In accordance with Louisiana Revised Statute 38:2249, Contractor may withdraw up to the entire retained amount if they deposit an equal amount in a Certificate of Deposit issued by a commercial bank or savings and loan located in Louisiana.

6.2.3. In accordance with Louisiana Revised Statute 38:2248(A), retainage will be released within 45 days of Final Acceptance by the Sewerage and Water Board of New Orleans' Board of Directors.

6.2.4. Upon Substantial Completion, Owner will pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts as Engineer will determine in accordance with Paragraph 14.02.B.5 of the General Conditions and less 200 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

6.3. Final Payment:

6.3.1. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, Owner will pay the remainder of the Contract Price as recommended by Engineer as provided in Paragraph 14.07.

#### **6. CONTRACTOR'S REPRESENTATIONS.**

7.1. Contractor makes the following representations:

7.1.1. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

7.1.2. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

7.1.3. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

7.1.4. Contractor has carefully studied: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) if any, which have been identified in Paragraph 4.02 of the Supplementary Conditions as containing reliable “technical data”, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site which have been identified in Paragraph 4.06 of the Supplementary Conditions as containing reliable “technical data.”

7.1.5. Contractor has considered the information known to Contractor; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and (3) Contractor’s safety precautions and programs.

7.1.6. Based on the information and observations referred to above, Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

7.1.7. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.

7.1.8. Contractor has given Engineer written notice of conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

7.1.9. The Contract Documents are generally sufficient to indicate and convey understanding of terms and conditions for performance and furnishing of the Work.

## **7. CONTRACT DOCUMENTS.**

8.1. Contents:

8.1.1. The Contract Documents that are attached to this Contract (except as expressly noted otherwise) consist of the following:

8.1.1.1. This Contract           

8.1.1.2. Payment and Performance Bond:

8.1.1.3. General Conditions: [REDACTED]

8.1.1.4. Supplementary Conditions: [REDACTED]

8.1.1.5. Specifications as listed in the table of contents: [REDACTED]

8.1.1.6. Drawings consisting of [REDACTED] sheets with each sheet bearing the following general title: \_\_\_\_\_

8.1.1.7. Addenda: [REDACTED]

8.1.2. Exhibits to this Contract (enumerated as follows): \_\_\_\_

8.1.2.1 Contractor's Bid [REDACTED]

8.1.2.2 Contractor's Insurance Certificates [REDACTED]

8.1.2.3 Contractor's Corporate Resolution [REDACTED]

8.1.3. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:

8.1.3.1. Notice to Proceed

8.1.3.1. Work Change Directives

8.1.3.2. Change Order(s)

8.2. There are no Contract Documents other than those listed above in this Article.

8.3. The Contract Documents may only be amended, modified, or supplemented as provided in Paragraph 3.04 of the General Conditions.

## **8. MISCELLANEOUS.**

9.1. Terms used in this Contract will have the meanings stated in the General Conditions and the Supplementary Conditions.

9.2. Successors and Assigns: Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

9.3. Severability: Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

9.4. Assignment of Contract:

9.4.1. No assignment by a party hereto of any rights under or interests in the Contract shall be binding on another party hereto without the written consent of the party sought to be bound; and,

specifically but without limitation, monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under the Contract Documents.

**9.5. Contractor's Certifications:**

9.5.1. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this paragraph:

9.5.1.1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in Contract execution;

9.5.1.2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract Price at artificial noncompetitive levels, or (c) to deprive Owner of the benefits of free and open competition;

9.5.1.3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to

establish Bid prices at artificial, noncompetitive levels; and

9.5.1.4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

**9. Force Majeure:**

Neither party shall be liable for any failure to make or accept one or more deliveries arising out of any embargo, war, fire, flood, earthquake, epidemic or other calamity, act of God or of the public enemy, governmental act (including, but not restricted to, any government priority, preference, requisition, allocation, interference, restraint or seizure, or the necessity of complying with any governmental order, directive, ruling or request) or by any strike or labor dispute involving the owner, or any manufacturer, supplier or carrier of the machinery, materials or supplies required hereunder, or any other similar circumstance beyond the control of the party.

**10. Jurisdiction and Venue:**

Moreover, Contractor, by act of signing this Contract, consents and yields to the jurisdiction of the Civil District Court of the Parish of Orleans of the State of Louisiana and does formally waive any plea of lack of jurisdiction, on account of their residence elsewhere in the event of suit under this Contract. This Contract shall be governed by and shall be interpreted in accordance with the laws of the State of Louisiana. Contractor agrees that any suit arising out of this Contract shall be brought in the Civil District Court for the Parish of Orleans and Contractor hereby waives any objection to improper venue and agrees to submit to the jurisdiction of said court.

**IN WITNESS WHEREOF**, Owner and Contractor have signed this Contract in triplicate. One counterpart each has been delivered to Owner, Contractor, and Engineer. All portions of the Contract Documents have been signed or identified by Owner and Contractor or on their behalf.



This Contract will be effective on this \_\_\_\_ day of \_\_\_\_\_, 2021 (which is the Effective Date of the Contract).

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**BY:** \_\_\_\_\_  
**GHASSAN KORBAN, EXECUTIVE DIRECTOR**

**WITNESSES:**

\_\_\_\_\_  
**Print:** \_\_\_\_\_

\_\_\_\_\_  
**Print:** \_\_\_\_\_

\_\_\_\_\_  
**NOTARY PUBLIC**

**The foregoing contract is approved as to form.  
New Orleans, Louisiana**

\_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_  
**YOLANDA Y. GRINSTEAD, SPECIAL COUNSEL  
SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**LOUISIANA LICENSE NO. 00000**

**BY:** \_\_\_\_\_  
**JOHN DOE, OWNER**

**WITNESSES:**

\_\_\_\_\_  
**Print:** \_\_\_\_\_

\_\_\_\_\_  
**Print:** \_\_\_\_\_

\_\_\_\_\_  
**NOTARY PUBLIC**

**RECORDED IN THE PARISH OF ORLEANS  
STATE OF LOUISIANA**

**ON** \_\_\_\_\_

**N.A. #** \_\_\_\_\_

**INSTR.#** \_\_\_\_\_

**[END OF SECTION]**

## PART 2

### PAYMENT AND PERFORMANCE BOND (required for quotes \$25,000 or greater)

---

Bond No.:

KNOW ALL PERSONS BY THESE PRESENTS, That we, \_\_\_\_\_, as principal, (hereinafter called the "Principal"), and \_\_\_\_\_, as surety, (hereinafter called the "Surety"), are held and firmly bound unto \_\_\_\_\_, as Obligee, in the sum of \_\_\_\_\_ Dollars (\$) for the payment whereof said Principal and Surety bind themselves, jointly and severally, as provided herein.

WHEREAS, the Principal has entered into a Contract with Obligee dated \_\_\_\_\_, to perform construction work for \_\_\_\_\_ ("Contract").

NOW, THEREFORE, the condition of this obligation is such that if Principal shall promptly and faithfully perform the Construction Work to be performed under the Contract, and shall promptly make payment to Claimants, as hereinafter defined, for all labor and material actually used, consumed or incorporated in the performance of the Construction Work under the Contract, then this obligation shall be null and void; otherwise to remain in full force and effect.

Surety's obligations hereunder to Obligee shall not arise unless Principal is in default under the Contract for failing to perform the Construction Work and has been declared by Obligee to be in default under the Contract for failing to perform the Construction Work; and Obligee has performed its obligations under the Contract. In such event, Surety shall have a reasonable period of time to:

1. Upon entering into an acceptable written takeover agreement with Obligee, undertake to perform and complete the Construction Work to be done under the Contract; or
2. Obtain bids or negotiated proposals from qualified contractors for a contract for completion of the Construction Work to be done under the Contract, arrange for a contract to be prepared for execution by Obligee and contractor, to be secured with performance and payment bonds executed by a qualified surety; or
3. Waive its right to perform or complete the Construction Work pursuant to paragraphs 1 and 2 above, and with reasonable promptness under the circumstances: (a) After investigation, determine the amount for which it may be liable to the Obligee and, as soon as practicable after the amount is determined, tender payment therefor to the Obligee; or (b) Deny liability in whole or in part and notify the Obligee citing reasons therefor.
4. The Contract balance, as defined below, shall be credited against the reasonable construction cost of completing the Construction Work to be performed under the Contract. If completed by Obligee pursuant to paragraphs 2 or 3 above, and the reasonable construction cost of completing the Construction Work exceeds the Contract balance, Surety shall pay to Obligee such excess, but in no event shall the aggregate liability of Surety exceed the amount of this bond. If Surety completes the work pursuant to paragraph 1 above, that portion of the Contract balance as may be required to complete the Construction Work to be done under the Contract and to reimburse Surety for its outlays shall be paid to Surety at the times and in the manner as said sums would have been payable to Principal had there been no default under the Contract. To the extent that Surety's outlays exceed the Contract balance paid to Surety by Obligee, Surety shall be entitled to a dollar for dollar reduction of its liability under this bond, and Surety's aggregate liability shall not exceed the penal sum

of this bond. The term "Contract balance" as used herein shall mean the total amount payable by Obligee under the Contract and any amendments thereto, less the amounts properly paid by Obligee to Principal under the Contract. The term "Construction Work" as used herein shall mean the providing of all labor and/or material necessary to complete Principal's scope of work under the Contract. Notwithstanding any language in the Contract to the contrary, the Contract balance shall not be reduced or set off on account of any obligation, contractual or otherwise, except the reasonable construction cost incurred in completing the Construction Work.

5. Any suit by Obligee under this bond must be instituted before the earlier of: (a) the expiration of one year from the date of substantial completion of the Construction Work, or (b) one year after Principal ceased performing the Construction Work, excluding warranty work. If the public works bond statutes in the location where the Construction Work is being performed contains a statute of limitations for suits on the performance bond, then the limitation period set forth herein shall be read out of this bond and the statute of limitation set forth in the public works bond statutes shall be read into this bond. If the limitation set forth in this bond is void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable, and said period of limitation shall be deemed to have accrued and shall commence to run no later than (y) the date of substantial completion of the Construction Work, or (z) the date Principal ceased performing Construction Work, excluding warranty work, whichever occurs first.

6. A Claimant is defined as one other than Obligee having a contract with Principal or with a direct subcontractor of Principal to supply labor and/or materials and said labor and/or material is actually used, consumed or incorporated in the performance of the Construction Work under the Contract.

7. Principal and Surety hereby jointly and severally agree with Obligee that every Claimant as herein defined who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labor was done or performed or materials were furnished by such Claimant, may bring suit on this bond, prosecute the suit to final judgment for the amount due under Claimant's contract for the labor and/or material supplied by Claimant which was actually used, consumed or incorporated in the performance of the Construction Work, and have execution thereon; provided, however, that a Claimant having a direct contractual relationship with a subcontractor of Principal shall have a right of action on this bond only if said Claimant notifies Surety in writing of its claim within ninety (90) days from the date on which said Claimant did or supplied the last labor and/or materials for which the claim is made. Obligee shall not be liable for the payment of any costs or expenses of any such suit.

8. No suit or action shall be commenced hereunder by any Claimant after the expiration of the earlier of: (a) one year after the day on which Claimant last supplied the labor and/or materials for which the claim is made; or (b) the limitation period set forth in the public works bond statutes, if any, in the location where the construction work is being performed. Any limitation contained in this bond which is prohibited by any law controlling in the state where the suit is filed shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by the law of that state, and said period of limitation shall be deemed to have accrued and shall commence to run on the day Claimant last supplied the labor and/or materials for which the claim is made.

9. No suit or action shall be commenced hereunder by Obligee or any Claimant other than in a state court of competent jurisdiction in the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

10. The amount of this bond shall be reduced by and to the extent of any payment or payments made by Surety in good faith hereunder whether made directly to Obligee or Claimant(s) or otherwise in discharge of Principal's obligations. Surety's liability hereunder to Obligee and all Claimants is limited, singly, or in the aggregate, to the penal sum of the bond set forth herein. Surety may, at its option, discharge all obligations under this bond by interpleading into the registry of any court of competent jurisdiction of the full unused penal sum of this bond, or such portion thereof that will satisfy the obligations owed to Obligee and/or Claimant(s).

No right of action shall accrue on this bond to any person or entity other than Obligee and/or Claimant(s). The bond shall not afford coverage for any liability of Principal for tortious acts, whether or not said liability is direct or is imposed by the Contract and shall not serve as or be a substitute for or supplemental to any liability or other insurance required by the Contract.

11. This bond is provided to comply with all statutory (including but not limited to La. R.S. 38:2216 and La. R.S. 38:2219) or other legal requirement for performing construction contracts for public owners in the location where the construction work is being performed. Except as provided in paragraphs 5 and 8 above, all provisions in the bond which are in addition to or differ from those statutory or legal requirements shall be read out of this bond, and all pertinent statutes and other legal requirements shall be read into the bond. This bond is a statutory bond, not a common law bond.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Principal)

By: \_\_\_\_\_

(Surety)

By: \_\_\_\_\_, Attorney-in-Fact

**PART 2**

**AFFIDAVIT**

**STATE OF LOUISIANA**  
**Sewerage & Water Board of New Orleans**

**BEFORE ME**, the undersigned authority, personally came and appeared

\_\_\_\_\_

who, being duly sworn did depose and say:

That he is a duly authorized representative of \_\_\_\_\_

receiving value for services rendered in connection with:

**DPS 10 # 1 PUMP ASSEMBLY AND COMMISSIONING AT**  
**DPS 10 (9600 Haynes Blvd.)**

\_\_\_\_\_

a public project of the Sewerage & Water Board of New Orleans: that he has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by him whose services in connection with the construction, alteration, or demolition of the public building or project or in securing the public contract were in the regular course of their duties for him; and that no part of the contract price received by him was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by him whose services in connection with the construction of the public building or project were in the regular course of their duties for him.

This affidavit is executed in compliance with the provisions of LA R.S. 38:2224.

\_\_\_\_\_

Affiant's Signature

**SWORN TO AND SUBSCRIBED** before me, on this \_\_\_\_\_ day of \_\_\_\_\_ 2023.  
New Orleans, Louisiana.

\_\_\_\_\_

**NOTARY PUBLIC**

# Appendix A

## Assembly Drawings



Drawings for DPS  
10.zip

# Appendix B

## SWB Rotating Equipment Acceptance



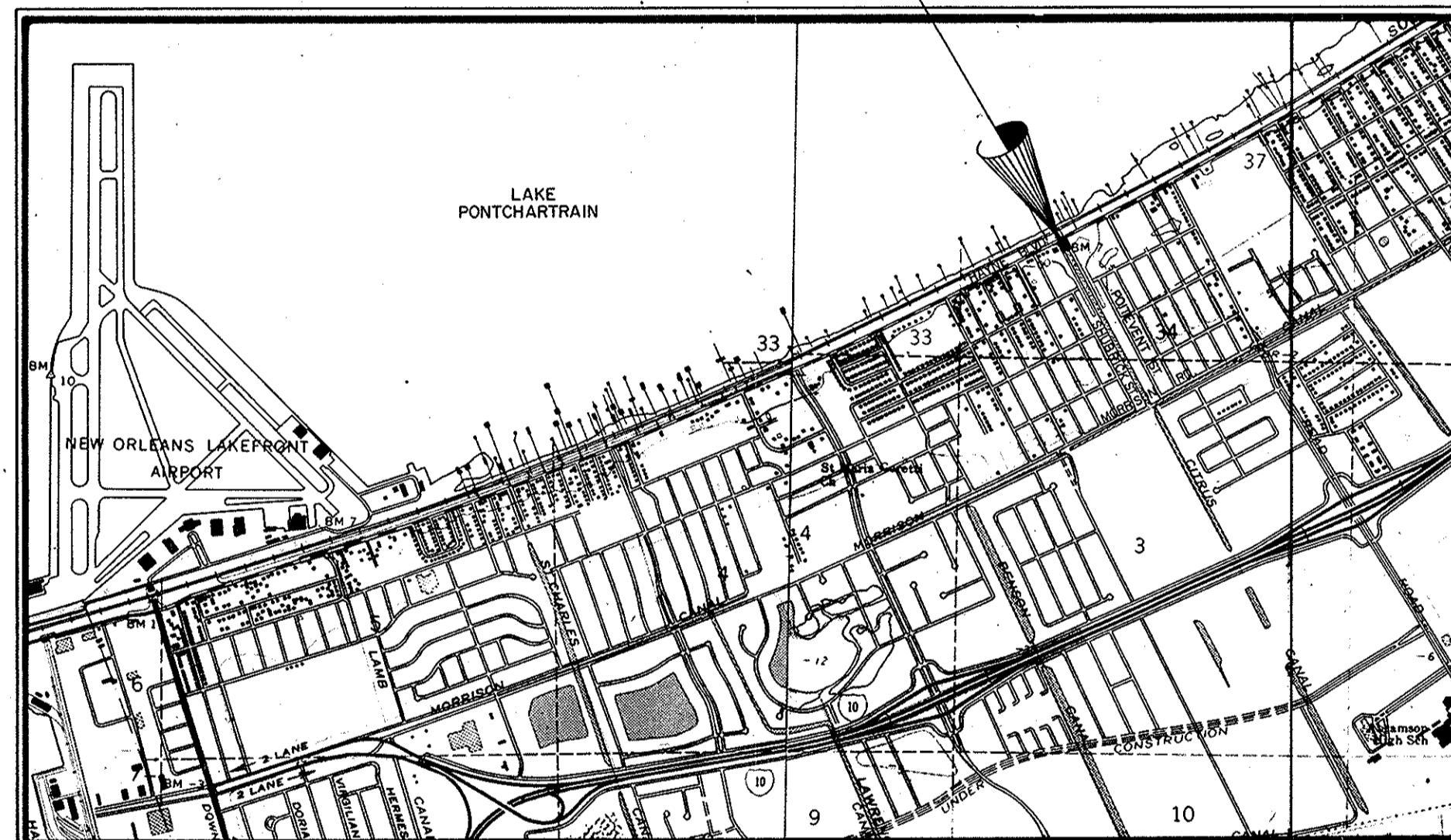
SWB Rotating  
Equipment Acceptar

# SEWERAGE AND WATER BOARD OF NEW ORLEANS

## PUMPS AND MACHINERY FOR CITRUS CANAL DRAINAGE PUMPING STATION CONTRACT NO. 5107

**CITRUS CANAL DRAINAGE PUMPING STATION**

SHEET NO.	INDEX
1	TITLE AND INDEX SHEET
2	PLAN-SUCTION AND DISCHARGE BASIN AND MISCELLANEOUS DETAILS
3	LONGITUDINAL SECTION-SUCTION AND DISCHARGE BASIN
4	CROSS SECTION-PUMPING STATION
5	LONGITUDINAL SECTION-PUMPING STATION
6	LONGITUDINAL SECTION-DISCHARGE CANAL



APPROVALS

*G. Joseph Sullivan*  
G. JOSEPH SULLIVAN - GENERAL SUPERINTENDENT  
SEWERAGE AND WATER BOARD OF NEW ORLEANS

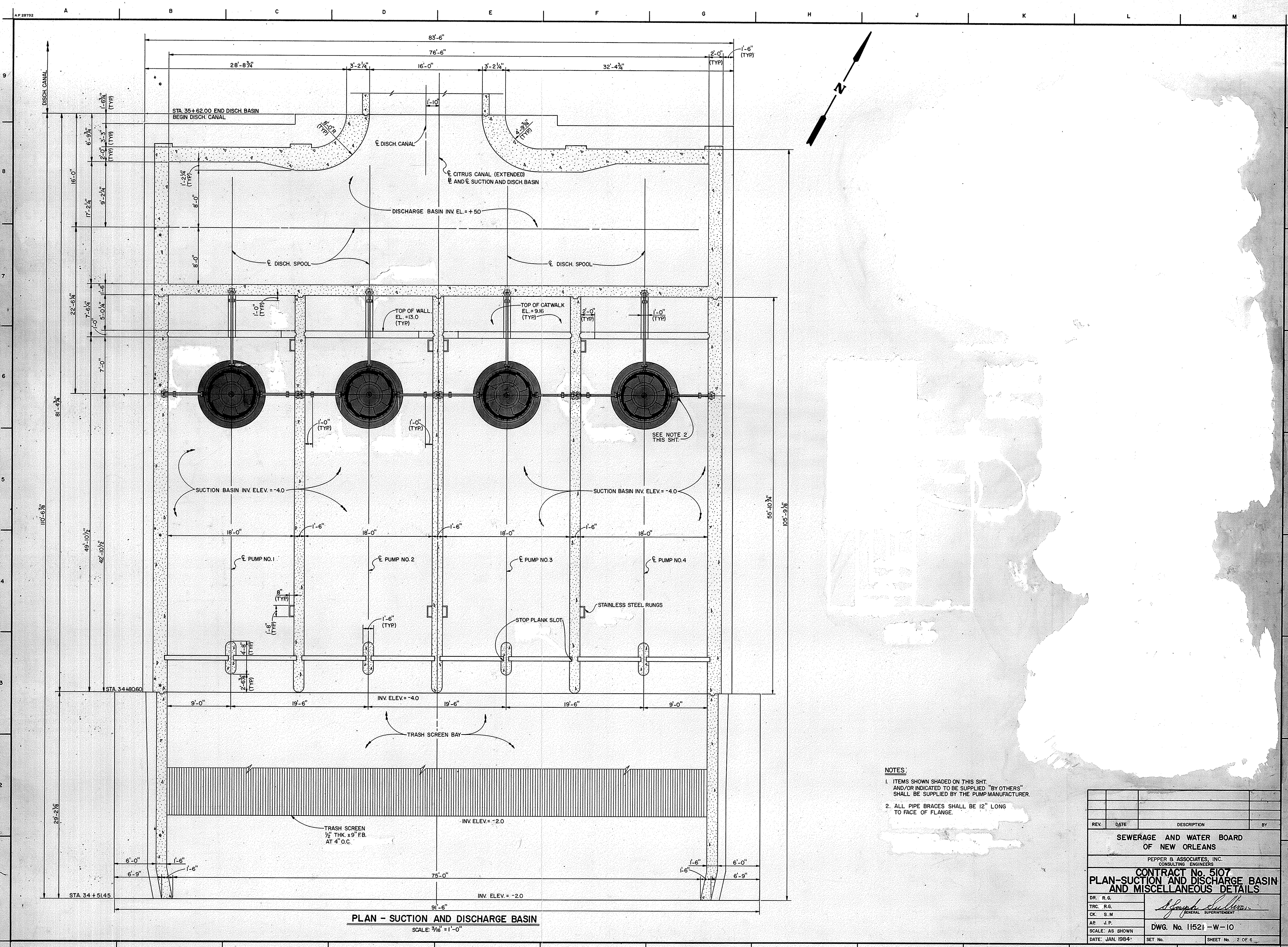
*Jerome Pepper*  
JEROME PEPPER - PEPPER & ASSOCIATES



PEPPER & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
3012 26th ST. METAIRIE, LA.

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
PEPPER & ASSOCIATES, INC. CONSULTING ENGINEERS			
<b>CONTRACT No. 5107</b>			
<b>TITLE AND INDEX SHEET</b>			
DR. M.E.C.			
TRC. M.E.C.			
CK. S.M.			
AP. J.R.			
SCALE			
DATE JAN. 1984	SET NO.		SHEET NO. 1 OF 6



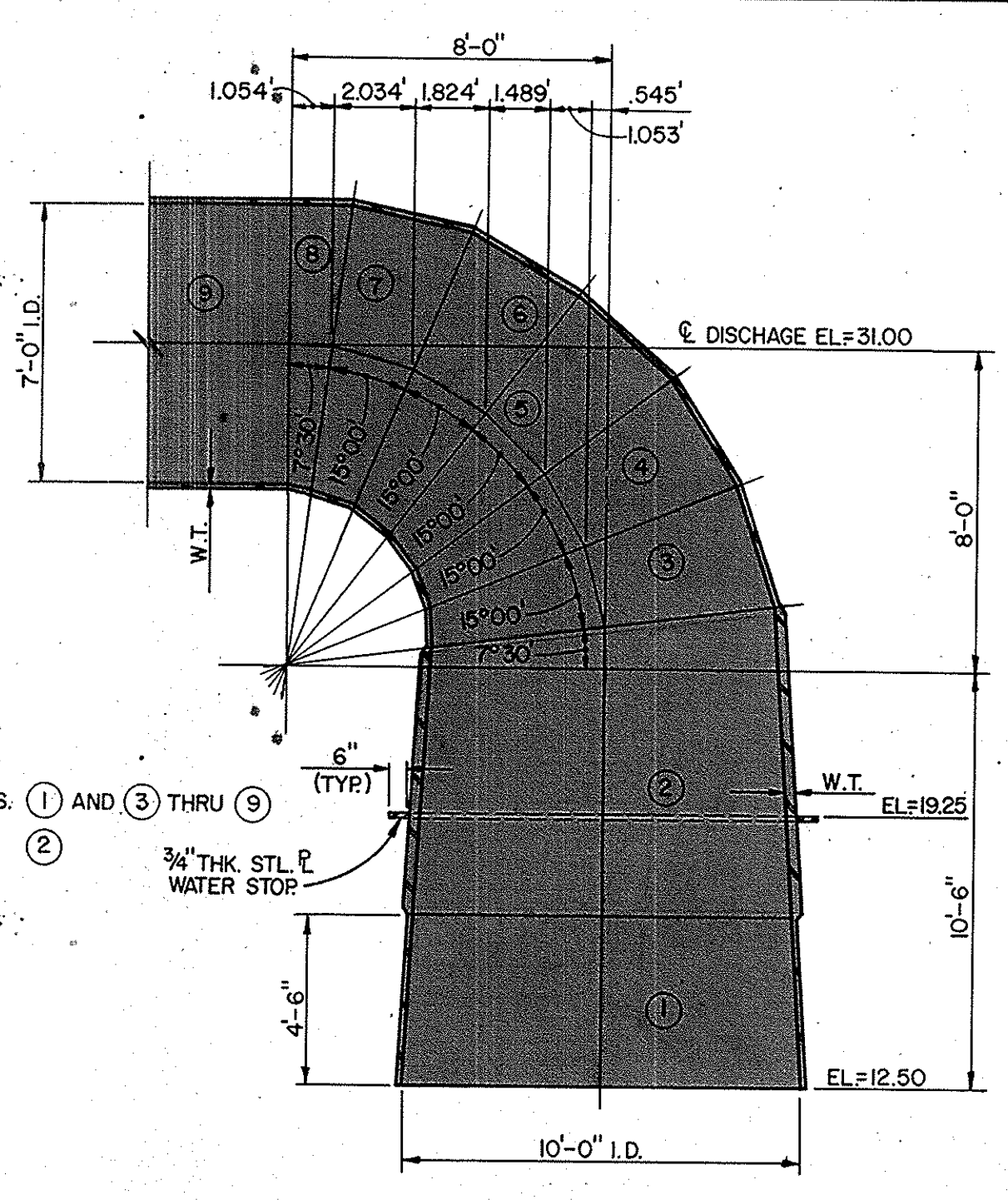


- NOTES:**
- ITEMS SHOWN SHADED ON THIS SHT. AND/OR INDICATED TO BE SUPPLIED "BY OTHERS" SHALL BE SUPPLIED BY THE PUMP MANUFACTURER.
  - ALL PIPE BRACES SHALL BE 12" LONG TO FACE OF FLANGE.

**PLAN - SUCTION AND DISCHARGE BASIN**

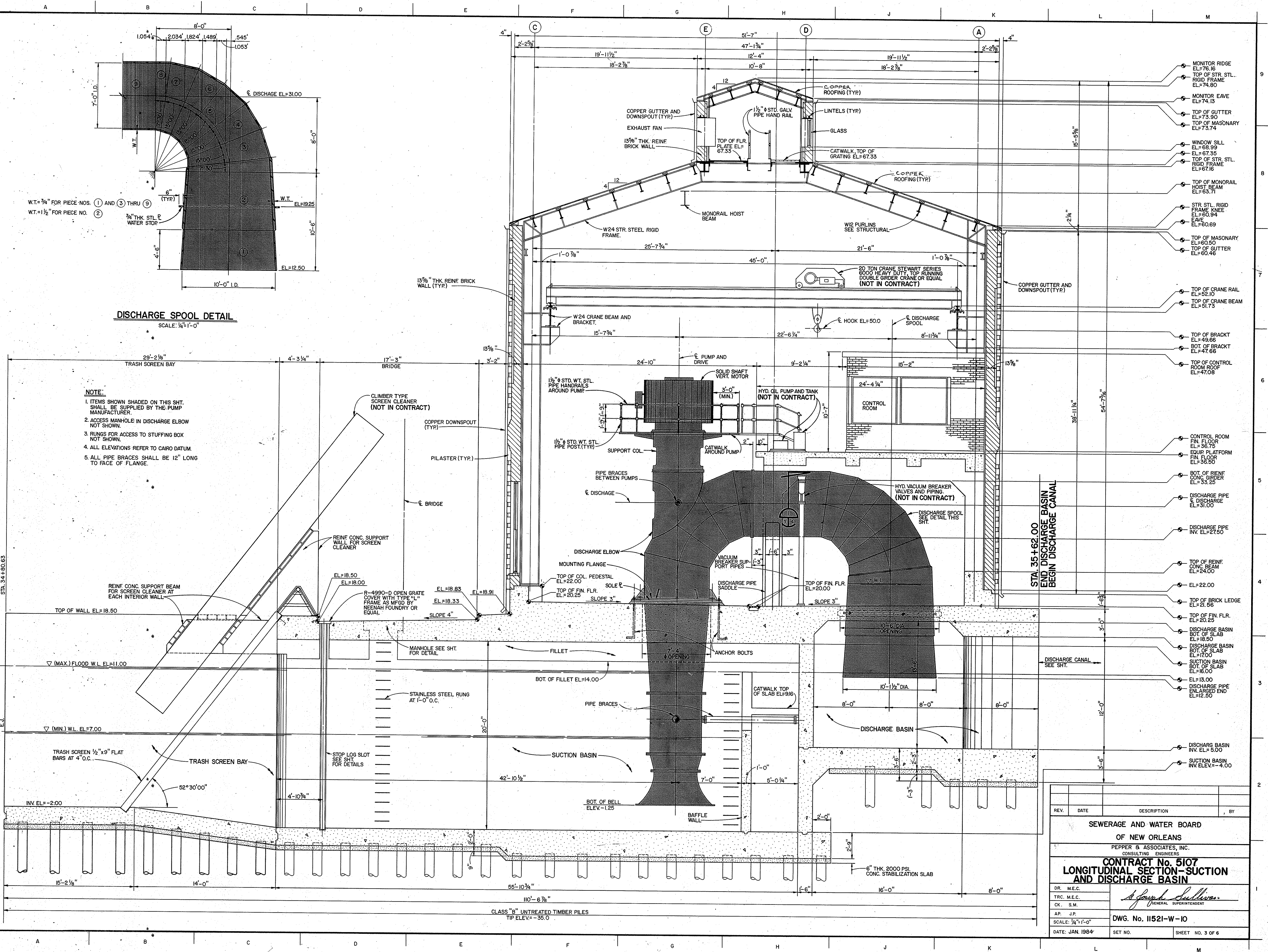
SCALE: 3/16" = 1'-0"

REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS			
PEPPER & ASSOCIATES, INC. CONSULTING ENGINEERS			
CONTRACT No. 5107 <b>PLAN-SUCTION AND DISCHARGE BASIN AND MISCELLANEOUS DETAILS</b>			
DR. R.G.	<i>A. Joseph Sullivan</i> GENERAL SUPERINTENDENT		
TRC. R.G.			
CK. S.M.			
AP. J.P.	DWG. No. 11521-W-10		
SCALE: AS SHOWN	SET No.	SHEET No. 2 OF 6	
DATE: JAN. 1984			

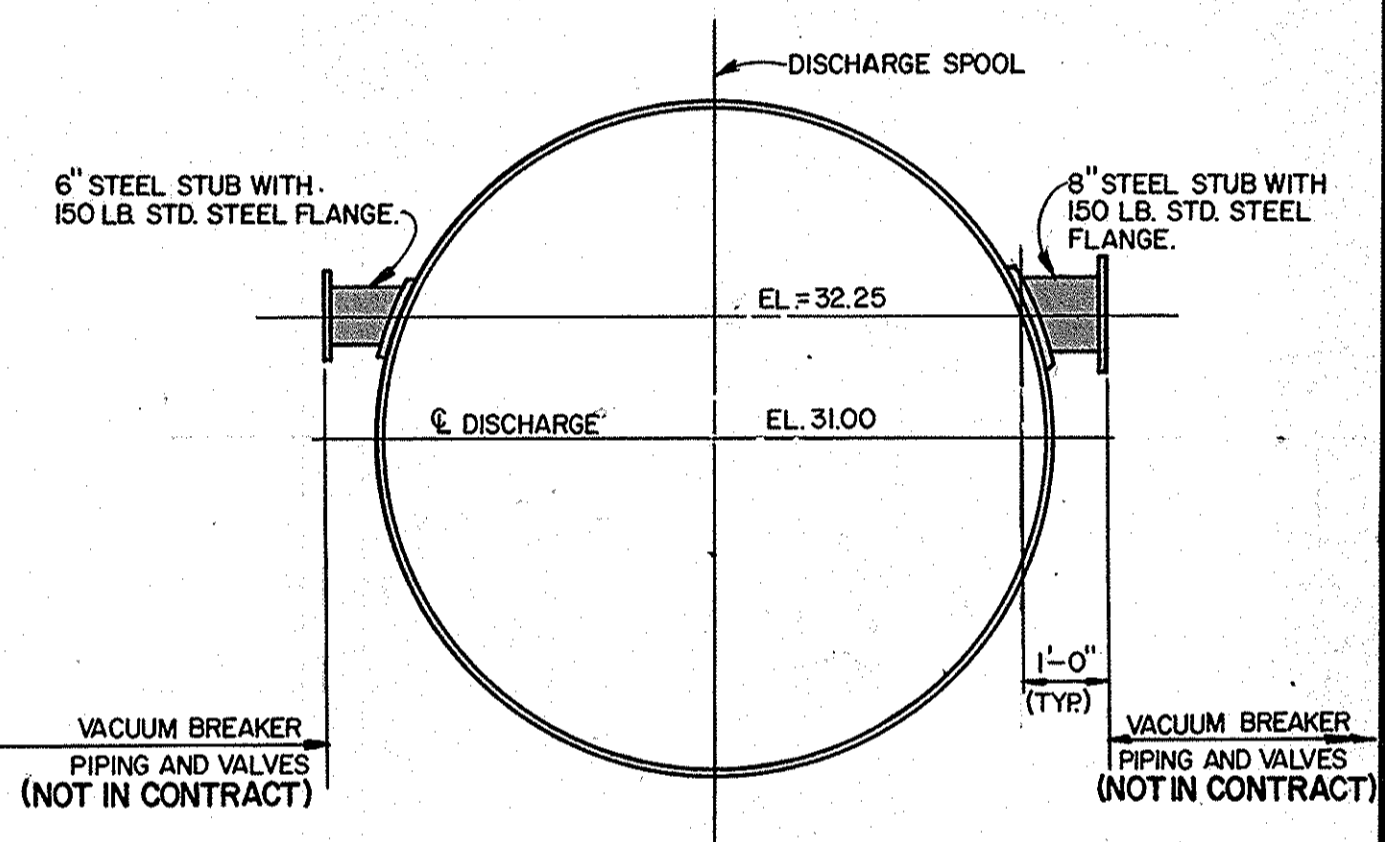
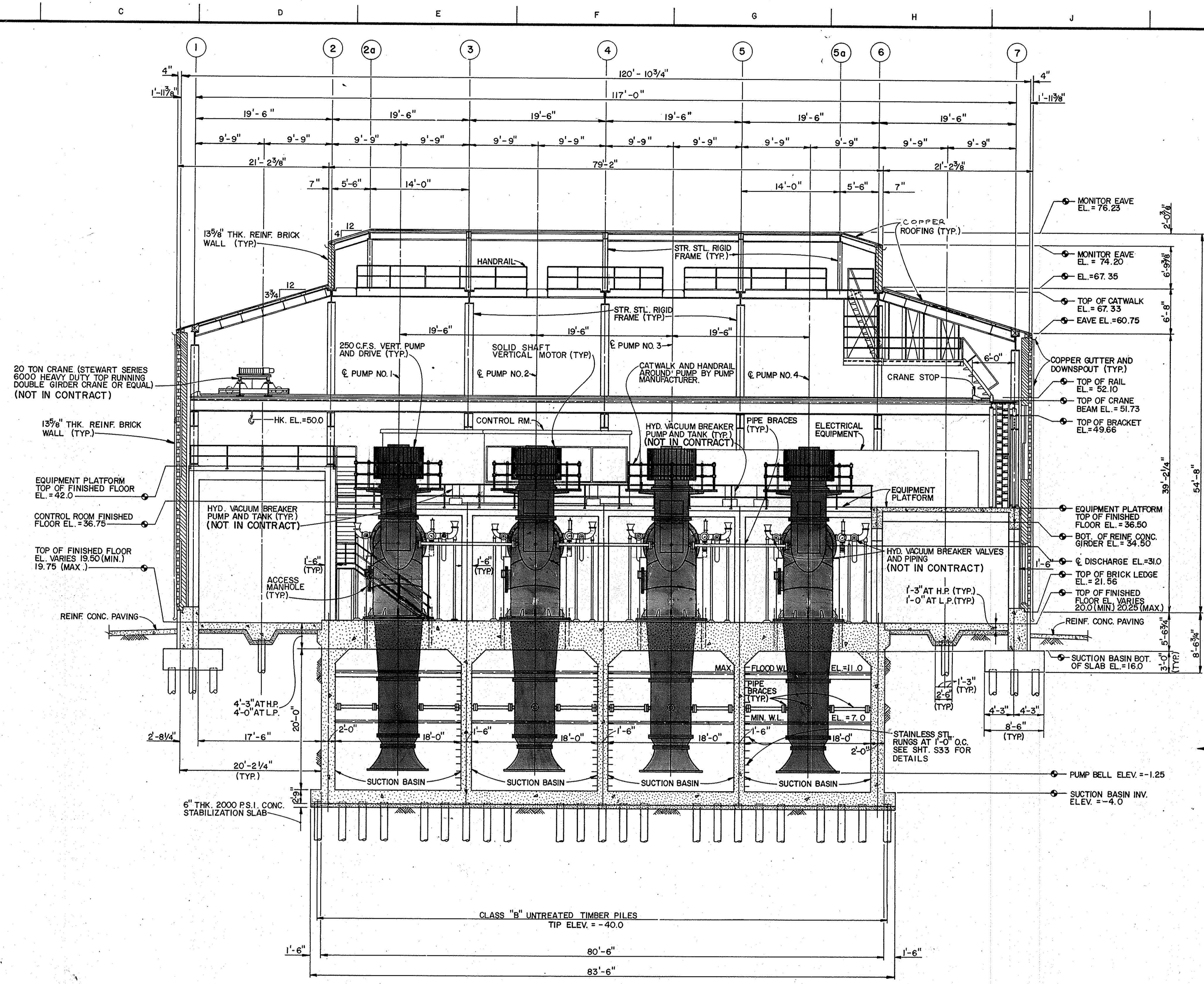


**DISCHARGE SPOOL DETAIL**  
SCALE: 1/4"=1'-0"

- NOTE:**
- ITEMS SHOWN SHADED ON THIS SHT. SHALL BE SUPPLIED BY THE PUMP MANUFACTURER.
  - ACCESS MANHOLE IN DISCHARGE ELBOW NOT SHOWN.
  - RUNGS FOR ACCESS TO STUFFING BOX NOT SHOWN.
  - ALL ELEVATIONS REFER TO CAIRO DATUM.
  - ALL PIPE BRACES SHALL BE 12" LONG TO FACE OF FLANGE.



REV.	DATE	DESCRIPTION	BY
SEWERAGE AND WATER BOARD OF NEW ORLEANS PEPPER & ASSOCIATES, INC. CONSULTING ENGINEERS			
<b>CONTRACT No. 5107 LONGITUDINAL SECTION-SUCTION AND DISCHARGE BASIN</b>			
DR. M.E.C.			
TRC. M.E.C.			
CK. S.M.			
AP. J.P.			
SCALE: 1/4"=1'-0"	<i>Joseph J. Pepper</i> GENERAL SUPERINTENDENT		
DATE: JAN. 1984	SET NO.	DWG. No. 11521-W-10	
		SHEET NO. 3 OF 6	



**CROSS SECTION - PUMPING STATION**  
SCALE: 1/8" = 1'-0"

**NOTES:**  
1. ALL ELEVATIONS REFER TO CAIRO DATUM.

**SECTION 71**  
SCALE: 1/2" = 1'-0"

- NOTES:**
- ITEMS SHOWN SHADED ON THIS SHT. WILL BE SUPPLIED BY THE PUMP MANUFACTURER.
  - RUNGS FOR ACCESS TO STUFFING BOX NOT SHOWN.
  - ALL PIPE BRACES SHALL BE 12" LONG TO FACE OF FLANGE.

REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD  
OF NEW ORLEANS**

PEPPER & ASSOCIATES, INC.  
CONSULTING ENGINEERS

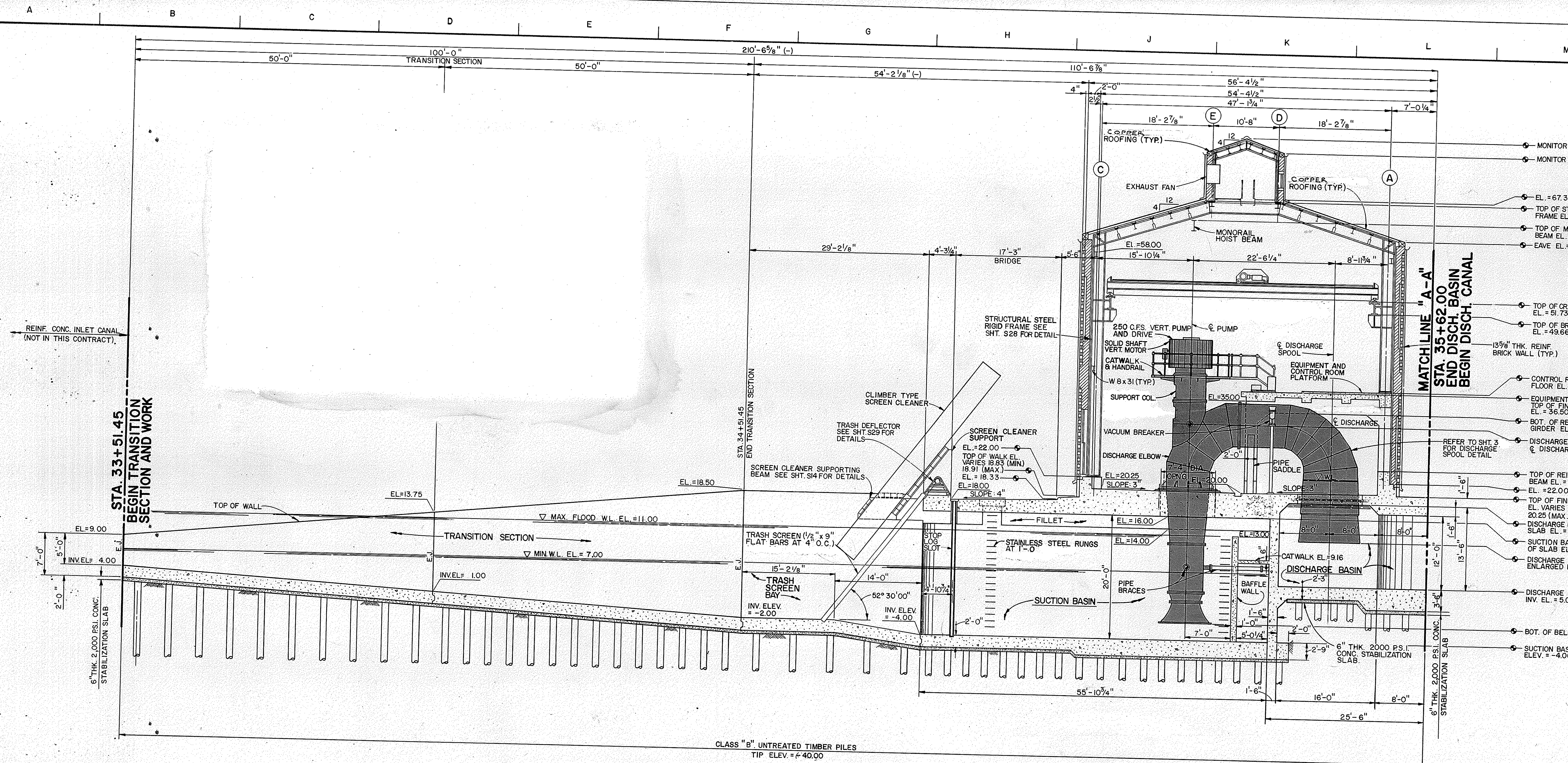
**CONTRACT NO. 5107**

**CROSS SECTION - PUMPING STATION**

DR. B.L.	<i>Joseph S. Sullivan</i> GENERAL SUPERINTENDENT
TRC. B.L.	
CK. S.M.	
AP. J.P.	

SCALE: 1/8" = 1'-0"      DWG. No. 11521-W-10

DATE: JAN. 1984      SET NO.      SHEET NO. 4 OF 6



**LONGITUDINAL SECTION - PUMPING STATION**

SCALE: 1/8" = 1'-0"  
 NOTES: 1. ALL ELEVATIONS REFER TO CAIRO DATUM.  
 2. CONTROL ROOM NOT SHOWN.

NOTES:  
 1. ITEMS SHOWN SHADED ON THIS SHT SHALL BE SUPPLIED BY THE PUMP MANUFACTURER.  
 2. ACCESS MANHOLE IN DISCHARGE ELBOW NOT SHOWN.  
 3. RUNGS FOR ACCESS TO STUFFING BOX NOT SHOWN.

REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD  
OF NEW ORLEANS**

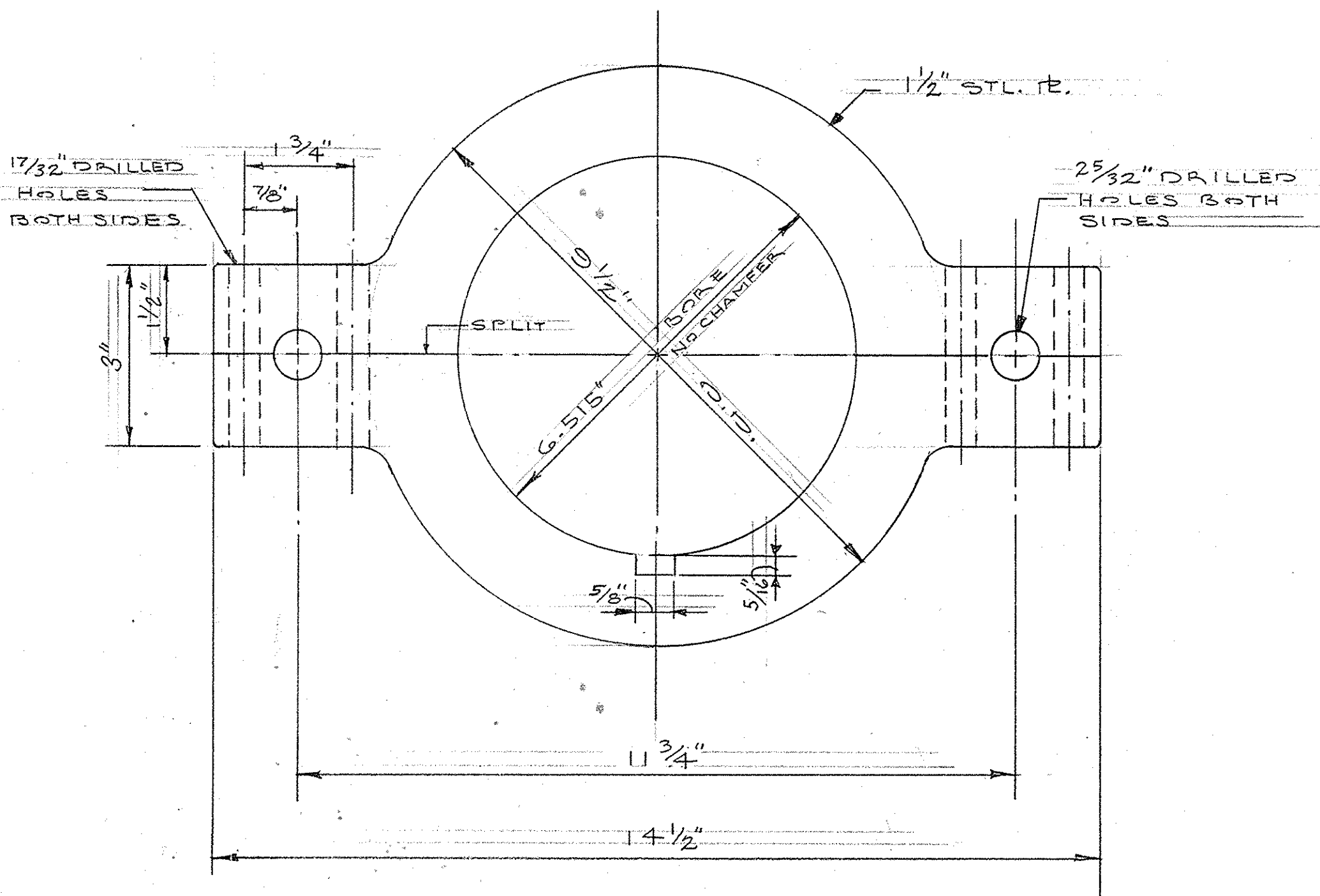
PEPPER & ASSOCIATES, INC.  
CONSULTING ENGINEERS

**CONTRACT NO. 5107  
LONGITUDINAL SECTION - PUMPING STATION**

DR. M.E.C.	<i>Joseph L. ...</i> GENERAL SUPERINTENDENT
TRC. M.E.C.	
CK. S.M.	
AP J.P.	

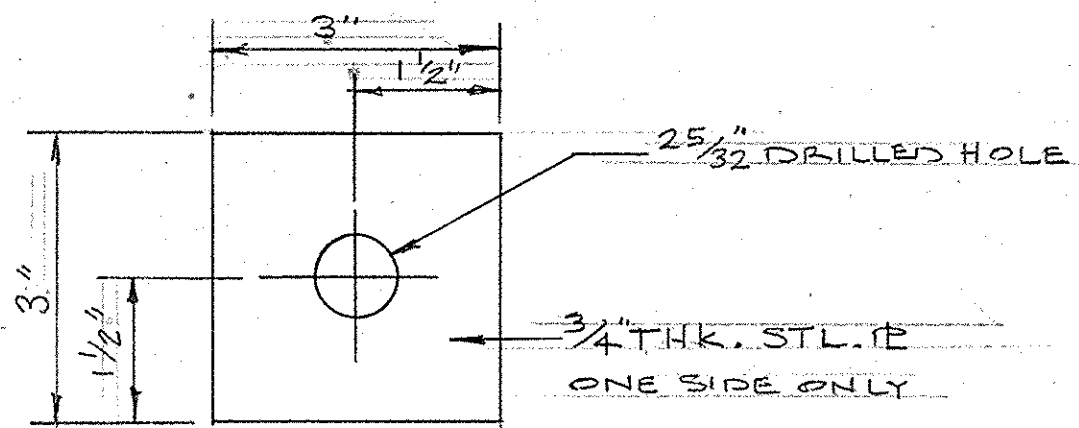
SCALE: AS SHOWN      DWG. No. 11521-W-10

DATE JAN. 1984	SET NO.	SHEET NO. 5 OF 6
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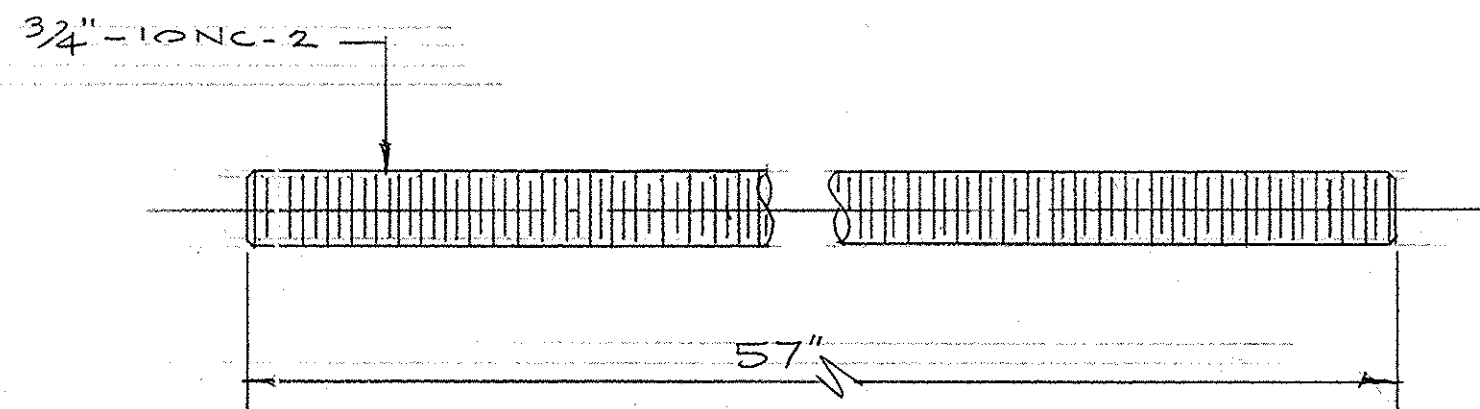
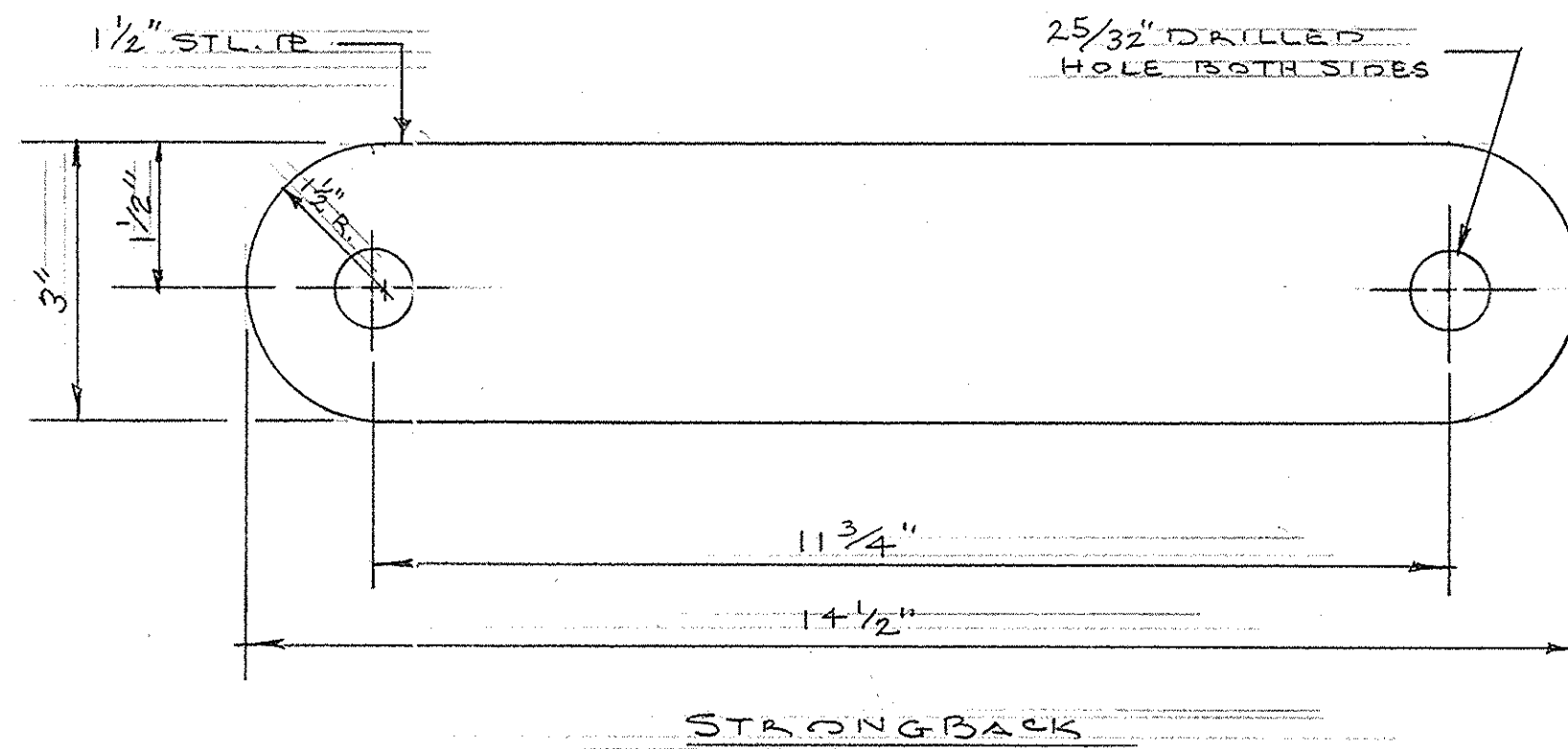
TEST PULLING RIG FOR CERAMIC SLEEVES  
CONCERNING (4) VERTICAL PUMPS FOR  
CITRUS DRAINAGE PUMPING STATION CONTRACT NO 5107

SCALE: 6" = 1'-0"



(2) REQ'D EACH PULLING RIG

SCALE: 6" = 1'-0"



PULLING BOLT  
(2) REQ'D

STRONGBACK AND PULLING BOLTS  
FOR CERAMIC SLEEVE TEST RIG FOR  
(4) VERTICAL PUMPS FOR CITRUS  
DRAINAGE PUMPING STATION, CONTRACT NO 5107

SCALE: 6" = 1'-0"

SEWERAGE AND WATER BOARD OF NEW ORLEANS	
CERAMIC SLEEVE TEST PULLING RIG FOR CITRUS DRAINAGE PUMPING STATION, C-5107	
DR. P. H. H.	DWG. NO. 11521-W-10
SCALE: 6" = 1'-0"	DATE: 3-20-85
	SHEET NO. 1 OF 1

FOR OTHER MOTOR DETAILS & DIMENSIONS, SEE SIEMENS-ALLIS INC. DWG 05-417-259-406

SHIM FOR ALIGNMENT SEE INSTRUCTION BOOK. ALSO SEE COUPLING SETTING NOTE-B SHEET-2 (E-16) FOR ADDITIONAL REQUIREMENTS.

PAINT NOTE:  
 CLEAN & PAINT DISCHARGE SPOOL JOINT AFTER FIELD WELDING AS FOLLOWS:-  
 (X)- INTERIOR SURFACES WITH COAL TAR EPOXY C-200 PER DWG. 08-610-001-475.  
 (Y)- EXTERIOR SURFACES ONE COAT OF RUST-OLEUM NO. 1069 PRIMER FOLLOWED BY ONE COAT RUST-OLEUM NO. 906 FINISH COAT PER DWG. 08-610-001-466.  
 (Z)- BLAST CLEAN THIS AREA PER 08-610-001-466, SURFACE PREPARATION PARAGRAPH, BEFORE GROUTING DISCHARGE SPOOL IN PLACE. PAINT EXPOSED AREA PER NOTE Y AFTER GROUTING.

- 01 6-13-84 KJL
- (K-14) ADDED NOTE
- (J-11) ADDED DIM.
- (B-12) ADDED EL.
- (K-11) ADDED EL.
- ADDED ITEM NO'S, SEE SHEETS 2 & 3.
- 02 8-13-84 KJL JT
- (K-10) WAS 76.4
- (J-10) WAS 93.0
- (J-11) WAS 44.0
- (K-10) WAS 45.11 FT.
- (K-15) WAS 05-508-314-466
- (K-15) WAS 38.78 FT.
- (K-12) WAS 29.5
- ROTATED BOX 180°.
- (A-8) ADDED RUNOUTS. SEE SHEET- 2 & 3
- 03 3-20-85 KJL JT
- (A-16) ADDED.
- (K-12) ADDED DIM.
- (K-13) WAS 150.0 DIA. SEE SHEETS 2 & 3
- 04 9-12-85 KJL

WALKWAY AROUND DRIVER  
 TOP OF WALKWAY EL. 38.76 FT.  
 SEE SHEET 3 H

SEE DETAIL C SHEET 2.  
 COUPLING GUARD BY ALLIS-CHALMERS  
 2-ACCESS OPENINGS 180° APART

FOR STUFFING BOX SEE DETAIL B SHEET 2.

LADDER FOR ACCESS TO STUFFING BOX (FAR SIDE) LADDER BY ALLIS-CHALMERS.

PIPE BRACE ATTACHMENT BY A-C. (PIPE BRACE BY OTHERS). SEE VIEW G-G SHEET 2

30.0 DIA. ACCESS MANHOLE

SEE SHEET 3. A

SUPPORT EL. 20.75 FT.

FINISHED FLOOR EL. 20.00 FT. TO EL. 20.25 FT.

SEE DETAIL D SHEET 2.

F.W.L. EL. 11.00 FT.

N.W.L. EL. 8.00 FT.

L.W.L. EL. 7.00 FT.

274.5 TO CENTERLINE OF DISCHARGE

EL. 8.12 FT.

SEE SHEET 2

HORIZONTAL & IMPELLER EL. 2.75 FT.

SEE PUMP ASSEMBLY-LOWER AIR 08-115-143-529 FOR ASSEMBLY INSTRUCTIONS. ITEM NO'S SHOWN ARE LISTED ON FINAL ORDER COMPLETE 08-115-144-641 & 642

SUMP FLOOR EL. -4.00 FT.

DISCHARGE SPOOL WITH 56-1.000 DIA. BOLTS (GRADE B6) FURNISHED BY ALLIS-CHALMERS TORQUE BOLTS TO 360 FT. LBS.

APPLY PERMATEX #2 (27) TO FLANGE FACE BEFORE ASSEMBLING ITEM 52 TO 3

WELD NOTE:-  
 100% WELD WATERTIGHT USE CLASS E-60 WELD ELECTRODE. WELDERS TO BE A.S.M.E. QUALIFIED OR EQUIVALENT. PAINT PER NOTE X & Y. (K-7)

8.0-150 LB STEEL FLAT FACE SLIP ON FLANGE FOR VACUUM BREAKER CONNECTION.

6.0-150 LBS. STEEL FLAT FACED SLIP ON FLANGE FOR VACUUM BREAKER CONNECTION.

VIEW J-J (NOT TO SCALE)

ESTIMATED WEIGHTS ( LBS. )

PUMP COMPLETE ( DRY )	-----60,000
WATER IN COLUMN ABOVE LWL EL. 7.00 FT.	-----75,000
MOTOR	-----21,000
<b>TOTAL SUPPORTED WEIGHT</b>	<b>-----156,000</b>
PUMP SUPPORT PLATE	-----2,900
DISCHARGE SPOOL	-----26,620

RATING

CAPACITY	-----112,200 G.P.M.
POOL TO POOL HEAD	--21.5 FT.
SPEED	-----320 R.P.M.

FINAL ORDER COMPLETE WITH TOOLS & PAINT 08-115-144-641 ITEMS 1,2,3, ETC.  
 FINAL ORDER COMPLETE WITHOUT TOOLS & PAINT 08-115-144-642  
 FOUNDATION MATERIAL 08-114-800-666 ITEMS 102,103, ETC.

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 CITRUS DRAINAGE STATION  
 VERTICAL DRAINAGE PUMP

CUSTOMER CONTRACT NO. 5107  
 ALLIS-CHALMERS ORDER NO. 01-0800-09326

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME OUTLINE FINAL ASSEMBLY	
UNLESS OTHERWISE SPECIFIED:		MATERIAL 102 X 84 WCAX PUMP	
1. PLACE DEC 1	ANGULAR	✓	
2. PLACE DEC 2			
3. PLACE DEC 3			
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		✓	MACHINED SURFACE TEXTURE
DR 08-115-22-84	SIMILAR TO	THIRD ANGLE PROJECTION	CAD
CH 08-115-13-84	SCALE 1:30	SHEET 1	PART NO. 08-405-282-411
AP 08-115-14-84			

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 MECHANICAL ENGINEERING DEPARTMENT  
 APPROVED  REVISE & RESUBMIT  APP. AS NOTED  REJECTED  
 The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.  
 It shall not relieve the contractor of the responsibility for errors, discrepancies, omissions or other requirements of the contract obligations.  
 Approved by: *Joseph W. Klein* Engineer  
 Date: JUL 23 1985 for Gen'l Supt.

FILE COPY

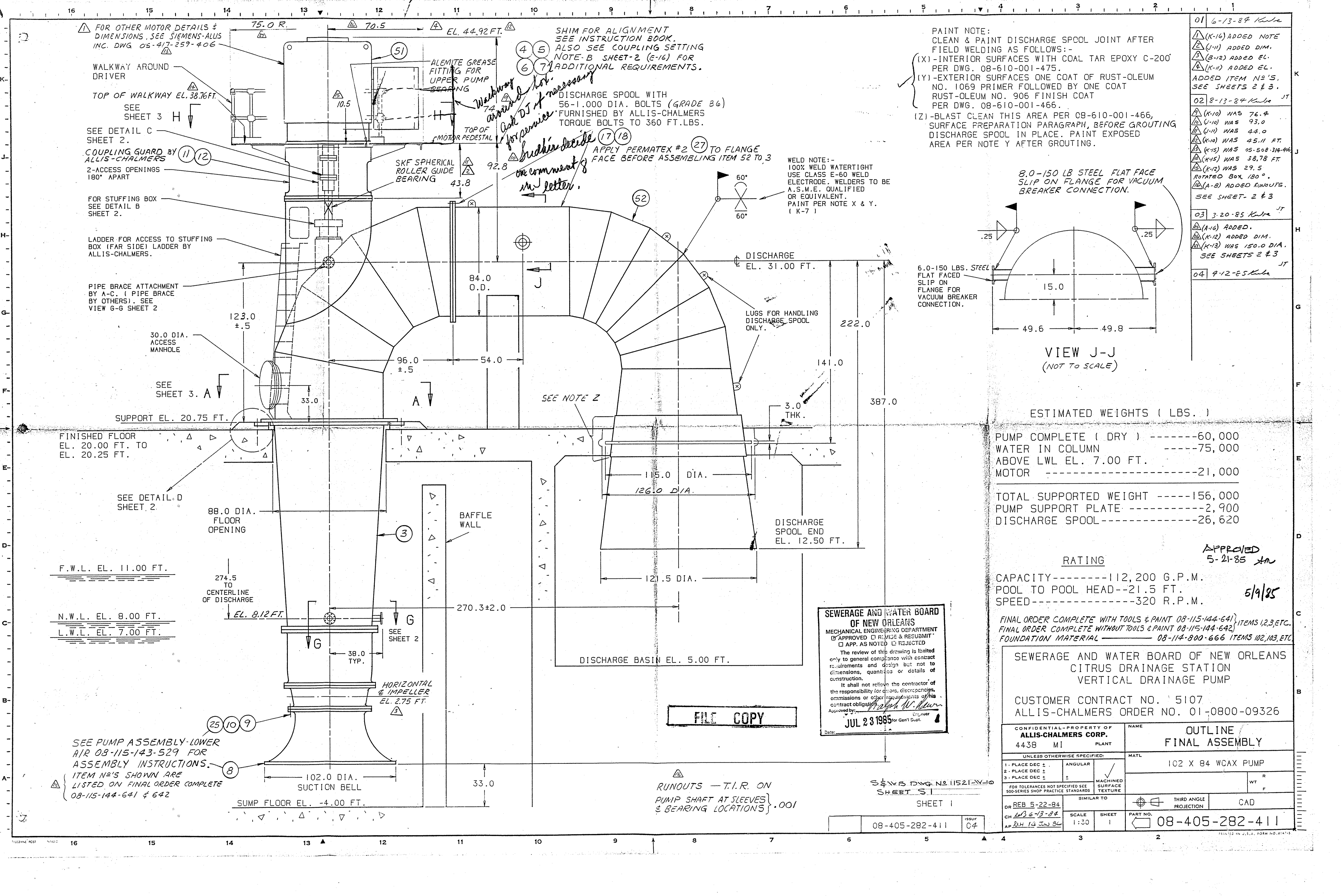
RUNOUTS - T.I.R. ON PUMP SHAFT AT SLEEVES & BEARING LOCATIONS .001

S&WB DWG NO 11521-N-10 SHEET 5

SHEET 1

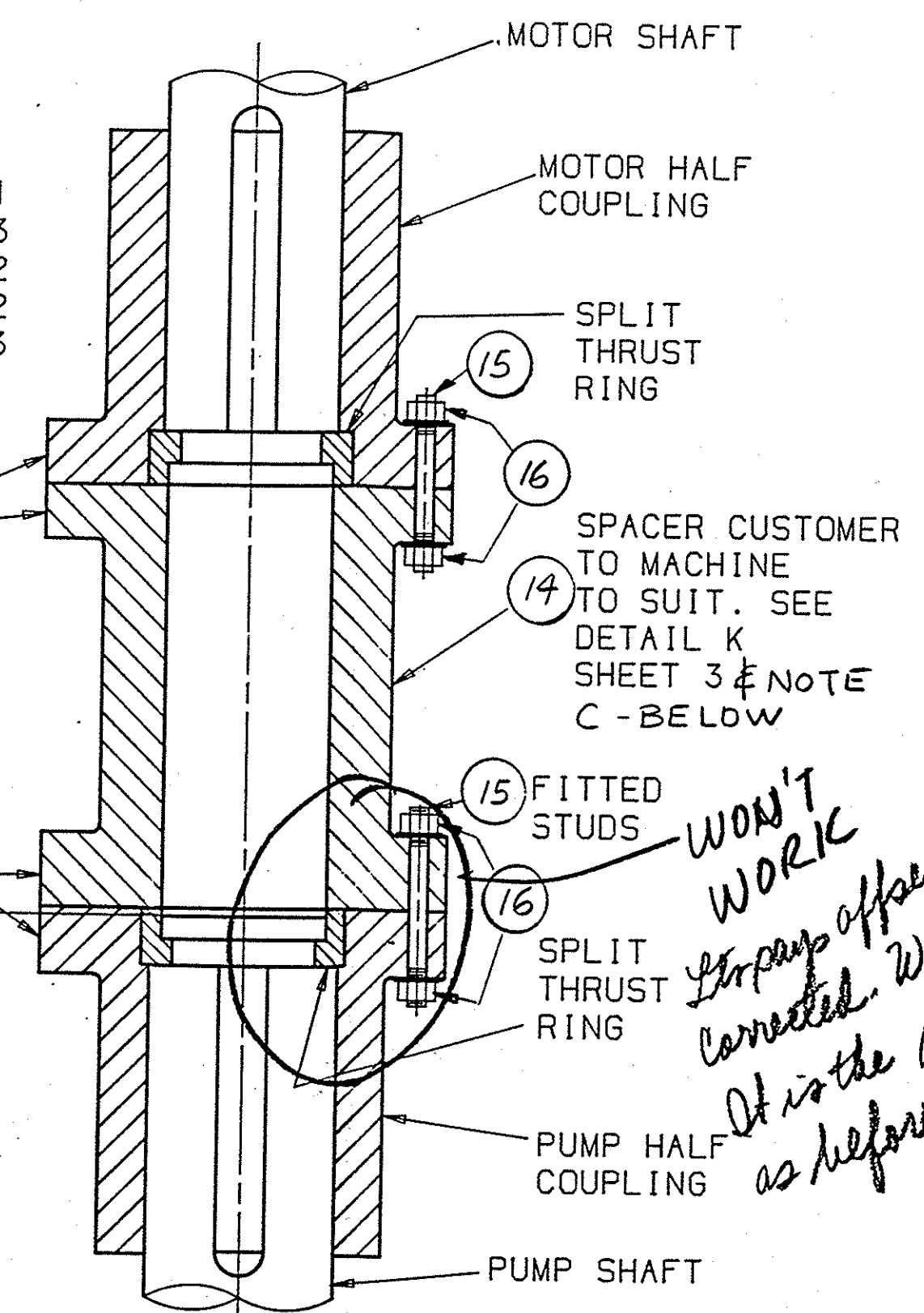
08-405-282-411

ISSUE 04

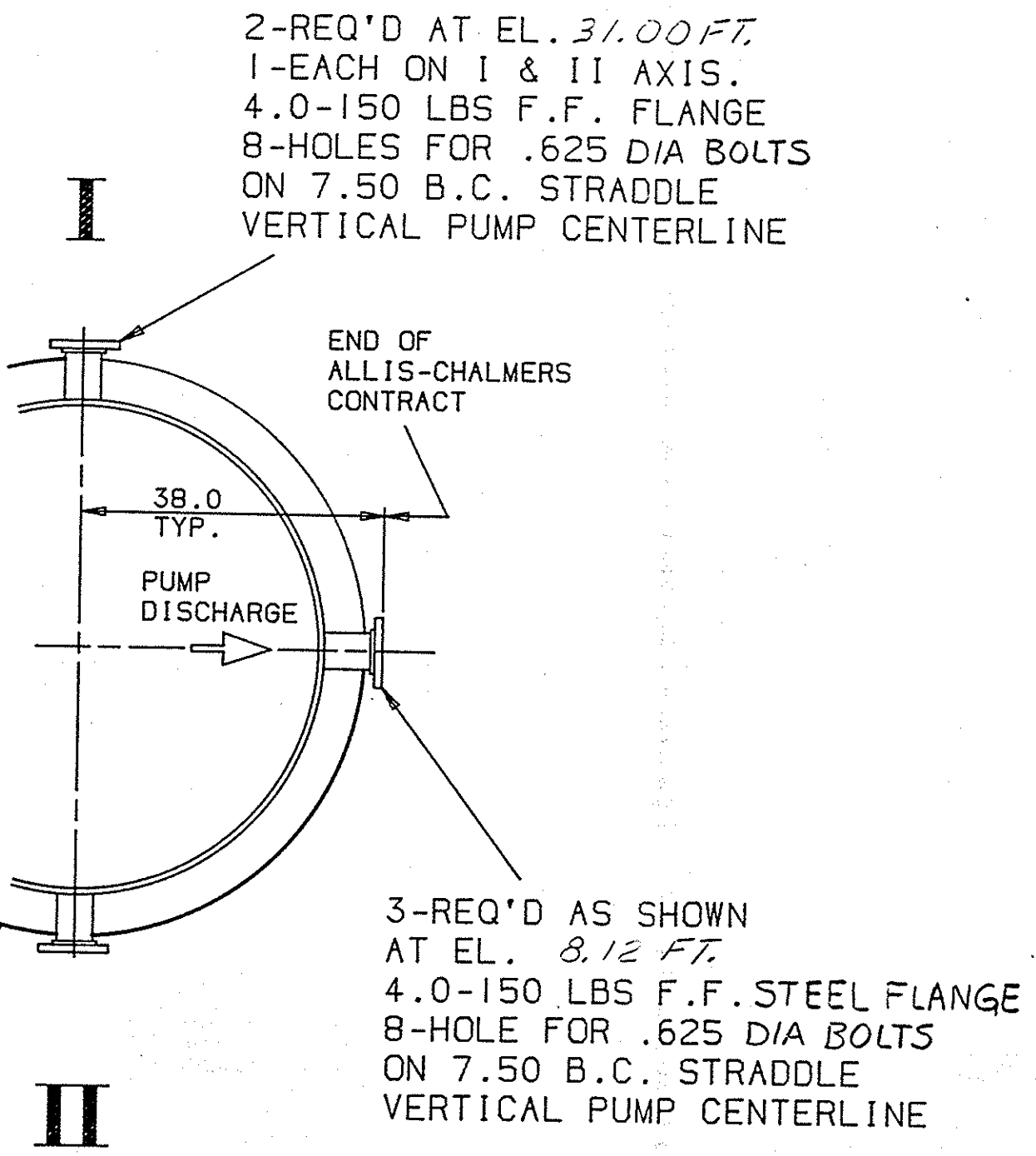


RUNOUTS - T.I.R. ON  
COUPLING FACES .001  
COUPLING OUTSIDE DIA. .003  
MOTOR SHAFT .002  
PUMP SHAFT .002  
SPACER OUTSIDE DIA. .003

MOTOR HALF COUPLING & SPACER.  
SPACER & PUMP HALF COUPLING.  
ARE MATCH MARKED AND STAMPED  
WITH PUMP SERIAL NO.  
SELECT CORRESPONDING PUMP  
COUPLING SERIAL NO. SPACER,  
AND MOTOR COUPLING,  
WHEN ASSEMBLING MOTOR TO PUMP.



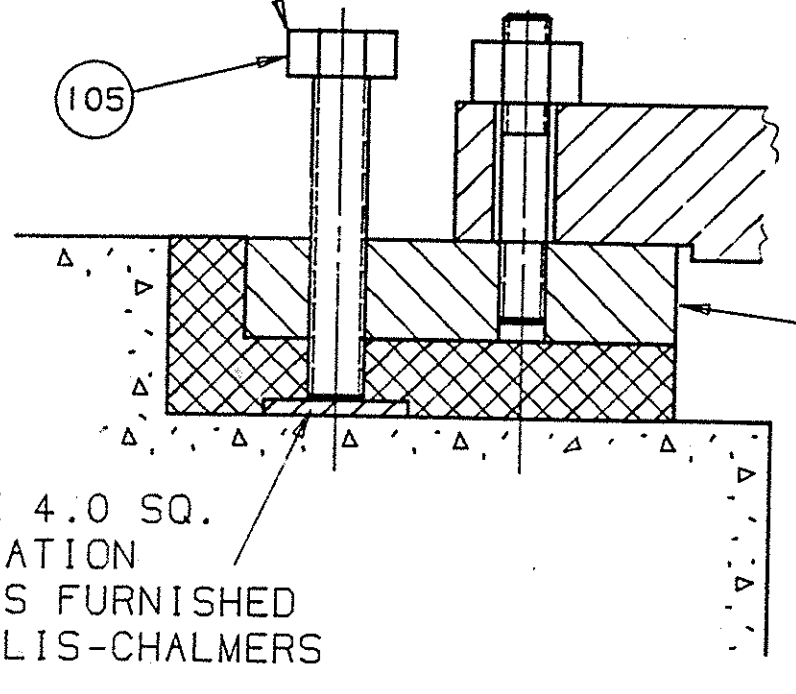
DETAIL C SCALE NONE  
SHEET 1 (E-15)



VIEW G-G SCALE 1:20  
SHEET 1 C-12 & H-16.

- SEE INSTRUCTION BOOK FOR STEP BY STEP INSTRUCTIONS FOR COUPLING ALIGNMENT. ENSURE THAT THE MOTOR, PUMP, AND SPACER COUPLING ALL HAVE THE SAME SERIAL NUMBERS.
- SHIM UNDER THE MOTOR UNTIL THE MOTOR HALF COUPLING AND PUMP HALF COUPLING FLANGE FACES ARE PARALLEL WITHIN .001. SHIFT THE MOTOR UNTIL THE RUNOUT OF THE MOTOR COUPLING FLANGE O.D. WITH RESPECT TO THE PUMP COUPLING FLANGE O.D. IS WITHIN .003.
- MEASURE THE DISTANCE BETWEEN THE TWO FACES. MACHINE THE SPACER COUPLING TO THIS DIMENSION LESS .170 INCHES. SEE DETAIL K SHEET 3.
- ALIGN THE MATCHMARKS BETWEEN THE SPACER COUPLING AND THE PUMP HALF COUPLING. INSTALL THE FITTED STUDS IN THIS FLANGE AND TIGHTEN TO 250 FT. LBS.
- ROTATE THE MOTOR ELEMENT UNTIL THE SPACER COUPLING MATCHMARK IS ALIGNED WITH THE MOTOR COUPLING MATCHMARK. SHIFT THE MOTOR AGAIN UNTIL THE FITTED STUDS DROP EASILY THROUGH THE HOLES. MAKE A FINAL CHECK FOR PARALLELISM. TIGHTEN THE STUDS TO 250 FT. LBS. THIS WILL RAISE THE IMPELLER .170 INCHES TO SET THE REQUIRED RUNNING CLEARANCE OF .032 INCHES.

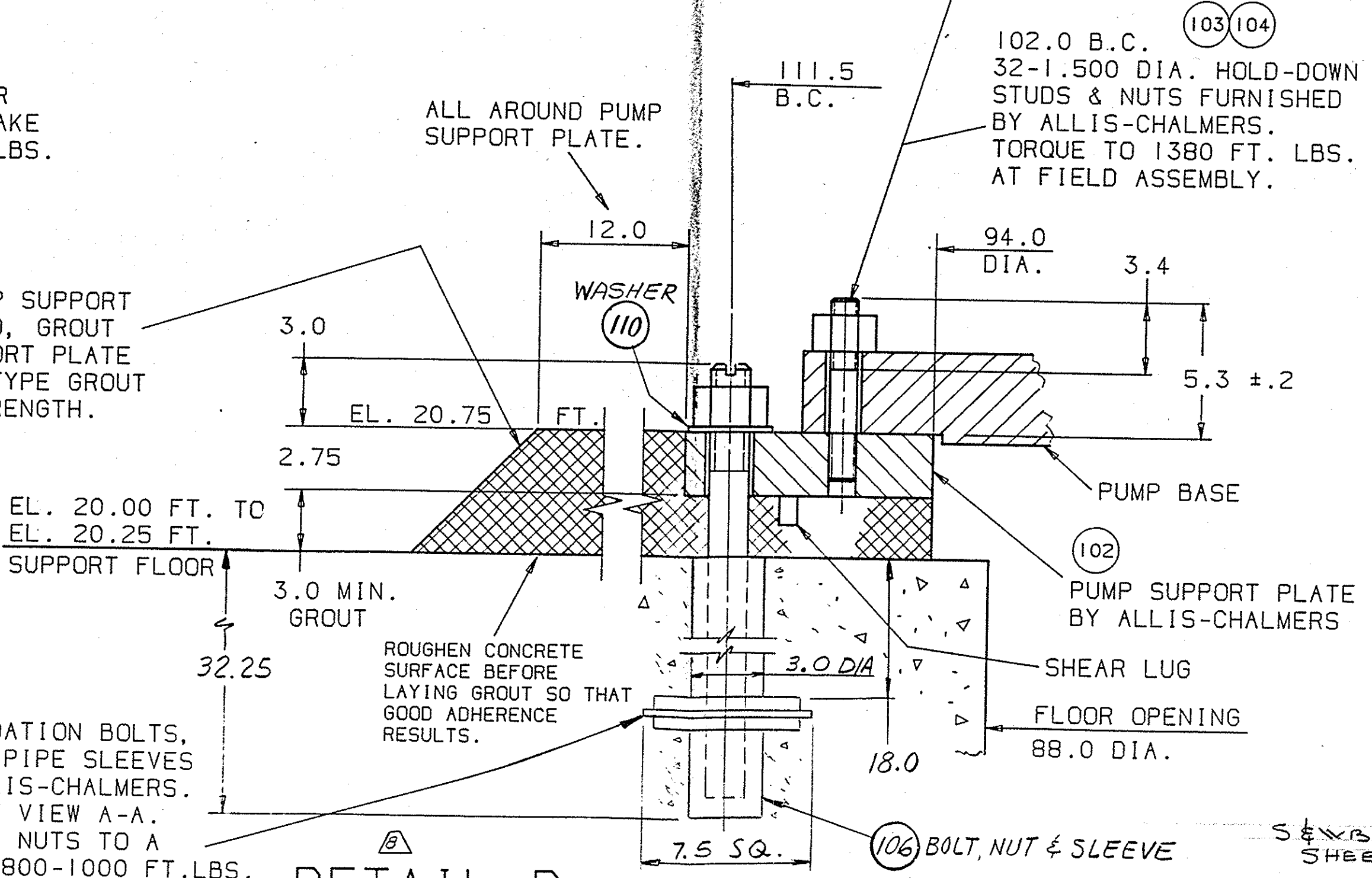
8- LEVELING SCREWS. REMOVE AFTER GROUT IS SET, THEN RE-TORQUE FOUNDATION BOLTS AS RECOMMENDED IN DETAIL D (A-11) 1.500-6 X 10.0 LG. LEVELING SCREWS FURNISHED BY ALLIS-CHALMERS. LUBRICATE THREADS.



DETAIL E SCALE NONE  
SHEET 3 (E-7)

AFTER PUMP & PUMP SUPPORT PLATE ARE LEVELED, GROUT AROUND PUMP SUPPORT PLATE WITH NON-SHRINK TYPE GROUT OF SUFFICIENT STRENGTH.

1.750 DIA. FOUNDATION BOLTS, NUTS, WASHERS & PIPE SLEEVES FURNISHED BY ALLIS-CHALMERS. 16-REQUIRED, SEE VIEW A-A, SHEET 3. TIGHTEN NUTS TO A TORQUE VALUE OF 800-1000 FT.-LBS. AT FIELD ASSEMBLY.



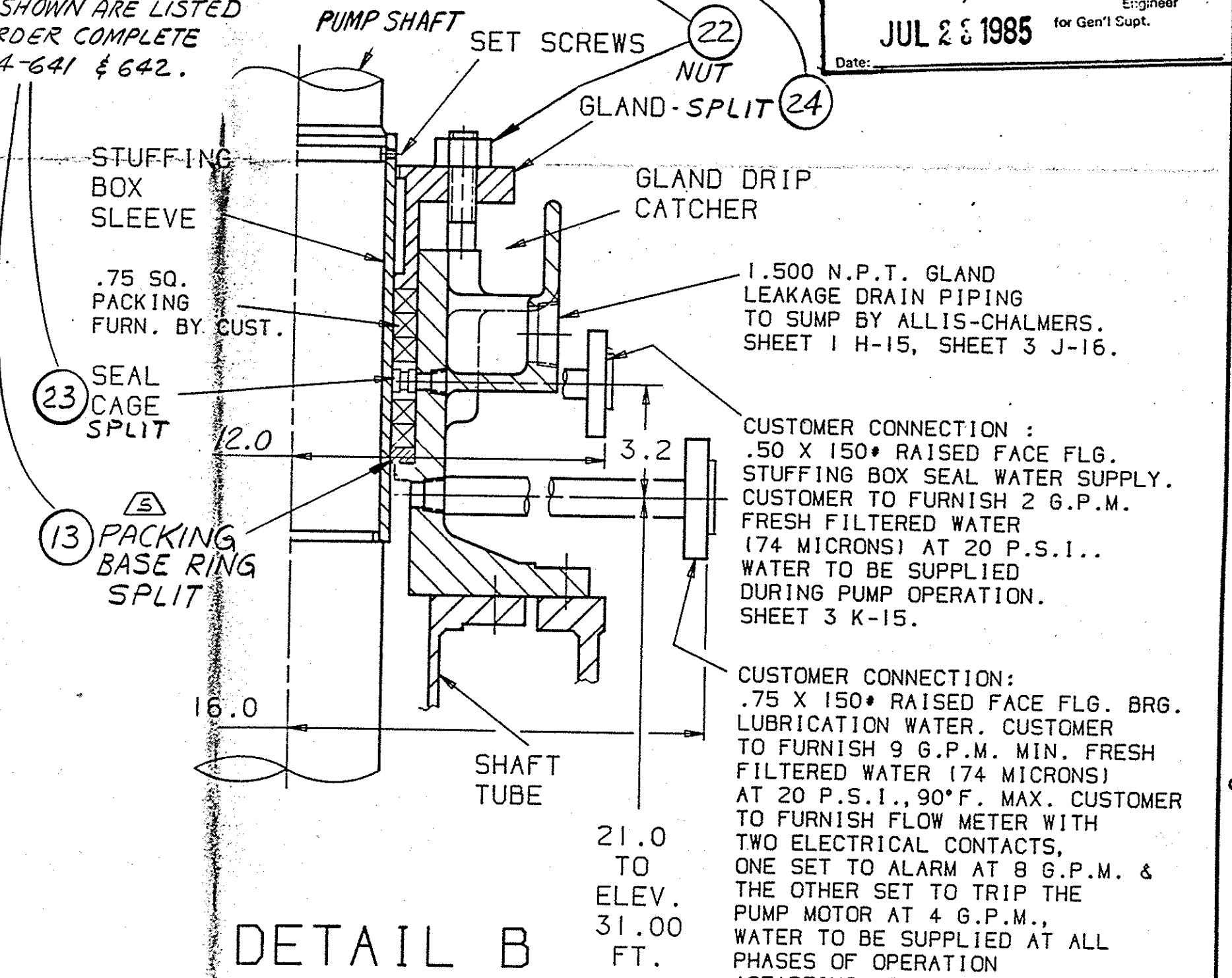
DETAIL D SCALE NONE  
SHEET 1 E-15, SHEET 3 K-11, K-15, F-16

NOTES:

- ALLIS-CHALMERS CONTRACT ENDS AT THE DISCHARGE SPOOL CONE END. NO BOLTS, NUTS, GASKETS PIPE OR FITTINGS INCLUDED BEYOND THAT POINT.
- ALLIS-CHALMERS WILL FURNISH PUMP SUPPORT PLATE (WITH LEVELING SCREWS) TOGETHER WITH STUDS & NUTS NECESSARY TO SECURE PUMP TO PUMP SUPPORT PLATE AND THE FOUNDATION BOLTS, NUTS, WASHERS AND PIPE SLEEVES TO HOLD PUMP SUPPORT PLATE TO CONCRETE FOUNDATION.
- DISCHARGE SPOOL MUST BE SUPPORTED NEAR THE PUMP TO AVOID PLACING PIPE STRAINS ON THE PUMP. ALL GROUT MUST BE OF THE NON-SHRINK TYPE AND OF SUFFICIENT STRENGTH.
- ROTATION OF PUMP IS CLOCKWISE WHEN VIEWING UNIT FROM TOP.
- LIFTING DEVICE WILL BE FURNISHED BY ALLIS-CHALMERS FOR LIFTING ONLY THE PUMP ASSEMBLY. (NOT INCLUDING THE MOTOR).
- THE FOUNDATION SHALL BE SUFFICIENTLY RIGID TO ABSORB ANY PERMISSIBLE VIBRATIONS AND SHALL BE ADEQUATELY SUPPORTED SUCH THAT WHEN SUBJECTED TO LOAD OF THE PUMP AND DRIVER, THE LEVEL, AS MEASURED ON THE DRIVER MOUNTING FLANGE, IS MAINTAINED TO WITHIN .002 INCH PER FOOT IN ALL DIRECTIONS. THIS IS IMPORTANT TO PERMIT THE ALIGNMENT OF THE PUMP AND DRIVER COUPLING AND TO PROVIDE A VERTICAL ALIGNMENT OF THE PUMP SHAFT IN ITS BEARING.
- FOR HANDLING AND SHIPPING DWG SEE 08-405-212-444.

8. ALL DIMENSIONS SHOWN IN INCHES & FRACTIONS THERE OF EXCEPT AS NOTED.

SEE PUMP ASSEMBLY AIR 08-115-143-530 & INSTRUCTION BOOK FOR ASSEMBLY INSTRUCTIONS.  
ITEM NO'S SHOWN ARE LISTED ON FINAL ORDER COMPLETE 08-114-144-641 & 642.



DETAIL B SCALE NONE  
SHEET 1 H-13, SHEET 3 K-15

CUSTOMER CONNECTION: .50 X 150\* RAISED FACE FLG. STUFFING BOX SEAL WATER SUPPLY. CUSTOMER TO FURNISH 2 G.P.M. FRESH FILTERED WATER (174 MICRONS) AT 20 P.S.I.. WATER TO BE SUPPLIED DURING PUMP OPERATION. SHEET 3 K-15.

CUSTOMER CONNECTION: .75 X 150\* RAISED FACE FLG. BRG. LUBRICATION WATER. CUSTOMER TO FURNISH 9 G.P.M. MIN. FRESH FILTERED WATER (174 MICRONS) AT 20 P.S.I.. 90° F. MAX. CUSTOMER TO FURNISH FLOW METER WITH TWO ELECTRICAL CONTACTS, ONE SET TO ALARM AT 8 G.P.M. & THE OTHER SET TO TRIP THE PUMP MOTOR AT 4 G.P.M.. WATER TO BE SUPPLIED AT ALL PHASES OF OPERATION (STARTING, STOPPING, RUNNING & STANDBY). SHEET 3 K-15.

APPROVED 5-21-85  
SM 5/19/85

SEWERAGE AND WATER BOARD  
OF NEW ORLEANS  
MECHANICAL ENGINEERING DEPARTMENT  
APPROVED  REVISE & RESUBMIT  APP. AS NOTED  REJECTED

The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.

It shall not relieve the contractor of the responsibility for errors, discrepancies, omissions or other requirements of his contract obligations.

Approved by: *Joseph M. Lewis*  
Engineer

JUL 2 1985 for Gen'l Supt.

01	6-13-84	WLR
△(D-4) ADDED.		
△(C-14) ADDED: .032 IN.		
△(G-7) ADDED NOTE-B.		
△(A-10) DETAIL D REVISED TO SHOW FOUNDATION BOLT BEING USED.		
02	8-13-84	WLR JT
NOTES 5 REVISED PER CUSTOMER REQUEST.		
03	3-20-85	WLR JT
△(F-6) ADDED		
04	7-12-85	WLR

FILE COPY

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME OUTLINE FINAL ASSEMBLY
UNLESS OTHERWISE SPECIFIED:		MATL 102 X 84 WCAX PUMP
1- PLACE DEC ±	ANGULAR	MACHINED SURFACE TEXTURE
2- PLACE DEC ±	✓	
3- PLACE DEC ±	±	
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		WT R P
SIMILAR TO		THIRD ANGLE PROJECTION
DR REB 5-22-84	SCALE NTS	CAD
CH 6-13-84	SHEET 2	PART NO. 08-405-282-411
AP PRH 14 JUN 84	ISSUE 04	

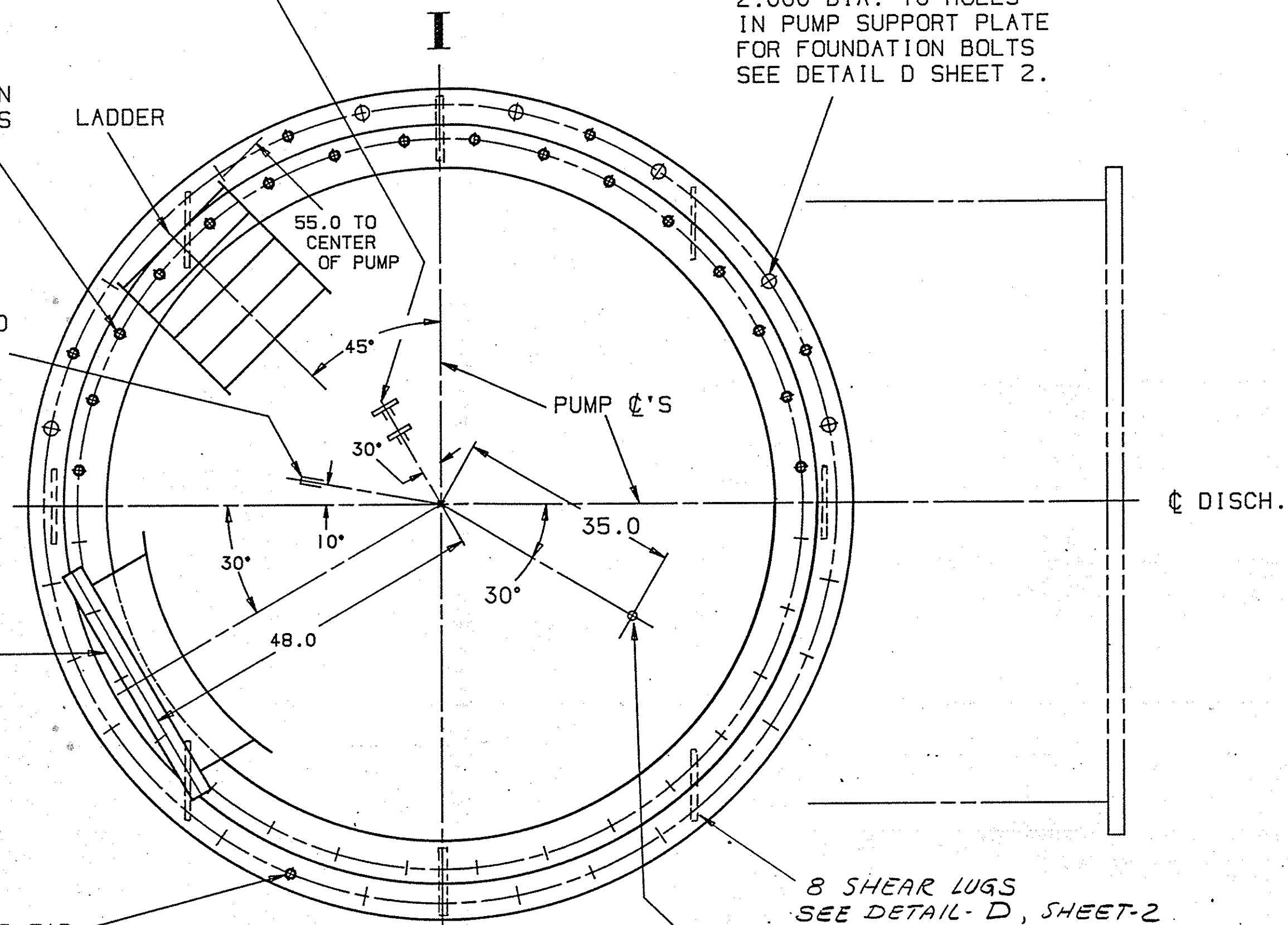
.50-150\* FLG. (STUFF. BOX SEAL WATER SUPPLY)  
 .75-150\* FLG. (BRG. LUBE WATER)  
 SEE DETAIL B, SHEET 2.

PUMP HOLD DOWN STUDS AND NUTS  
 SEE DETAIL D SHEET 2.

1.5 PIPE GLAND LEAKAGE DRAIN TO SUMP SEE DETAIL B SHEET 2.

ACCESS MANHOLE

1.500-6 UNC-2B TAP 8-HOLES IN PUMP SUPPORT PLATE FOR LEVELING SCREWS SEE DETAIL E SHEET 2.

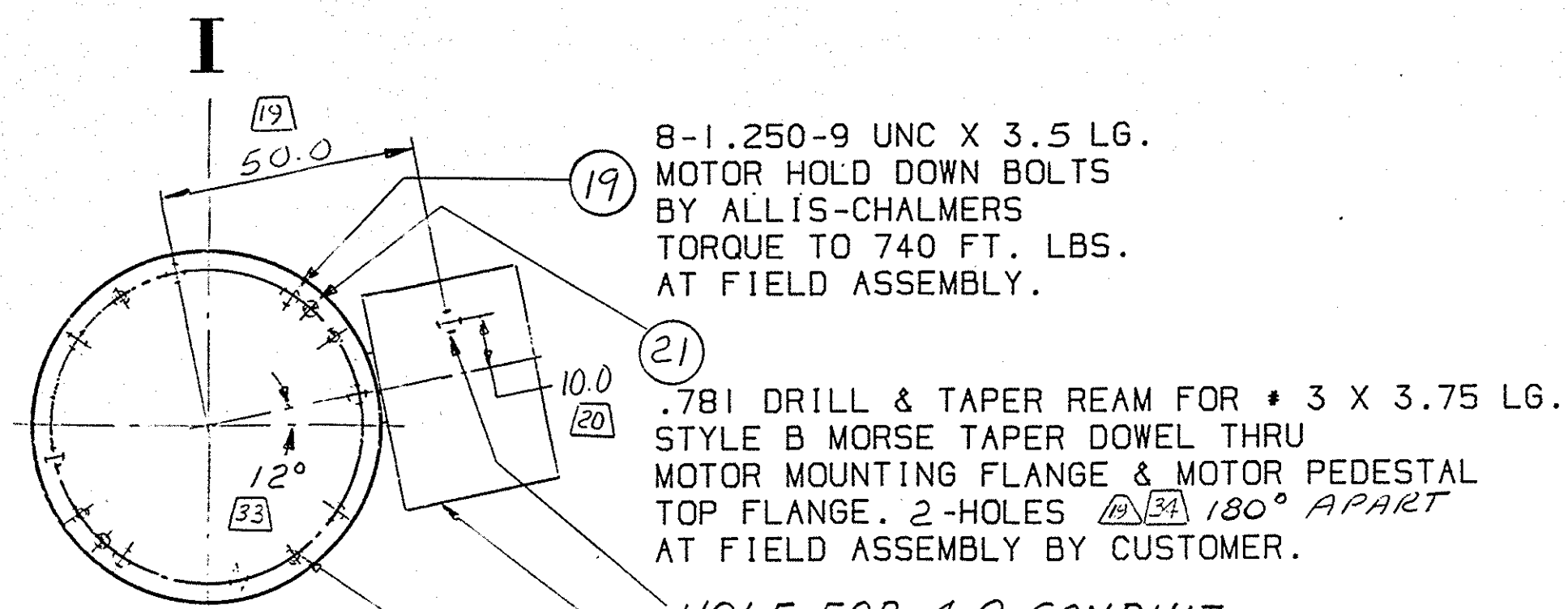


VIEW A-A

2.000 DIA. 16-HOLES IN PUMP SUPPORT PLATE FOR FOUNDATION BOLTS SEE DETAIL D SHEET 2.

8 SHEAR LUGS SEE DETAIL D, SHEET 2

ALEMITE GREASE FITTING FOR UPPER BEARING AT EL. 38.76 FT.

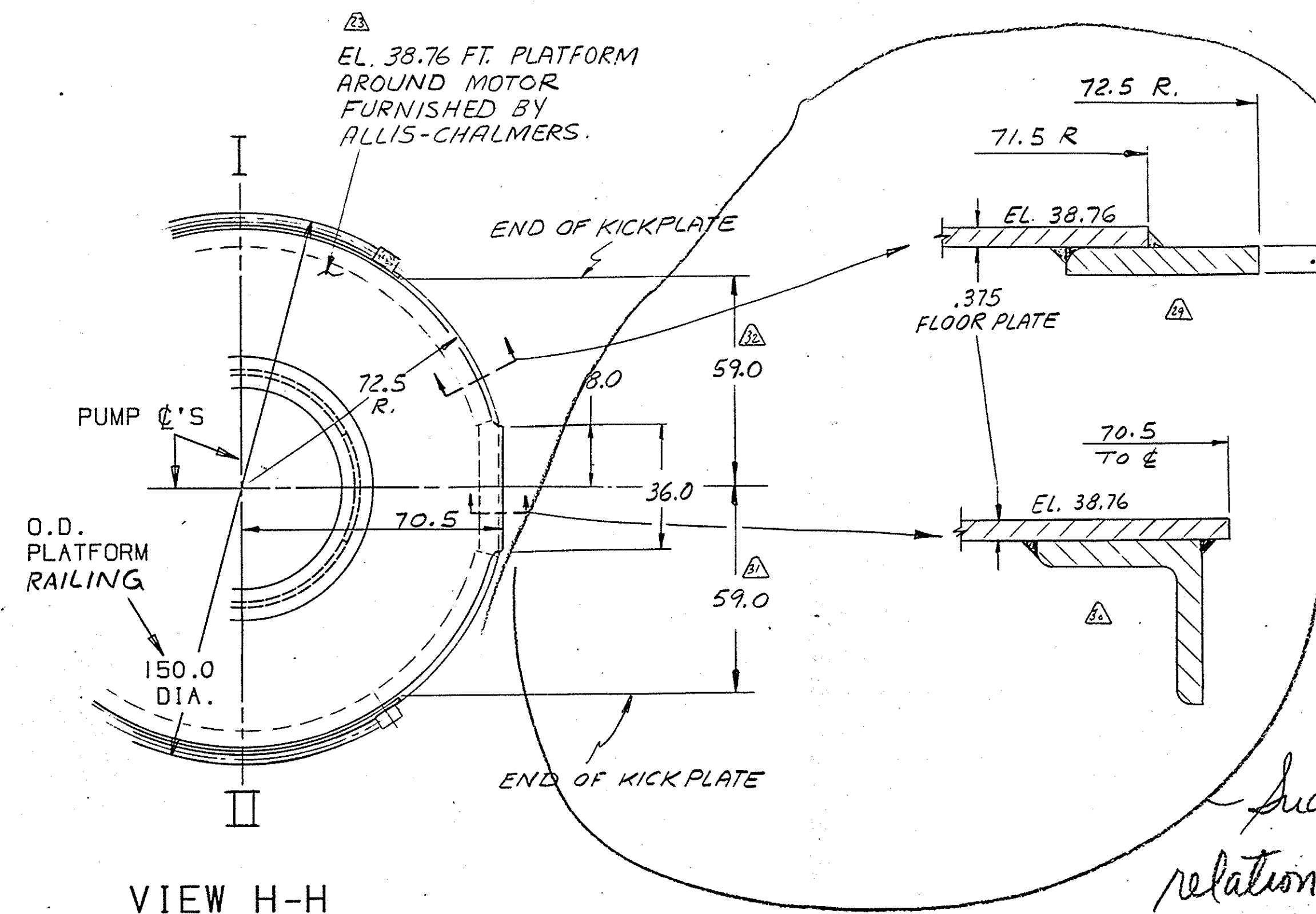


PLAN VIEW MOTOR

FOR OTHER MOTOR DETAILS & DIMENSION, SEE SIEMENSALLIS INC. DWG NO.05-417-259-406.

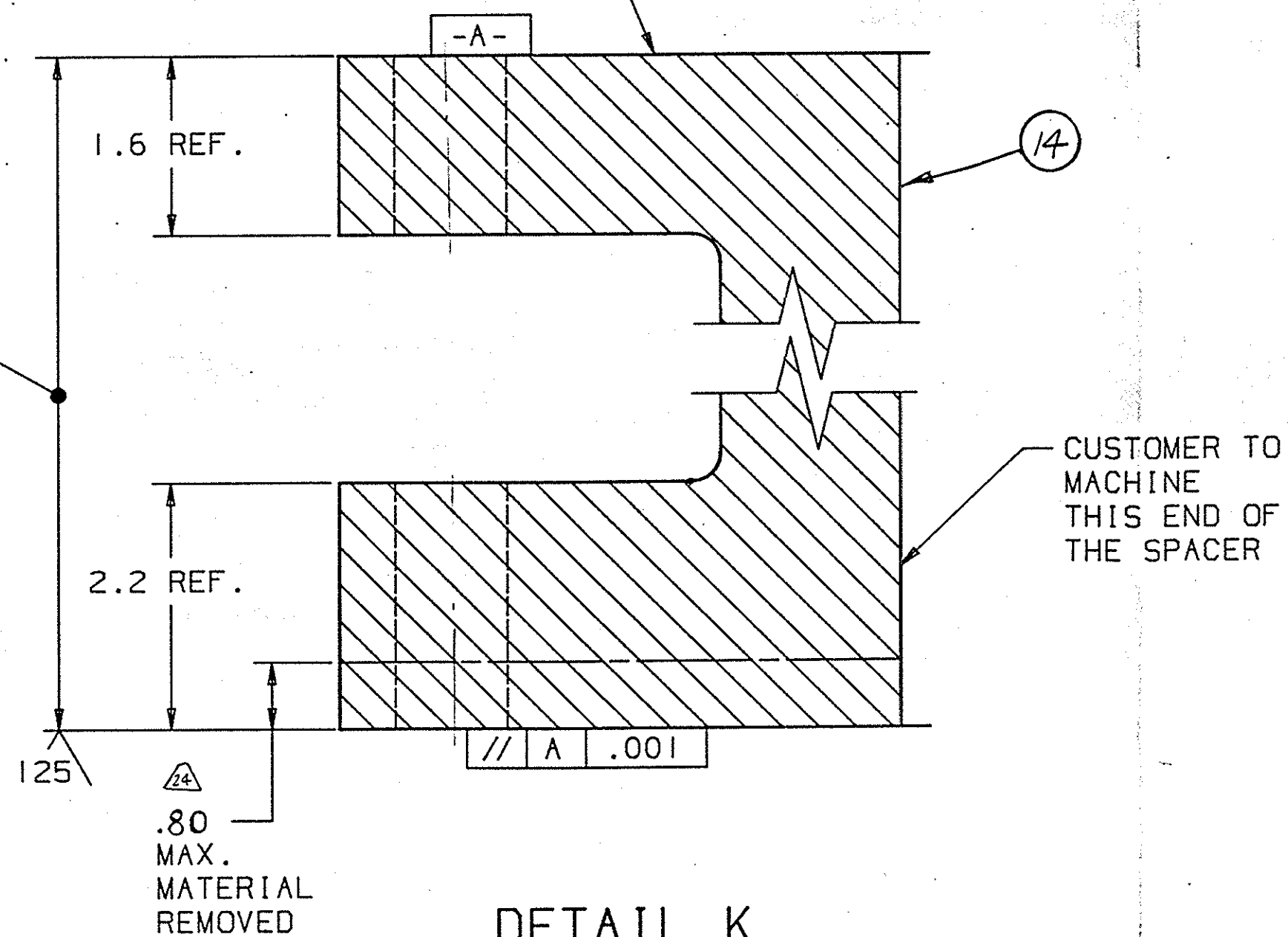
HOLE FOR 4.0 CONDUIT MAIN LEAD TERMINAL BOX

4-.750-10 JACK SCREWS BY ALLIS-CHALMERS



VIEW H-H

NO MACHINING REQUIRED ON THIS END OF SPACER.



DETAIL K

FIELD MACHINE THE SPACER COUPLING PER INSTRUCTIONS IN THE NOTES UNDER DETAIL C SHEET 2.

FILE COPY

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 MECHANICAL ENGINEERING DEPARTMENT  
 APPROVED  REVISE & RESUBMIT  APP. AS NOTED  REJECTED  
 The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.  
 It shall not relieve the contractor of the responsibility for errors, discrepancies, omissions or other requirements of his contract obligations.  
 Approved by: *[Signature]* Engineer  
 Date: JUL 23 1985 for Gen'l Supt.

5/9/85  
 APPROVED 5-21-85 *[Signature]*

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP.		NAME	
4438 MI	PLANT	OUTLINE FINAL ASSEMBLY	
UNLESS OTHERWISE SPECIFIED:		MATERIAL	
1. PLACE DEC ±	ANGULAR	102 X 84 WCAX PUMP	
2. PLACE DEC ±	✓ MACHINED SURFACE TEXTURE	WT	
3. PLACE DEC ±		F	
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		THIRD ANGLE PROJECTION	
REB 5-22-84	SIMILAR TO	CAD	
CH 10/13/85-13-84	SCALE NTS	PART NO. 08-405-282-411	
AP 8/14/85	SHEET 3-FINAL	ISSUE 04	

SEWERAGE DWG NO. 11521-W-10 SHEET 33

SHEET 3 FINAL

08-405-282-411

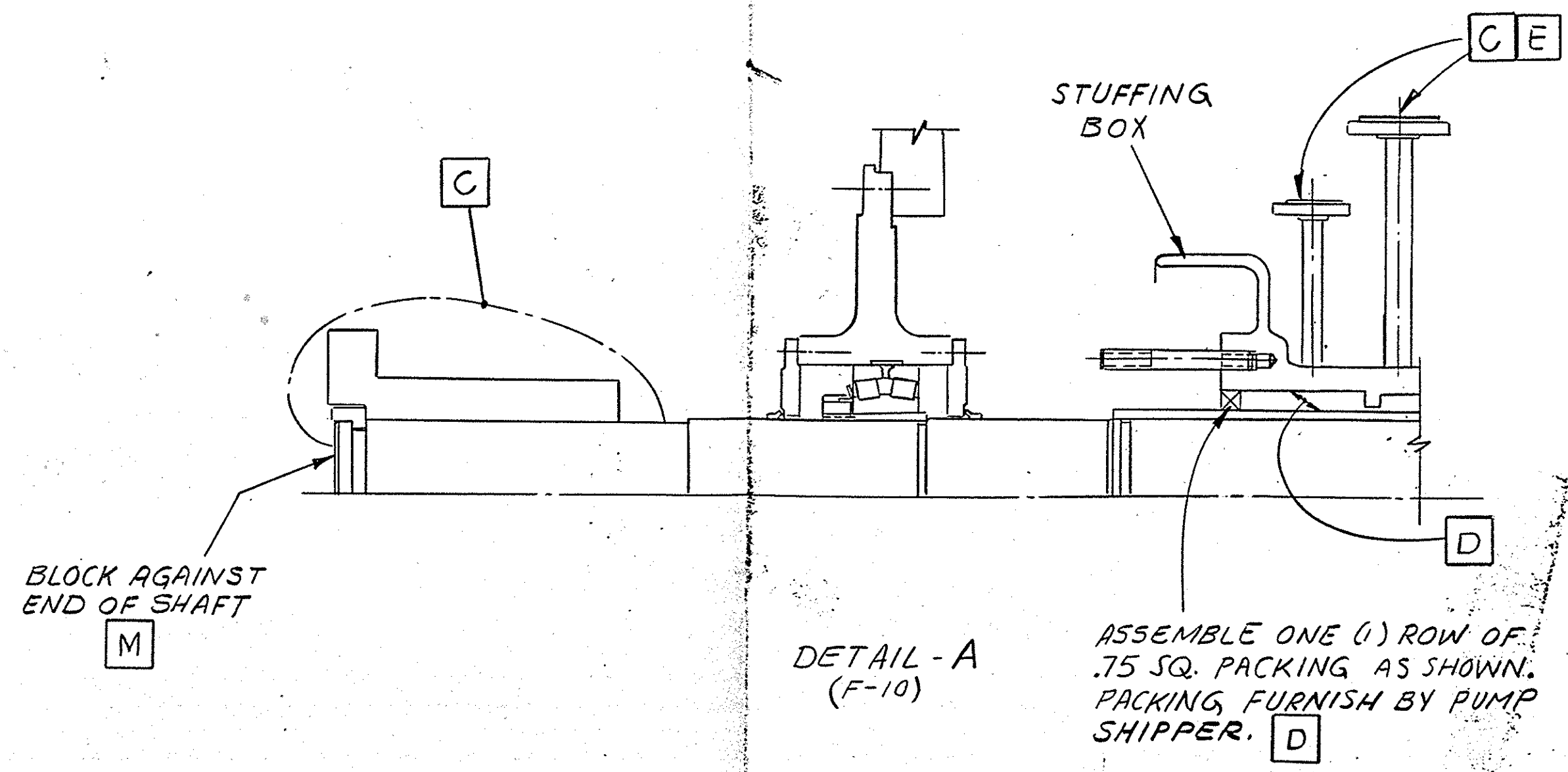
04

- 01 6-13-84 KLL
- 02 8-13-84 KLL
- (A-10) ROTATED Box 180°
- (B-10) WAS 2-HOLES.
- (C-13) WAS 4.9.5
- (B-12) ADDED 10.0
- (A-12) WAS 05-508-34-46.
- (E-11) WAS 38.78 FT.
- (K-6) WAS 38.78 FT.
- (B-8) WAS .60
- VIEW A-A CORRECTED TO SHOW 8 SHEAR LUGS.
- 03 3-20-85 KLL
- (J-3) ADDED DETAIL
- (H-3) ADDED DETAIL
- H-4 ADDED DIM.
- (U-2) ADDED DIM.
- (B-13) MOTOR ROTATED 180° CCW
- (B-10) WAS 3-HOLES
- 04

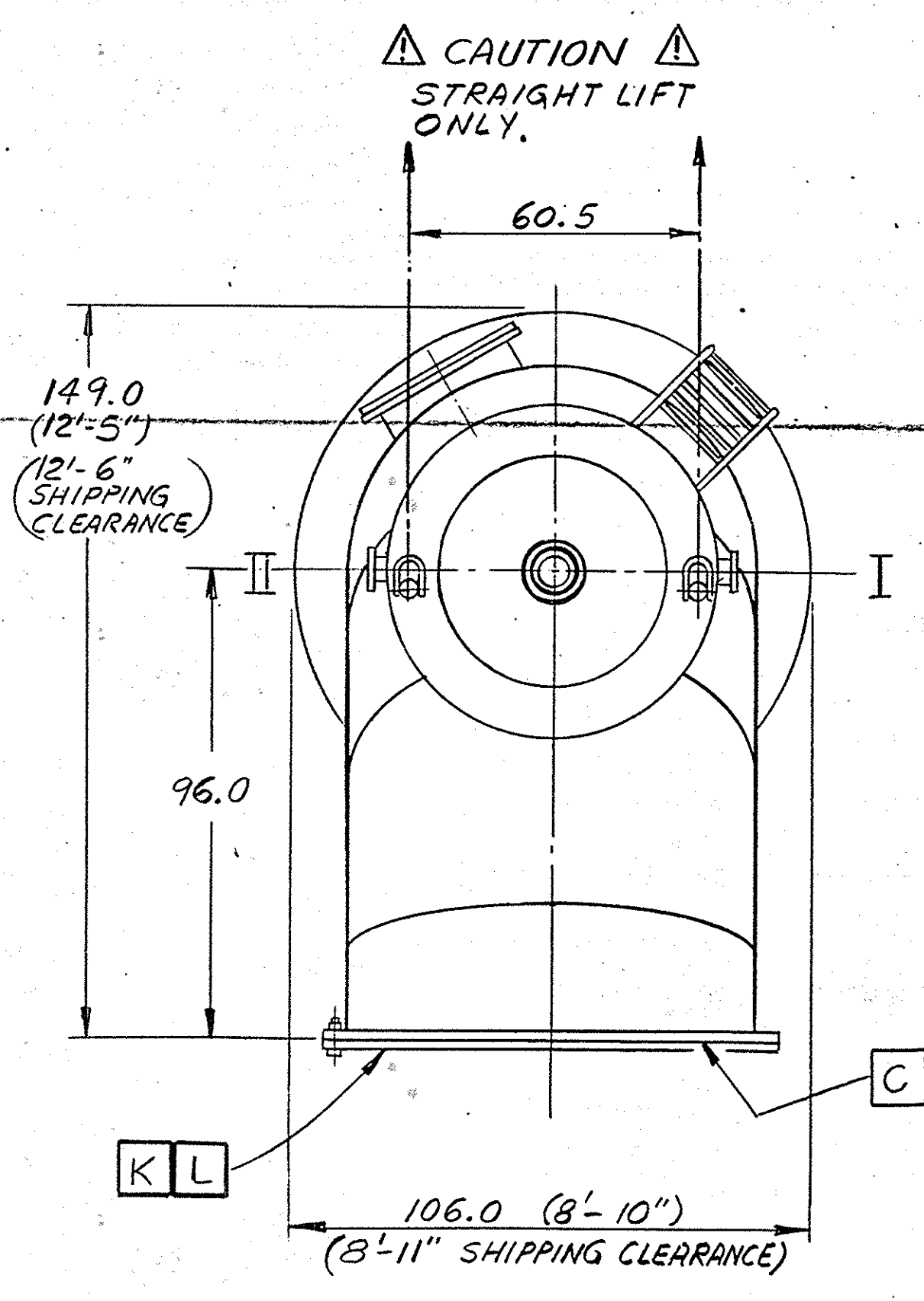


NOTES:  
 1. FOR ALL REQUIRED PROCEDURES & LETTERED NOTES IDENTIFIED ON THIS DRAWING WITH A SQUARE □, SEE DRAWING 08-610-294-453.

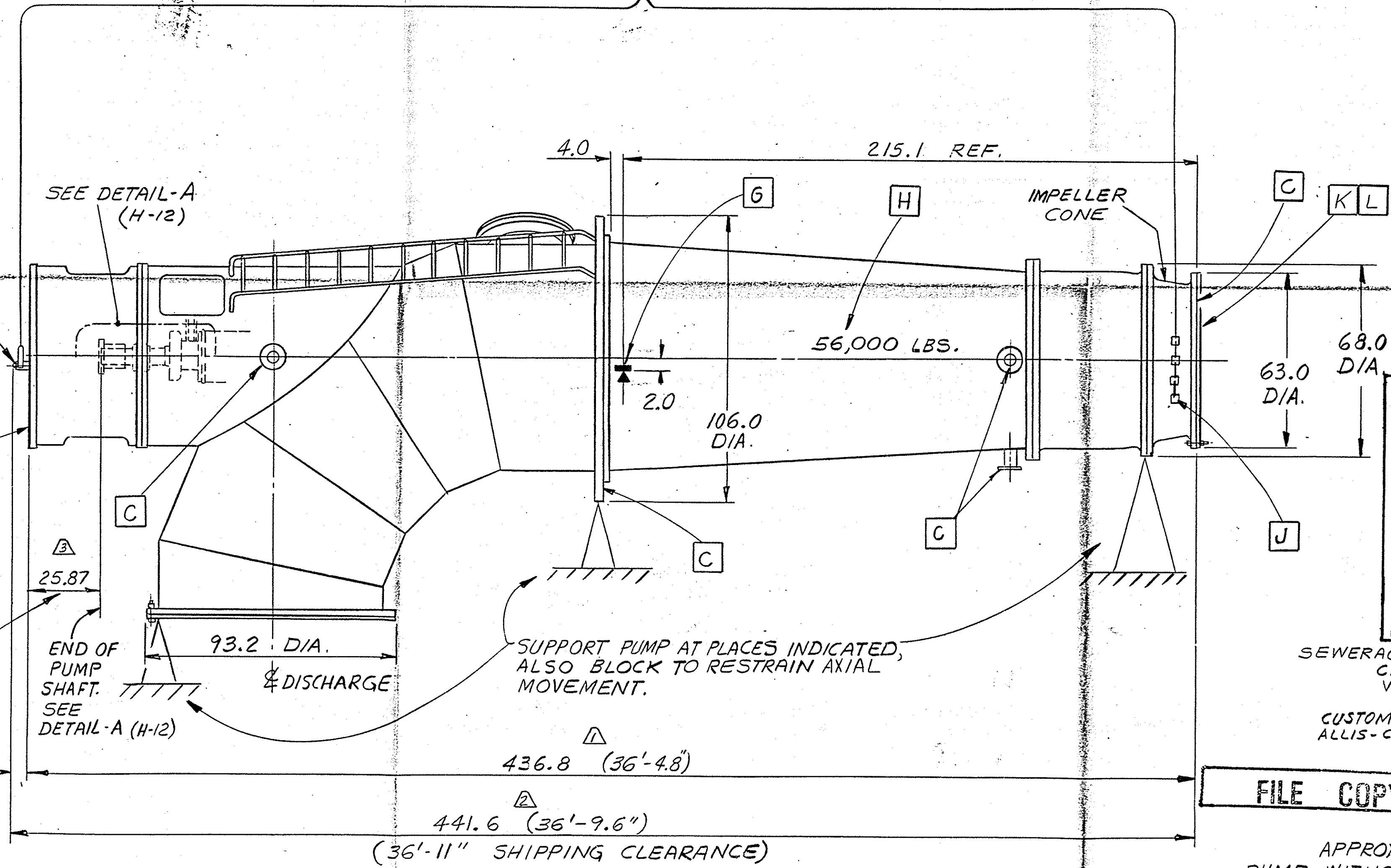
01	8-21-85 KLL
△(C-B)	WAS 437.0 (36'-5")
△(C-B)	WAS 441.8 (36'-9.8")
△(D-1)	WAS 26.07
02	3-20-85 KLL



TO LIFT ENTIRE UNIT USE HOIST RINGS & ROPE SLING AROUND IMPELLER CONE □ A



□ F-1-F-2  
 2- SAFETY HOIST RINGS (00-957-163-022) ITEM-11 ON SPECIAL TOOLS PARTS LIST 08-115-558-834 ARE TO BE INSTALLED FOR SHIPMENT ON FIRST UNIT ONLY. TORQUE SCREW IN HOIST RING TO 400 FT. LBS. ON REMAINING UNITS USE SHOP TOOL (00-957-163-022). DO NOT SHIP SHOP TOOL.



SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 MECHANICAL ENGINEERING DEPARTMENT  
 APPROVED TO REVISE & RESUBMIT  
 NOTED REJECTED  
 The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.  
 It shall not relieve the contractor of the responsibility for errors, discrepancies, omissions or other requirements of his contract.  
 Approved by: *Joseph W. Swice*  
 Engineer  
 for Gen'l Supt.  
 Date: JUL 23 1985

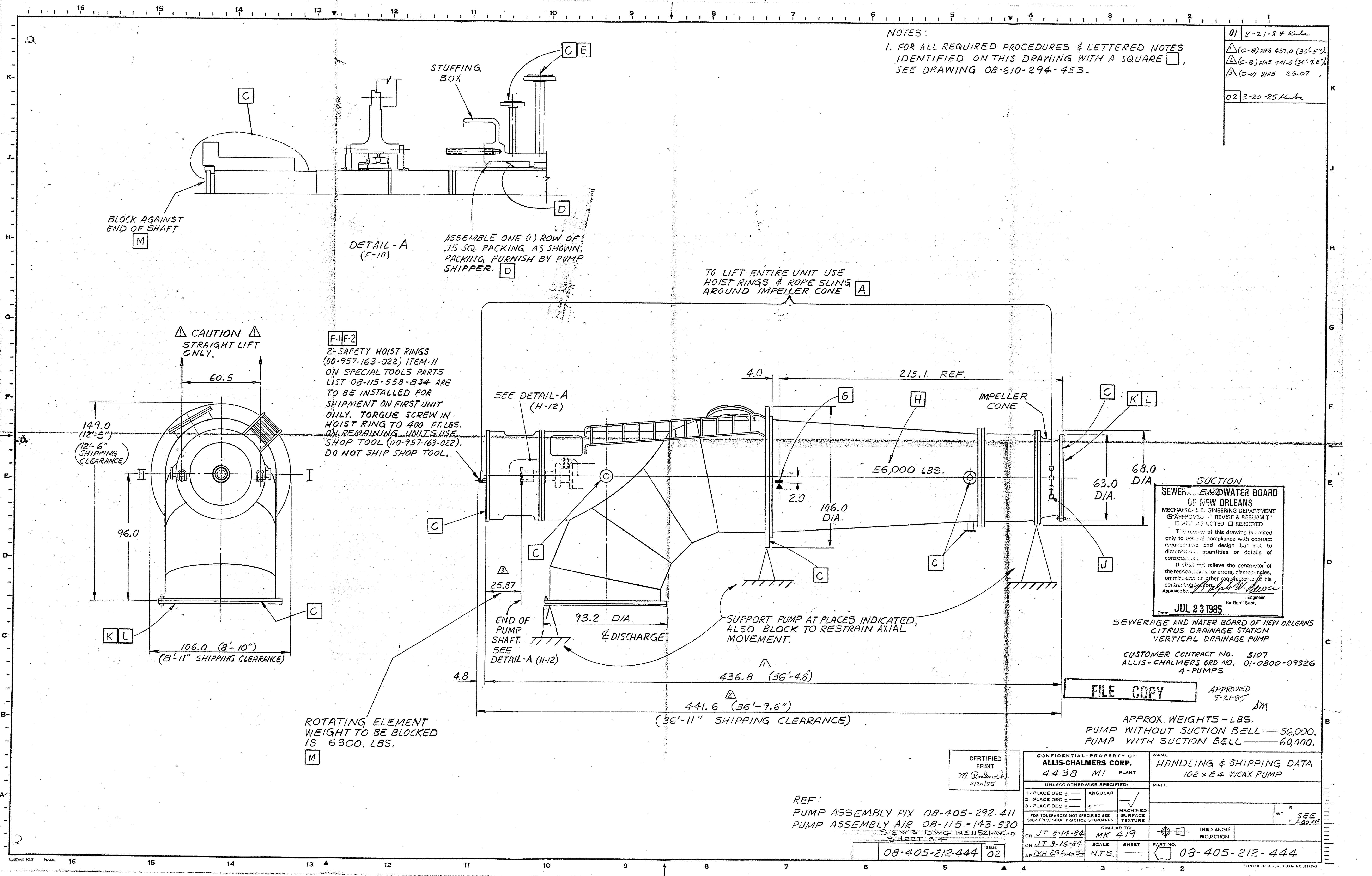
SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 CITRUS DRAINAGE STATION  
 VERTICAL DRAINAGE PUMP  
 CUSTOMER CONTRACT NO. 5107  
 ALLIS-CHALMERS ORD NO. 01-0800-09326  
 4- PUMPS

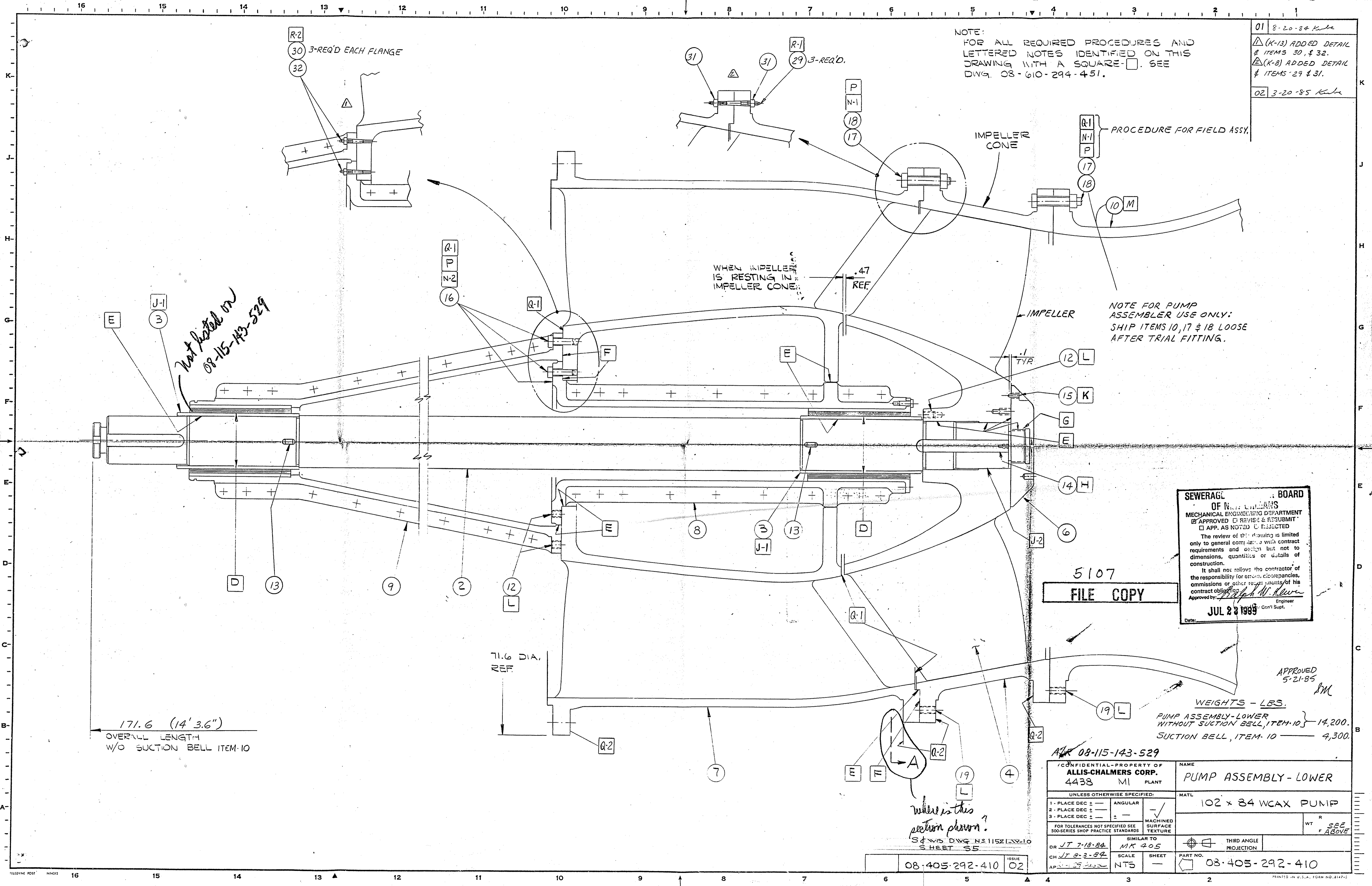
FILE COPY APPROVED 5-21-85 DM

APPROX. WEIGHTS - LBS.  
 PUMP WITHOUT SUCTION BELL — 56,000.  
 PUMP WITH SUCTION BELL — 60,000.

CERTIFIED PRINT M. Robinson 3/20/85	CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b> 4438 MI PLANT	NAME <b>HANDLING &amp; SHIPPING DATA</b> 102 x 84 WCAX PUMP
UNLESS OTHERWISE SPECIFIED: 1- PLACE DEC ± — ANGULAR 2- PLACE DEC ± — 3- PLACE DEC ± —	MACHINED SURFACE TEXTURE FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS	MATL.
DR JT 8-14-84 CH JT 8-16-84 AP RKH 29 Aug 84	SIMILAR TO MK 419 SCALE N.T.S.	THIRD ANGLE PROJECTION PART NO. 08-405-212-444
08-405-212-444	ISSUE 02	WT SEE ABOVE

REF:  
 PUMP ASSEMBLY PIX 08-405-292-411  
 PUMP ASSEMBLY AIR 08-115-143-530  
 3 & 4 B DWG NO. 11521-W-10  
 SHEET 54





NOTE:  
FOR ALL REQUIRED PROCEDURES AND  
LETTERED NOTES IDENTIFIED ON THIS  
DRAWING WITH A SQUARE. SEE  
DWG. OS-610-294-451.

- 01 8-20-84 *Kula*  
 (K-13) ADDED DETAIL  
 & ITEMS 30, & 32.  
 (K-8) ADDED DETAIL  
 & ITEMS 29 & 31.  
 02 3-20-85 *Kula*

NOTE FOR PUMP  
ASSEMBLER USE ONLY:  
SHIP ITEMS 10, 17 & 18  
AFTER TRIAL FITTING.

SEWERAGE BOARD  
 OF THE CITY OF LOS ANGELES  
 MECHANICAL ENGINEERING DEPARTMENT  
 APPROVED  REVISE & RESUBMIT  
 APP. AS NOTED  REJECTED  
 The review of this drawing is limited  
 only to general compliance with contract  
 requirements and details but not to  
 dimensions, quantities or details of  
 construction.  
 It shall not relieve the contractor of  
 the responsibility for errors, discrepancies,  
 omissions or other items which are  
 the contractor's responsibility.  
 Approved by: *[Signature]*  
 Engineer  
 Date: JUL 23 1985

5107  
 FILE COPY

APPROVED  
 5-21-85  
*[Signature]*

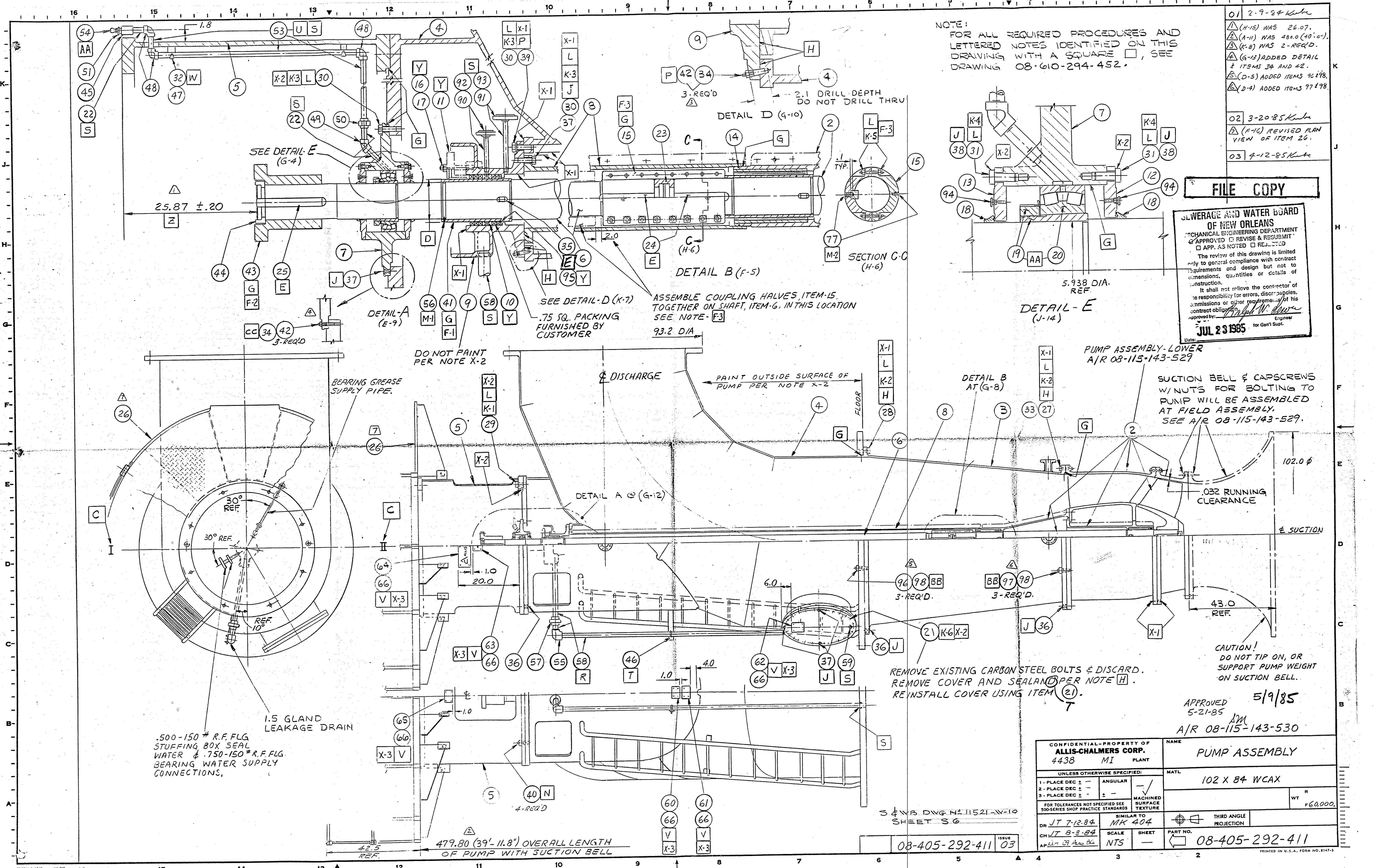
WEIGHTS - LBS.  
 PUMP ASSEMBLY - LOWER  
 WITHOUT SUCTION BELL, ITEM 10 } 14,200.  
 SUCTION BELL, ITEM 10 } 4,300.

APR 08-115-143-529

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME PUMP ASSEMBLY-LOWER
UNLESS OTHERWISE SPECIFIED:		MATL 102 x 34 WCAX PUMP
1- PLACE DEC =	ANGULAR	WT SEE F ABOVE
2- PLACE DEC =		
3- PLACE DEC =	MACHINED SURFACE TEXTURE	
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		
DR JT 7-18-84	SIMILAR TO MK 405	THIRD ANGLE PROJECTION
CH JT 8-3-84	SCALE NTS	PART NO. 08-405-292-410
AP JT 8-29-84	SHEET	

STANDARD DWG NO. 1152133-10  
 SHEET 35

08-405-292-410 02

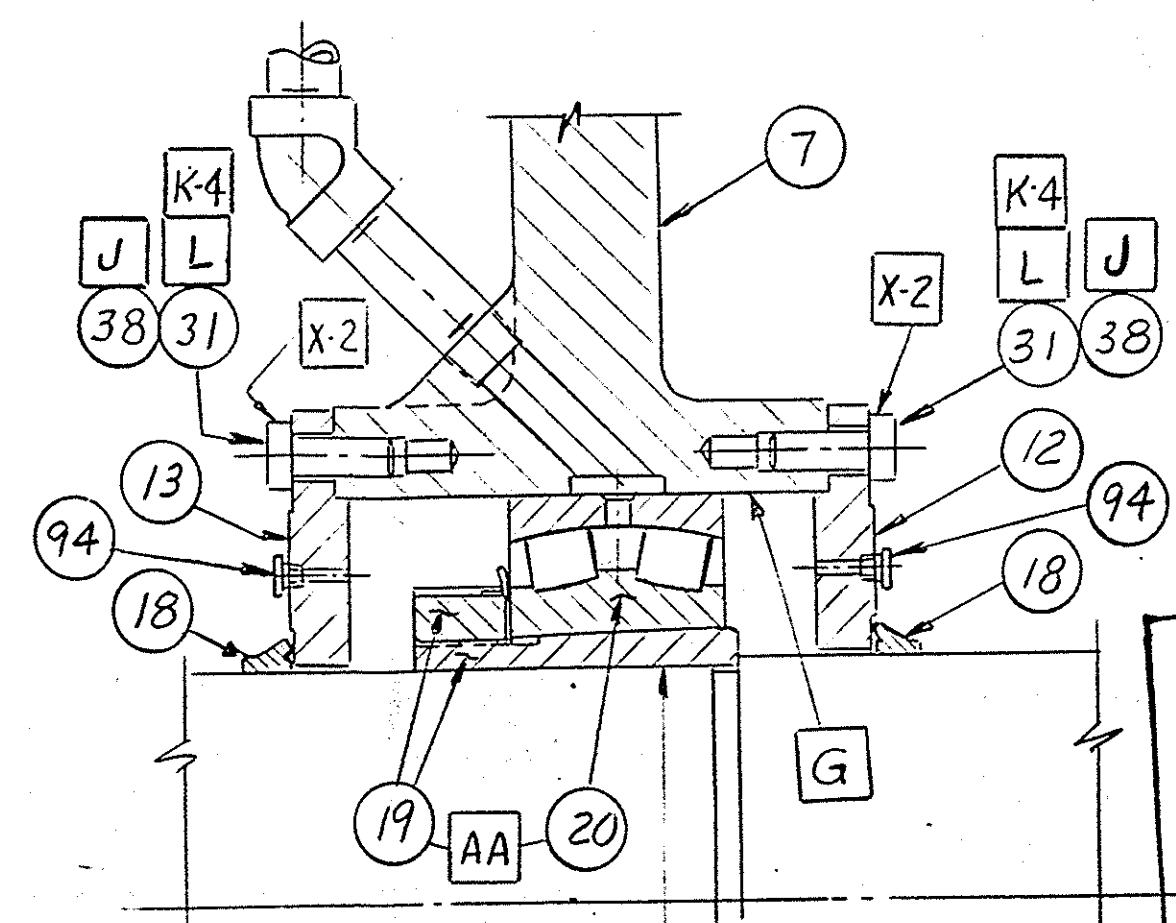


NOTE:  
FOR ALL REQUIRED PROCEDURES AND LETTERED NOTES IDENTIFIED ON THIS DRAWING WITH A SQUARE □, SEE DRAWING 08-610-294-452.

- 01 2-9-84 Kuba
- △(H-15) WAS 26.07.
- △(A-11) WAS 480.0 (40'-0").
- △(K-8) WAS 2-REQ'D.
- △(G-13) ADDED DETAIL & ITEMS 34 AND 42.
- △(D-5) ADDED ITEMS 92 & 98.
- △(D-9) ADDED ITEMS 97 & 98.
- 02 3-20-85 Kuba
- △(F-10) REVISED PLAN VIEW OF ITEM 26.
- 03 9-12-85 Kuba

**FILE COPY**

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**  
MECHANICAL ENGINEERING DEPARTMENT  
APPROVED □ REVISE & RESUBMIT □ APP. AS NOTED □ REJECTED  
The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.  
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Approved by: *[Signature]* Engineer  
Date: **JUL 23 1985** for Gen'l Supt.



DETAIL E (J-14)

PUMP ASSEMBLY-LOWER  
A/R 08-115-143-529

SUCTION BELL & CAPSCREWS W/NUTS FOR BOLTING TO PUMP WILL BE ASSEMBLED AT FIELD ASSEMBLY. SEE A/R 08-115-143-529.

CAUTION!  
DO NOT TIP ON, OR SUPPORT PUMP WEIGHT ON SUCTION BELL.

APPROVED 5/9/85  
5-21-85  
A/R 08-115-143-530

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME PUMP ASSEMBLY	
UNLESS OTHERWISE SPECIFIED:		MATERIAL 102 X 84 WCAX	
1- PLACE DEC ± - ANGULAR	2- PLACE DEC ± -	3- PLACE DEC ± -	WT R ±60,000.
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		THIRD ANGLE PROJECTION	
DR JT 7-12-84	SIMILAR TO MK 404	SCALE NTS	PART NO. 08-405-292-411
CH JT 8-3-84	SCALE NTS	SHEET	ISSUE 03
APLKT 27 Aug 84	SCALE NTS	SHEET	ISSUE 03

S & W B DNG N211521-W-10 SHEET 56

08-405-292-411

.500-150 # R.F. FLG STUFFING BOX SEAL WATER & .750-150 # R.F. FLG BEARING WATER SUPPLY CONNECTIONS.  
1.5 GLAND LEAKAGE DRAIN

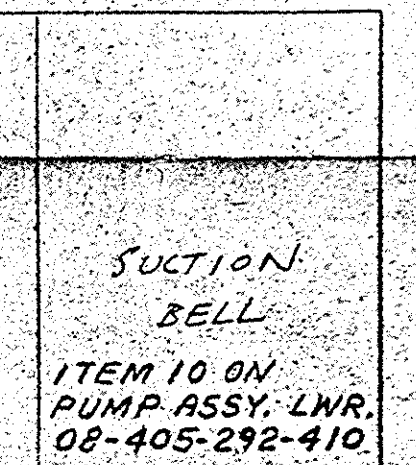
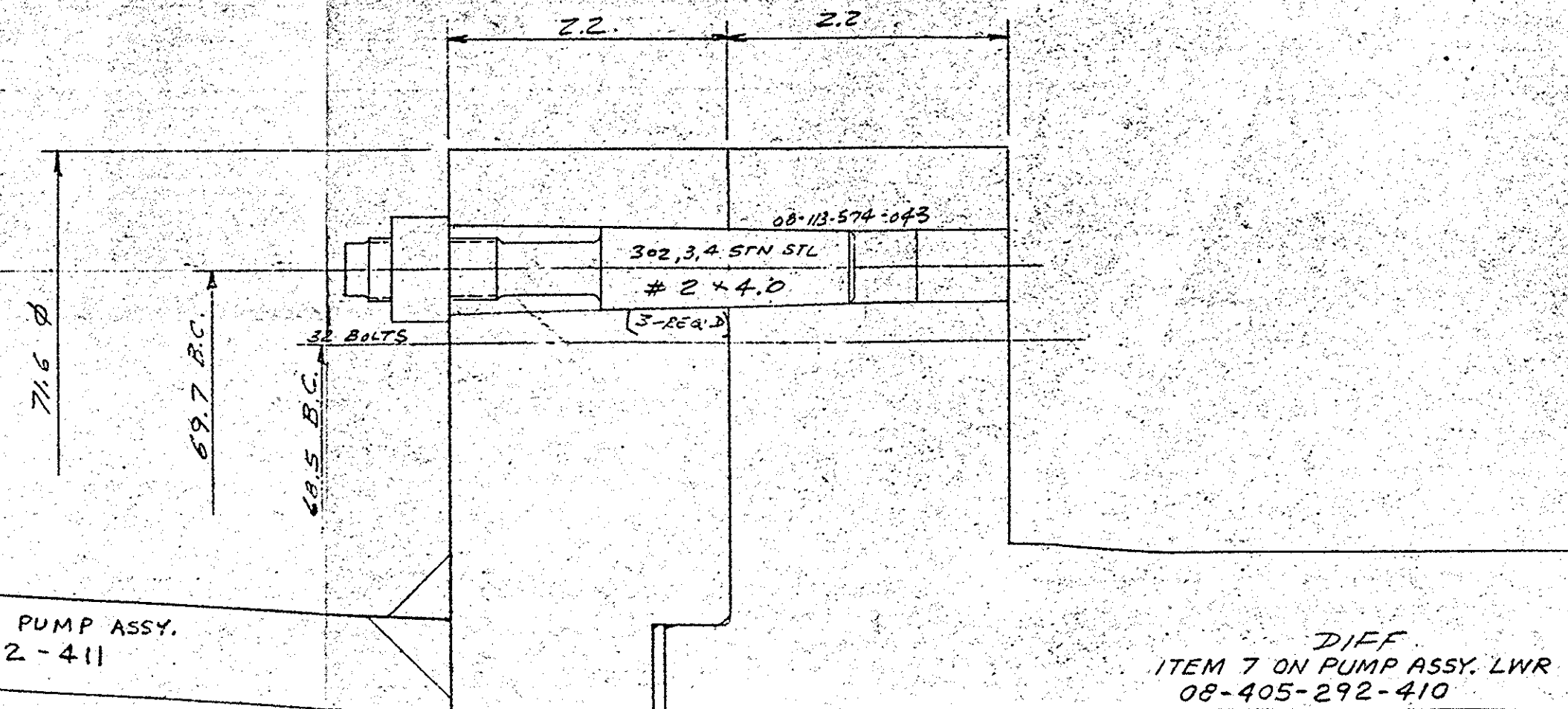
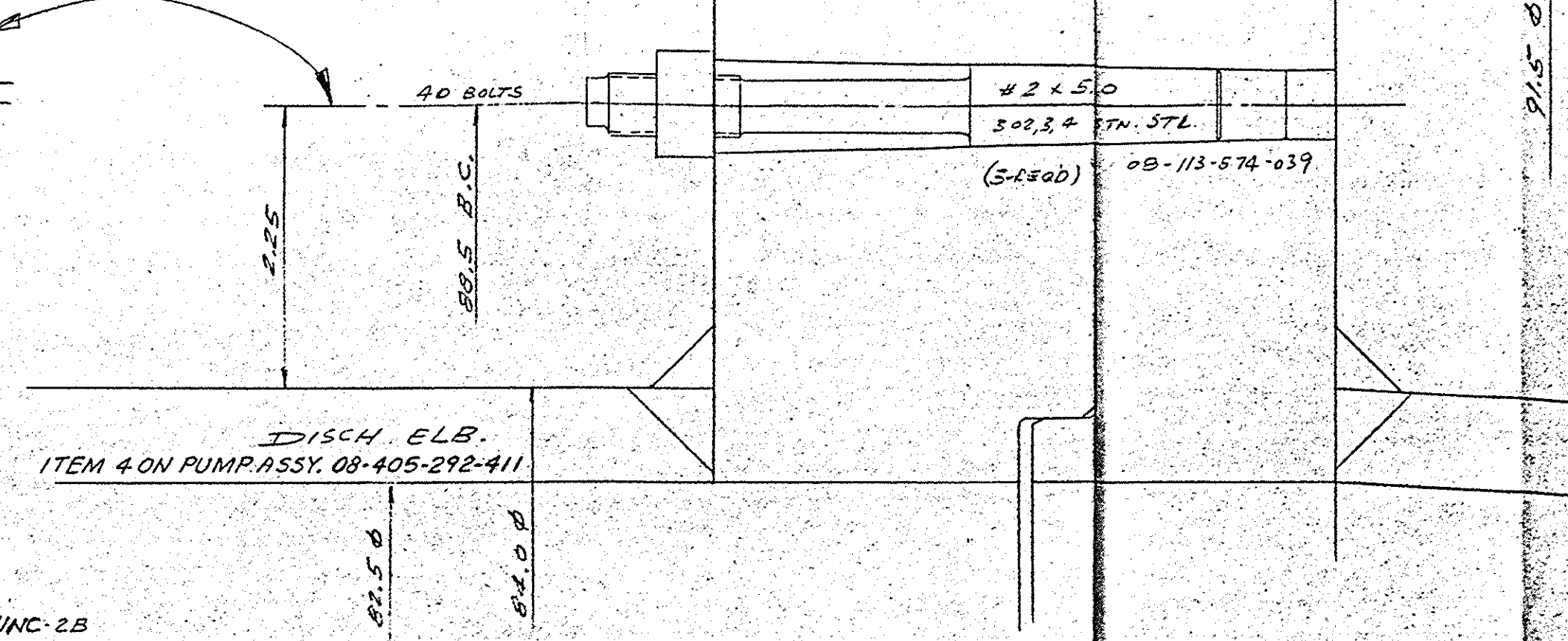
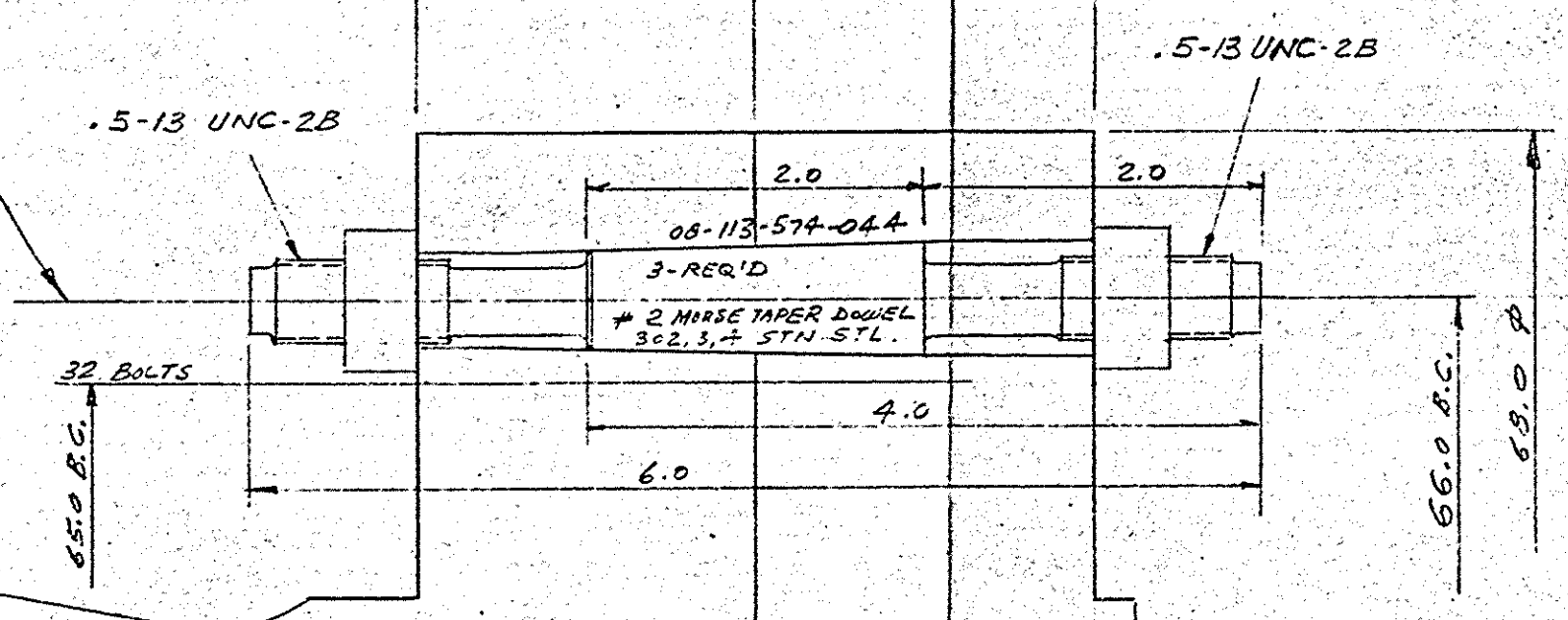
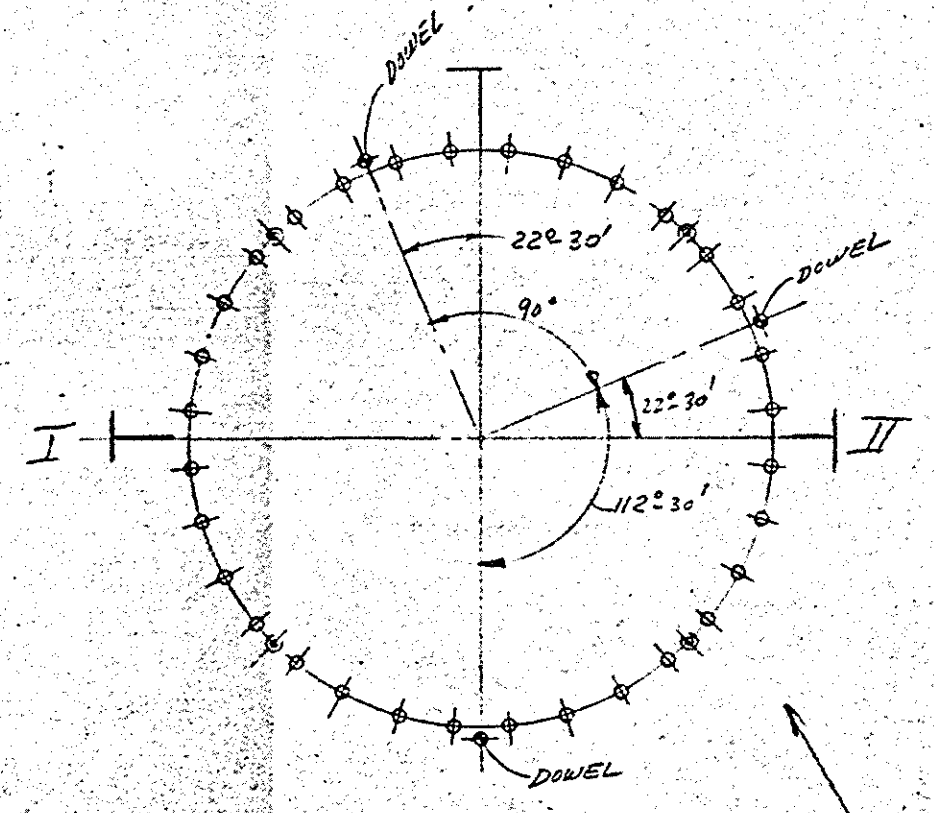
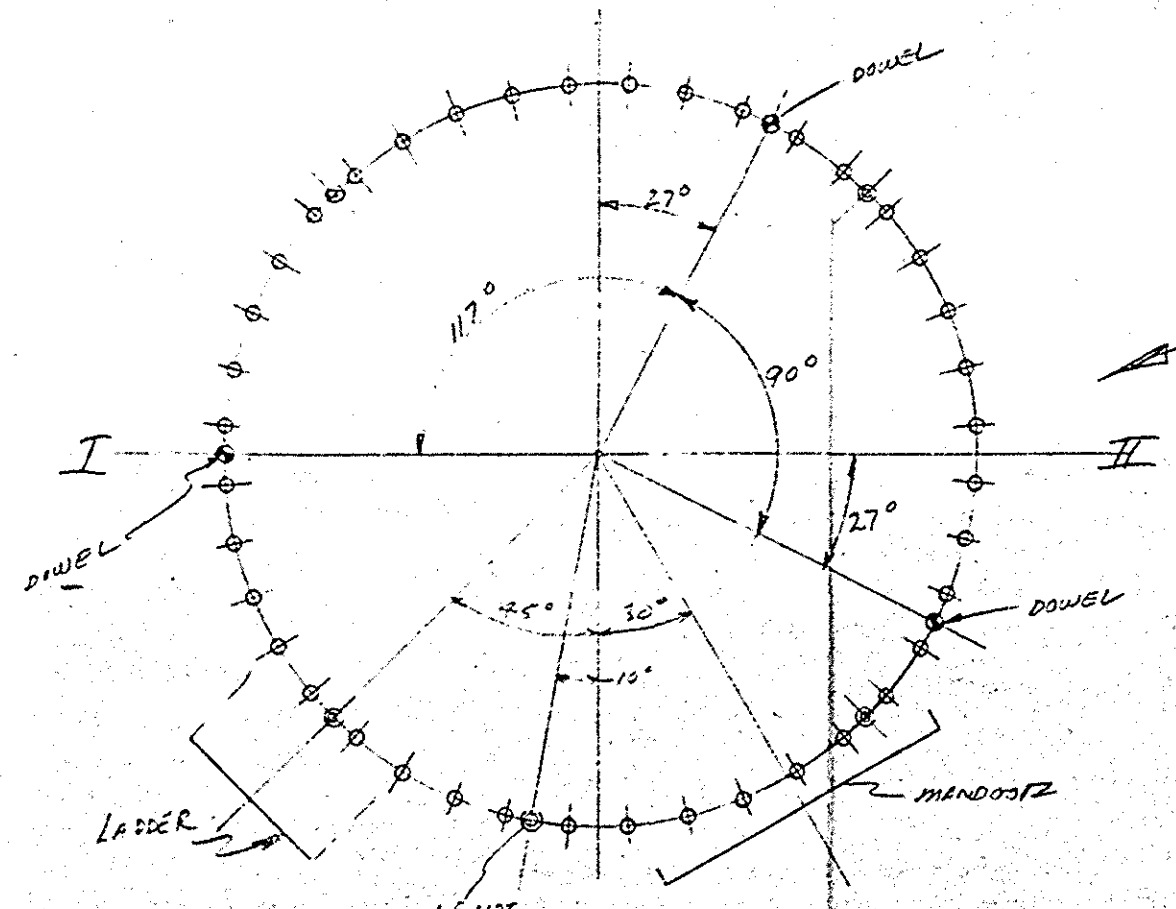
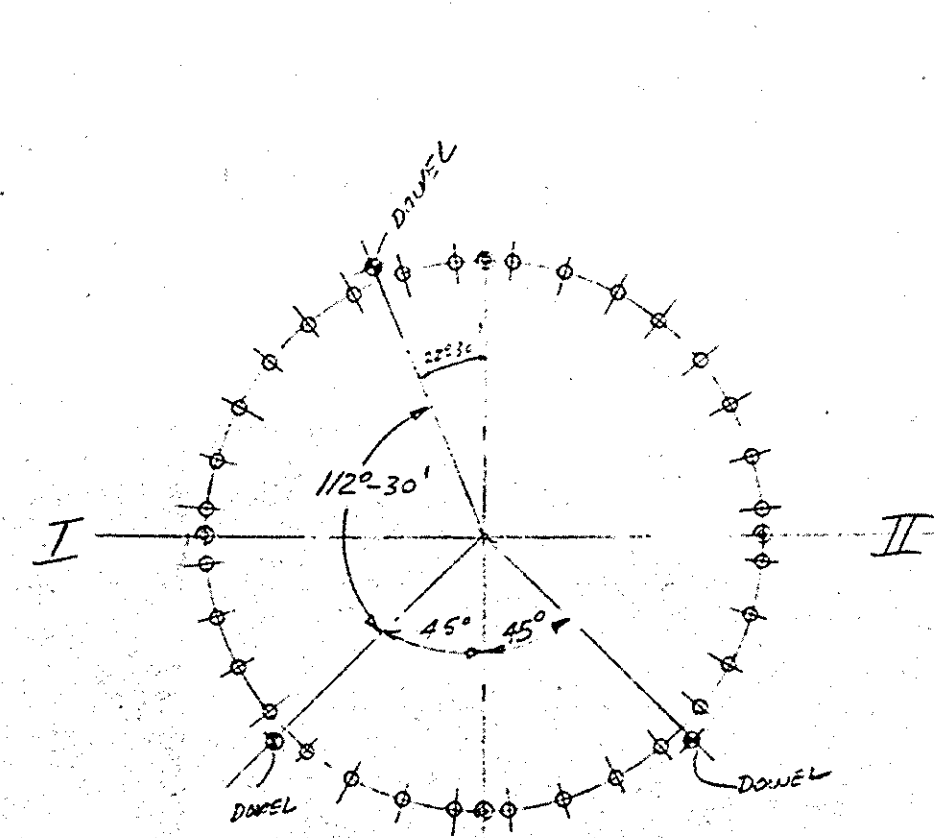
DO NOT PAINT PER NOTE X-2

PAINT OUTSIDE SURFACE OF PUMP PER NOTE X-2

REMOVE EXISTING CARBON STEEL BOLTS & DISCARD. REMOVE COVER AND SEALANT PER NOTE H. REINSTALL COVER USING ITEM (21).

SEE DETAIL-D (K-7) ASSEMBLE COUPLING HALVES, ITEM-15, TOGETHER ON SHAFT, ITEM-6, IN THIS LOCATION SEE NOTE-F3  
.75 SQ. PACKING FURNISHED BY CUSTOMER  
93.2 DIA

479.80 (39'-11.8") OVERALL LENGTH OF PUMP WITH SUCTION BELL



FILE COPY

SEWERAGE AND WATER BOARD  
OF NEW ORLEANS  
MECHANICAL ENGINEERING DEPARTMENT  
APPROVED  REVISE  RESUBMIT   
APP. AS NOTED  REJECTED   
The review of this drawing is limited only to general compliance with contract requirements and design but not to dimensions, quantities or details of construction.  
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Approved by: *[Signature]*  
Engineer  
Date: JUL 23 1985

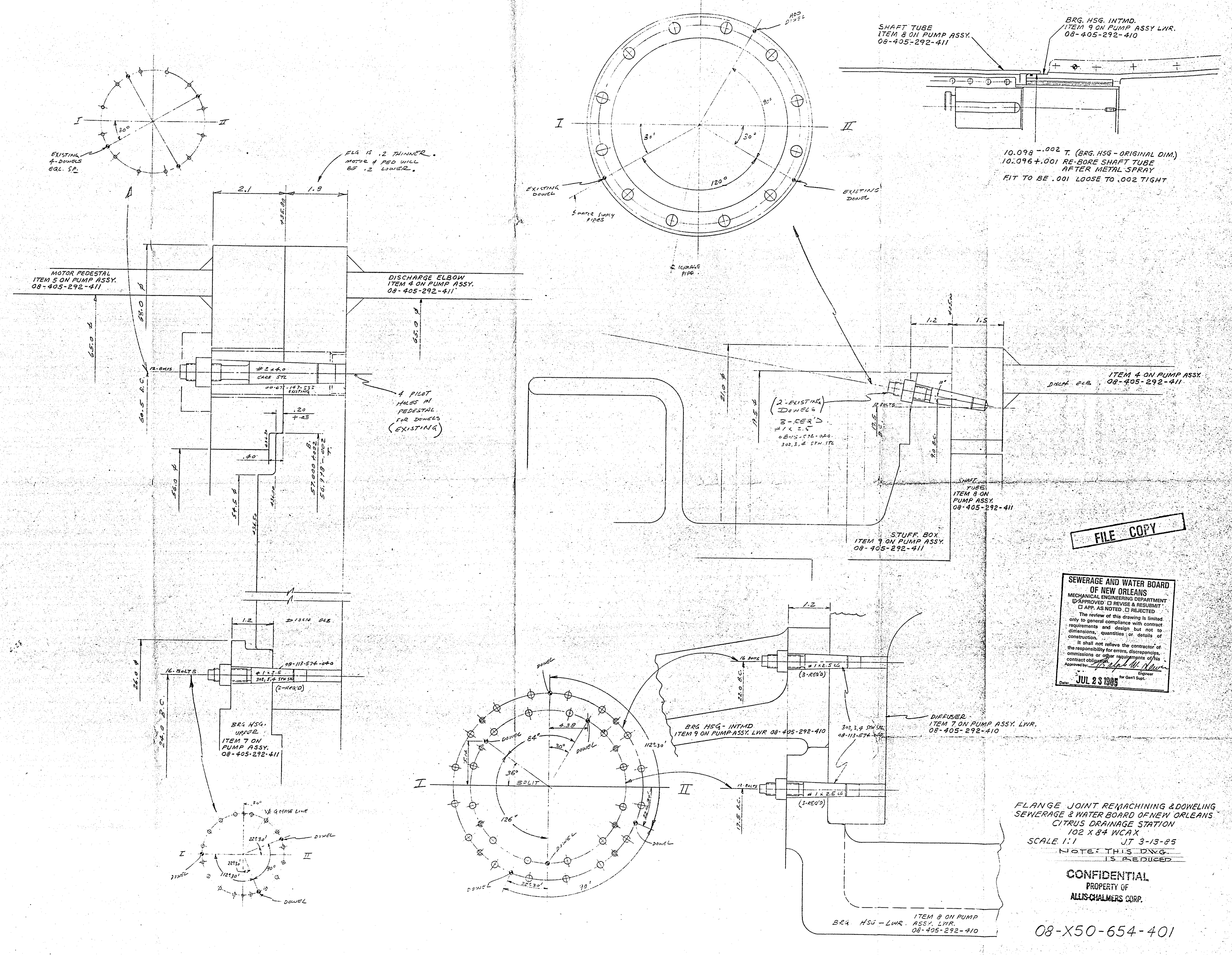
FLANGE JOINT REMACHINING & DOWELING  
SEWERAGE & WATER BOARD OF NEW ORLEANS  
CITRUS DRAINAGE STATION  
102 X 84 WCAX  
SCALE 1:1 J.T. 3-13-85

NOTE: THIS DWG. IS  
REDUCED

08-X50-654-402

CONFIDENTIAL  
PROPERTY OF  
ALLIS-CHALMERS CORP.

34 WBS DNG N° 11521-W-10  
SHEET 57



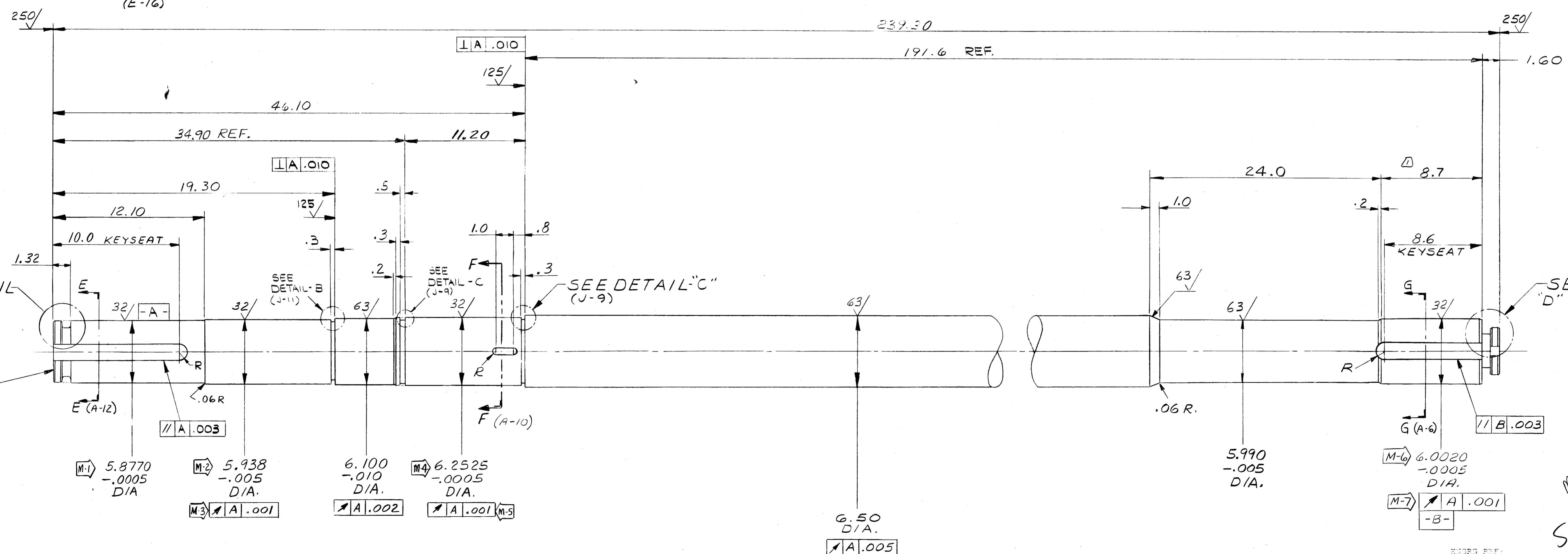
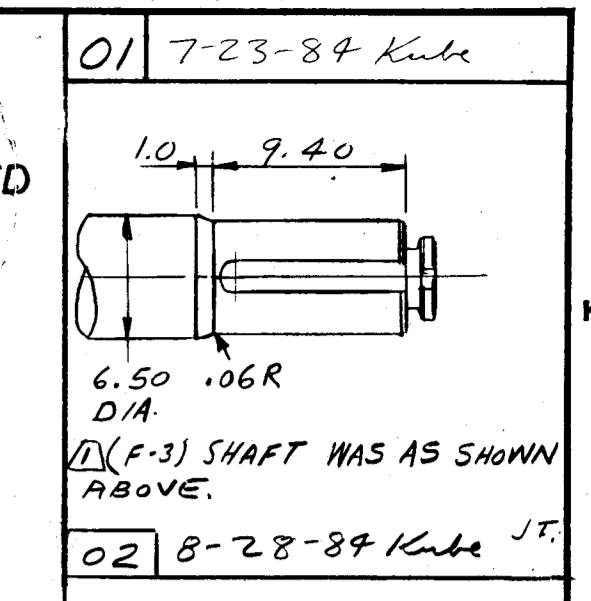
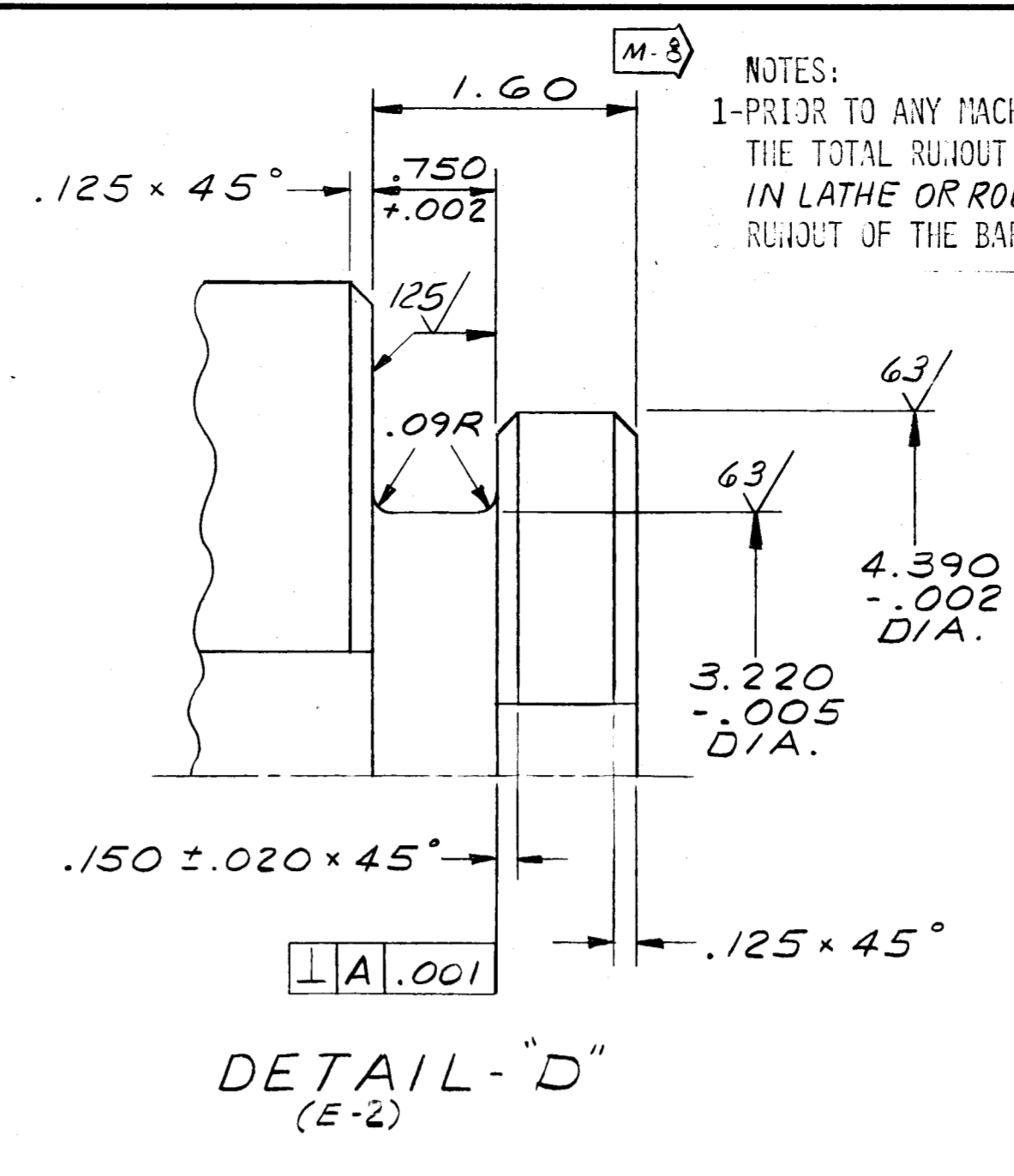
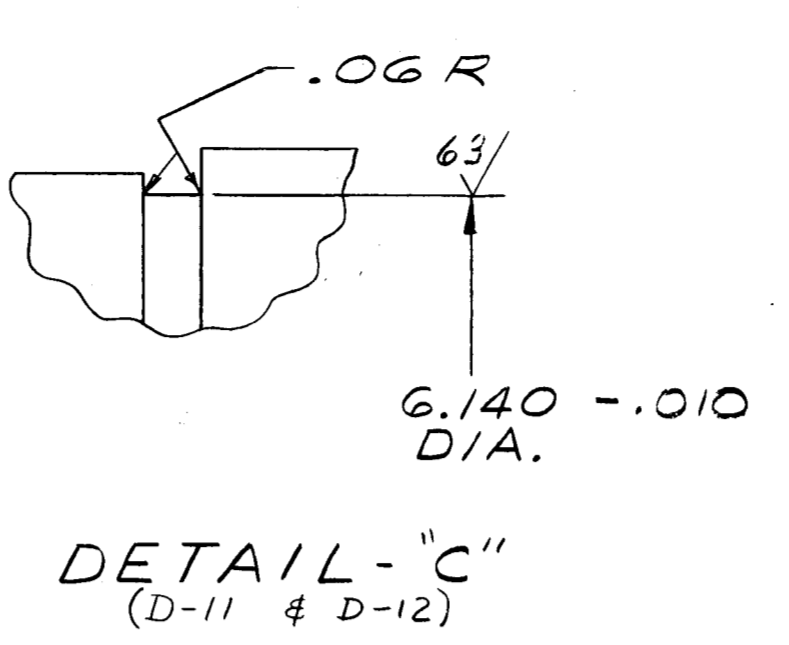
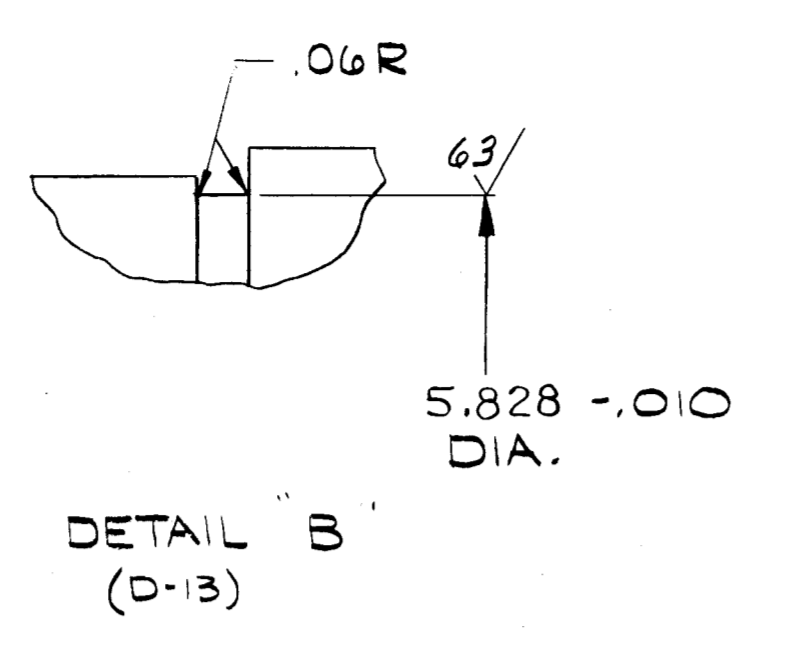
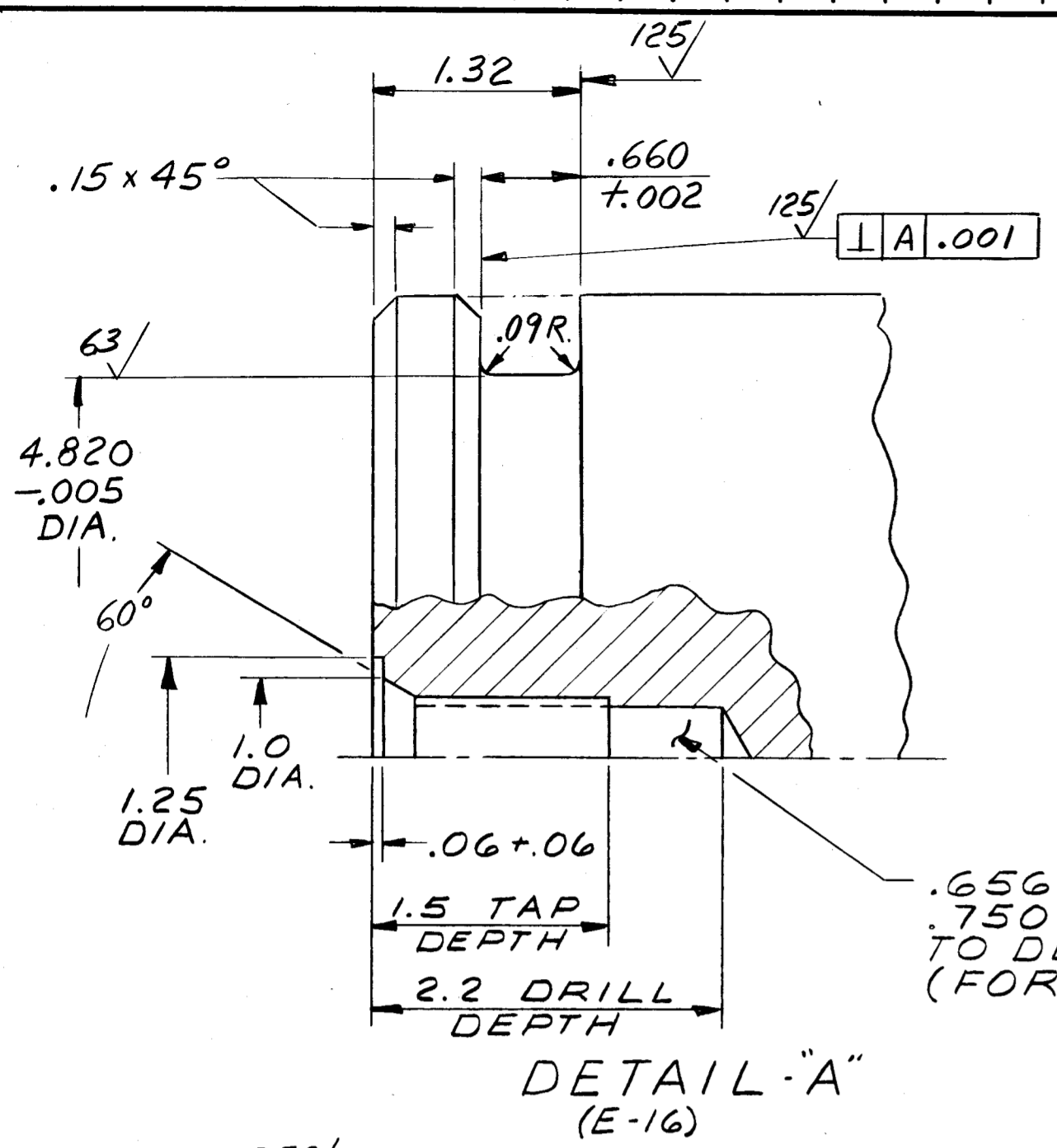
FILE COPY

SEWERAGE AND WATER BOARD  
OF NEW ORLEANS  
MECHANICAL ENGINEERING DEPARTMENT  
 APPROVED  REVISE & RESUBMIT  
 APP. AS NOTED  REJECTED  
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 It shall not relieve the contractor of the responsibility for errors, discrepancies, omissions or other requirements of his contract obligations.  
 Approved by: *[Signature]*  
 Engineer  
 Date: JUL 23 1985  
 for Gen'l Supt.

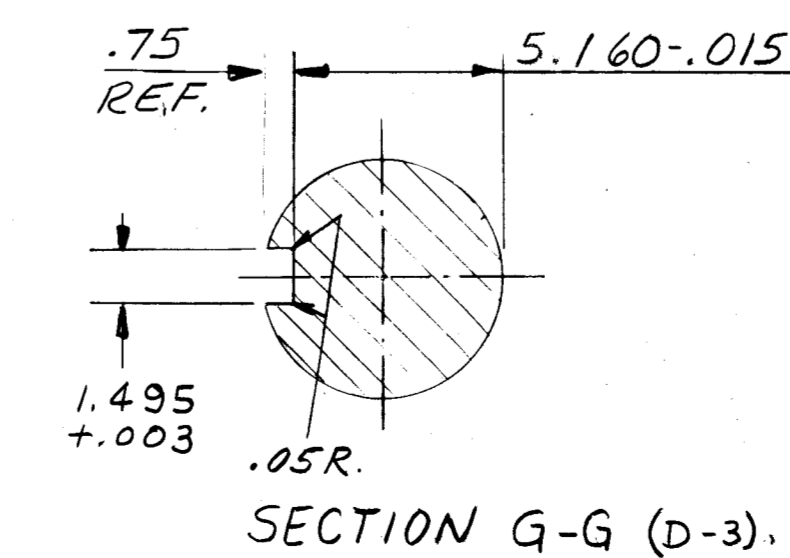
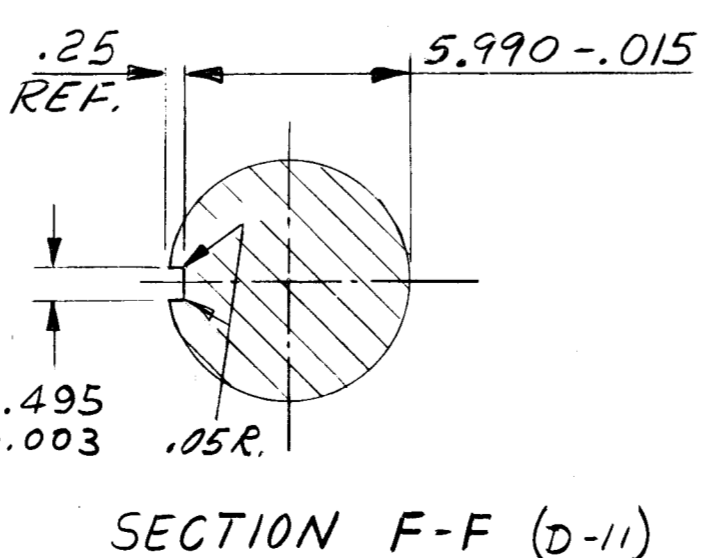
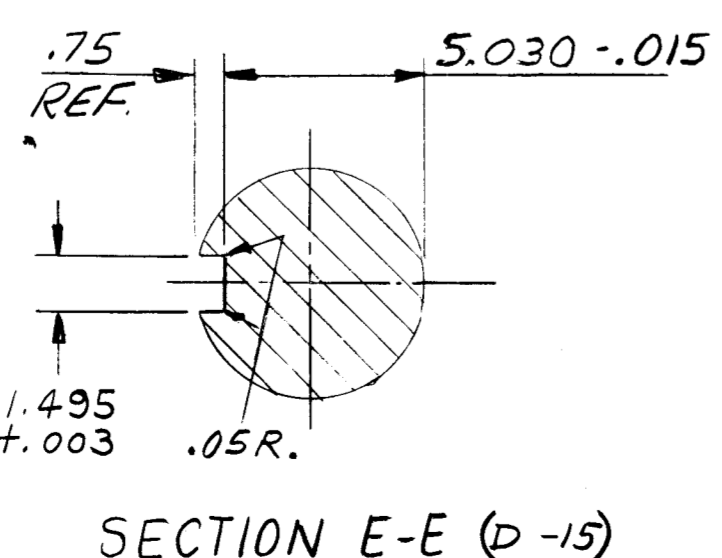
FLANGE JOINT REMACHINING & DOWELING  
SEWERAGE & WATER BOARD OF NEW ORLEANS  
CITRUS DRAINAGE STATION  
102 X 84 WCA X  
SCALE 1:1  
JT 3-13-85  
NOTE: THIS DWG.  
IS REDUCED

CONFIDENTIAL  
PROPERTY OF  
ALLIS-CHALMERS CORP.

08-X50-654-401



- M-1 5.8770 - .0005 DIA.
- M-2 5.938 - .005 DIA.
- M-3 A.001
- M-4 6.100 - .010 DIA.
- M-5 6.2525 - .0005 DIA.
- A.002
- A.001 (M-5)
- M-6 6.0020 - .0005 DIA.
- M-7 A.001 - B-

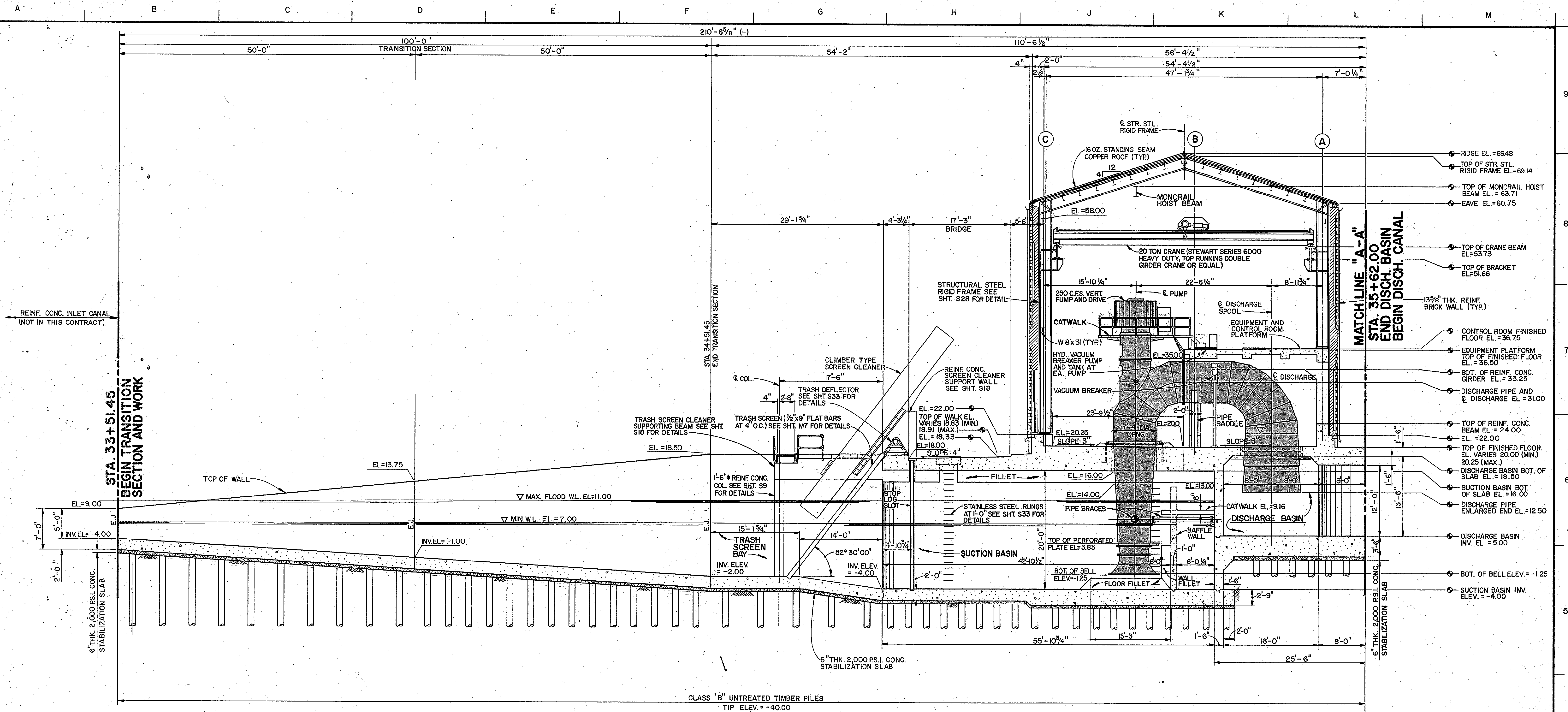


AFTER SHAFT IS FINISHED MACHINED, STEEL STAMP THE LAST FOUR DIGITS OF THE MFG. ORDER NO WITH .375 HIGH NUMERALS SEE PURCHASE ORDER FOR MFG. ORDER NO.

MACH 11-85  
5107  
SEE LETTER  
OR 3-11-85

MACHINE SURFACE TEXTURE, TOLERANCES AND GEOMETRIC FORM CONTROL PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

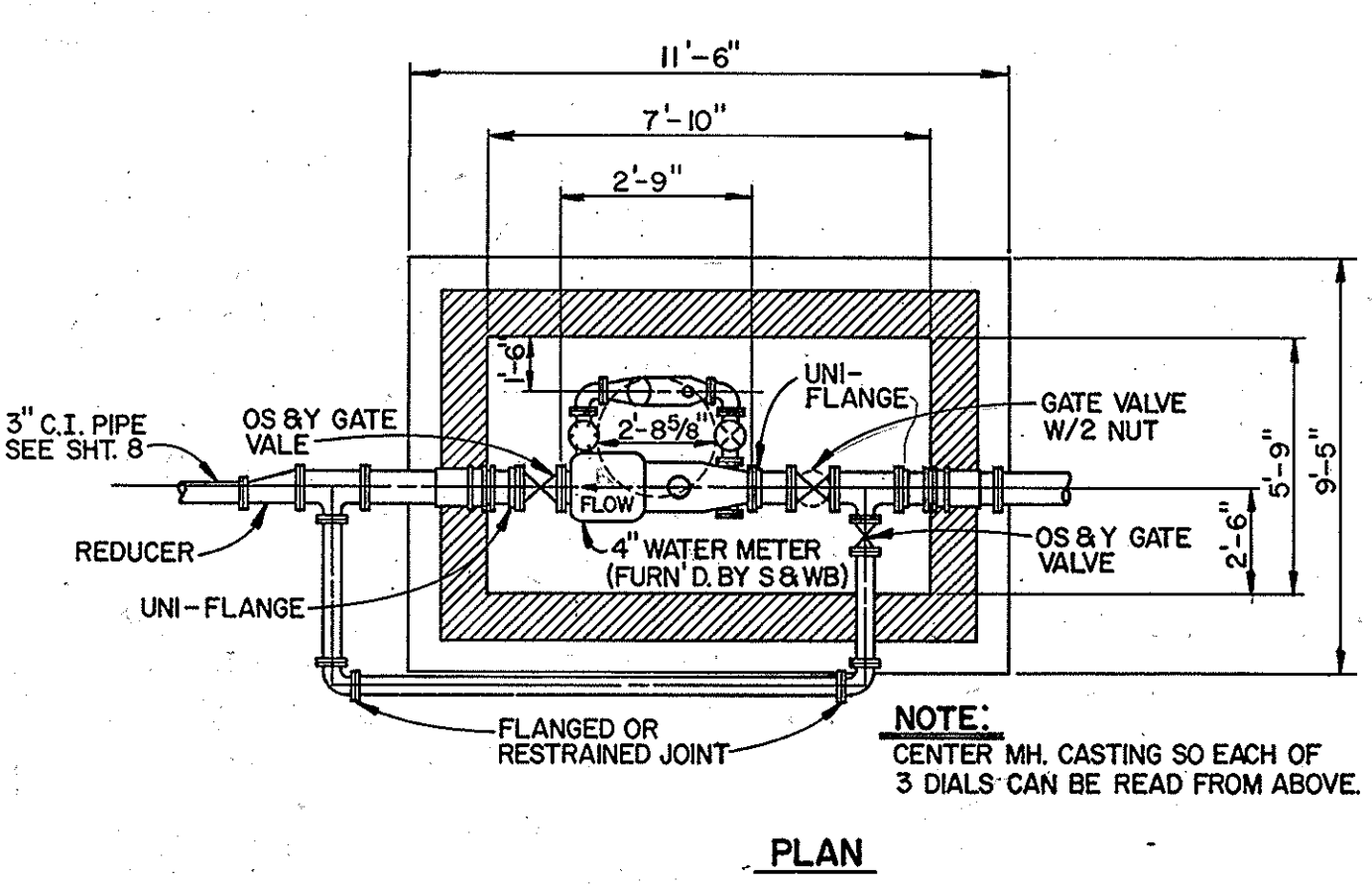
CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b> 4438 M1 PLANT		NAME <b>SHAFT - UPPER</b> 102 X 84 WCAX PUMP	
UNLESS OTHERWISE SPECIFIED:		MATERIAL <b>BARROUN 6.625 X 239.9</b>	
1- PLACE DEC ± .06	ANGULAR	MATERIAL SPEC. <b>08-218-900-040</b>	
2- PLACE DEC ± .03	-	WT # 2343	
3- PLACE DEC ± .01	-	# 2175	
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		MATERIAL REF STAINLESS <b>STEEL A151 316</b>	
DR <b>8/13/84</b>	SCALE	PART NO. <b>08-404-607 256</b>	
CH <b>JT 7-23-84</b>	NTS	ISSUE <b>02</b>	
AP <b>RKH 23 Jan 84</b>			



**LONGITUDINAL SECTION - PUMPING STATION**

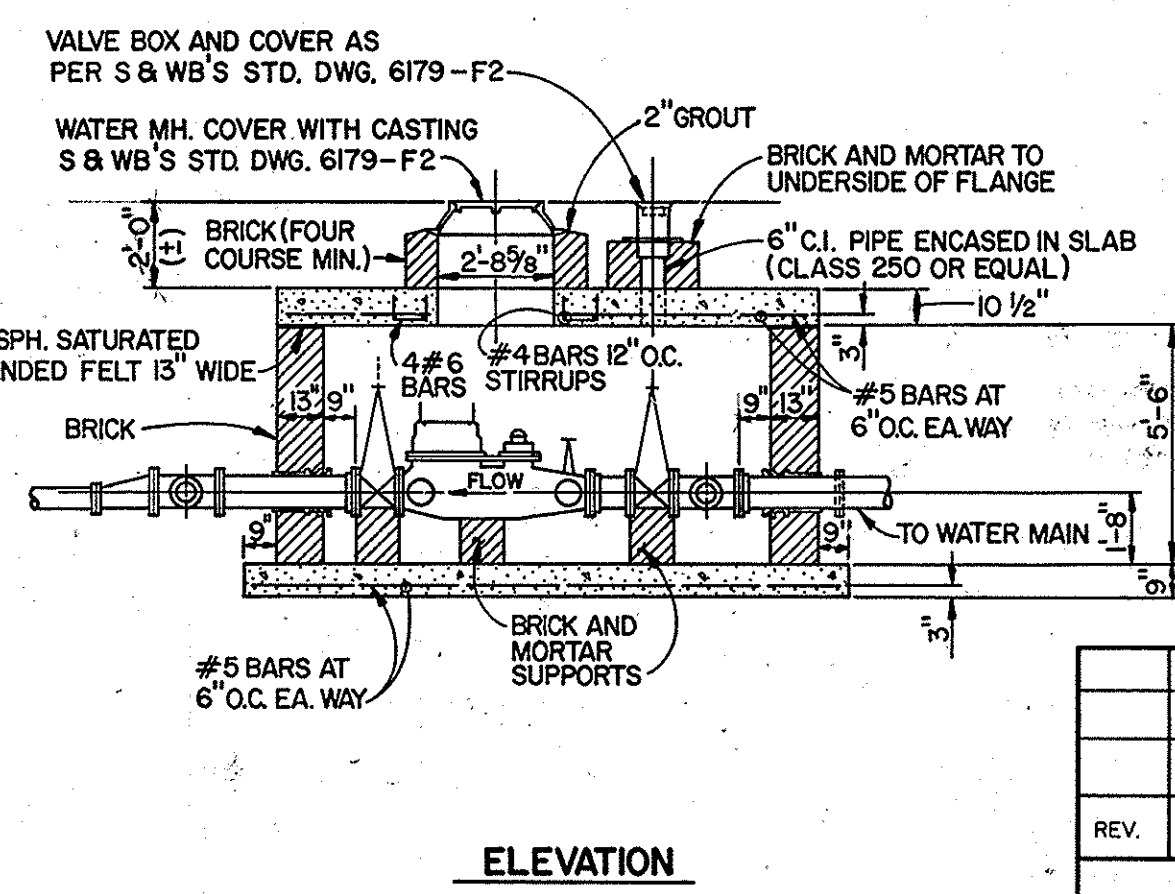
SCALE: 1/8" = 1'-0"  
 NOTES: 1. ALL ELEVATIONS REFER TO CAIRO DATUM.  
 2. REINFORCING STEEL NOT SHOWN.  
 3. CONTROL ROOM NOT SHOWN.

NOTES:  
 1) ITEMS SHOWN SHADED ON THIS SHT. WILL BE FURNISHED BY THE BOARD AND INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT.  
 2) CATWALK AT TOP OF CLIMBER SCREEN NOT SHOWN.



NOTES:  
 1. ALL PIPE WITHIN AREA SHOWN TO BE DUCTILE IRON THICKNESS CLASS 51.  
 2. TOP AND BOT. SLABS ARE TO BE FORMED AND Poured IN PLACE, TOP SLABS TO BE REMOVABLE.  
 3. METER AND PIPING TO BE INSTALLED BEFORE POURING OF TOP SLAB.

**MANHOLE AND WATER METER DETAIL**



This tracing is provided **DEC 28 1992**  
 in accordance with the provisions of our contract, as a record document. No changes, alterations and/or additions to this record document are authorized or permitted.

PEPPER & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

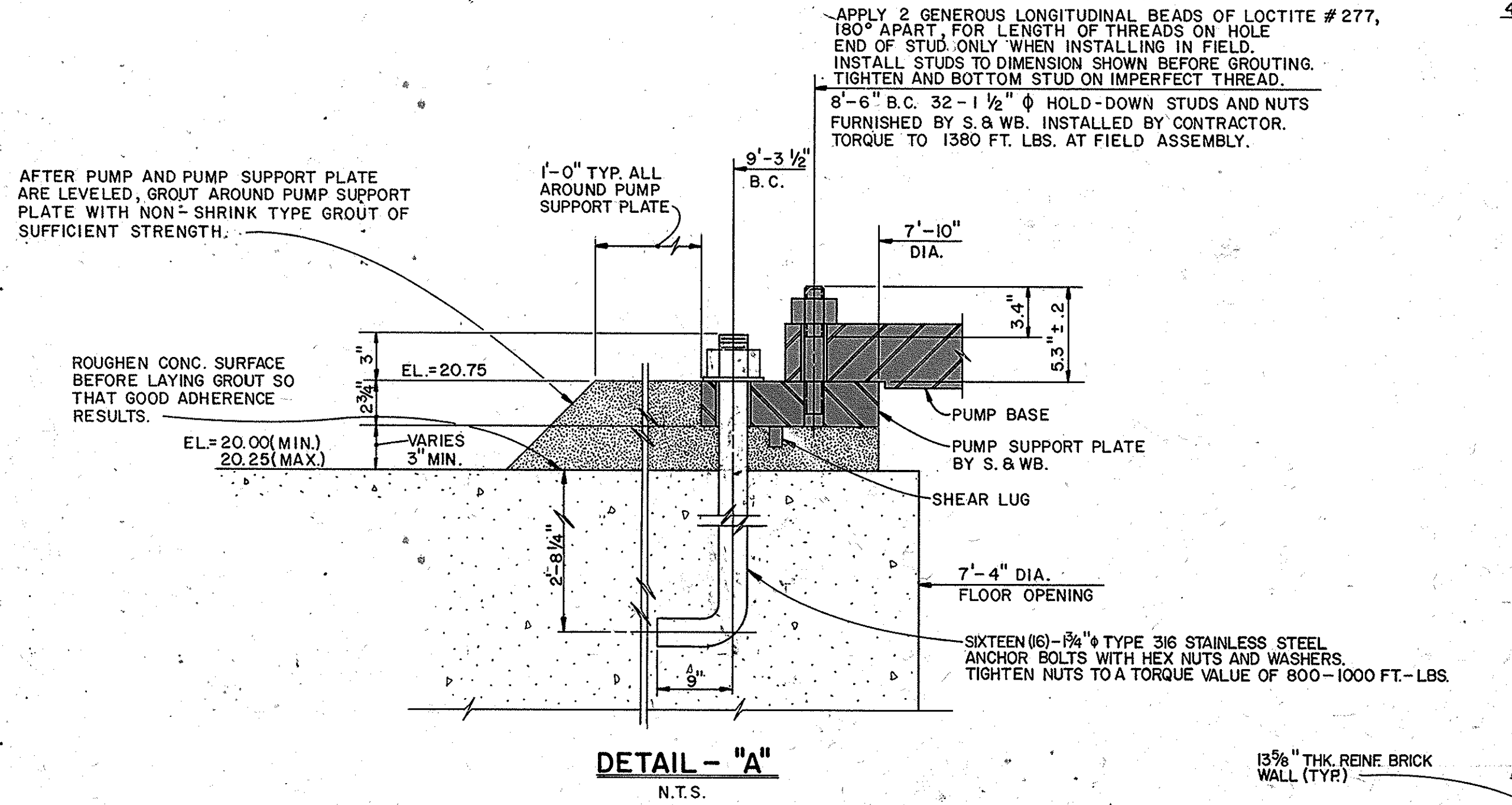
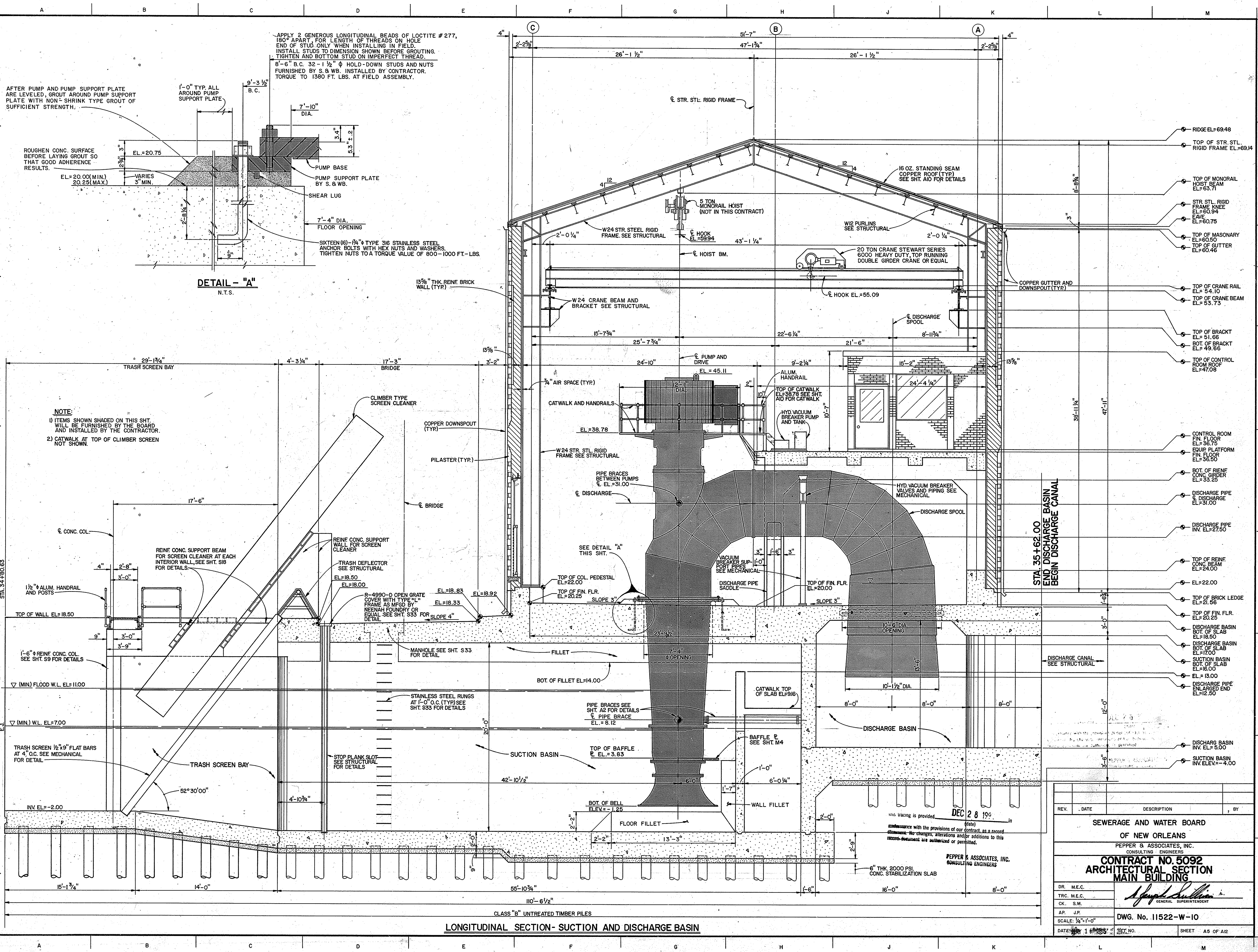
REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD  
 OF NEW ORLEANS  
 PEPPER & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
**CONTRACT NO. 5092**  
**LONGITUDINAL SECTION - PUMPING STATION**

DR. M.E.C.  
 TRC. M.E.C.  
 CK. S.M.  
 AP. J.P.  
 SCALE: AS SHOWN  
 DATE: 12 15 1992

*Shay L. Sullivan*  
 GENERAL SUPERINTENDENT

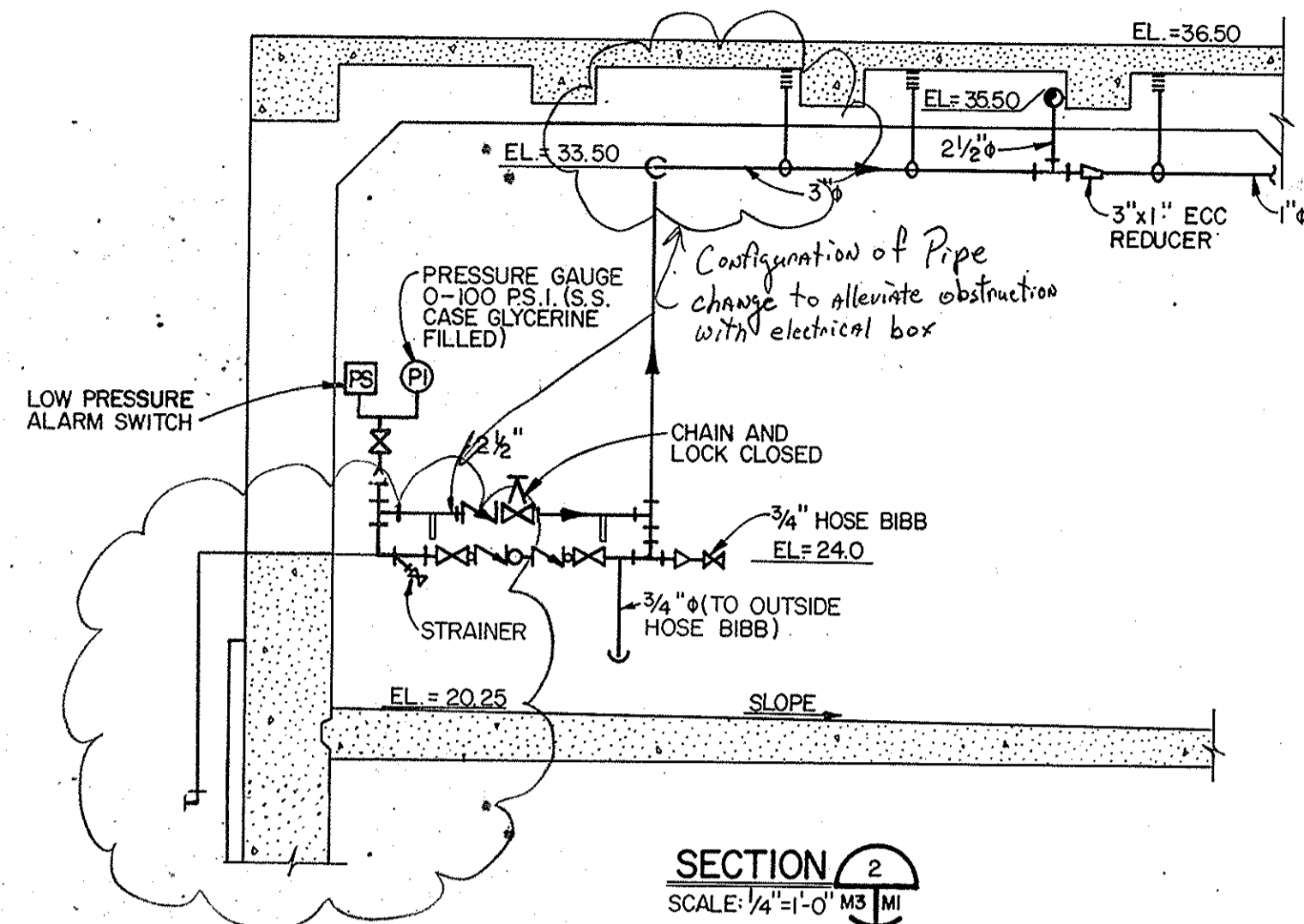
DWG. No. 11522-W-10  
 SET NO. SHEET NO. 9 OF 15



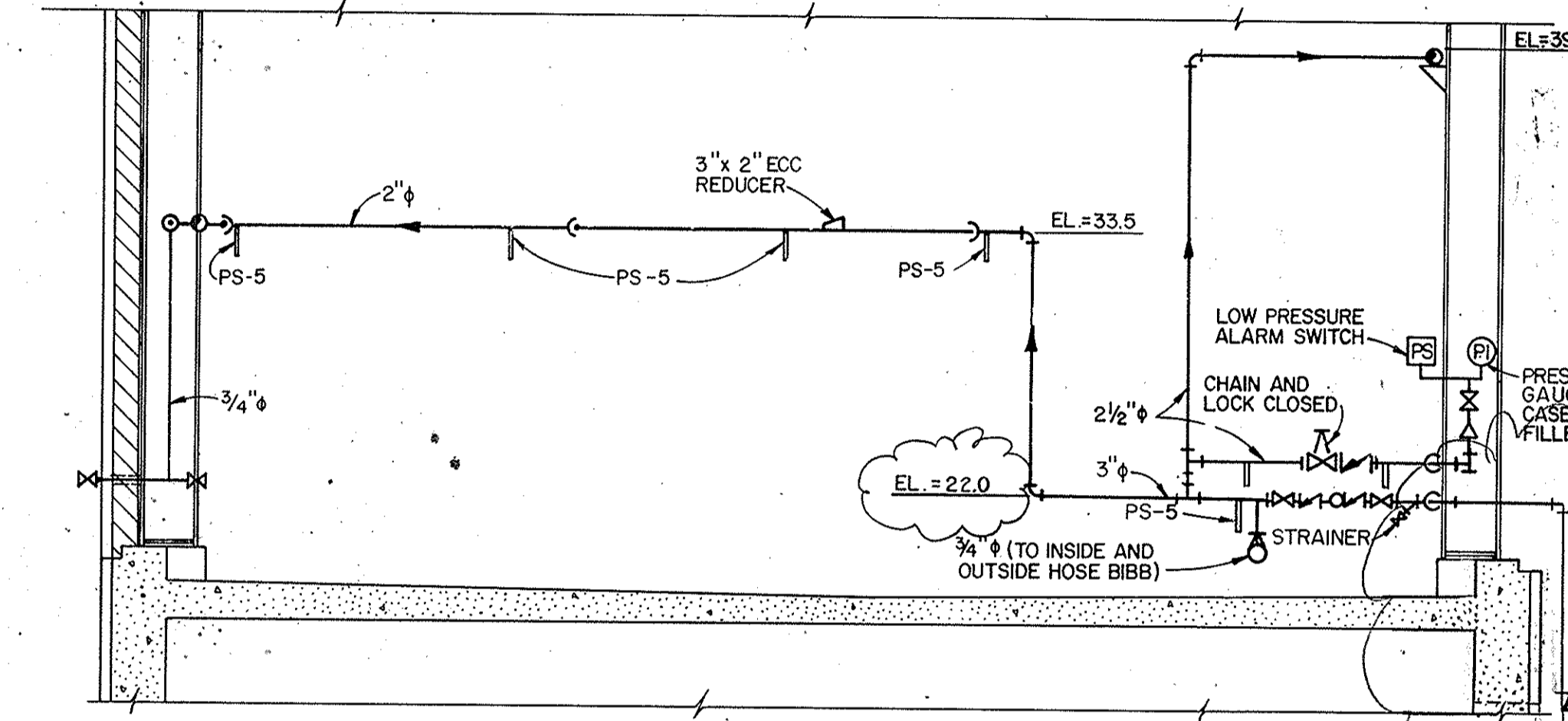
**NOTE:**  
 1) ITEMS SHOWN SHADED ON THIS SHIT. WILL BE FURNISHED BY THE BOARD AND INSTALLED BY THE CONTRACTOR.  
 2) CATWALK AT TOP OF CLIMBER SCREEN NOT SHOWN.

STA. 34+90.63  
 TOP OF WALL EL=18.50  
 1'-6" REINF. CONC. COL. SEE SHT. S9 FOR DETAILS  
 (MIN) FLOOD W.L. EL=11.00  
 (MIN) W.L. EL=7.00  
 TRASH SCREEN 1/2" x 3/8" FLAT BARS AT 4" O.C. SEE MECHANICAL FOR DETAIL  
 INV EL=-2.00

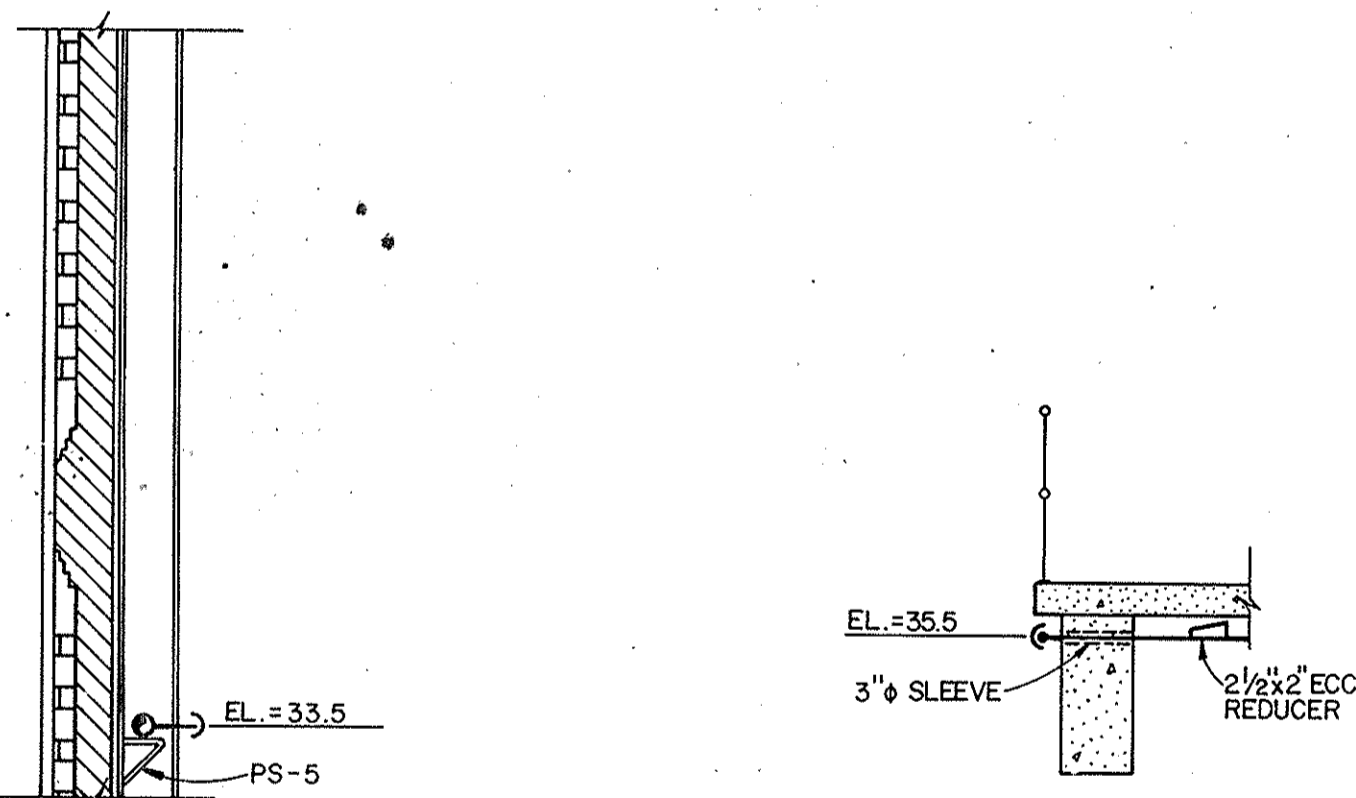




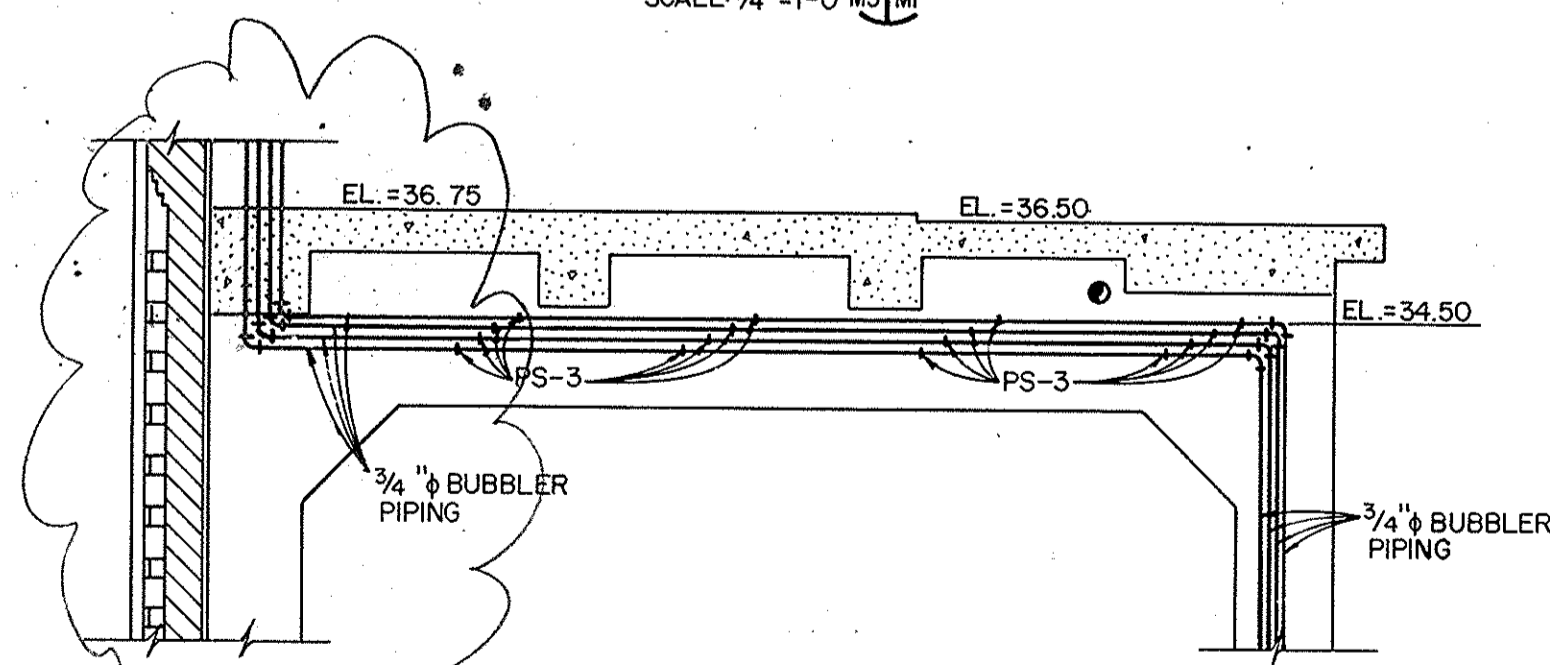
SECTION 2  
SCALE: 1/4" = 1'-0" M3 M1



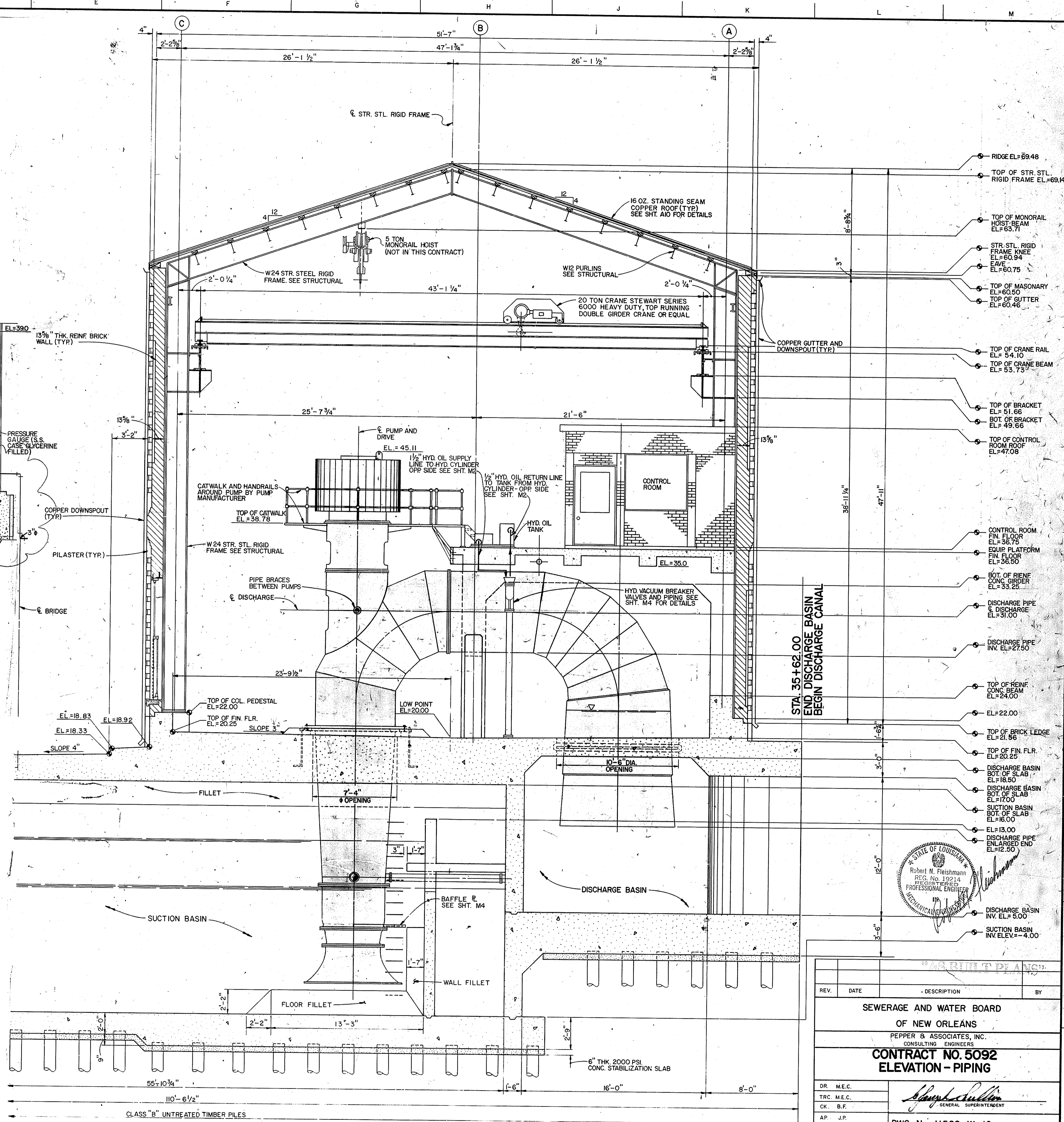
SECTION 3  
SCALE: 3/16" = 1'-0" M3 M1



SECTION 4  
SCALE: 1/4" = 1'-0" M3 M1



SECTION 5  
SCALE: 1/4" = 1'-0" M3 M1



LONGITUDINAL SECTION - SUCTION AND DISCHARGE BASIN

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD  
OF NEW ORLEANS  
PEPPER & ASSOCIATES, INC.  
CONSULTING ENGINEERS

**CONTRACT NO. 5092**  
**ELEVATION - PIPING**

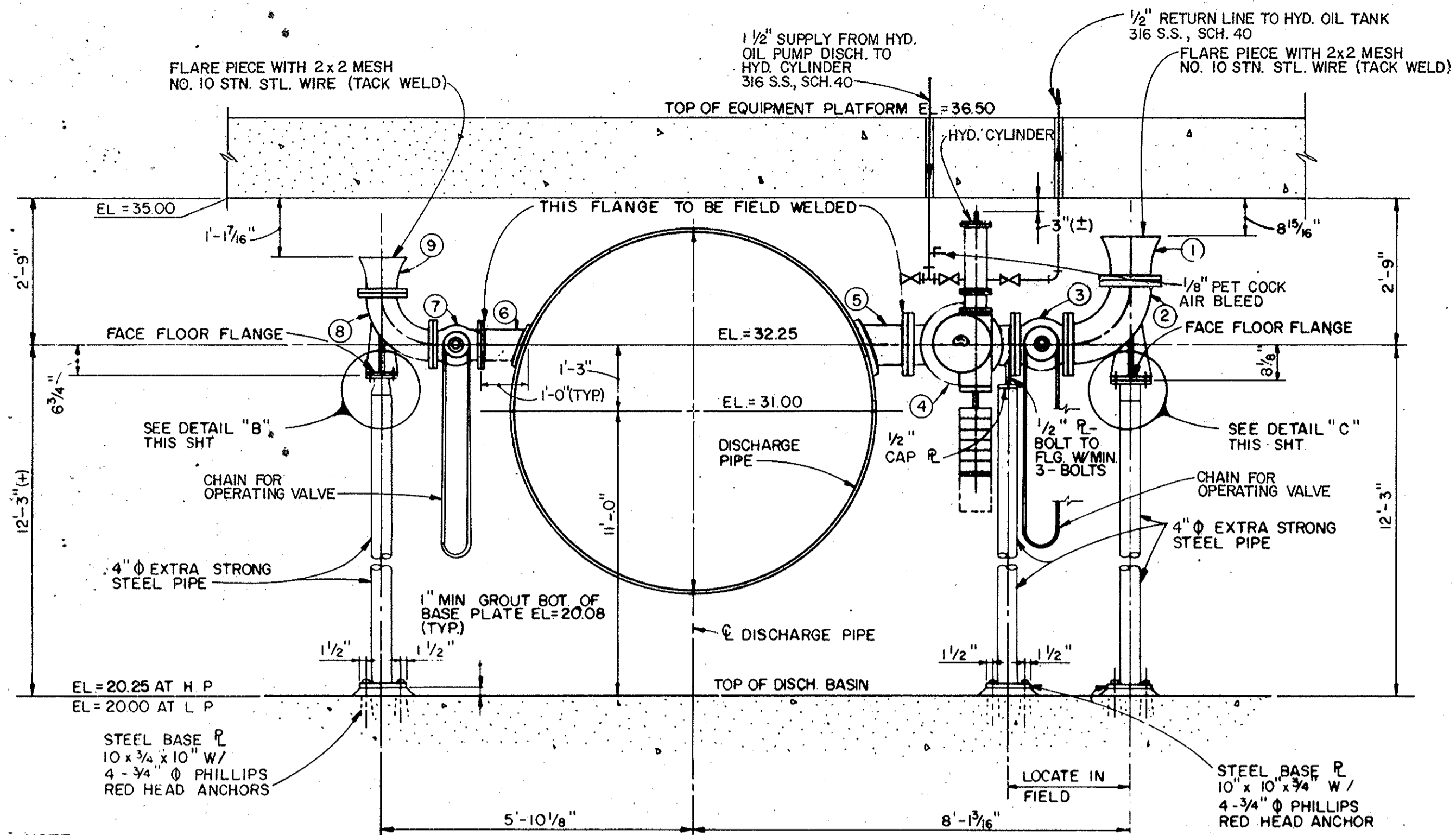
DR. M.E.C.  
TRC. M.E.C.  
CK. B.F.

*Robert W. Fleischmann*  
REGISTERED PROFESSIONAL ENGINEER  
MECHANICAL

AP. J.P.  
SCALE: 1/4" = 1'-0"

DWG. No. 11522-W-10

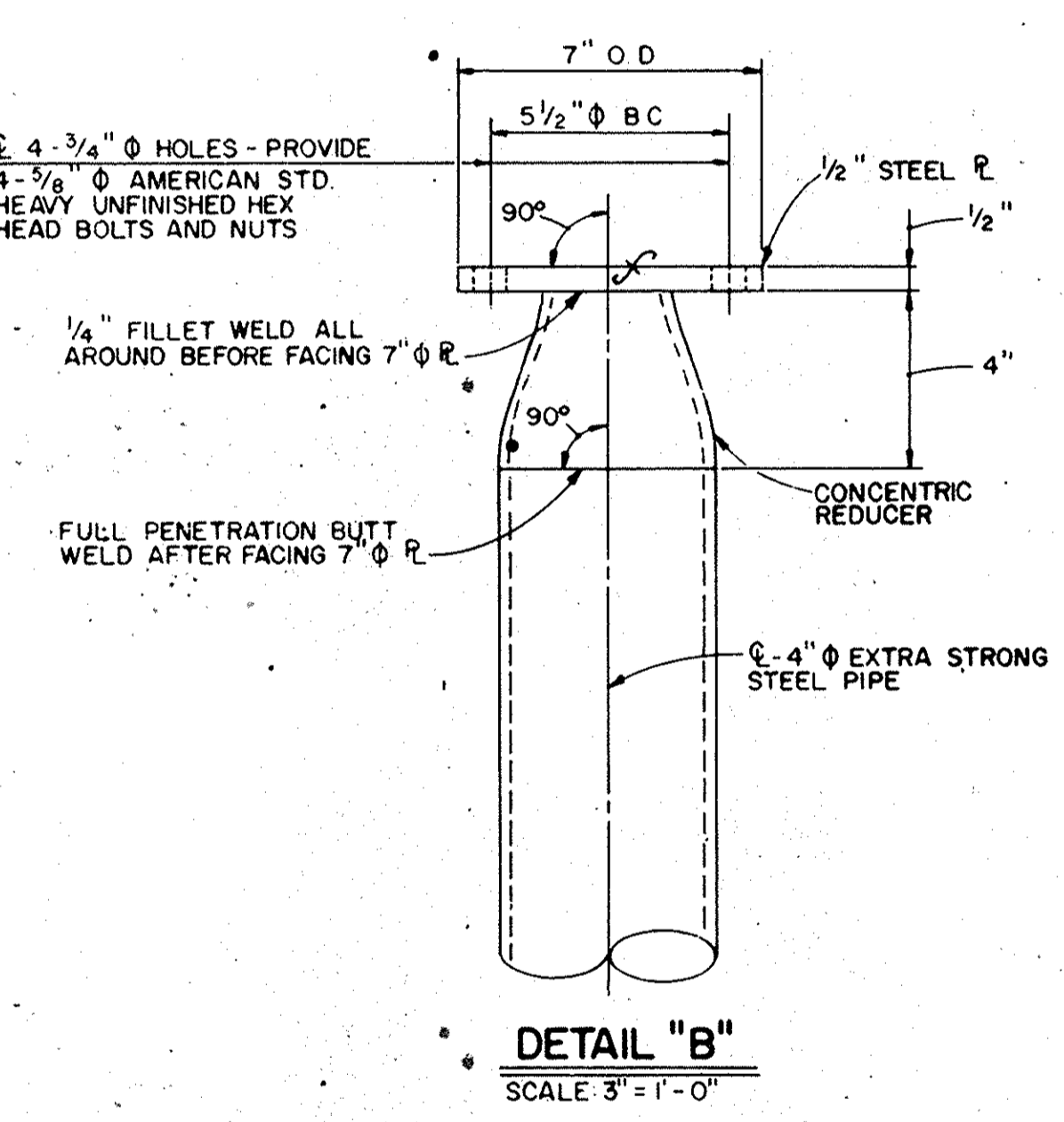
DATE: SET NO. SHEET M3 OF M17



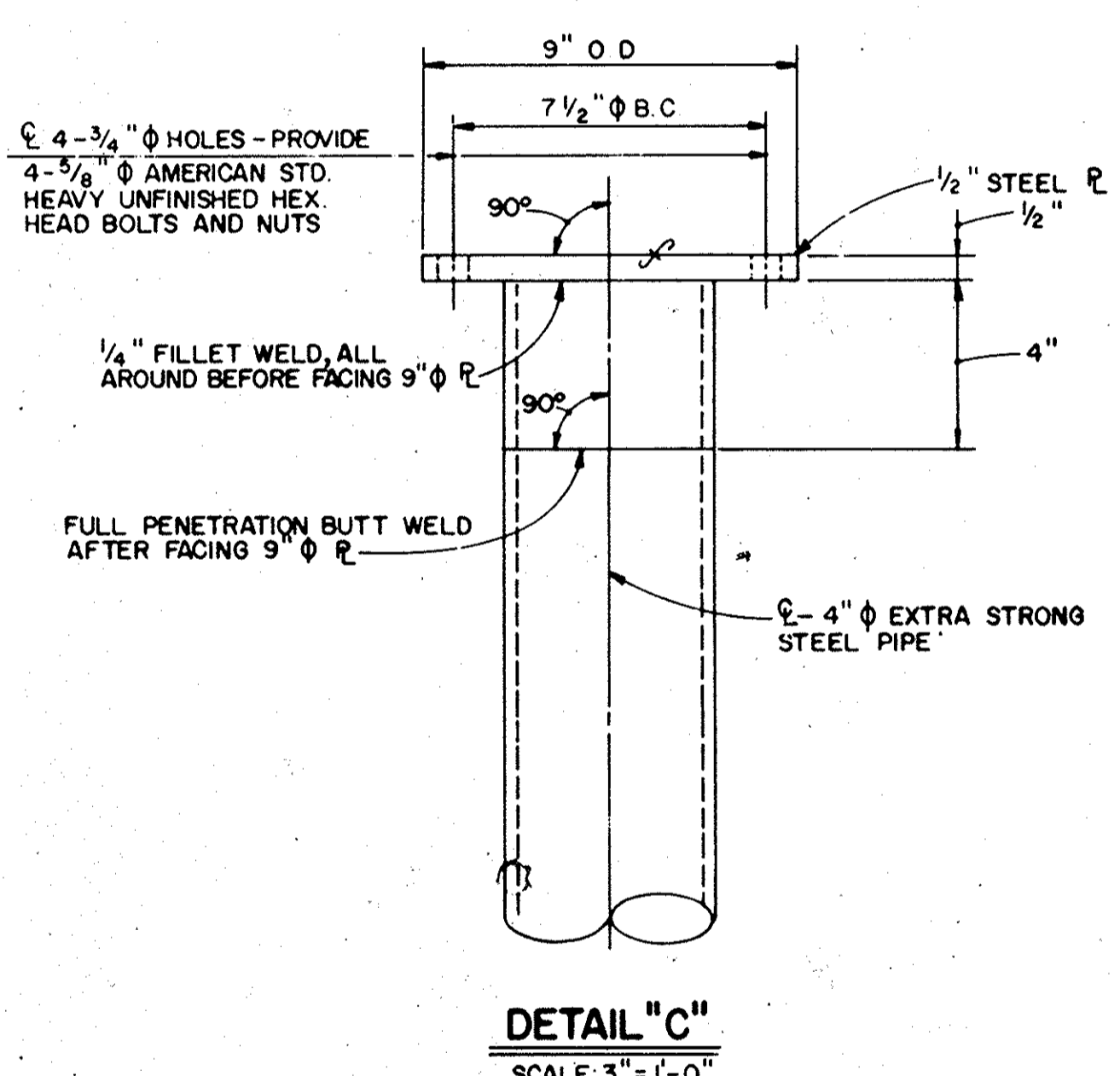
**ELEVATION - HYDRAULIC VACUUM BREAKER SYSTEM**  
SCALE: 1/2" = 1'-0"

VACUUM BREAKER SYSTEM			
BILL OF MATERIAL			
MARK NO.	QTY.	DESCRIPTION	FURNISHED BY
①	4	8" CAST IRON FLANGE AND FLARE PIECE - 125 LB. FLANGE FACED AND DRILLED	CONTRACTOR
②	4	8" - 125 LB. A.S.A. - C.I. LONG RADIUS BASE ELBOW - 125 LB. FLANGE FACED AND DRILLED	CONTRACTOR
③	4	8" - CRANE No. 475 1/2 GATE VALVE - FLANGED - O.S. & Y. - ALL IRON	CONTRACTOR
④	4	8" - 125 LB. HYDRAULIC ALLIS - CHALMERS ROTOVALVE WITH AUTOMATIC OPENING DEVICE	CONTRACTOR
⑤	4	8" STEEL STUB WITH 150 LB. STD. STEEL FLANGE (SCHEDULE 80 PIPE)	PUMP MFR.
⑥	4	6" STEEL STUB WITH 150 LB. STD. STEEL FLANGE (SCHEDULE 80 PIPE)	PUMP MFR.
⑦	4	6" CRANE VALVE - No. 475 1/2 GATE VALVE - FLANGED - O.S. & Y. - ALL IRON	CONTRACTOR
⑧	4	6" - 125 LB. A.S.A. - C.I. LONG RADIUS BASE ELBOW - 125 LB. FLANGES FACED AND DRILLED	CONTRACTOR
⑨	4	6" CAST IRON FLANGE AND FLARE PIECE - 125 LB. FLANGE FACED AND DRILLED	CONTRACTOR
		1/8" CLOTH INSERTED RUBBER FULL FACE GASKET PER JOINT	CONTRACTOR
		ALL MACHINE BOLTS WITH HEX NUT PER JOINT	CONTRACTOR

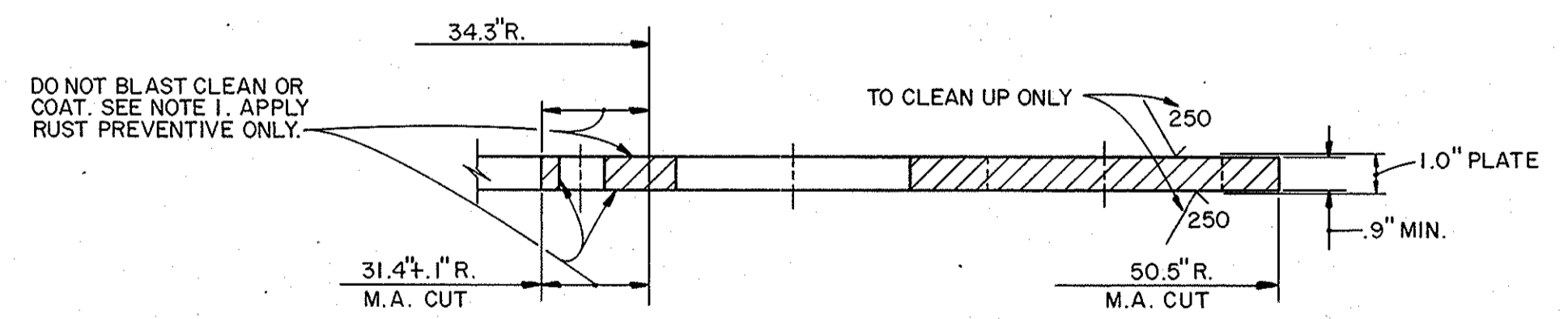
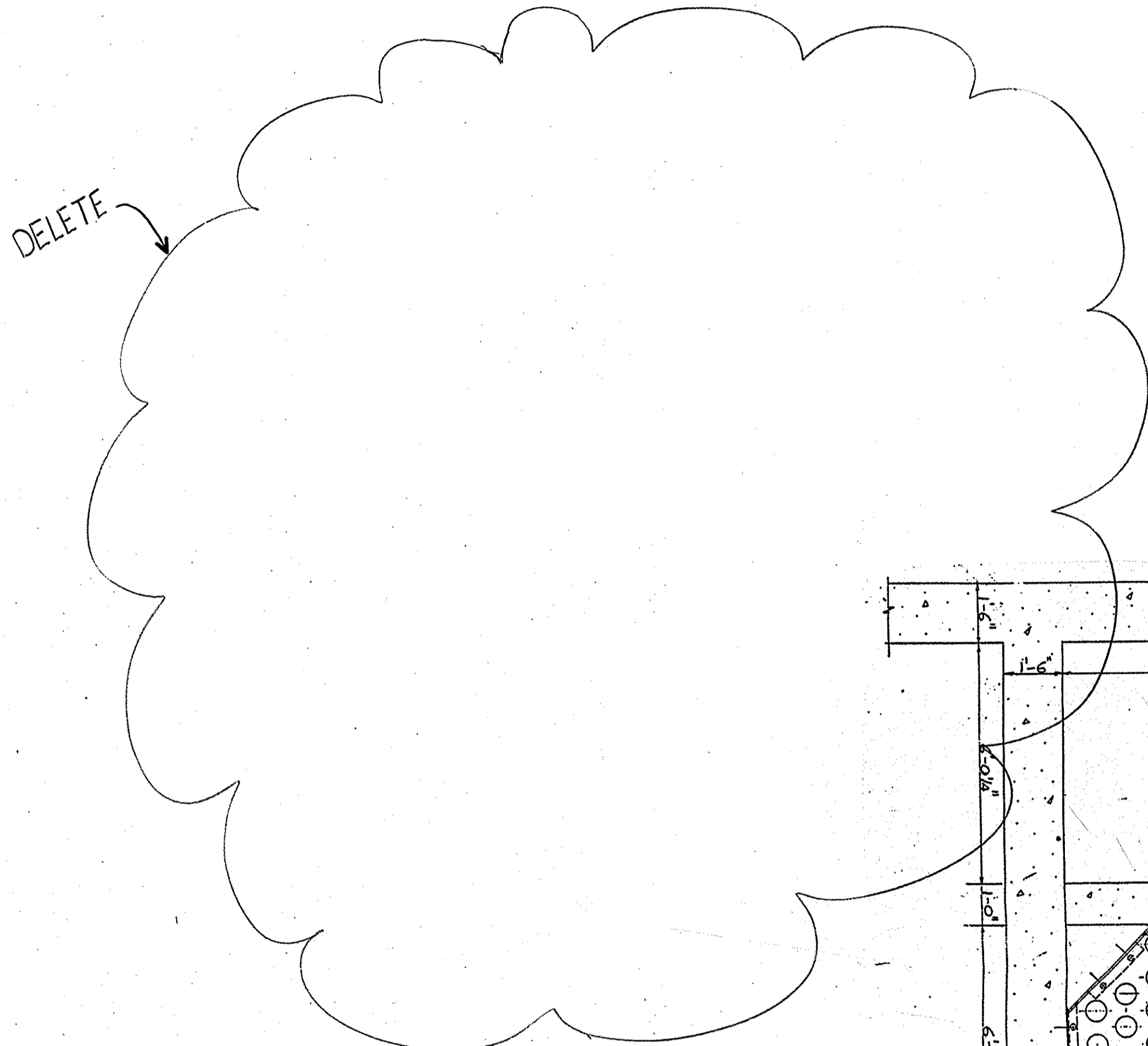
NOTE:  
REFER TO BILL OF MATERIAL THIS SHT FOR PART DESCRIPTION



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

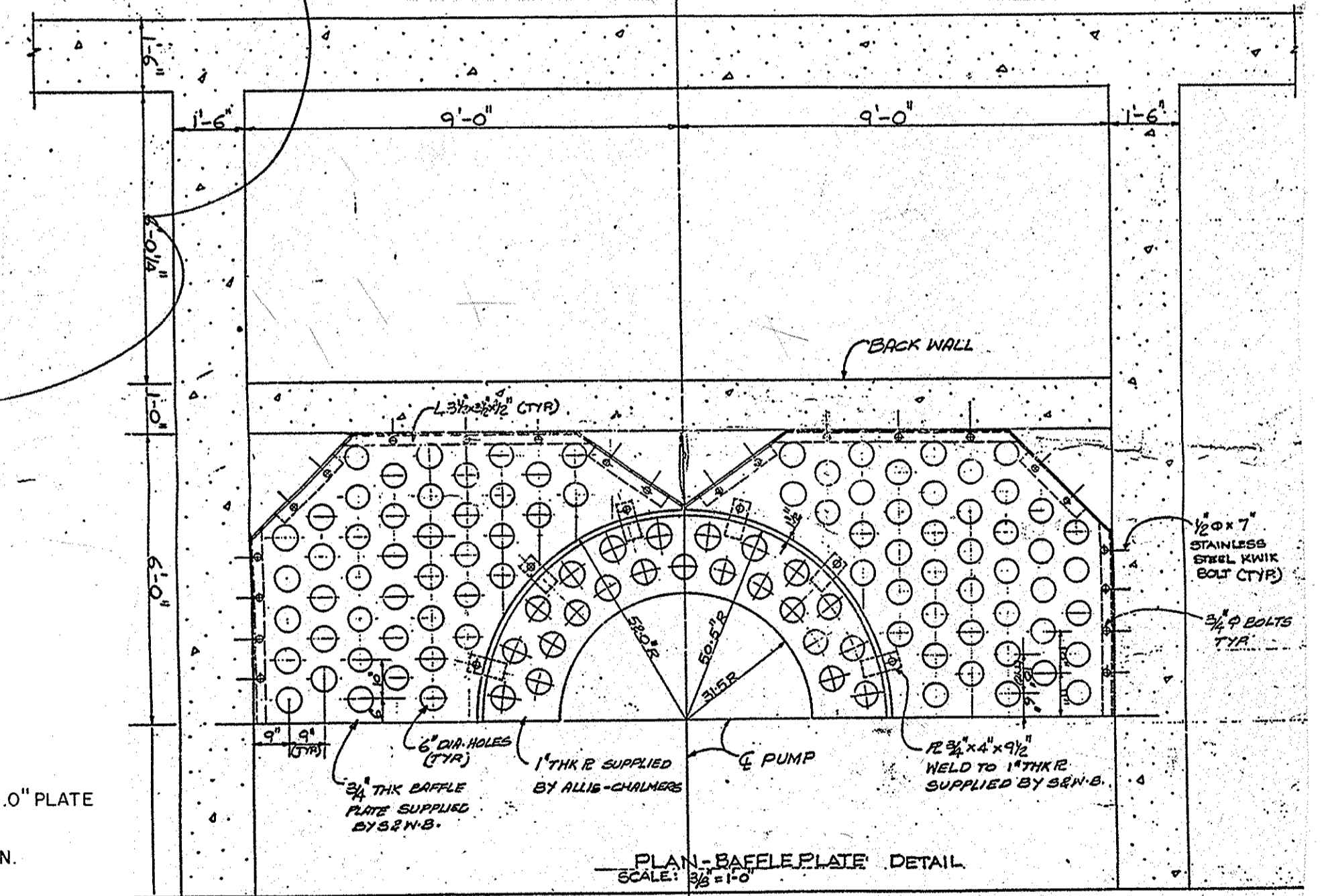


**DETAIL "C"**  
SCALE: 3" = 1'-0"



**SECTION A-A**  
SCALE: 3" = 1'-0"

- NOTE:
- AFTER MACHINING, BLAST CLEAN AND COAT ENTIRE BAFFLE, EXCEPT AS INDICATED IN SECTION A-A, WITH COAL TAR EPOXY C-200 PER 08-GIO-001-475.
  - BAFFLE PLATE TO BE INSTALLED ON EXTERIOR OF PUMP AS SHOWN ON DWG. 902 AT JOINT BETWEEN DIFFUSER SECTION AND IMPELLER SECTION.
  - CONTRACTOR TO PROVIDE ADDITIONAL, LONGER BOLTS TO ATTACH BAFFLE PLATE.
  - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BAFFLE PLATES ON EXTERIOR OF PUMPS, AS ON DRAWING M3, AT JOINT BETWEEN DIFFUSER SECTION AND IMPELLER SECTION.



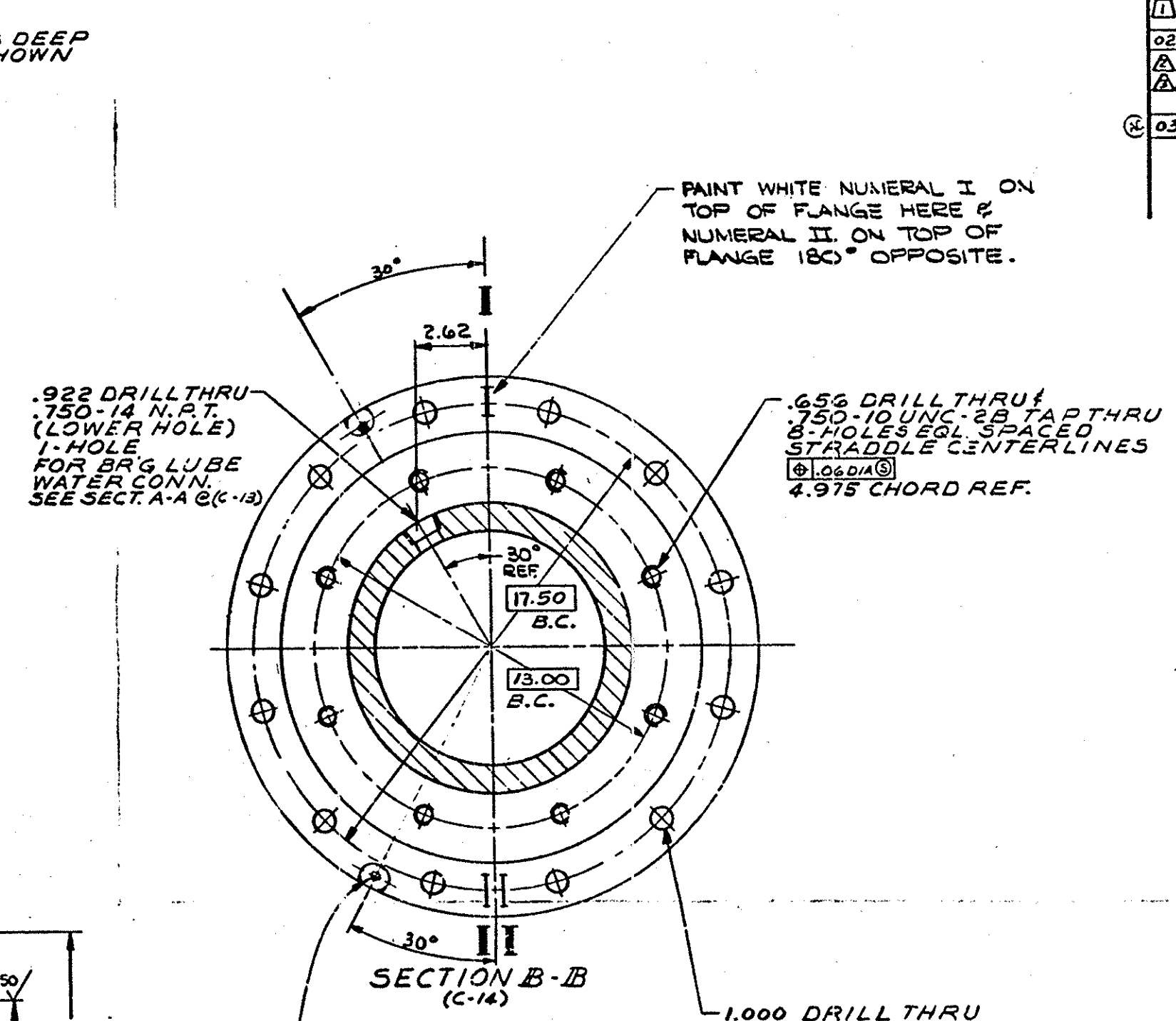
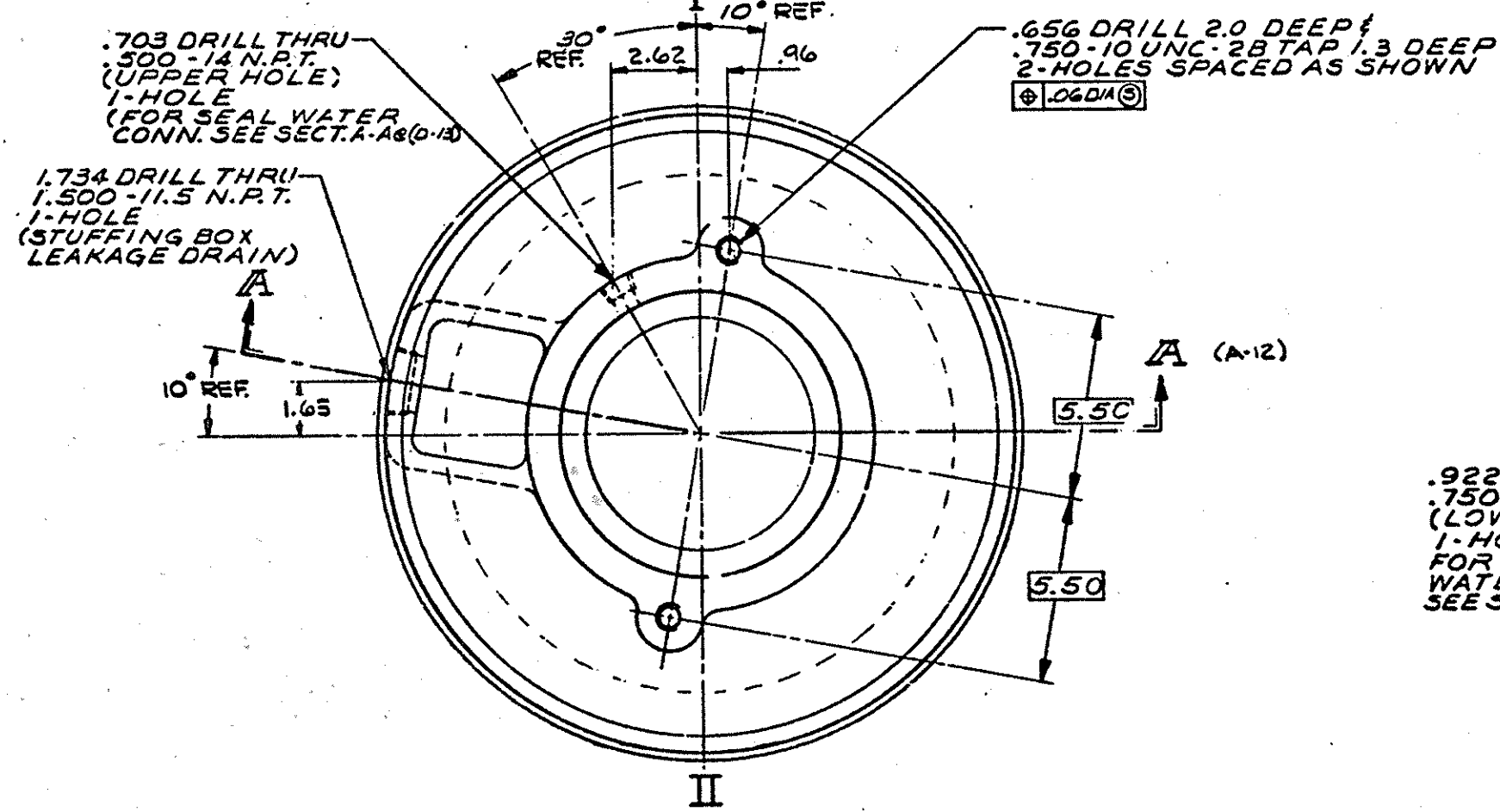
REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

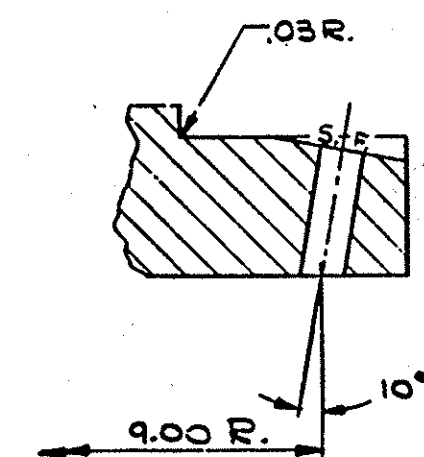
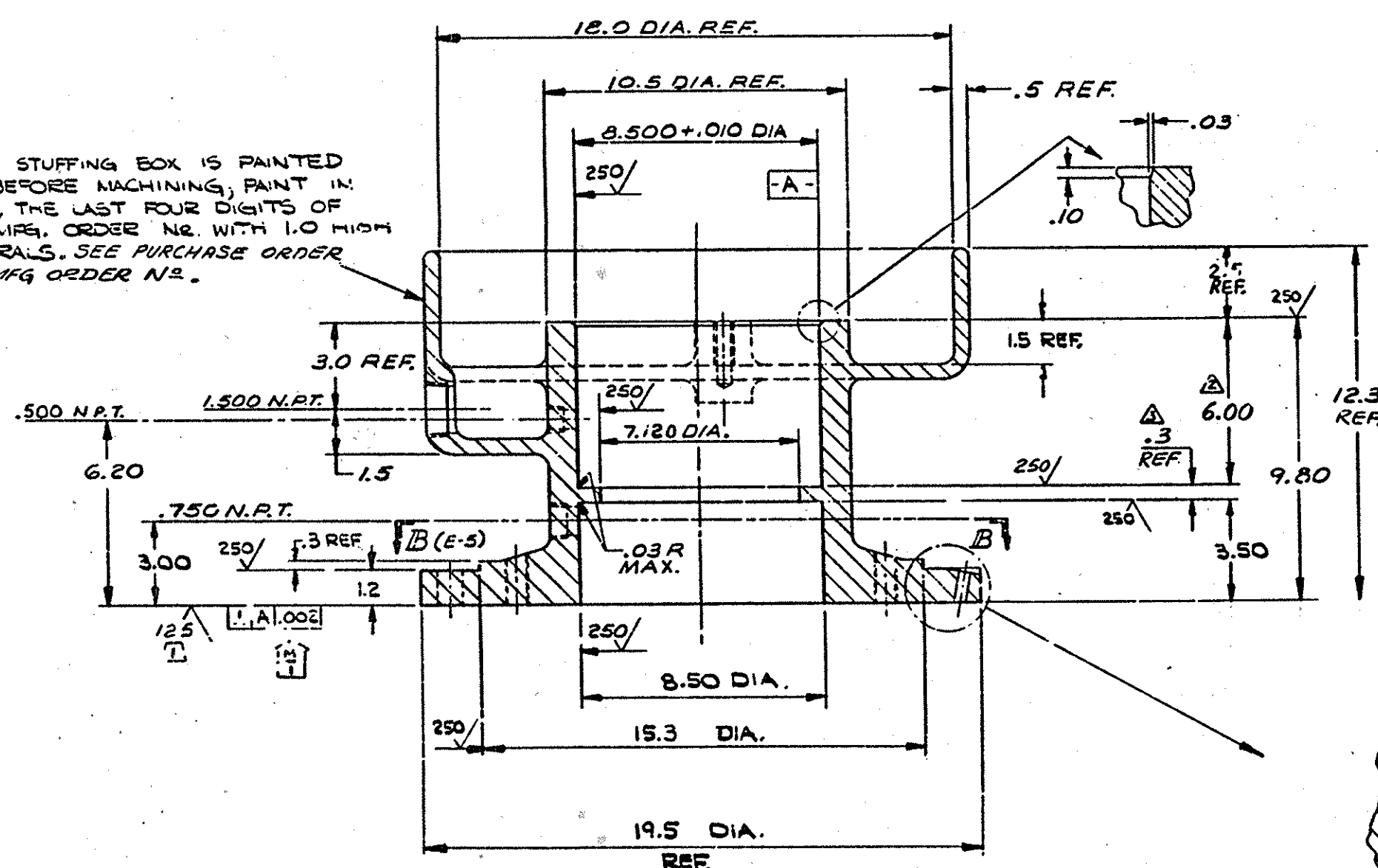
PEPPER & ASSOCIATES, INC.  
CONSULTING ENGINEERS

**CONTRACT NO. 5092**  
**HYDRAULIC VACUUM BREAKER SYSTEM AND BAFFLE PLATE DETAILS**

DR. A.H.		
TRC. A.H.		
CK. B.F.		
AP. J.P.		
SCALE AS SHOWN		
DATE	SET No.	SHEET No. M4 OF M17



AFTER STUFFING BOX IS PAINTED AND BEFORE MACHINING, PAINT IN WHITE, THE LAST FOUR DIGITS OF THE MFG. ORDER NO. WITH 1.0 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG ORDER NO.



C1 1-2-83 KLM  
 (C-15) WAS 250/  
 EFF. ON 09324  
 02 7-13-84 KLM  
 (D-9) DIM WAS 5.8  
 (D-9) DIM WAS .6  
 03 3-8-84 KLM

PAINT WHITE NUMERAL I ON TOP OF FLANGE HERE & NUMERAL II ON TOP OF FLANGE 180° OPPOSITE.

SECTION B-B (C-14)

SECTION A-A (H-10)

ENG'G REF:

MACHIN: SURFACE TEXTURE, TO BE SPECIFIED BY CUSTOMER PER CUSTOMER'S CONTRACT & TO CUSTOM PUMP STANDARDS.

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP.

4438 M1 PLANT

NAME: STUFFING BOX  
 102 & 84 W. AX PUMP

ENG'G. REF.	MATERIAL	WT. R.	REMARKS	UNLESS OTHERWISE SPECIFIED	SCALE	SHEET	PART NO.
R/R	ASTM A88 (C.I. 35)	1.70	COAL TAR C-200 PAINT	1- PLACE DIC 2.00 AN BULAR 2- PLACE DIC 2.03 3- PLACE DIC 2.015	1:3	-	08-404-954-401
8/15/84			03				

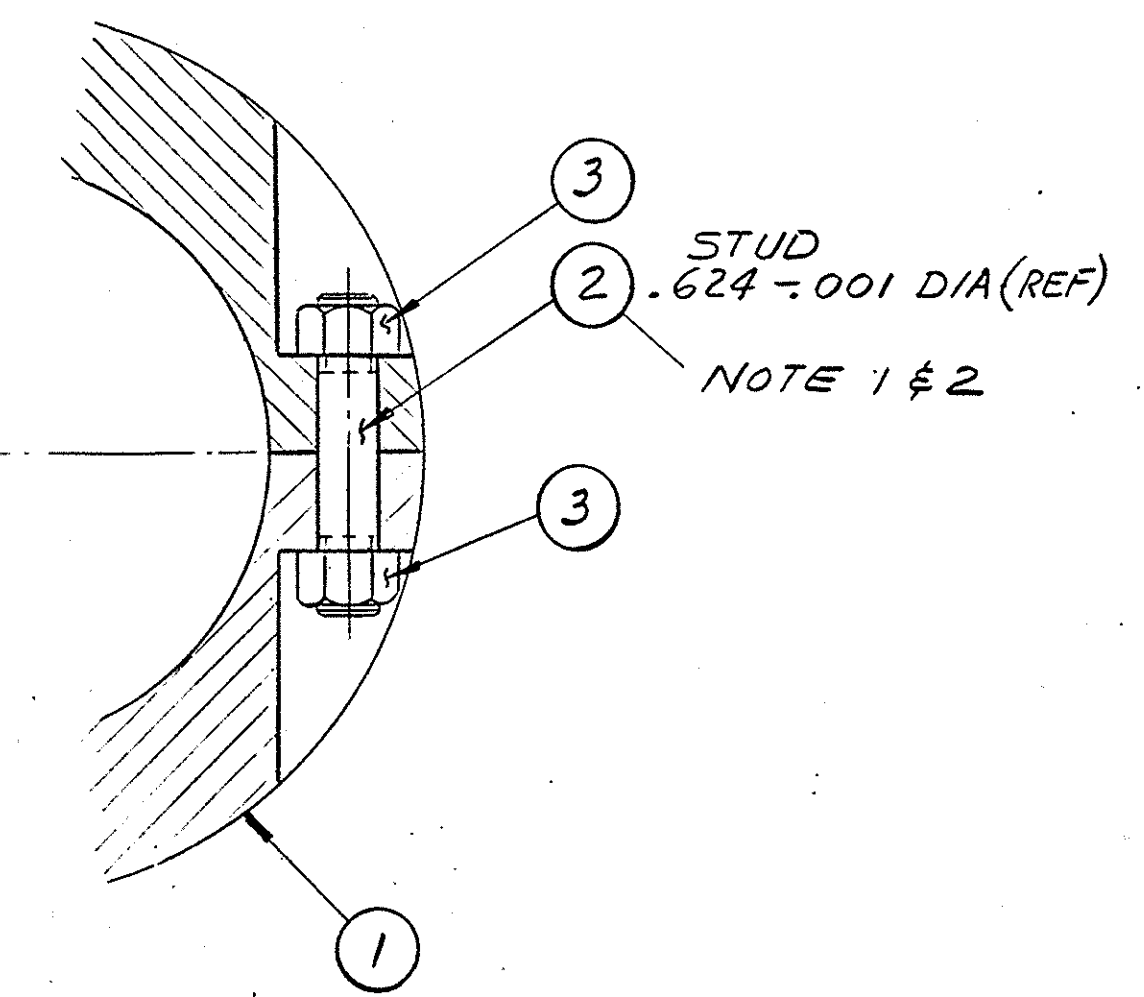
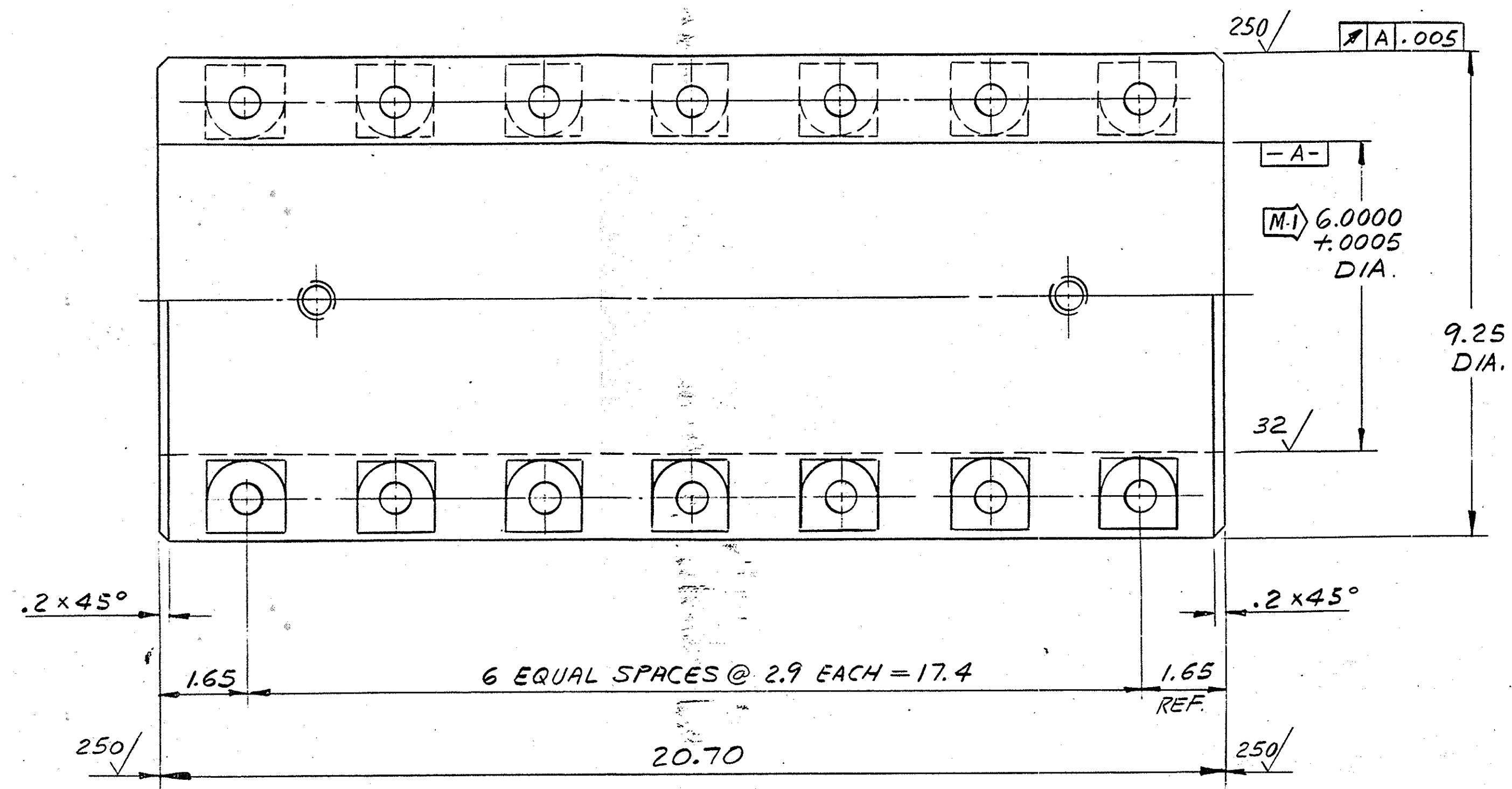
DR MOE 9-1-83  
 CH LF 12-23-82  
 AP RCH 28 DEC 82

1:3

M-1

08-404-954-401

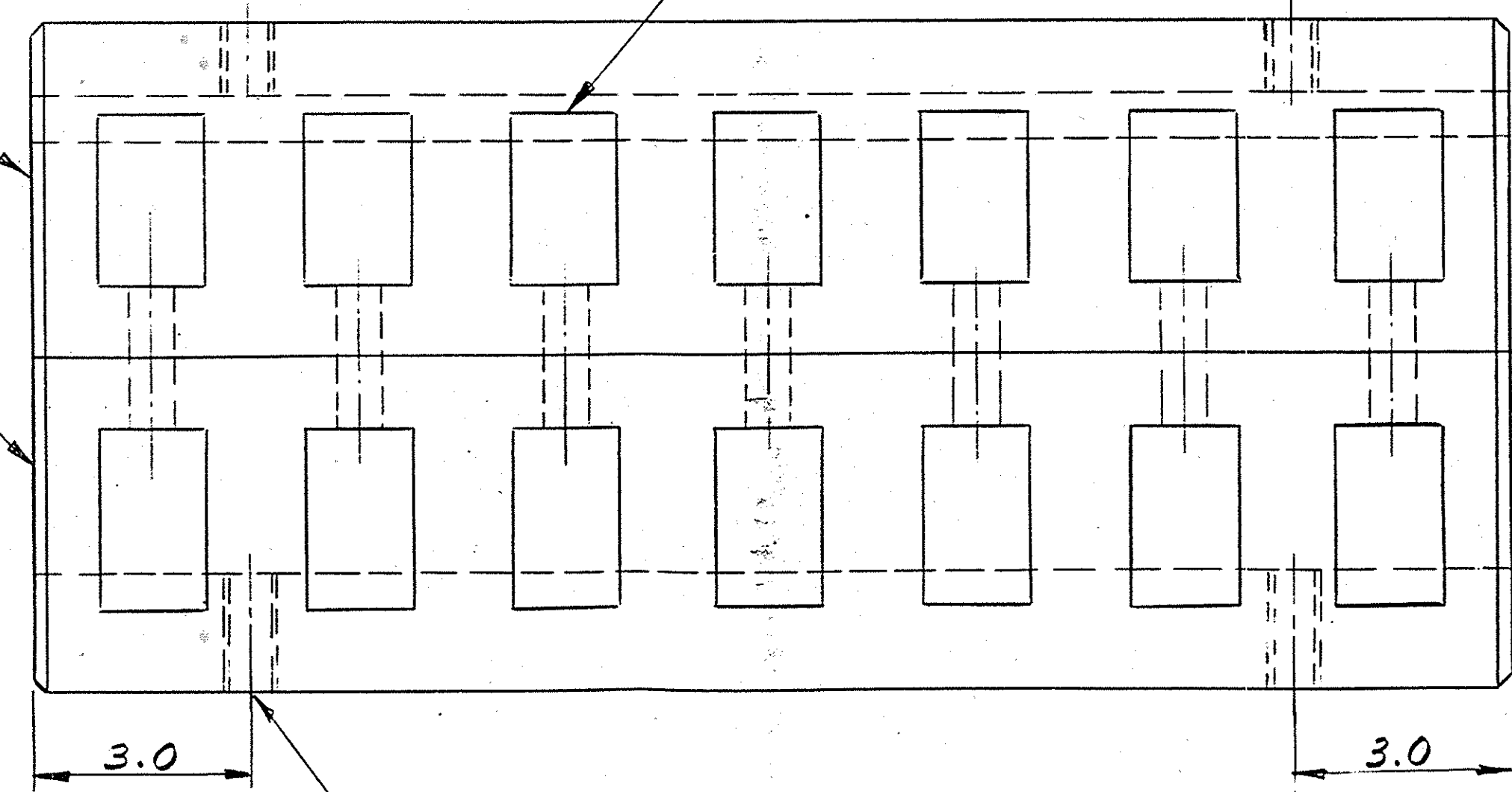
- NOTES:
- APPLY NEVER-SEIZ (CAT. NO. NEN-24A (NEVER-SEIZ COMPOUND COPR.) TO THE THREADS OF WASH. STUDS. TIGHTEN STUDS PRIOR TO INSTALLING NUTS.
  - TIGHTEN STUDS BY 1/4 TURN. USE A TORQUE WRENCH.
  - IDENTIFY COUPLING BY ORIGINAL, NON-MATERIAL & HEAT TREATMENT REPORTS FOR IDENTIFYING MATERIAL AND TO BE SENT TO ALLIS-CHALMERS PURCHASING DEPT. WITH PURCHASE ORDER INSTRUCTIONS.
  - AFTER COUPLING HAS BEEN COMPLETELY MACHINED, DISASSEMBLE COUPLING COMPLETELY AND REASSEMBLE TO ASSURE FIT. TIGHTEN STUDS PER NOTE-2.



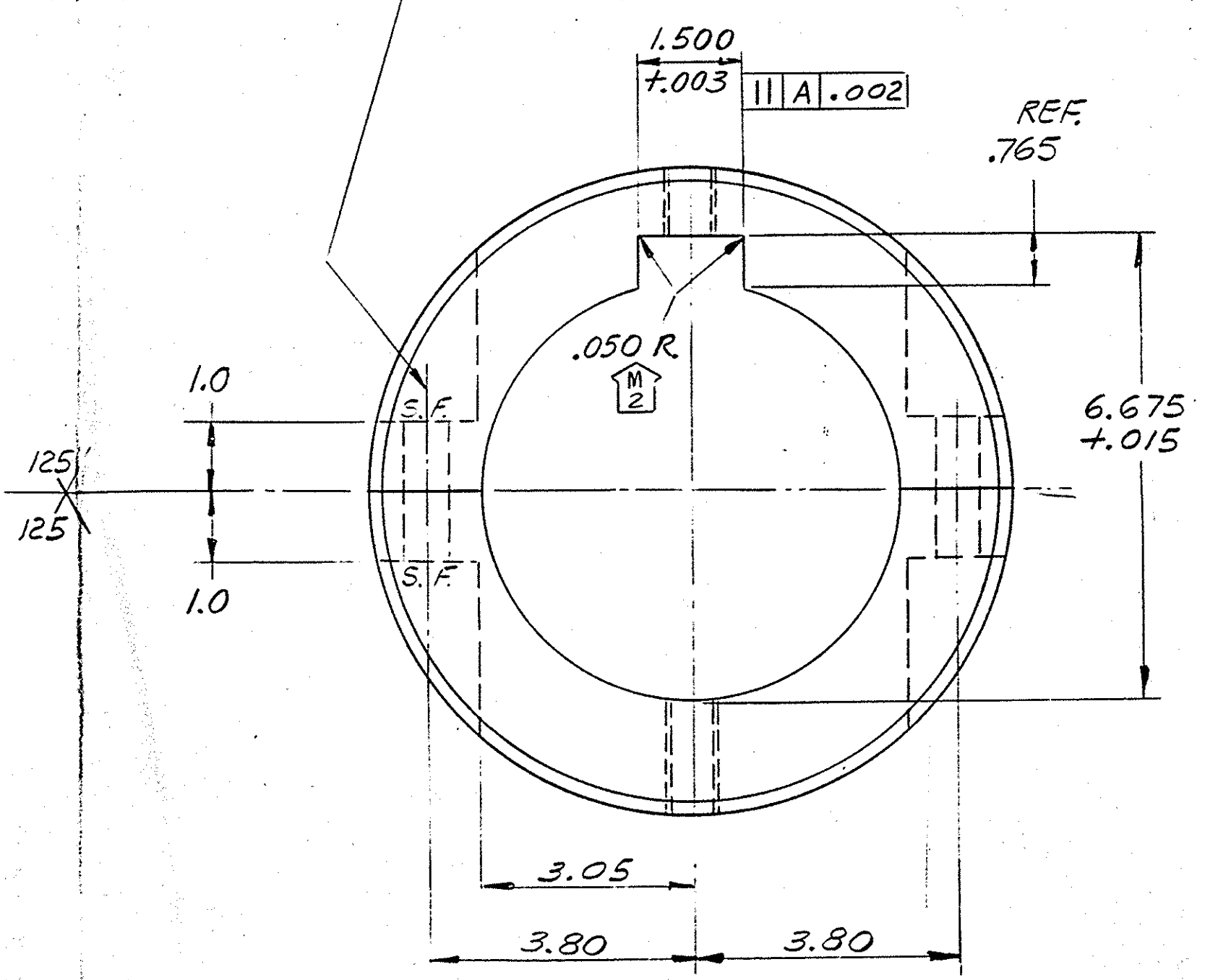
.625 +/- .001 LINE REAM THRU BOTH COUPLING HALVES 1.5 DIA SPOTFACE (FARSIDE & NEARSIDE) 14-HOLES

AFTER COUPLING IS MACHINED, STEEL STAMP THE LAST FOUR DIGITS OF THE MFG. ORDER N<sup>o</sup> ON THE SAME END OF BOTH ASSEMBLED COUPLING HALVES WITH .375 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG. ORDER N<sup>o</sup>.

1.5 DIA ENDMILL 250/ 28 PLACES



.656 DRILL THRU 750-10 UNC 2B TAP THRU 4-HOLES AS SHOWN (FOR HANDLING)



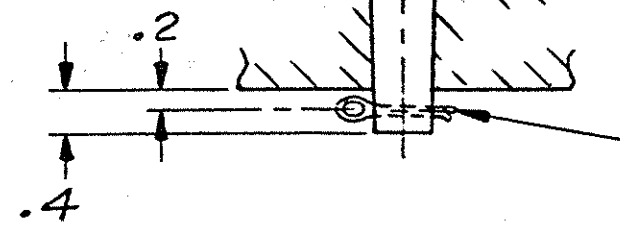
MATERIAL  
COUPLING — ASTM A743 CF-8M (316 STN. STL.)

CONTRACT 5107  
S&WB DVG. N<sup>o</sup> 11577-W-10 SHEET 2 OF 13  
A/R 08-114-636-521

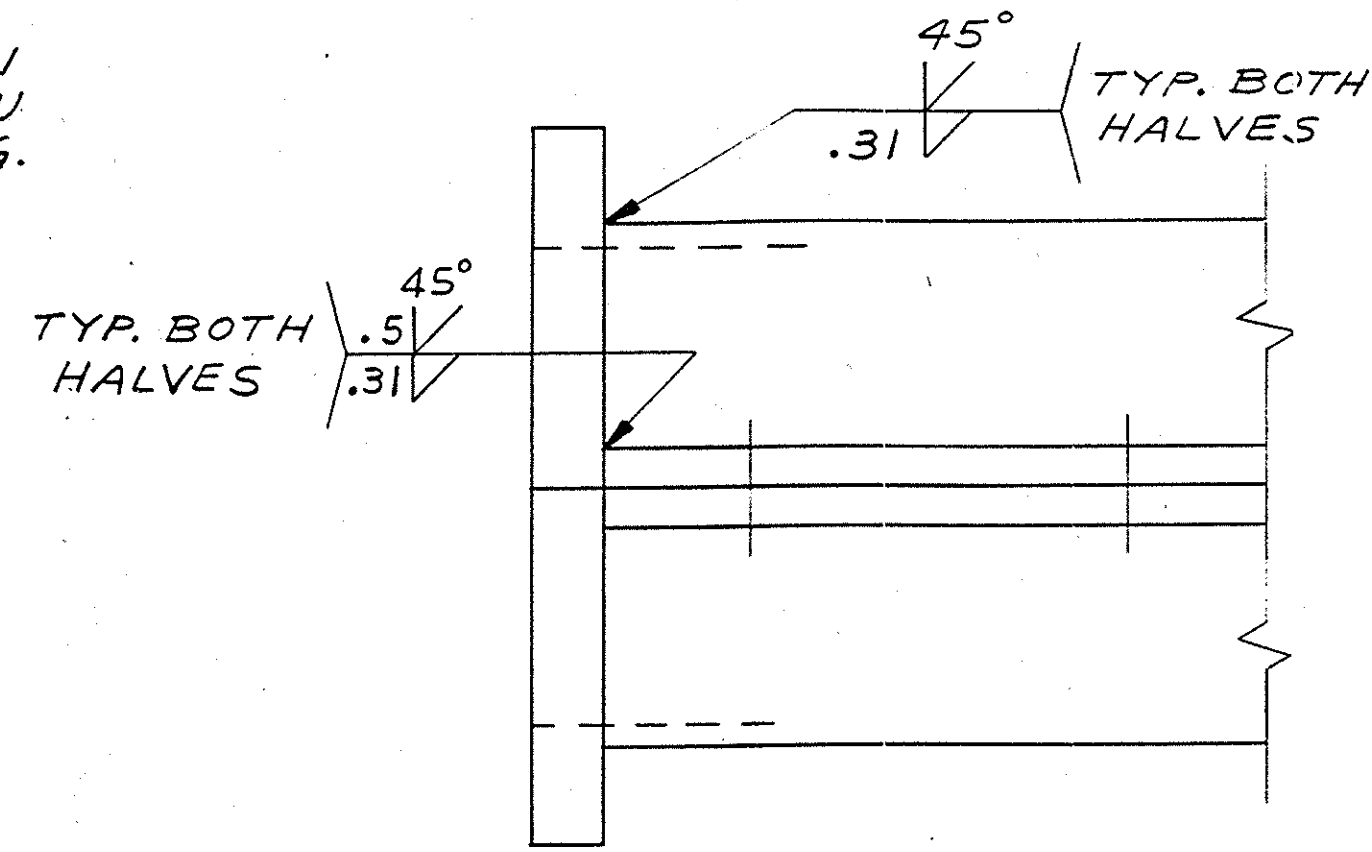
CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b> 4438 MI PLANT		NAME <b>COUPLING - INTMD</b>	
UNLESS OTHERWISE SPECIFIED: 1- PLACE DEC ± .06 2- PLACE DEC ± .03 3- PLACE DEC ± .010 ±		ANGULAR —	MACHINED SURFACE TEXTURE —
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		WT # 205.	
DR JT 7-23-84 CH JT 7-24-84 AP RKH 30 JUL 84	SIMILAR TO MK 403	THIRD ANGLE PROJECTION	
SCALE 1:2	SHEET —	PART NO. M.3 08-404-688-414	

AFTER TAPER PINS ARE IN PLACE, NO. 36 (.106) DR. THRU DOWEL & INSERT .094 x .75 LG. COTTER PIN. (4-DOWELS)

#8 x 2.5 LG. TAPER PIN



SECTION B-B (D-10)



TYP. BOTH HALVES

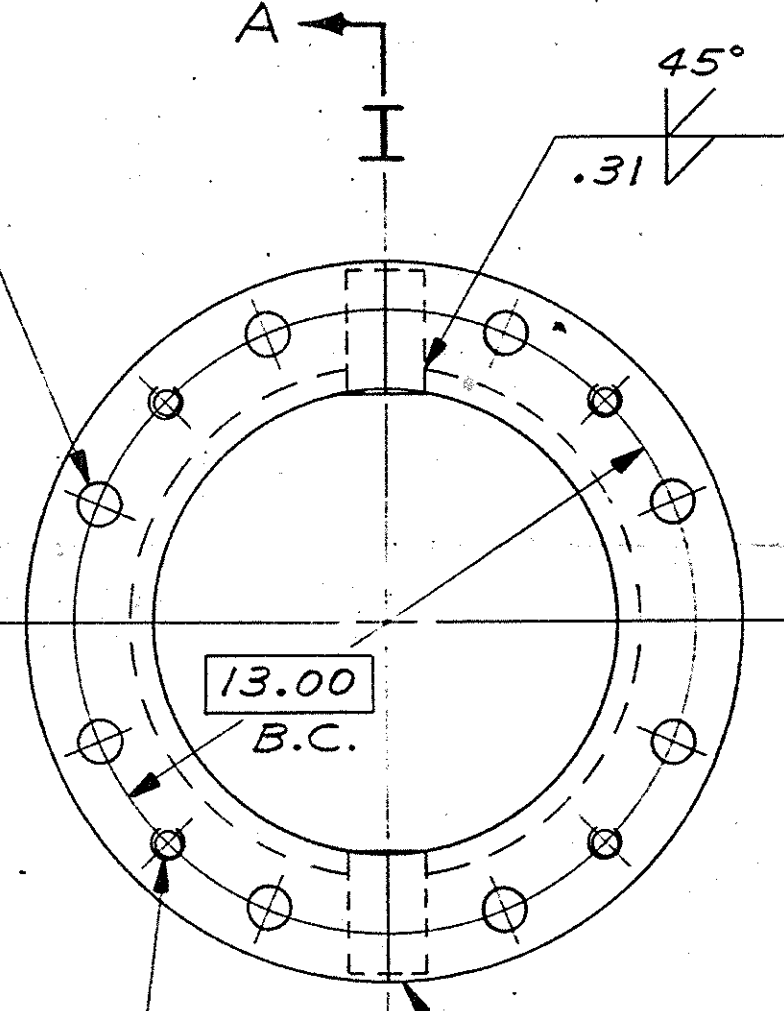
AFTER SHAFT TUBE HALVES HAVE BEEN FACED AND BOLTED TOGETHER, PAINT IN WHITE, ON EACH HALF, THE LAST FOUR DIGITS OF THE MFG. ORDER NO WITH 1.0 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG. ORDER NO.

NOTES:

- A. DIMENSION NOTES 1 THRU 9 ONLY PER DWG. 08-404-689-001.
- B. PRIME UNDER WELDING HAVING INSURED AND OUTSIDE. BEFORE MACHINING WITH COAT. FOR BRN. #200 PER DWG. 08-404-689-001.
- C. AFTER ASSEMBLY AND MACHINING, TOUCH UP ALL DAMAGED PREVIOUSLY COATED SURFACES & SURFACES INDICATED @ (H-3) & (C-3) PER TOUCH UP INSTRUCTIONS ON DWG. 08-610-001-475.
- D. APPLY A THIN COAT OF NEVER-SENE (PART NO. 30 333-351 007) TO THE FACES OF THE SPLIT JOINT FLANGES OF ONE HALF ONLY PRIOR TO BOLTING HALVES TOGETHER.
- E. APPLY TWO GENEROUS LONGITUDINAL BEADS OF LOCITE 4277 (PART NO. 00 333 192-007) 180° APART FROM EACH OTHER FOR LENGTH OF THREAD ENGAGEMENT OF SURVEY IN NUT.
- F. TIGHTEN SCREWS TO 74 FT. LBS. USING A TORQUE WRENCH. SEE NOTE E.

01	6-29-84 Kuba
(K-7)	NOTED-ADDED.
02	7-10-84 Kuba JT
(K-5)	NOTE-C REVISED; ADDED TOUCH UP AT (H-3).
03	7-18-84 Kuba JT

.875 DR. THRU 1.62 DIA. SPOT FACE FAR SIDE TO CLEAN UP ONLY. 8-HOLES EQL. SPACED STRADDLE CENTERLINES.  $\phi .06$  DIA. (M) 4.975 CHORD REF.



(D-8) A

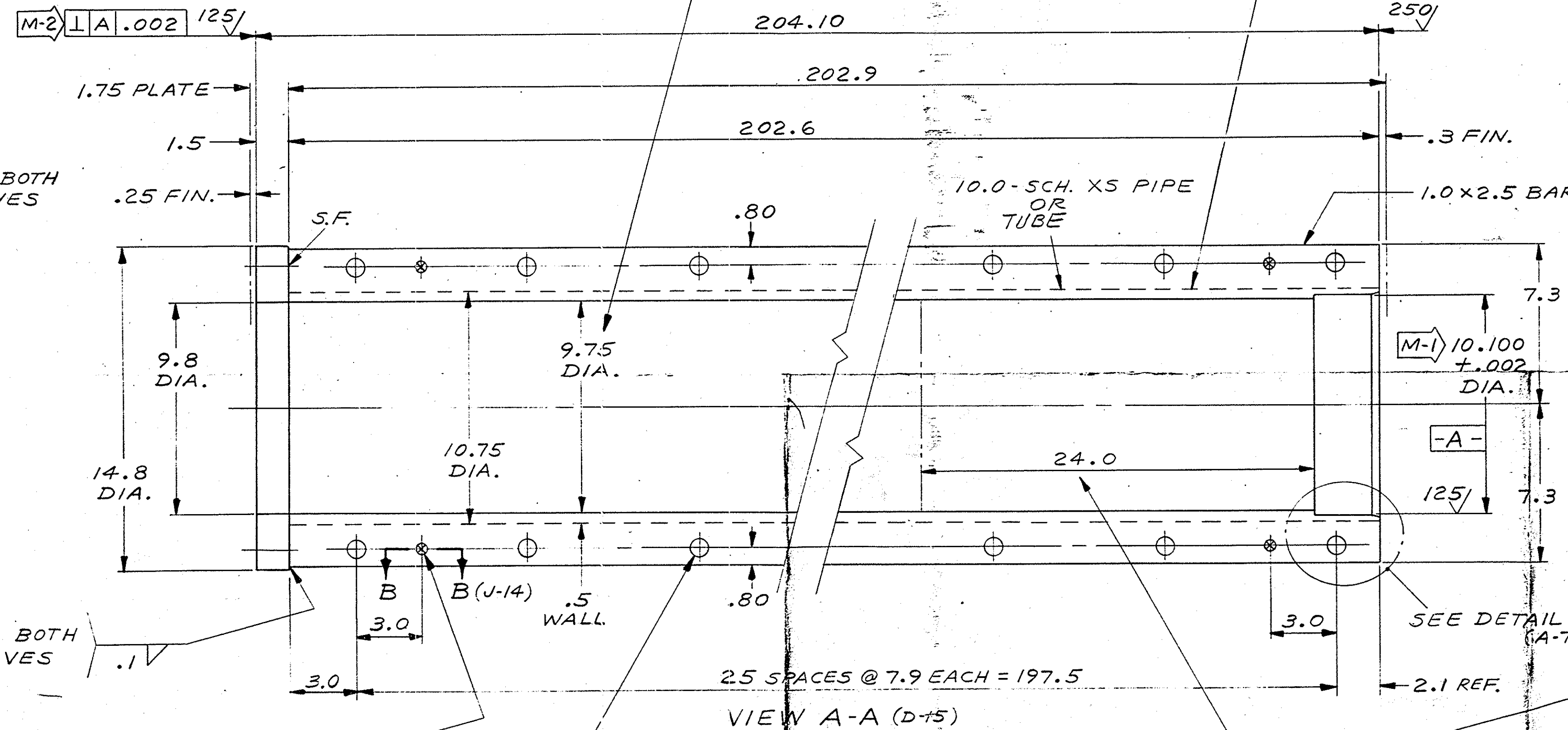
.656 DR. THRU .750-10 UNC-2B TAP THRU 4-HOLES EQL. SPACED STRADDLE CENTERLINES. (FOR HANDLING)

AFTER COATING SHAFT TUBE, PAINT WHITE NUMERAL II ON O.D. OF FLANGE ADJACENT TO SPLIT AS SHOWN AND NUMERAL I 180° OPPOSITE.

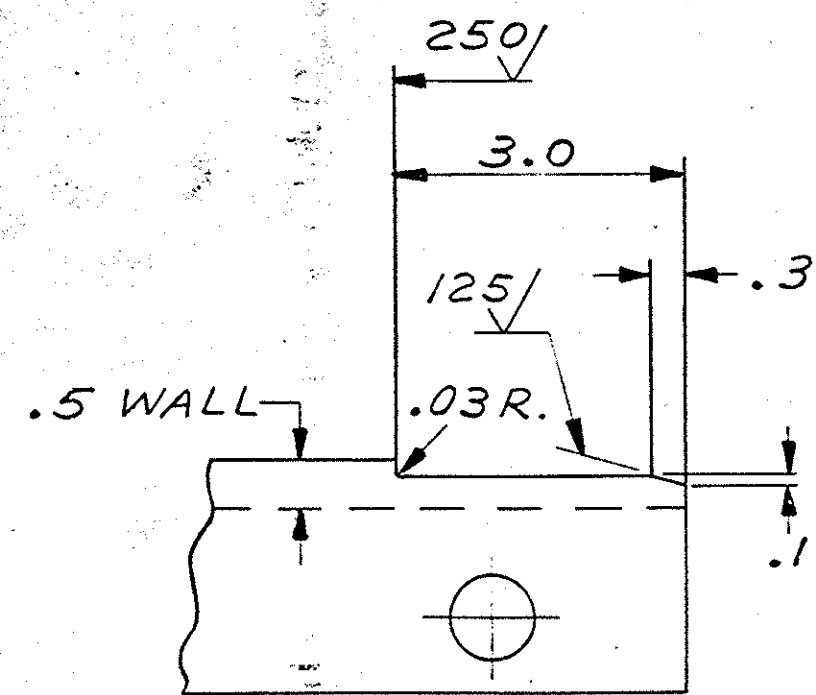
.406 DR. & TAPER REAM THRU BOTH HALVES FOR #8 x 2.5 LG. TAPER PIN. 4-HOLES TOTAL, TWO OPPOSITE. SEE SECTION B-B (J-14)

.875 DR. THRU BOTH HALVES. 1.62 DIA. SPOT FACE FAR SIDE EACH FLANGE TO CLEAN UP ONLY. 52-HOLES TOTAL, 26 IN OPPOSITE FLANGE.

CENTER SHAFT TUBE AROUND THIS DIAMETER BEFORE STARTING MACHINING.

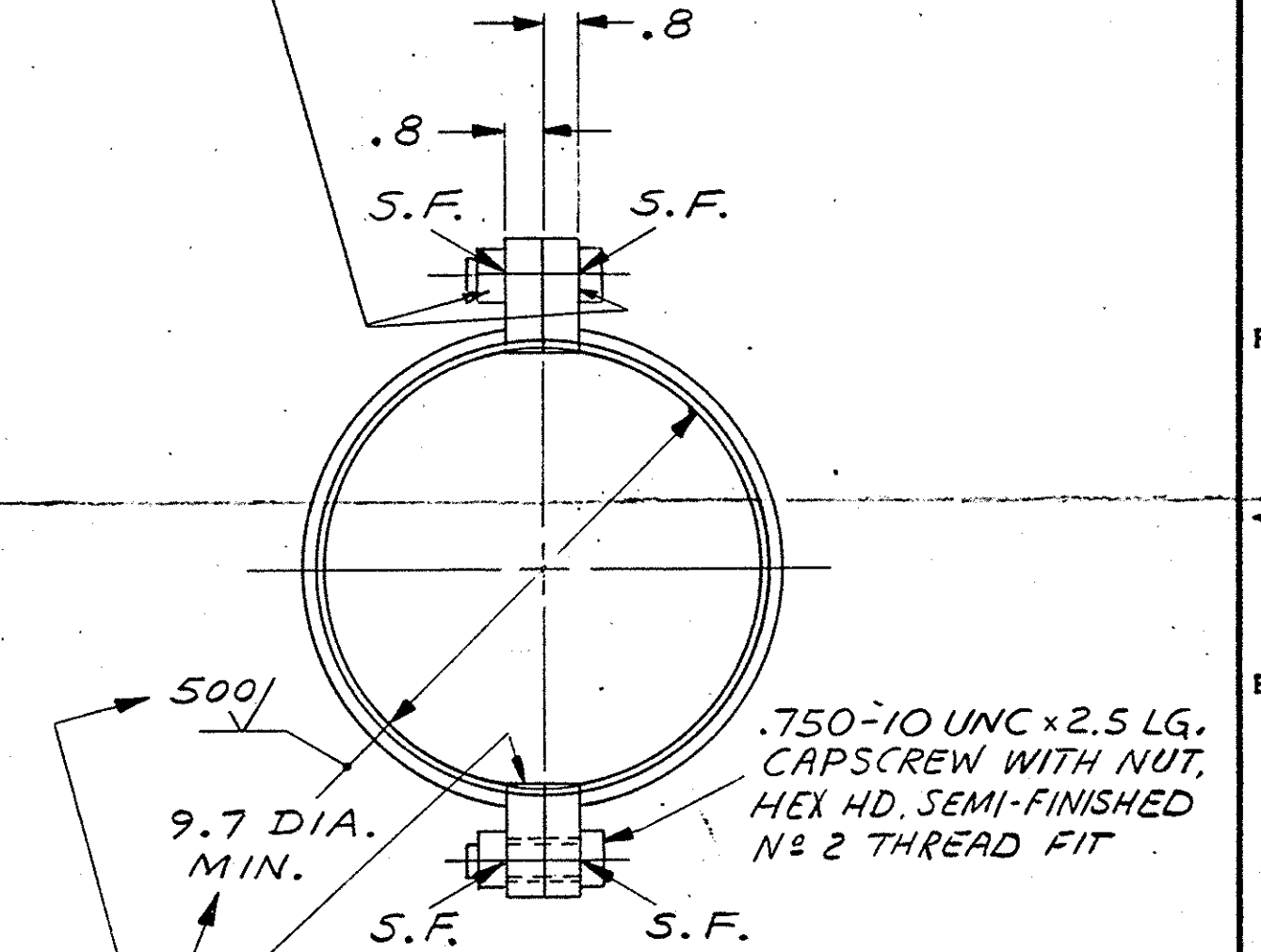


VIEW A-A (D-15)



DETAIL C (D-4)

PAINT: AFTER ASSEMBLY, COAT CAPSCREWS, NUTS AND EXPOSED SPOTFACE AREAS PER NOTE-C



MACHINE FLANGES BACK TO THIS DIMENSION ONLY IF THIS DIA. IS LESS THAN 9.7. NO STOCK ALLOWED. UNFINISHED AREAS PERMITTED. AFTER MACHINING, PAINT MACHINED SURFACES PER NOTE-C. CONTRACT 5107

5 & 6 DWG NO. 11577-W-10 SHEET 3 OF 13

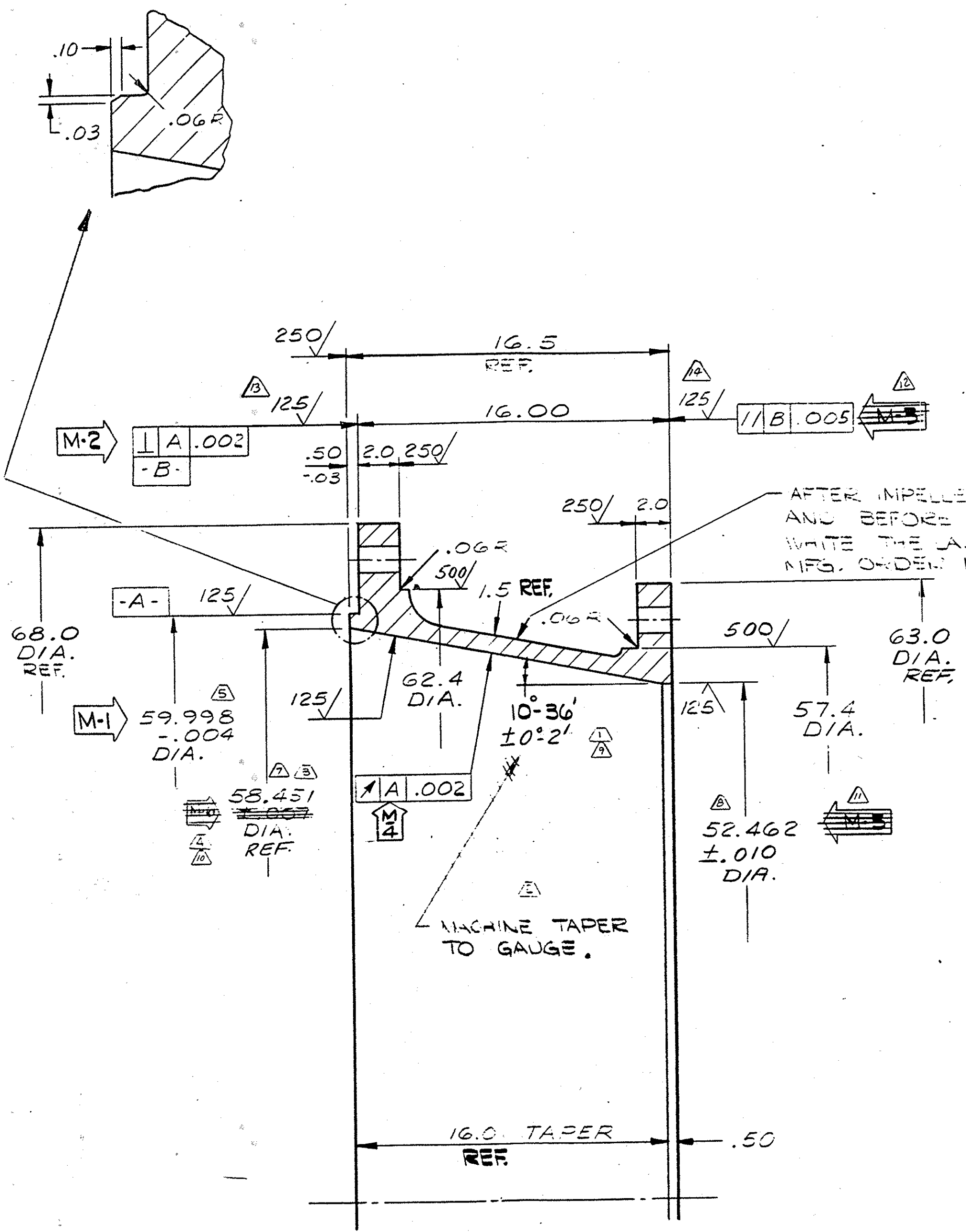
**MATERIALS**  
 PLATE OR BAR :- ASTM A36 (UNS-K02600)  
 CERTIFIED COPIES OF CHEMICAL ANALYSIS  
 PIPE 10.0-5CH XS :- ASTM A120 } OR EQUAL  
 TUBE : AISI M1026 HOT ROLLED  
 CAPSCREW & NUT :- AISI 316 SST  
 DOWEL & PIN :- AISI 302/304 SST

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME SHAFT TUBE 102 x 84 WCAX PUMP	
UNLESS OTHERWISE SPECIFIED:			
1- PLACE DEC ±.06	ANGULAR	✓	SEE MATERIALS @ (C-2)
2- PLACE DEC ±.03	—	—	
3- PLACE DEC ±.010 ±	—	—	WT R 1500. = 1350.
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		MACHINED SURFACE TEXTURE	
KERN 6-22-84	SIMILAR TO 08-205-169-006	THIRD ANGLE PROJECTION	
CH JT 6-29-84	SCALE 1:4	SHEET	PART NO. M-3 08-404-689-001
AP 1 29 July 84	ISSUE 03		

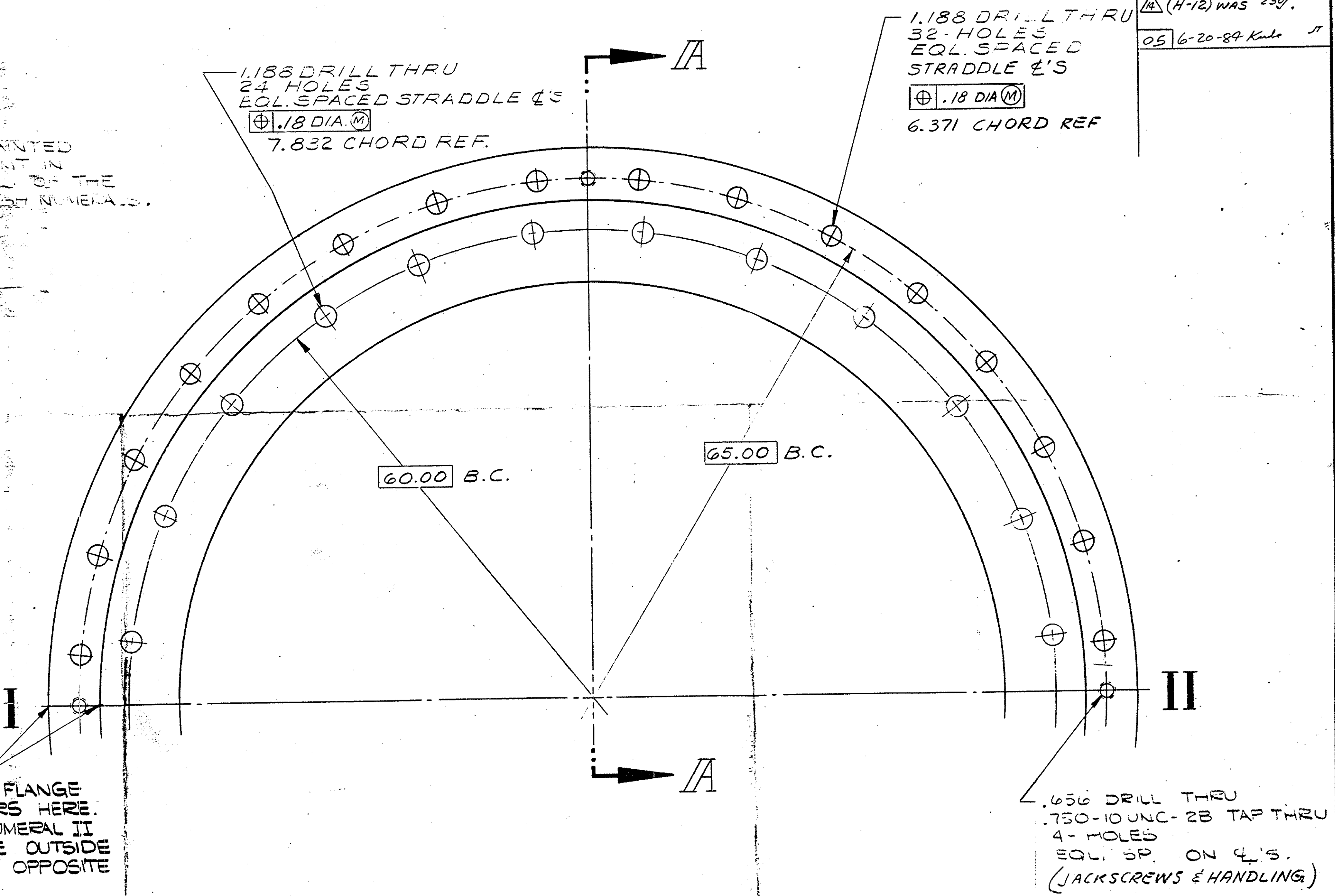
08-404-689-001

NOTE:  
 1. THIS CONE IS TO BE USED AS A GAUGE FOR MACHINING TAPES OF IMPELLER.  
 2. SEE IMPELLER CONE PIX 08-115-603-401.  
 3. MANUFACTURER'S QUALITY CONTROL DEPARTMENT IS TO INSPECT AND RECORD ALL MAJOR CHARACTERISTICS (M), ON FORM № QHP-7773. COMPLETED FORM TO BE SENT TO ALLIS-CHALMERS CUSTOM PUMP PURCHASING DEPT.

01	11-22-82 Kulk
02	1-4-83 Kulk
03	1-7-83 Kulk
04	6-1-84 Kulk
05	6-20-84 Kulk



SECTION A-A



PAINT WHITE NUMERAL I ON FLANGE OUTSIDE DIAMETERS HERE. PAINT WHITE NUMERAL II ON SAME FLANGE OUTSIDE DIAMETERS 180° OPPOSITE

ENGRS REP: CONTRACT 5107  
 MACHINE SURFACE FINISH, TOLERANCES AND GEOMETRIC FORM CONTROL PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS. SHEET 4 OF 13

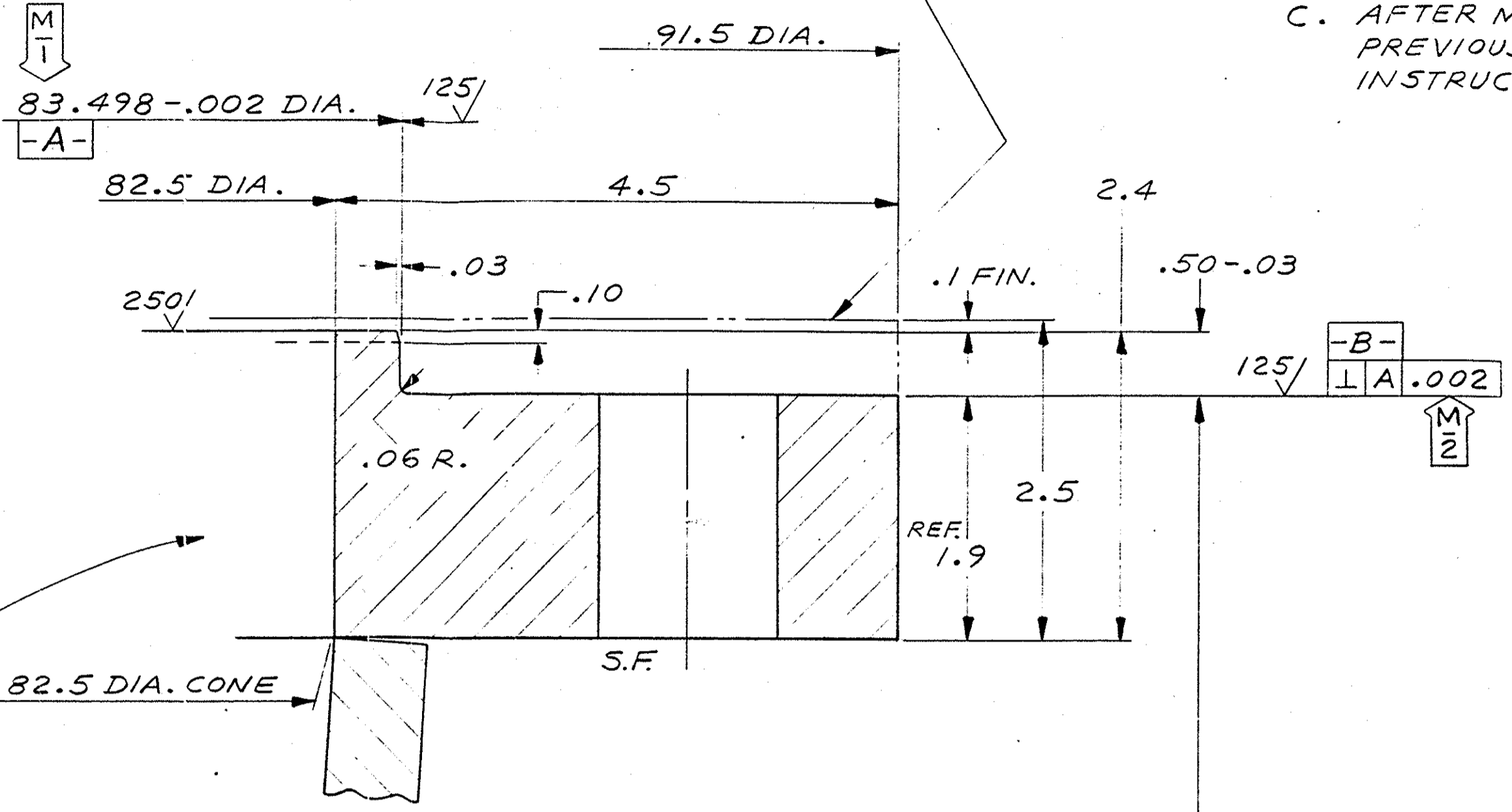
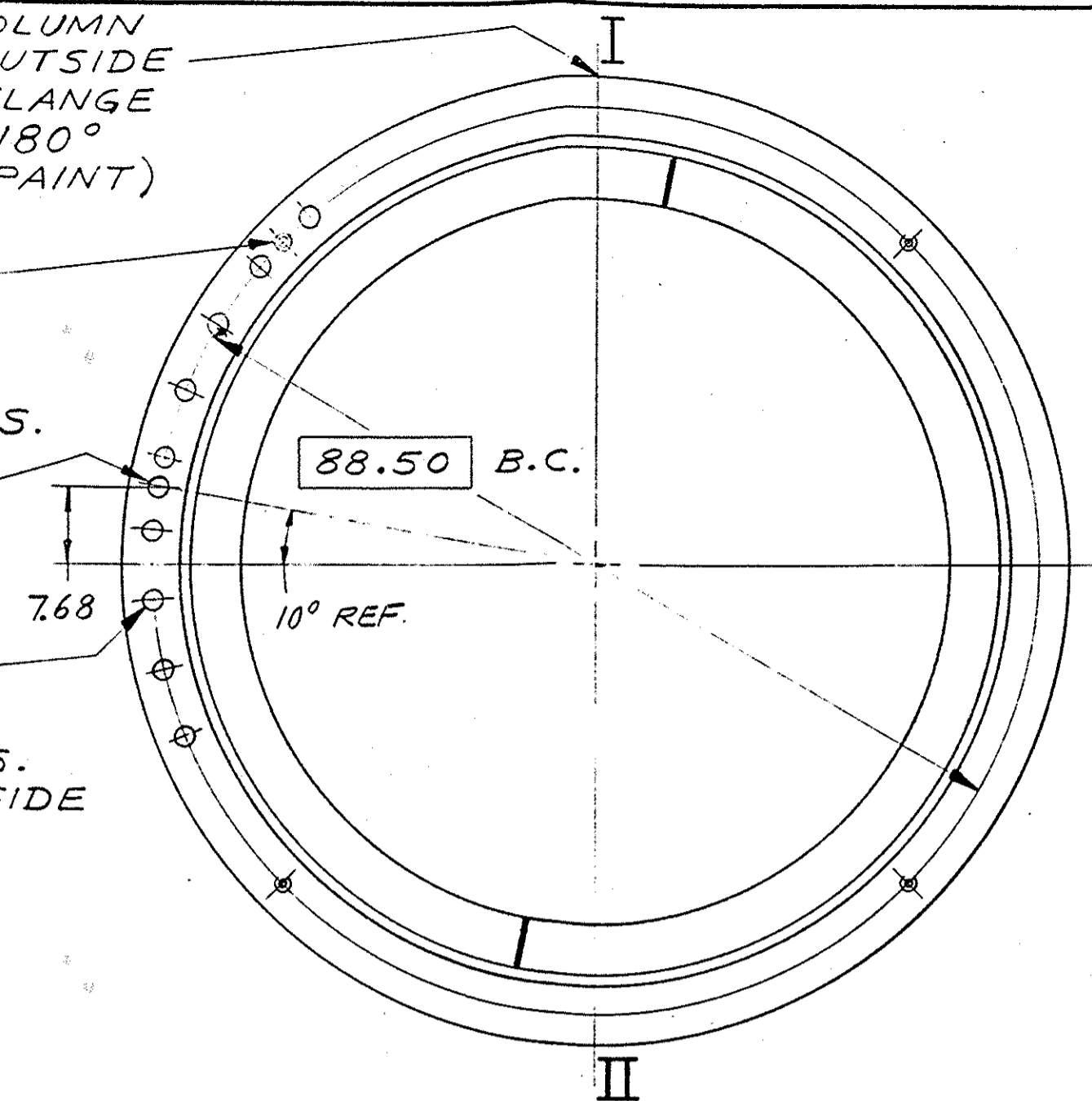
ALL	MATL	NT #	REMARKS	CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 MI PLANT		NAME IMPELLER CONE 102x84 WCAX PUMP	
03-115-661-501	2550	2100	COAL-TARE C-200 PAINT	UNLESS OTHERWISE SPECIFIED:		MACHINED SURFACE TEXTURE	
03-115-661-507	2550	2100	COAL-TARE C-200 PAINT	1- PLACE DEC 2.00	ANGULAR	✓	MACHINED SURFACE TEXTURE
				2- PLACE DEC 2.05			
				3- PLACE DEC 2.010 ±			
DR MDE 8-5-81	SCALE MK-006	SHEET	ISSUE 05	SIMILAR TO		THIRD ANGLE PROJECTION	
CH 08-115-661-501	SCALE N.T.S.	SHEET	ISSUE 05	PART NO.		08-404-972-401	
AP 08-115-661-501				PART NO.		08-404-972-401	

AFTER COATING PIPE COLUMN  
PAINT NUMERAL I ON OUTSIDE  
DIA. OF TOP & BOTTOM FLANGE  
ON E AND NUMERAL II 180°  
OPPOSITE. (USE WHITE PAINT)

.656 DR. THRU  
.750-10 UNC-2B TAP THRU  
4-HOLES EQL. SPACED  
STRADDLE CENTERLINES.  
(FOR JACK SCREWS)

1.438 DR. THRU  
1-HOLE LOCATE AS SHOWN  
(DRAIN PIPE)

1.438 DR. THRU  
40-HOLES EQL. SPACED  
STRADDLE CENTERLINES.  
2.62 DIA. SPOT FACE FAR SIDE  
Φ.09 DIA. (M)  
6.944 CHORD REF.



NOTES:- A. WELDMENT NOTES 08-610-317-404 &  
08-610-321-404.  
B. PAINT ENTIRE WELDMENT, INSIDE & OUTSIDE,  
BEFORE MACHINING WITH COAL TAR EPOXY  
C-200 PER DWG. 08-610-001-475 (BLACK).  
C. AFTER MACHINING, TOUCH UP ALL DAMAGED  
PREVIOUSLY COATED SURFACES PER  
INSTRUCTIONS ON DWG. 08-610-001-475.

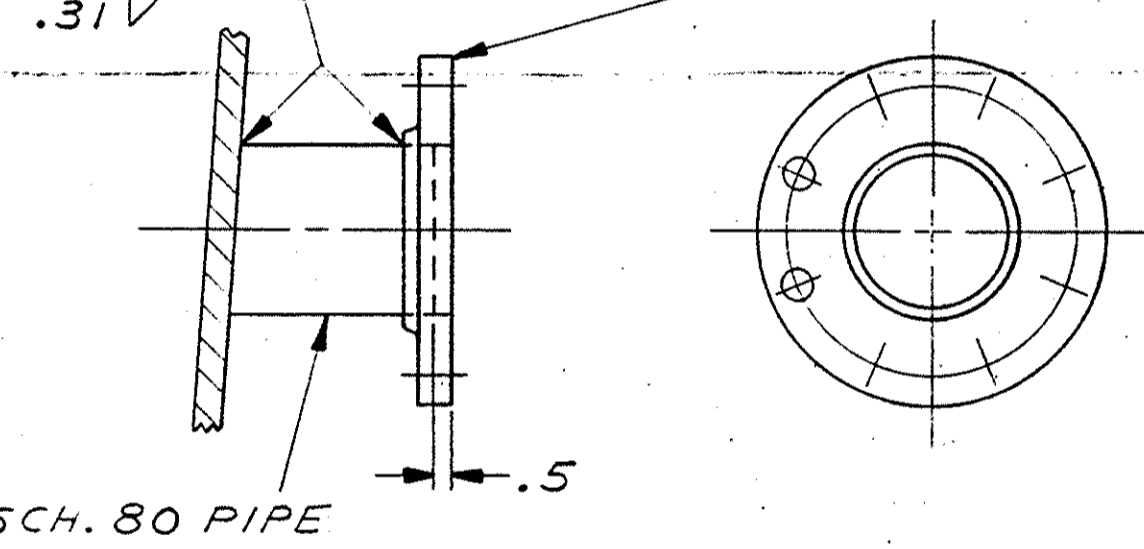
01 6-22-84 KAL  
Δ(F-10) NOTED ADDED.  
02 7-10-84 KAL JT.

160.9  
OVERALL  
WELDMENT

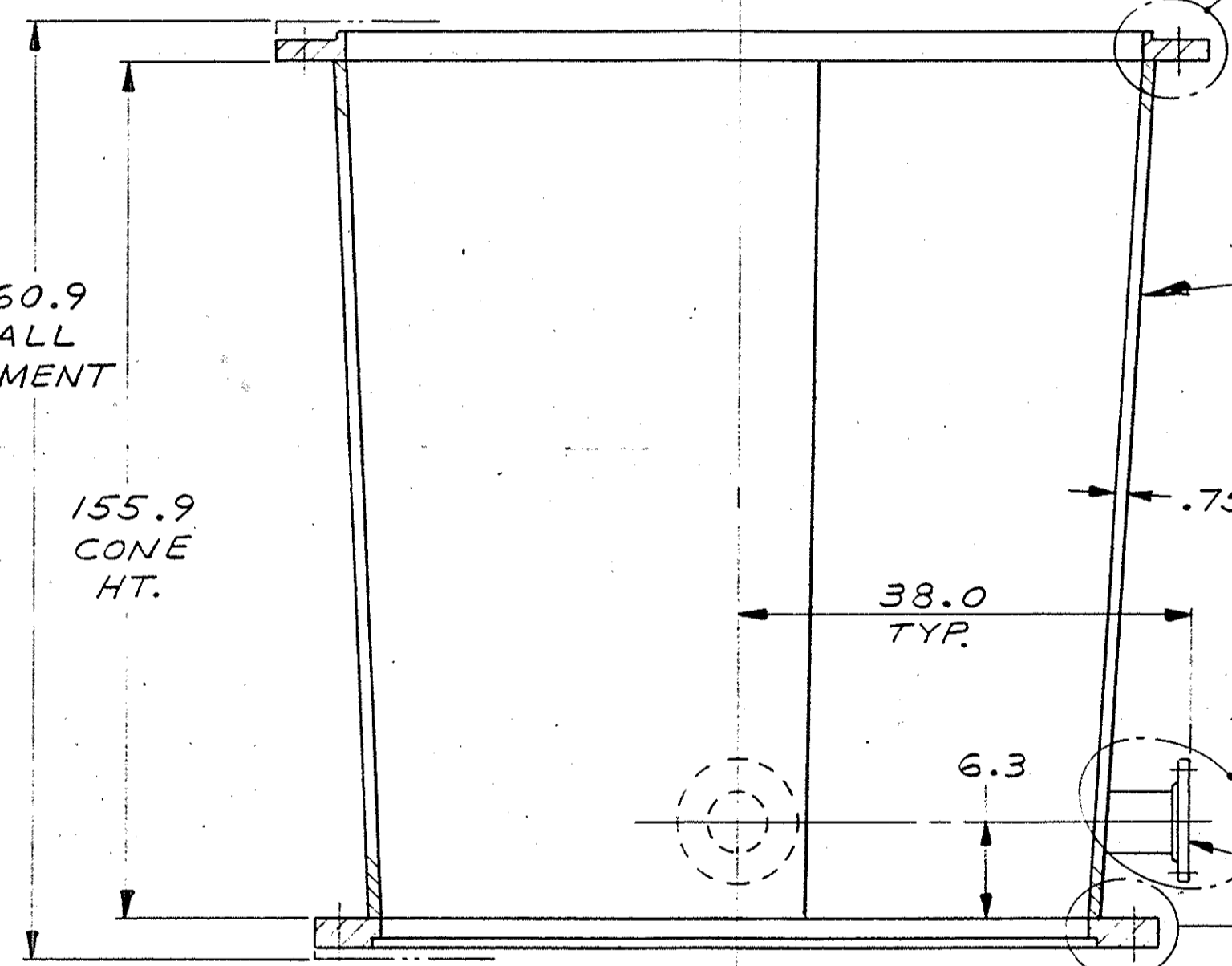
155.9  
CONE  
HT.

△ AFTER PIPE COLUMN IS PAINTED AND  
BEFORE MACHINING, PAINT IN WHITE THE  
LAST FOUR DIGITS OF THE MFG. ORDER NO.  
WITH 1.0 HIGH NUMERALS. SEE PURCHASE  
ORDER FOR MFG. ORDER NO.

4.0-150# FLAT FACE  
SLIP-ON FLANGE.  
BOLT HOLES TO  
STRADDLE CENTERLINES.  
FLANGE FACE PARALLEL  
TO CENTERLINE.



DETAIL A (E-11)



62.6 DIA. CONE

SEE  
DETAIL A  
(D-3)

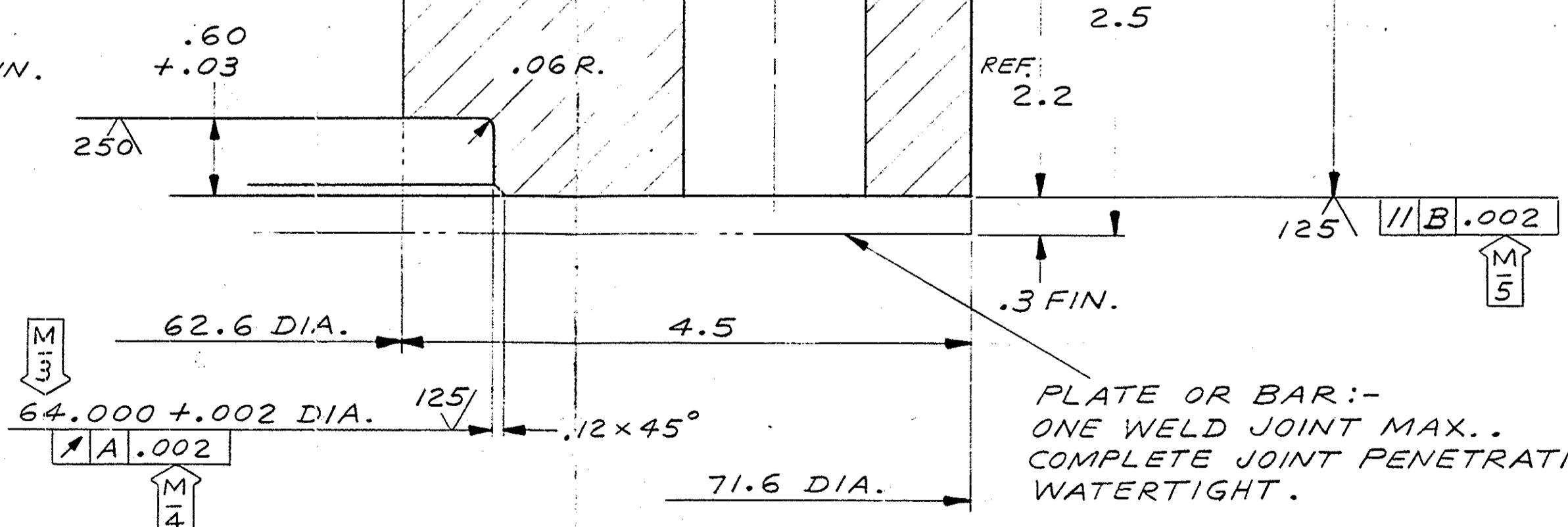
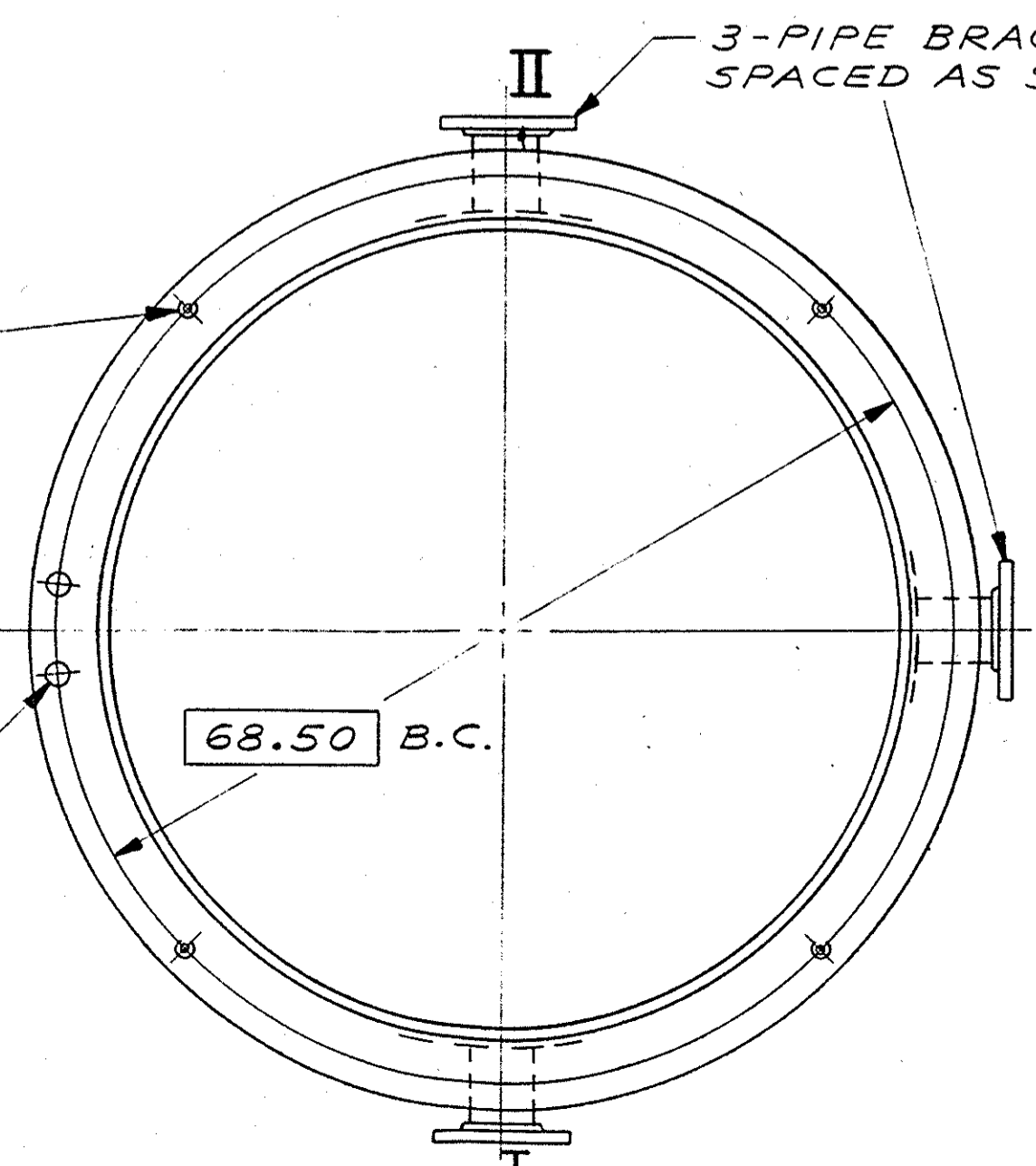


PLATE OR BAR:-  
ONE WELD JOINT MAX..  
COMPLETE JOINT PENETRATION-  
WATERTIGHT.

.656 DR. THRU  
.750-10 UNC-2B TAP THRU  
4-HOLES EQL. SPACED  
STRADDLE CENTERLINES.  
(FOR JACK SCREWS)

1.438 DR. THRU  
32-HOLES EQL. SPACED  
STRADDLE CENTERLINES  
2.62 DIA. SPOT FACE FAR SIDE  
Φ.18 DIA. (M)  
6.714 CHORD REF.



MATERIALS  
PLATE OR BAR:- ASTM-A36 (UNS-K02600)  
CERTIFIED COPIES OF CHEMICAL ANALYSIS  
PIPE 4.0-SCH 80:- ASTM-A120  
OR EQUAL  
FLANGE 4.0-150# FF:- ASTM-A105  
OR EQUAL

S & W'S DWG. NO. 11577-W-16 SHEET 5 OF 13  
CONTRACT 5107 PURCHASE FINISHED

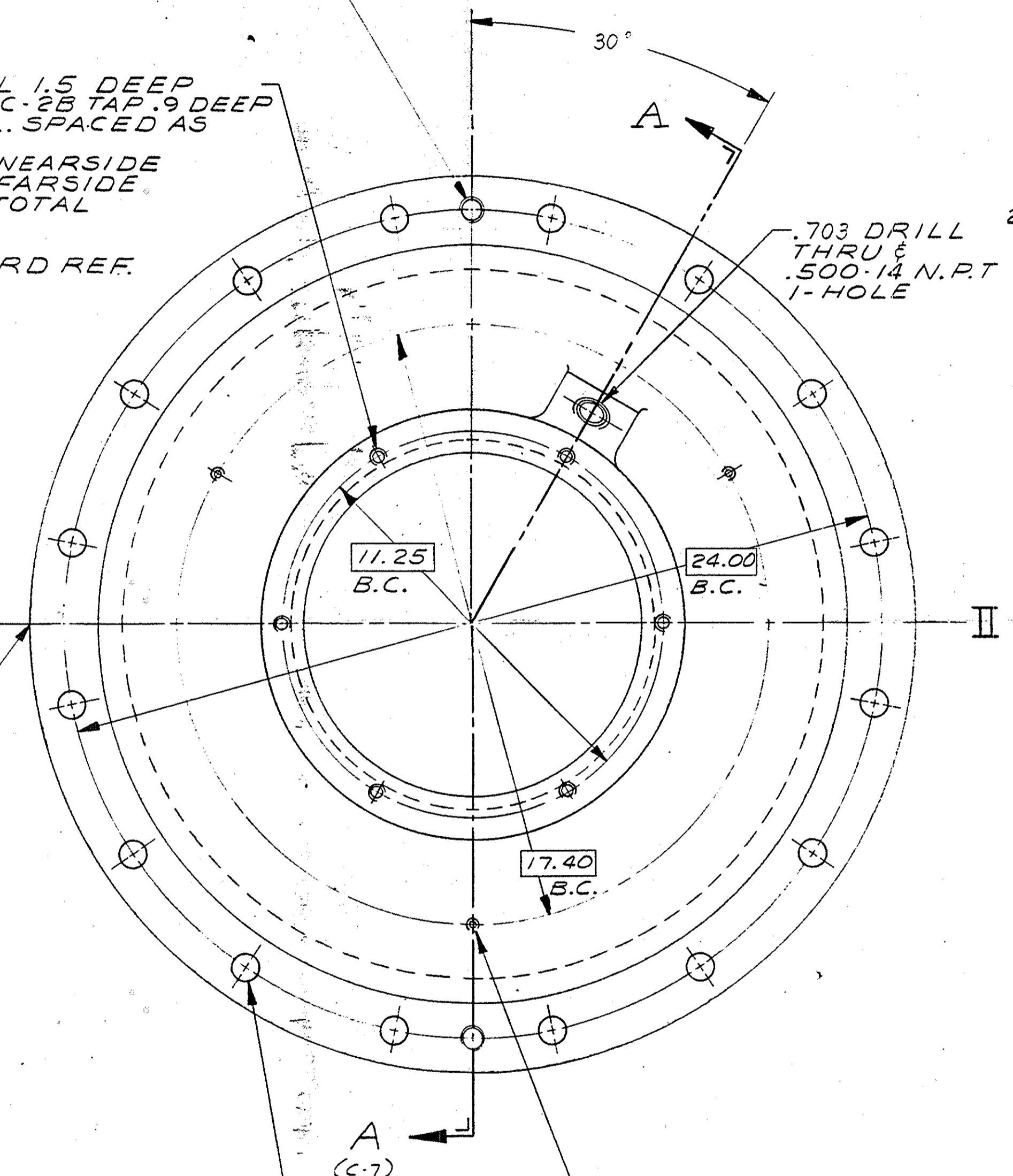
CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b> 4438 M1		NAME <b>PIPE COLUMN (TAPERED)</b> 102 x 84 WCAX PUMP	
UNLESS OTHERWISE SPECIFIED:		MACHINED SURFACE TEXTURE	
1- PLACE DEC ±.06	ANGULAR	SEE MATERIALS @ (C-2)	
2- PLACE DEC ±.03	—	WT R 9300	
3- PLACE DEC ±.010 ±	—	F 8935	
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		THIRD ANGLE PROJECTION	
KERN 6-14-84 DR. KERN 6-21-84 CH. AP. EXH 26 JUN 84		SIMILAR TO MK. 002	
SCALE NTS		PART NO. M-6 08-405-162-003	
71 08-405-162-003 02		ISSUE	

ENGRS. REF.  
MACHINED SURFACE FINISH:  
PER SUSCEPTIBLE  
CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

.656 DRILL THRU  
.750-10 UNC-2B TAP THRU  
2 HOLES-ONE DIRECTLY  
OPPOSITE AS SHOWN.  
(FOR HANDLING).

.422 DRILL 1.5 DEEP  
.500-13 UNC-2B TAP .9 DEEP  
HOLES EQL. SPACED AS  
SHOWN  
6- HOLES NEARSIDE  
6- HOLES FAR SIDE  
12- HOLES TOTAL  
⊕ .06 DIA. (M)  
5.625 CHORD REF.

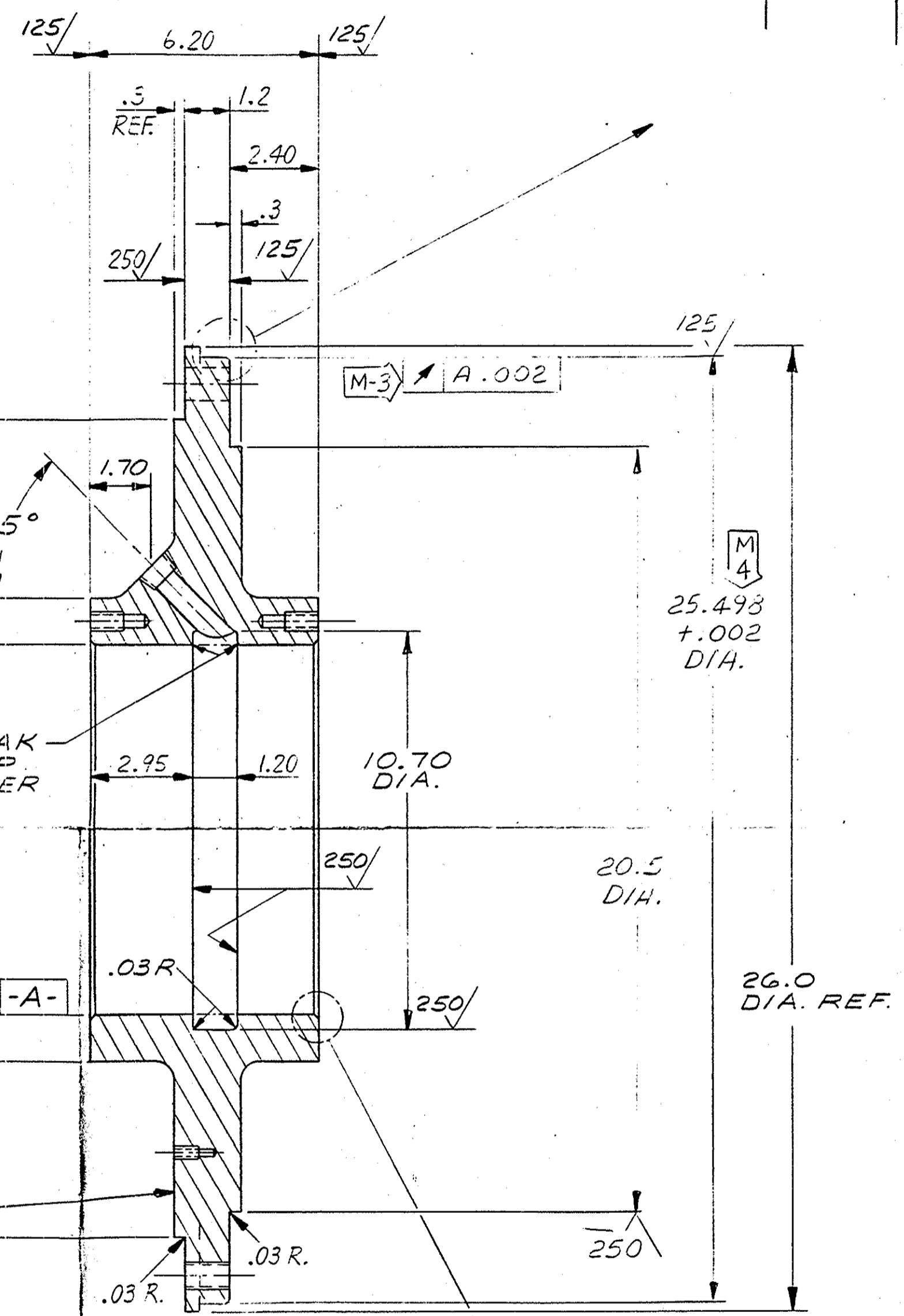
PAINT WHITE NUMERAL I  
ON O.D. OF FLANGE HERE  
AND NUMERAL II 180°  
OPPOSITE.



.375 DRILL THRU  
16-HOLES EQL. SPACED  
STRADDLE CENTERLINES  
⊕ .06 DIA. (M)  
4.682 CHORD REF.

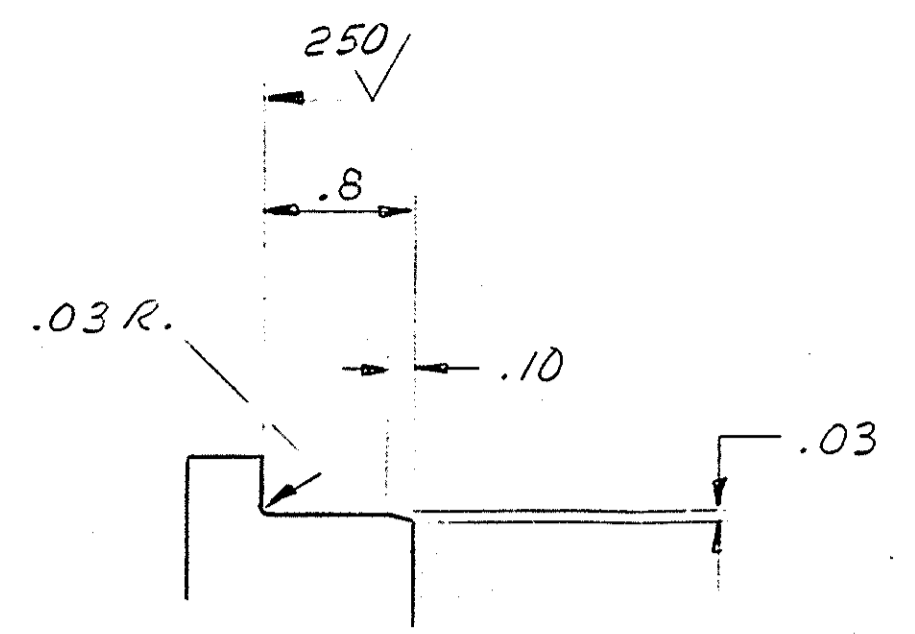
.312 DRILL 1.1 DEEP &  
.375-16 UNC-2B TAP .7 DEEP  
3- HOLES  
EQL. SPACED AS SHOWN  
⊕ .03 DIA. (M)  
15.069 CHORD REF.

.703 DRILL  
THRU &  
.500-14 N.P.T  
1- HOLE



SECTION A-A  
(C-13)

AFTER BEARING HOUSING IS PAINTED &  
BEFORE MACHINING, PAINT IN WHITE THE  
LAST FOUR DIGITS OF THE MFG. ORDER NO.  
WITH 1.0 HIGH NUMERALS  
SEE PURCHASE ORDER FOR MFG. ORDER NO.



.04 x 45°  
BOTH ENDS

ENGRG REF:  
MACHINE SURFACE TEXTURE, COORDINATE AND  
CONTROLS BY CUSTOMER'S  
CONTRACT'S NOT TO CUSTOM PUMP STANDARDS.

CONTRACT 5107  
S & WS DWG. NO. 11577-W-10 SHEET 6 OF 13

ENGRG REF.				CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP.			NAME BEARING HOUSING - UPPER MACHINING		
A/R	MAT'L	WT R. F.	REMARKS	4438 M1 PLANT			MAT'L		
08-115-675-502	ASTM A48 CL 35	280. 217	PAINT - RUST-OLEUM N° 1069 & 706	UNLESS OTHERWISE SPECIFIED:			MAT'L SPEC. REF SEE TABLE		
				1. PLACE DEC ± .06	ANGULAR	✓	R SEE F TABLE		
				2. PLACE DEC ± .03					
				3. PLACE DEC ± .03					
				FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS				MACHINED SURFACE TEXTURE	
				SIMILAR TO MK 401		GPH NO.			
DR	APR 19 1934		SCALE	SHEET		PART NO. M-4 08-405-168-402			
CH	1:3		ISSUE	01					





NOTES CONT.

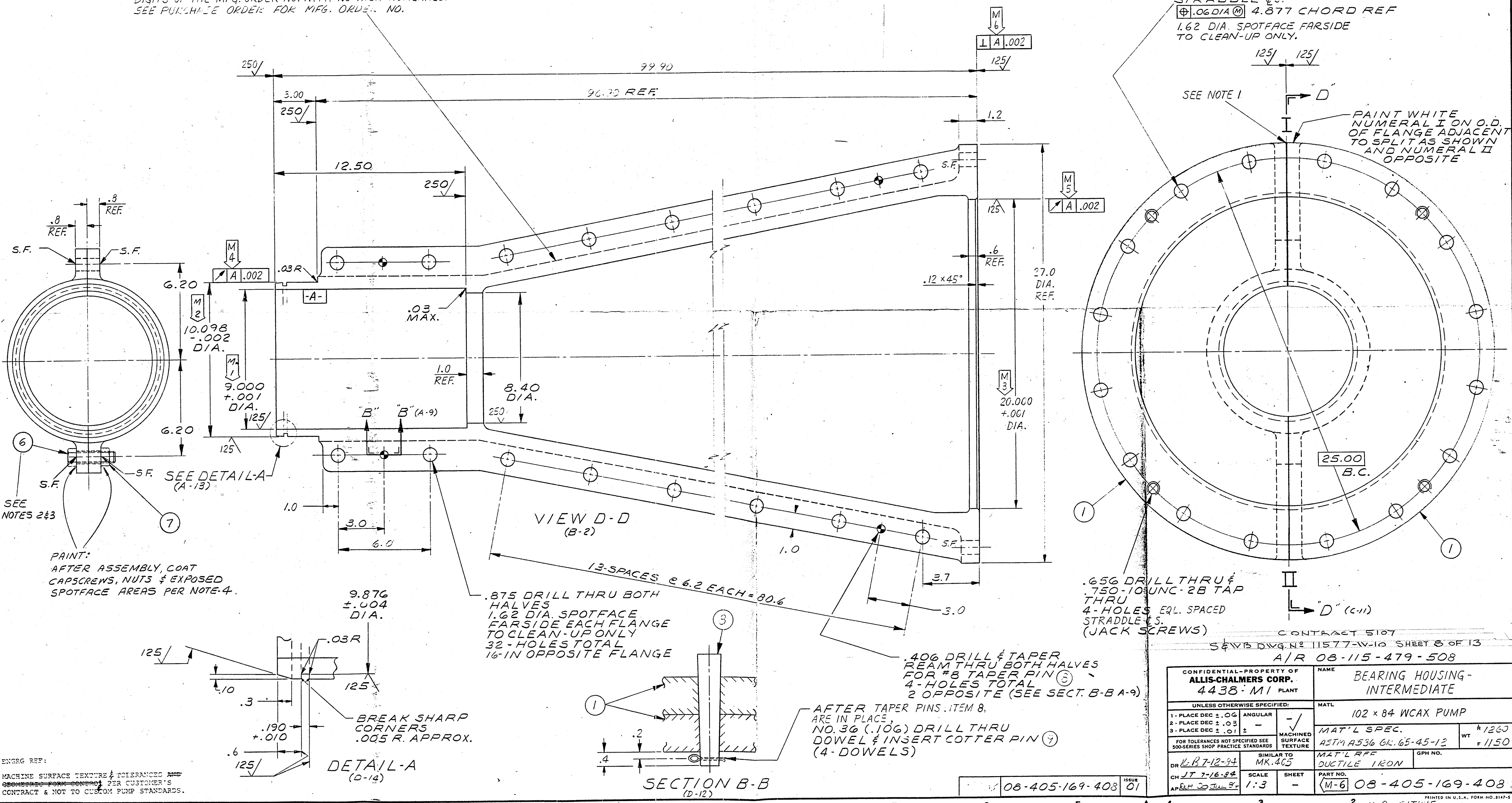
4. AFTER ASSEMBLY AND MACHINING, TOUCH UP ALL DAMAGED PREVIOUSLY COATED SURFACES & SURFACES INDICATED @ (C-15) PER TOUCH-UP INSTRUCTIONS ON DWG 08-610-001-475.

NOTES:

1. APPLY A THIN COAT OF NEVER-SEEZ (PART NO. 00-333-851-007) TO THE FACES OF THE SPLIT JOINT FLANGES OF ONE CASTING ONLY PRIOR TO BOLTING HALVES TOGETHER.
2. APPLY TWO REVERSE LONGITUDINAL BEADS OF LOCTITE #877 (PART NO. 00-333-202-007) 180° FROM EACH OTHER FOR LENGTH OF THREAD ENGAGEMENT OF SCREW IN HOLE.
3. TIGHTEN SCREWS IT. 6 TO 74 FT. LBS. USING A TORQUE WRENCH. SEE NOTE 2.

01 7-20-84 Kkk

AFTER HOUSING HALVES HAVE BEEN FACED AND BOLTED TOGETHER, PAINT IN WHITE, ON EACH HALF, THE LAST FOUR DIGITS OF THE MFG. ORDER NO. WITH 1.0 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG. ORDER NO.



.875 DRILL THRU 16 HOLES EQL. SPACED STRADDLE C.S.  
 .06 DIA @ 4.877 CHORD REF  
 1.62 DIA. SPOTFACE FAR SIDE TO CLEAN-UP ONLY.

PAINT WHITE NUMERAL I ON O.D. OF FLANGE ADJACENT TO SPLIT AS SHOWN AND NUMERAL II OPPOSITE

.656 DRILL THRU & .750-10 UNC-2B TAP THRU 4 HOLES EQL. SPACED STRADDLE C.S. (JACK SCREWS)

.406 DRILL & TAPER REAM THRU BOTH HALVES FOR #8 TAPER PIN (5) 4 HOLES TOTAL 2 OPPOSITE (SEE SECT. B-B A-9)

AFTER TAPER PINS ITEM 8, ARE IN PLACE, NO. 36 (.106) DRILL THRU DOWEL & INSERT COTTER PIN (4-DOWELS)

.875 DRILL THRU BOTH HALVES 1.62 DIA. SPOTFACE FAR SIDE EACH FLANGE TO CLEAN-UP ONLY 32 HOLES TOTAL 16 IN OPPOSITE FLANGE

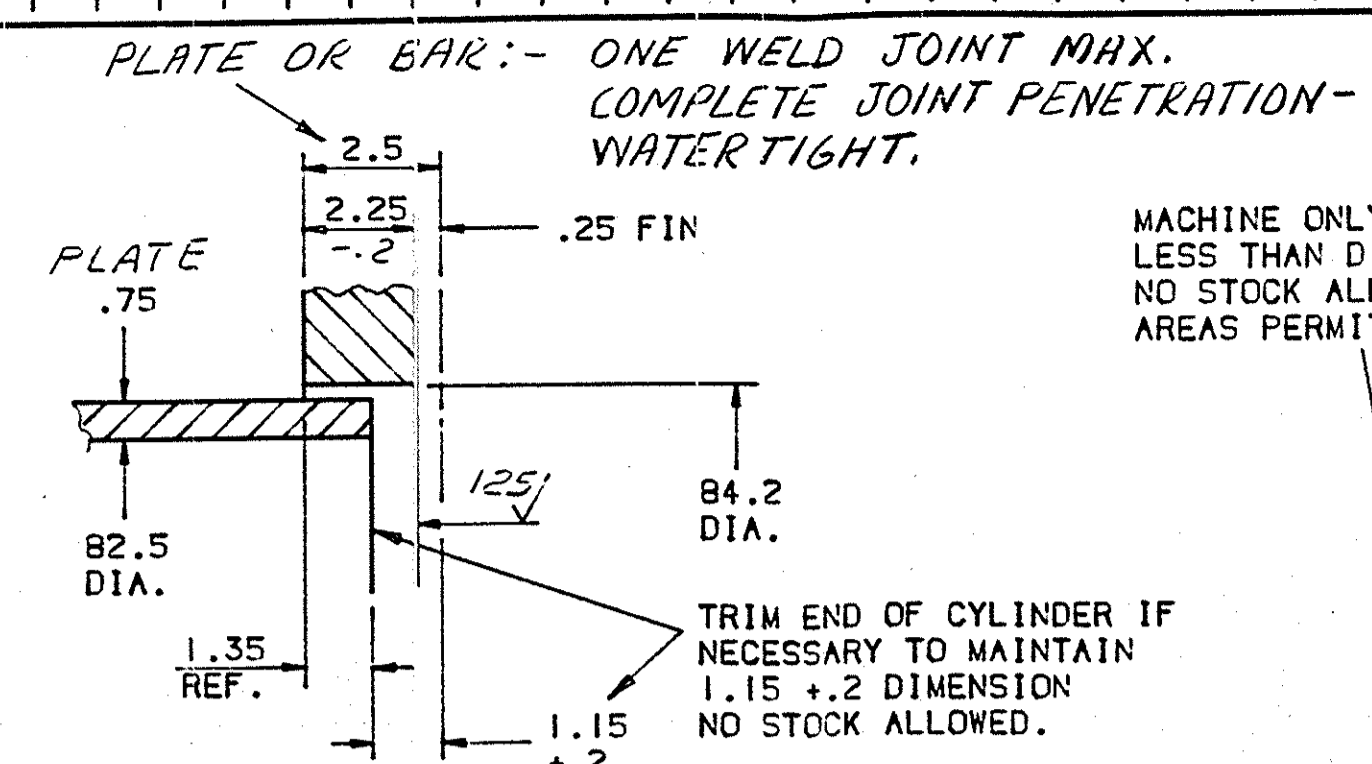
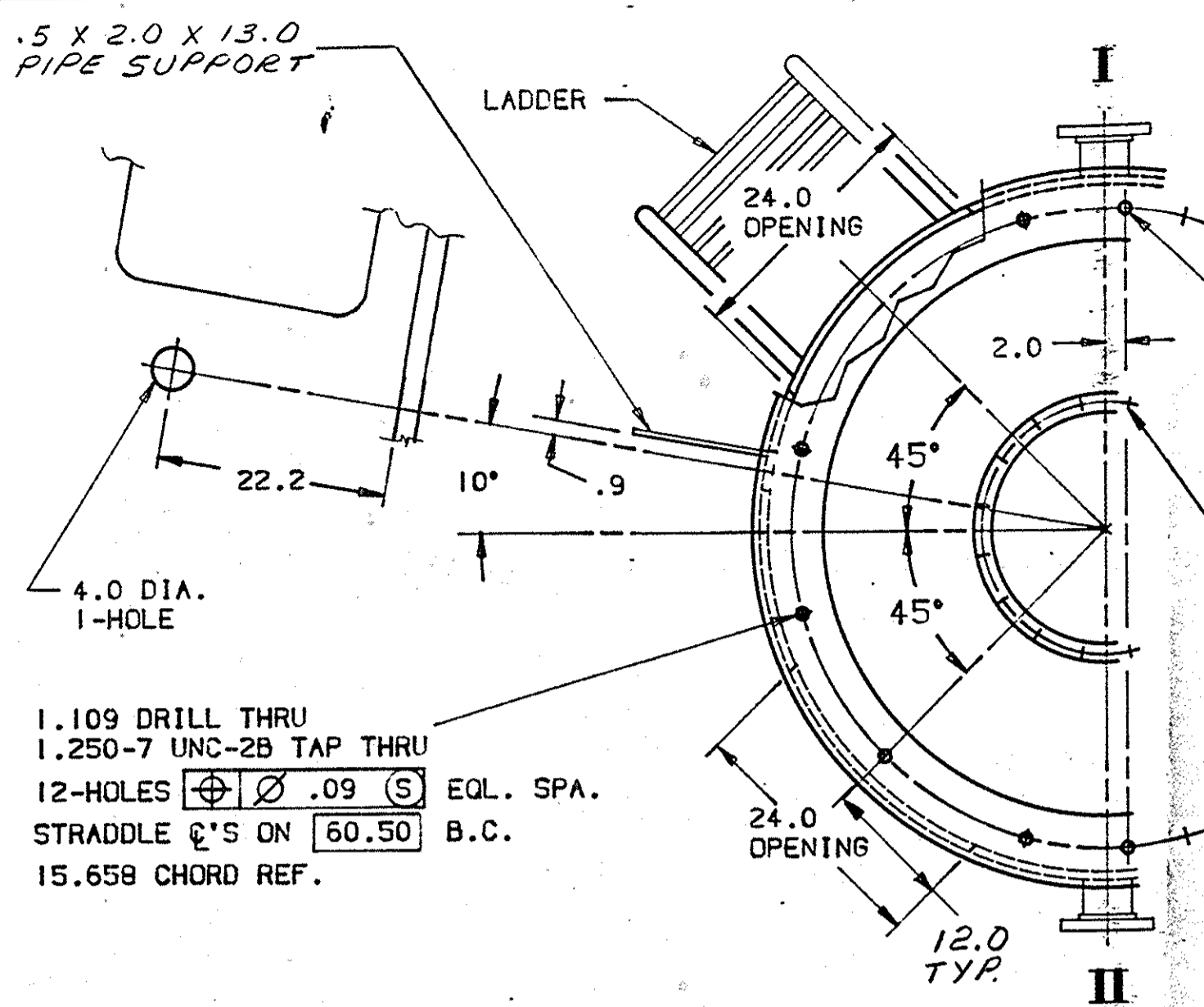
PAINT: AFTER ASSEMBLY, COAT CAPSCREWS, NUTS & EXPOSED SPOTFACE AREAS PER NOTE 4.

ENGRG REF: MACHINE SURFACE TEXTURE & TOLERANCES PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

CONTRACT 5107  
 S&WB DWG. NO. 11577-W-10 SHEET 8 OF 13  
 A/R 08-115-479-508

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438-MI PLANT		NAME BEARING HOUSING-INTERMEDIATE	
UNLESS OTHERWISE SPECIFIED:		MATERIAL 102 x 84 WCAX PUMP	
1-PLACE DEC ± .06	ANGULAR	MACHINED SURFACE TEXTURE	MAT'L SPEC. ASTM A536 CL. 65-45-12
2-PLACE DEC ± .03	-		WT R 1260
3-PLACE DEC ± .01	±		F 1150
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		SIMILAR TO MK.405	MAT'L REF DUCTILE IRON
DR 16-7-12-94	SCALE 1:3	SHEET	GPH NO.
CH JT 7-16-84		PART NO.	
APB 20 JUN 84			
08-405-169-408		08-405-169-408	

PRINTED IN U.S.A. FORM NO. 8147-5  
 N.O. CITRUS



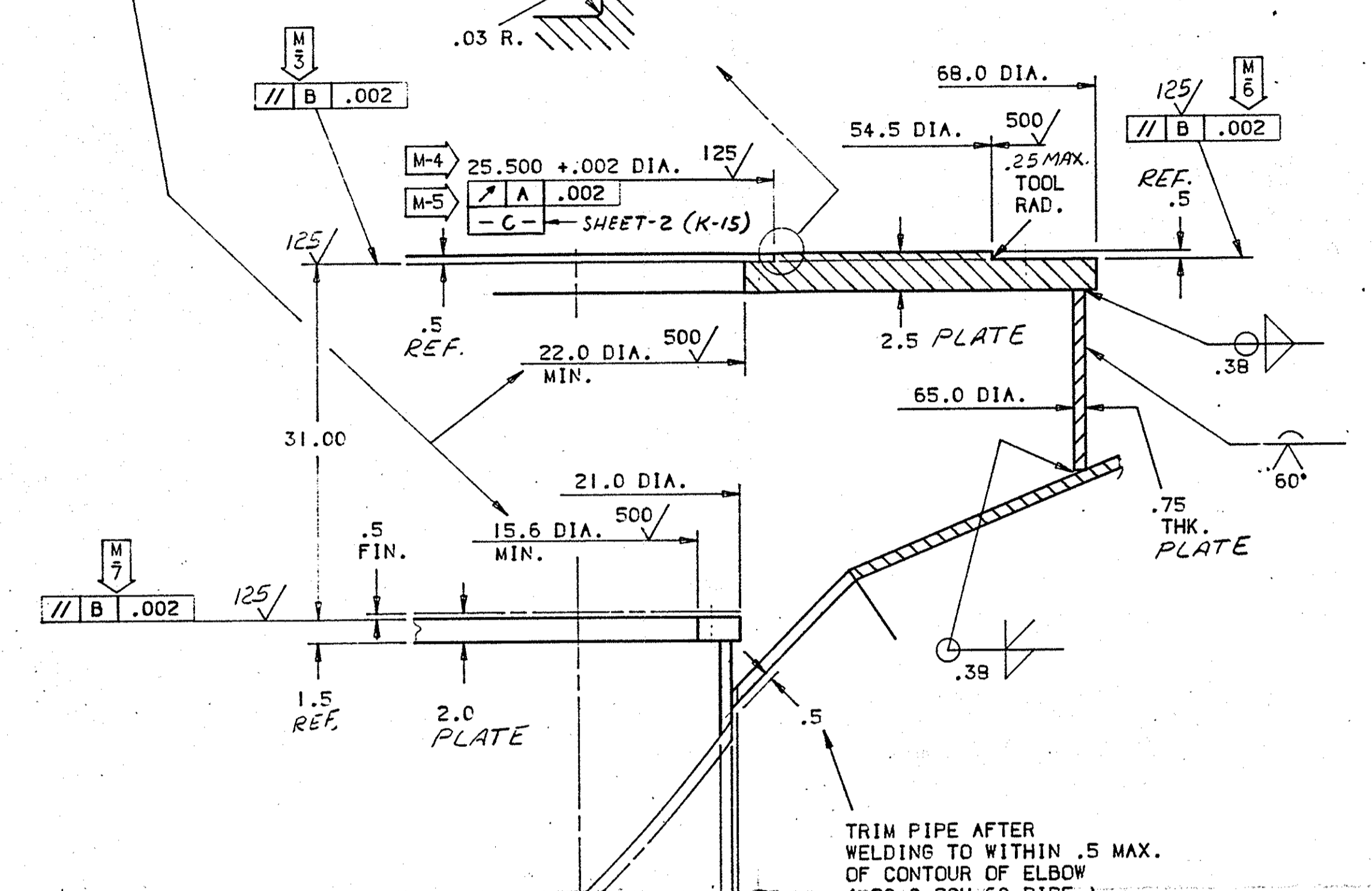
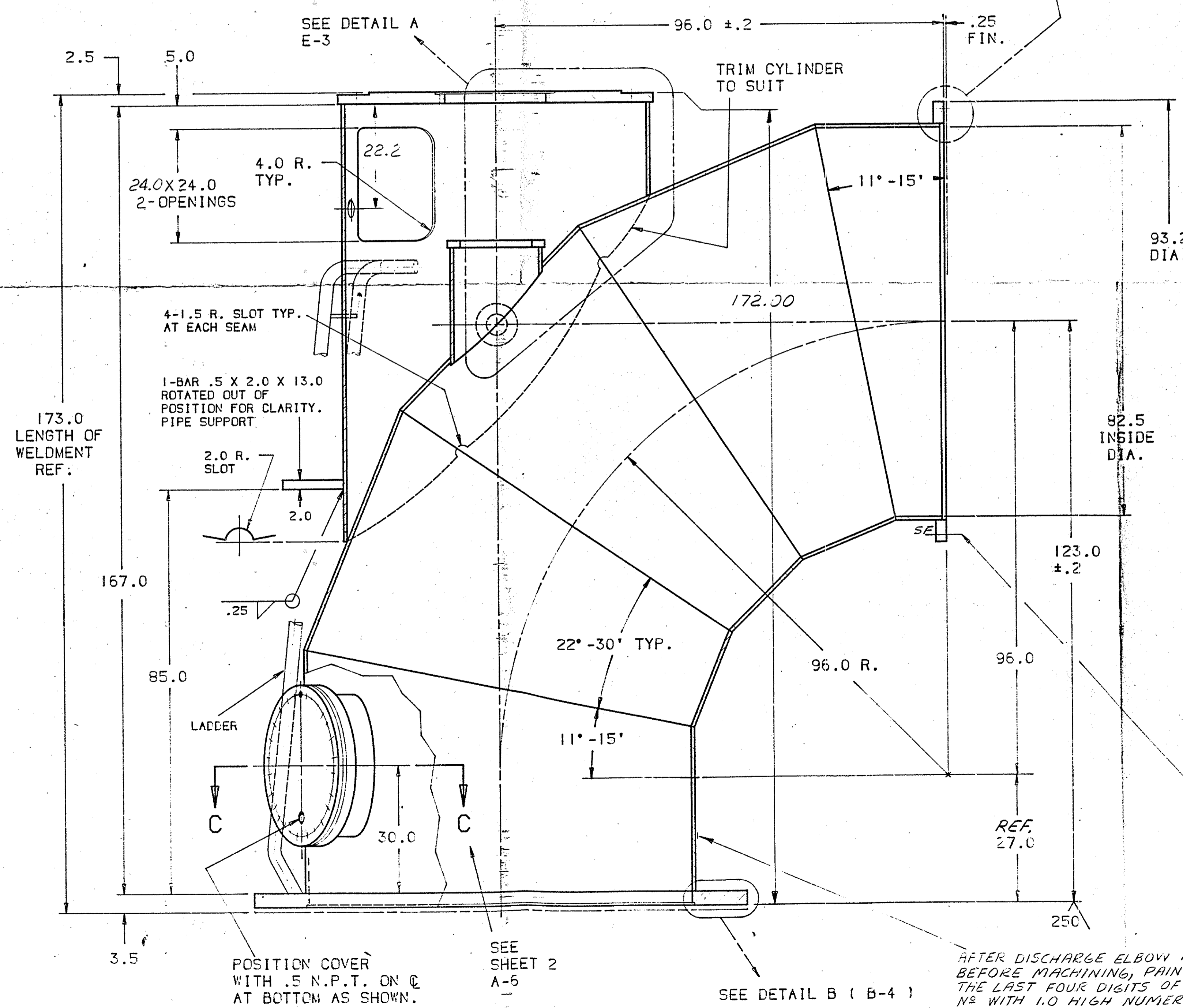
MACHINE ONLY IF THIS DIMENSION IS  
LESS THAN DIMENSION SHOWN.  
NO STOCK ALLOWED. UNFINISHED  
AREAS PERMITTED.

NOTE: A. WELDING NOTES PER 08-610-317-403,  
08-610-321-402 & 08-610-321-415.

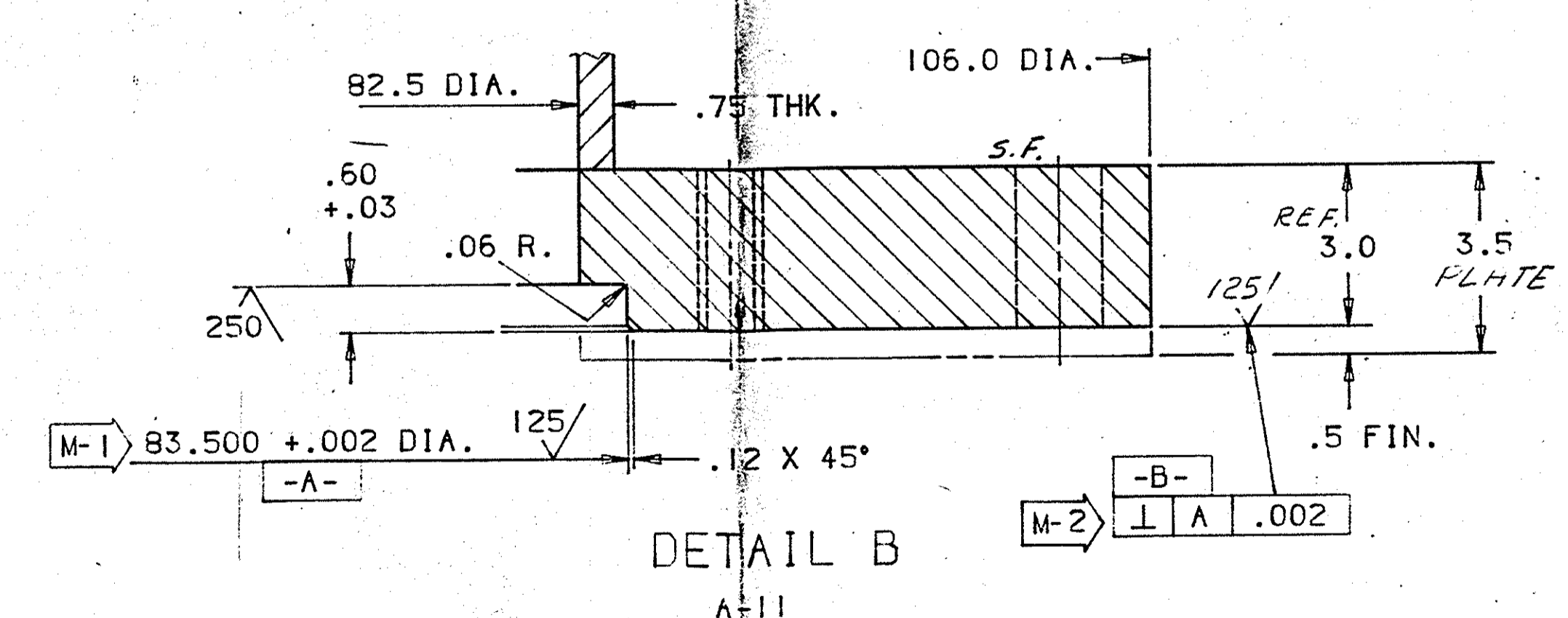
B. CLEAN AND COAT DISCHARGE ELBOW AS  
INDICATED ON DWG. 08-218-897-435.

C. AFTER MACHINING, TOUCH UP ALL DAMAGED  
PREVIOUSLY COATED SURFACES PER  
INSTRUCTIONS ON DWG. 08-218-897-435.

01 7-10-84 Kube



DETAIL A  
H-14



DETAIL B  
A-11

1.188 DRILL THRU  
2.12 DIA. SPOTFACE FAR SIDE  
56-HOLES ON 90.00 B.C.  
EQL. SPACED STRADDLE  $\text{⊕}$ 'S  
 $\text{⊕} \text{⊙} \text{.09} \text{ (M)}$   
5.046 CHORD REF.

AFTER DISCHARGE ELBOW IS PAINTED &  
BEFORE MACHINING, PAINT IN WHITE  
THE LAST FOUR DIGITS OF THE MFG ORDER  
NO WITH 1.0 HIGH NUMERALS.  
SEE PURCHASE ORDER FOR MFG. ORDER NO.

CONTRACT 5107  
SEWS DWG. NO. 11577-V-10 SHEET 9 OF 13

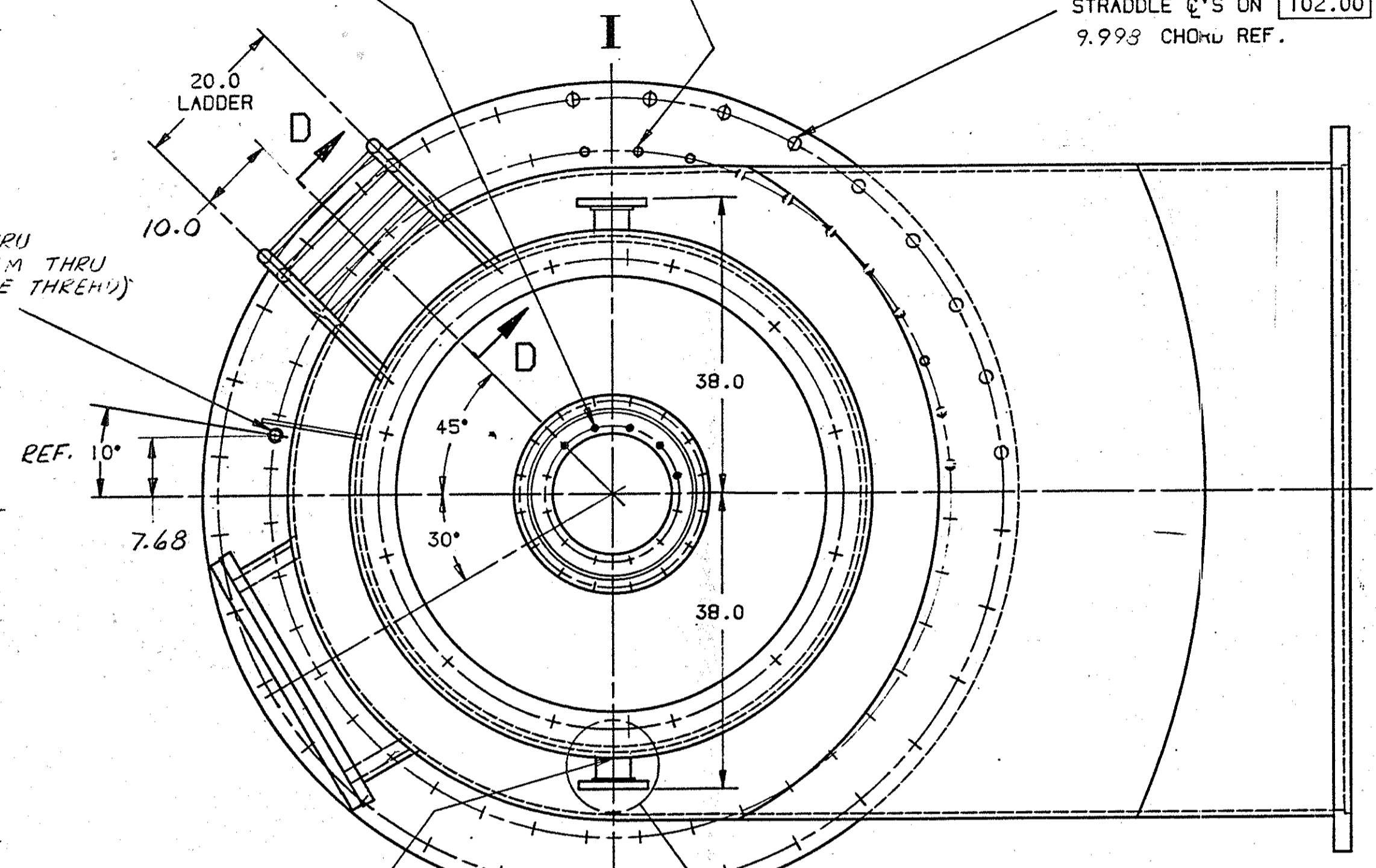
CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b> 443B MI PLANT		NAME <b>DISCHARGE ELBOW</b>	
UNLESS OTHERWISE SPECIFIED:		MATERIAL SEE MATERIALS SHEET 2	
1. PLACE DEC $\pm$ .06	ANGULAR	MACHINED SURFACE TEXTURE	102 X 84 WCAX PUMP WT #20760 #19700
2. PLACE DEC $\pm$ .03			
3. PLACE DEC $\pm$ .010			
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		DR <b>REB 6-13-84</b>	SIMILAR TO 08-502-684-401
MACHINE SURFACE TEXTURE, FINISHES PER CUSTOMER'S CONTRACT & NOT TO CUSTOMER'S STANDARDS		CH <b>REB 7-9-84</b>	SCALE NTS
SHEET 1		AP <b>RKH 12 Jul 84</b>	PART NO. <b>08-405-369-001</b>
08-405-369-001	ISSUE 01	THIRD ANGLE PROJECTION CAD	

.656 DRILL THRU  
 .750-10 UNC-2B TAP THRU  
 12-HOLES  $\varnothing .06$  (S) EQL. SPA.  
 STRADDLE C'S ON 17.50 B.C.  
 4.529 CHORD REF.  $\varnothing C \varnothing .03$  (S)

1.109 DRILL THRU  
 1.250-7 UNC-2B TAP THRU  
 40-HOLES  $\varnothing .09$  (S) EQL. SPA.  
 STRADDLE C'S ON 88.50 B.C.  
 6.944 CHORD REF.

1.688 DRILL THRU  
 3.12 DIA. SPOTFACE NEAR SIDE  
 TO CLEAN UP ONLY.  
 32-HOLES  $\varnothing .09$  (M) EQL. SPA.  
 STRADDLE C'S ON 102.00 B.C.  
 9.993 CHORD REF.

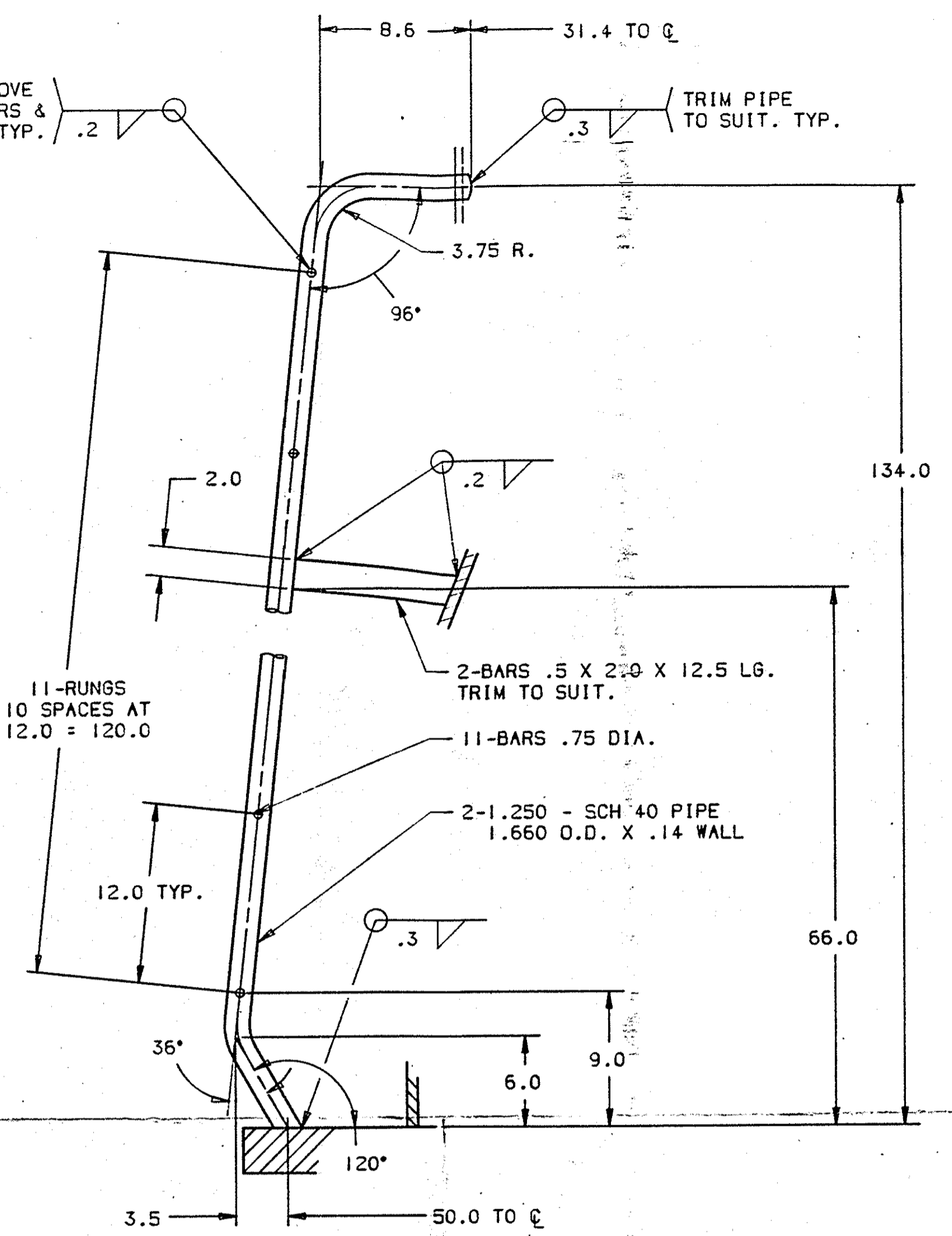
1.750 DRILL THRU  
 1.500-11.5 NPSM THRU  
 (STRAIGHT PIPE THREAD)  
 1-HOLE ON  
 88.50 B.C.



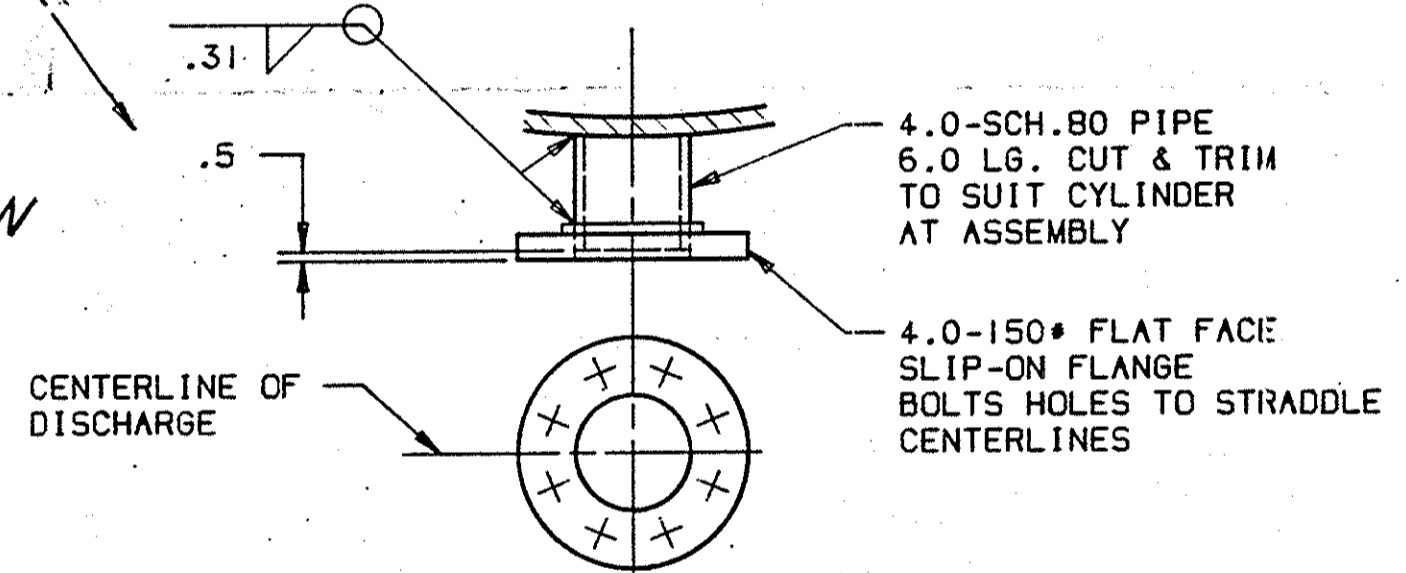
PAINT WHITE NUMERAL II ON  
 OUTSIDE EDGE OF FLANGES  
 ON C AND PAINT NUMERAL I  
 180° OPPOSITE.

PLAN VIEW

GRIND TO REMOVE  
 WELD SPLATTERS &  
 HIGH SPOTS. TYP.  
 22-PLACES

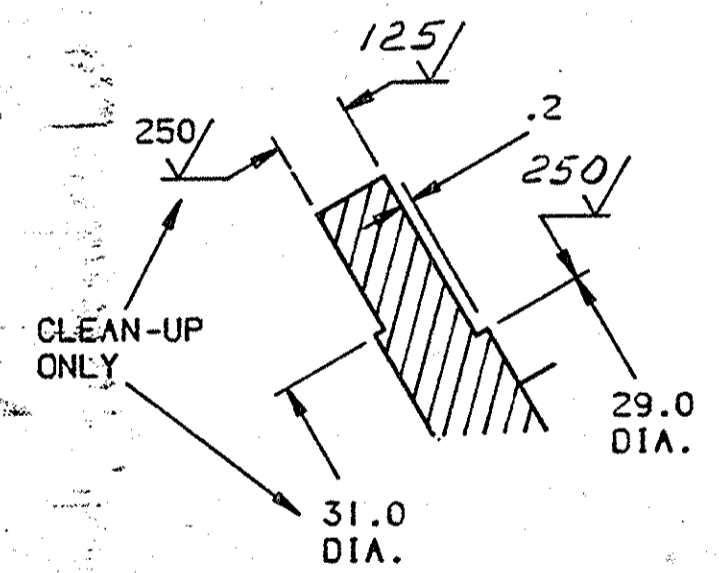


SECTION D-D  
 J-15



4.0-SCH.80 PIPE  
 6.0 LG. CUT & TRIM  
 TO SUIT CYLINDER  
 AT ASSEMBLY  
 4.0-150# FLANGE  
 SLIP-ON FLANGE  
 BOLTS HOLES TO STRADDLE  
 CENTERLINES

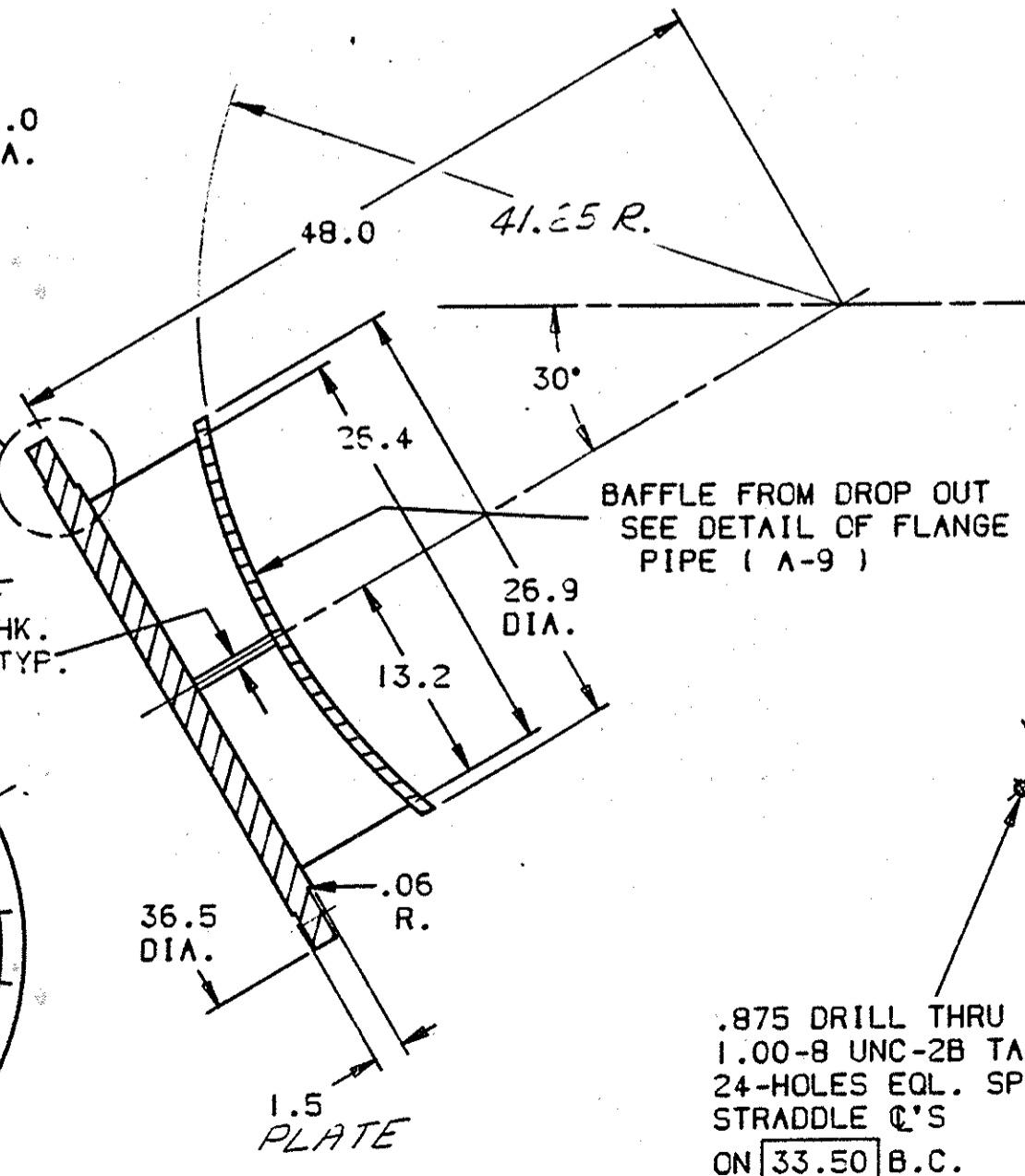
COVER TO BE BOLTED IN PLACE  
 WHEN STRESS RELIEVING ENTIRE WELDMENT.  
 USE CARBON STEEL BOLTS 24-REQ'D.  
 WELDMENT VENDOR TO FURNISH BOLTS.



DETAIL OF  
 MANHOLE COVER

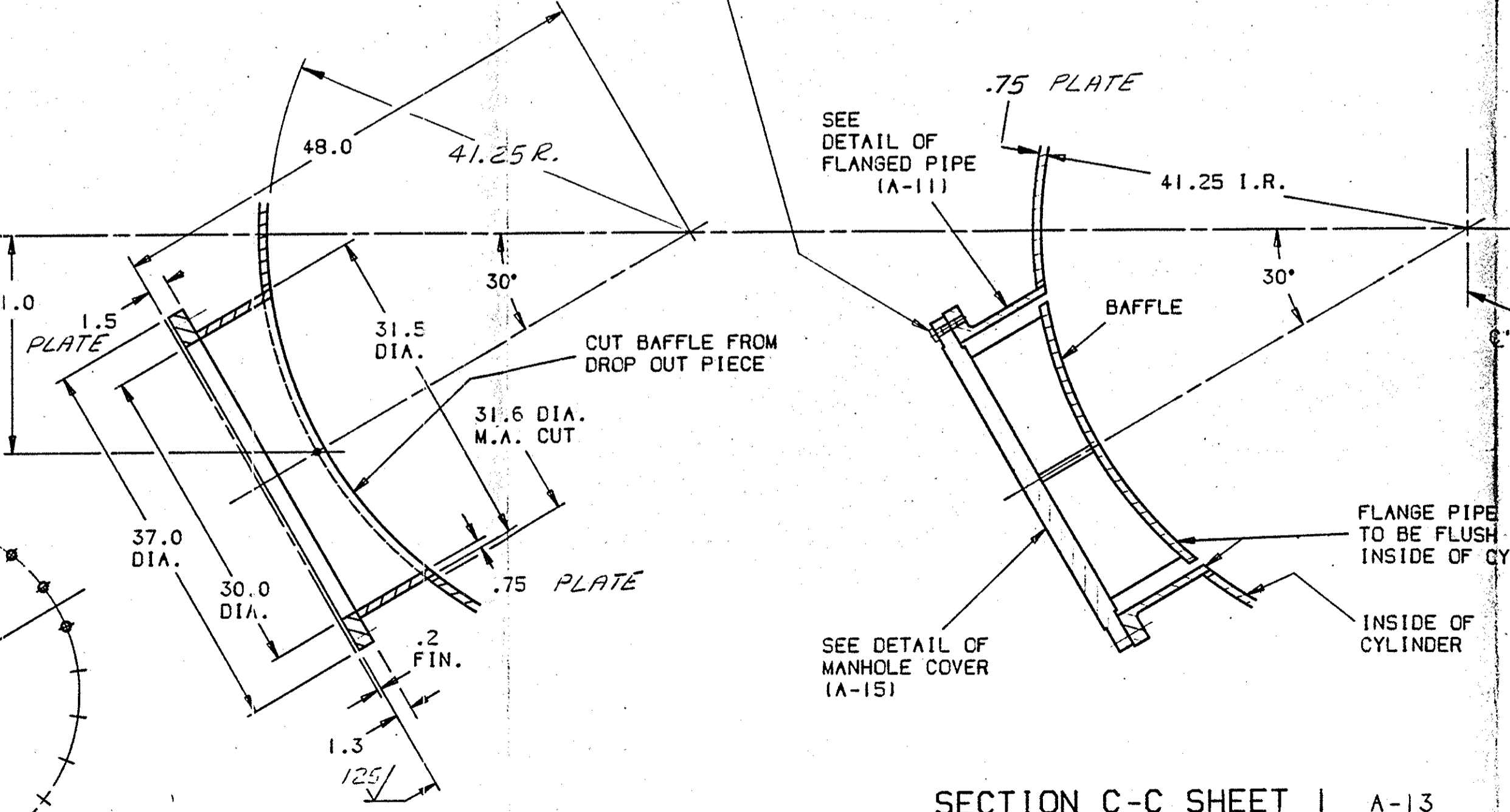
1.187 DRILL THRU  
 24-HOLES EQL. SPA.  
 STRADDLE C'S  
 ON 33.50 B.C.  
 $\varnothing .09$  (M)  
 4.372 CHORD REF.

PLATE  
 .75 THK.  
 RIBS TYP.



.875 DRILL THRU  
 1.00-8 UNC-2B TAP  
 24-HOLES EQL. SPA.  
 STRADDLE C'S  
 ON 33.50 B.C.  
 $\varnothing .09$  (S)  
 4.372 CHORD REF.

DETAIL OF FLANGE PIPE



SECTION C-C SHEET 1 A-13

MATERIALS	
PLATE OR BAR:-ASTM-A36 (UNS-K02600) CERTIFIED COPIES OF CHEMICAL ANALYSIS	
PIPE 1.250-SCH 40:- ASTM-A120, ASTM A-53 OR EQUAL	
PIPE 4.0-SCH 80:- ASTM-A120 OR EQUAL	
PIPE 20.0-SCH 60:-ASTM A53 GR B OR EQUAL	
FLANGE 4.0-150# FF:- ASTM-A105 OR EQUAL	
BAR .75 DIA.:- AISI 610180/610220 OR EQUAL	CONTRACT 5107
S&NB DWG N11577-W-10 SHEET 10 OF 13	

CONFIDENTIAL-PROPERTY OF <b>ALLIS-CHALMERS CORP.</b>		NAME <b>DISCHARGE ELBOW</b>	
4438 MI	PLANT	MATERIAL SEE MATERIALS AT C-2	
UNLESS OTHERWISE SPECIFIED:		MACHINED SURFACE TEXTURE	
1- PLACE DEC ± .06	ANGULAR	✓	
2- PLACE DEC ± .03			
3- PLACE DEC ± .010 ±			
FOR TOLERANCES NOT SPECIFIED SEE 500-SERIES SHOP PRACTICE STANDARDS		THIRD ANGLE PROJECTION	
DR <b>REB 6-15-84</b>	SIMILAR TO	CAD	
CH <b>REB 7-2-84</b>	SCALE N 7.5	SHEET 2-FINAL	PART NO. <b>M-8</b>
AP <b>REB 12 Jan 84</b>	08-405-369-001		08-405-369-001
ISSUE 01			

SHEET 2 FINAL

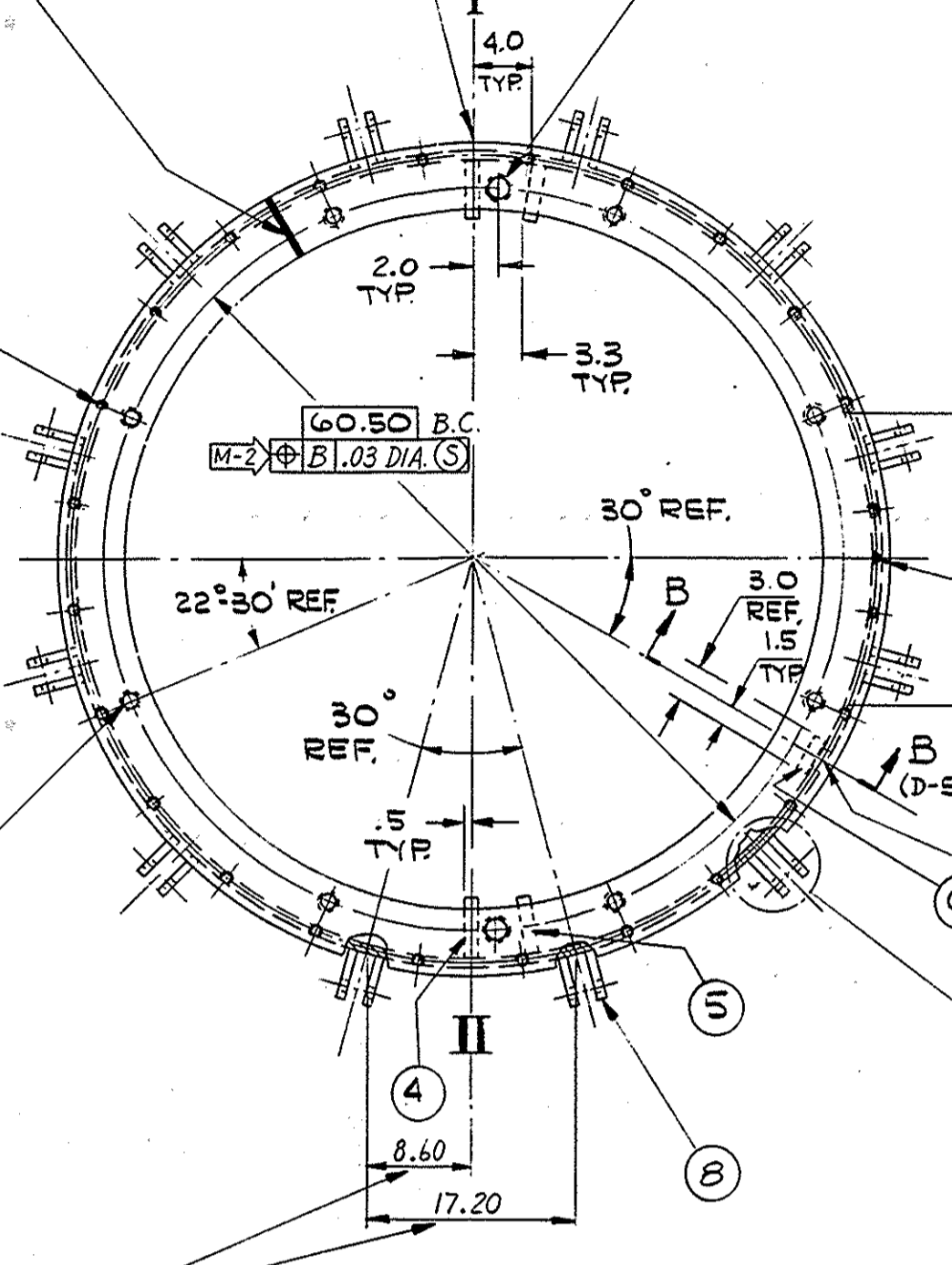
JOINT IN ITEM 3 - SEE NOTES 2 & 5. LOCATION OF THIS JOINT MAY VARY FREELY EXCEPT WELD SHOULD NOT LINE UP WITH WELD IN ITEM 2.

PAINT WHITE NUMERAL I ON O.D. OF TOP & BOTTOM FLANGE. NUMERAL II 180° OPPOSITE.

.656 DRILL 2.2 DEEP & .750-10 UNC-28 TAP 1.5 DEEP 24 HOLES-EQL. SP. STRADDLE & S ON  $\frac{1}{16}$  B.C. 8.647 CHORD-REF.  $\phi$  .06 DIA. (S) NOTE: DRILL MAY BREAK THRU.

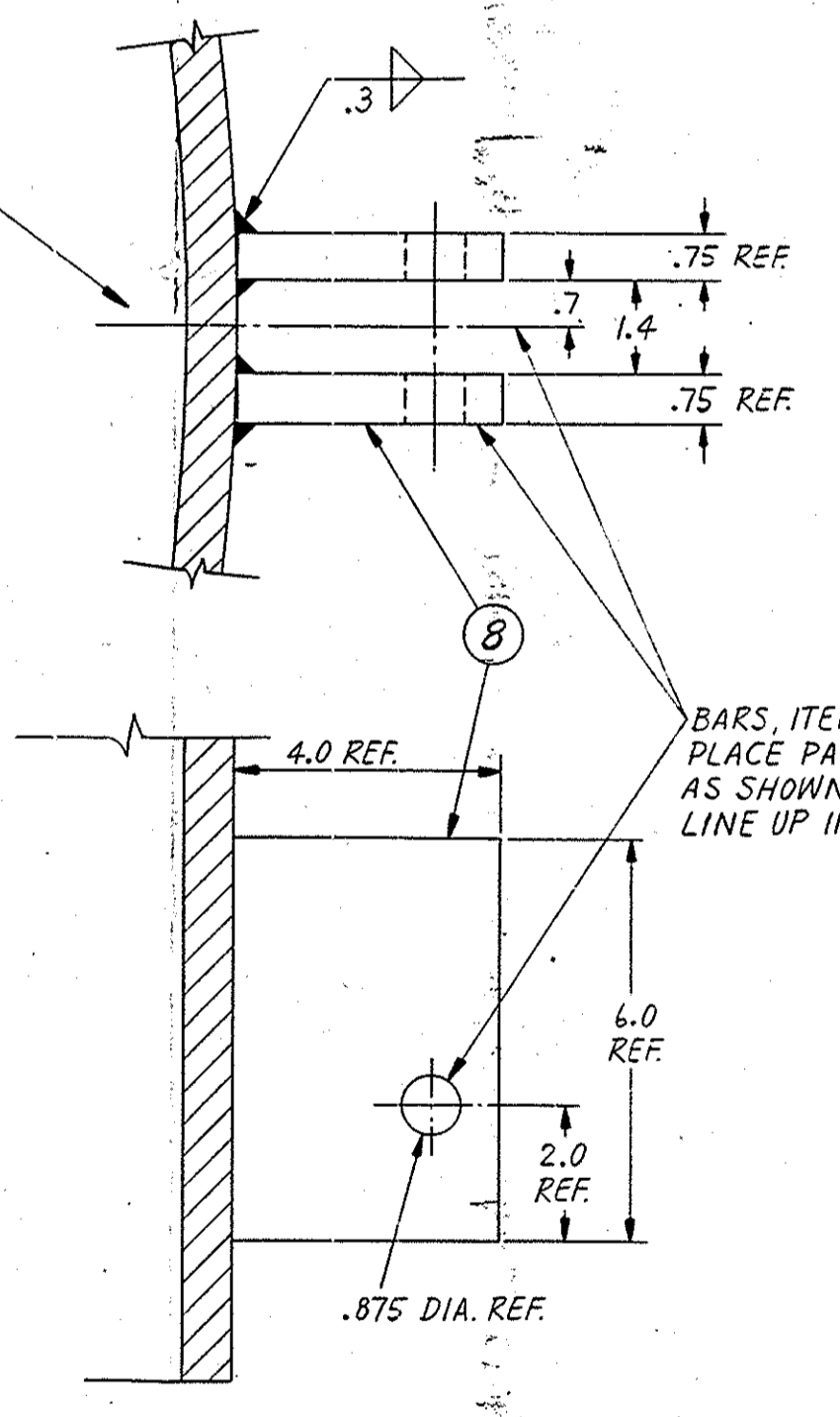
1.781 DRILL THRU & 2.000-4.5 UNC-28 TAP THRU 2 HOLES (FOR HANDLING RING) ONE OPPOSITE

1.109 DRILL THRU & 1.250-7 UNC-28 TAP THRU 8 HOLES EQL. SP. STRADDLE & S  $\phi$  .09 DIA. (S) 23.152 CHORD REF.



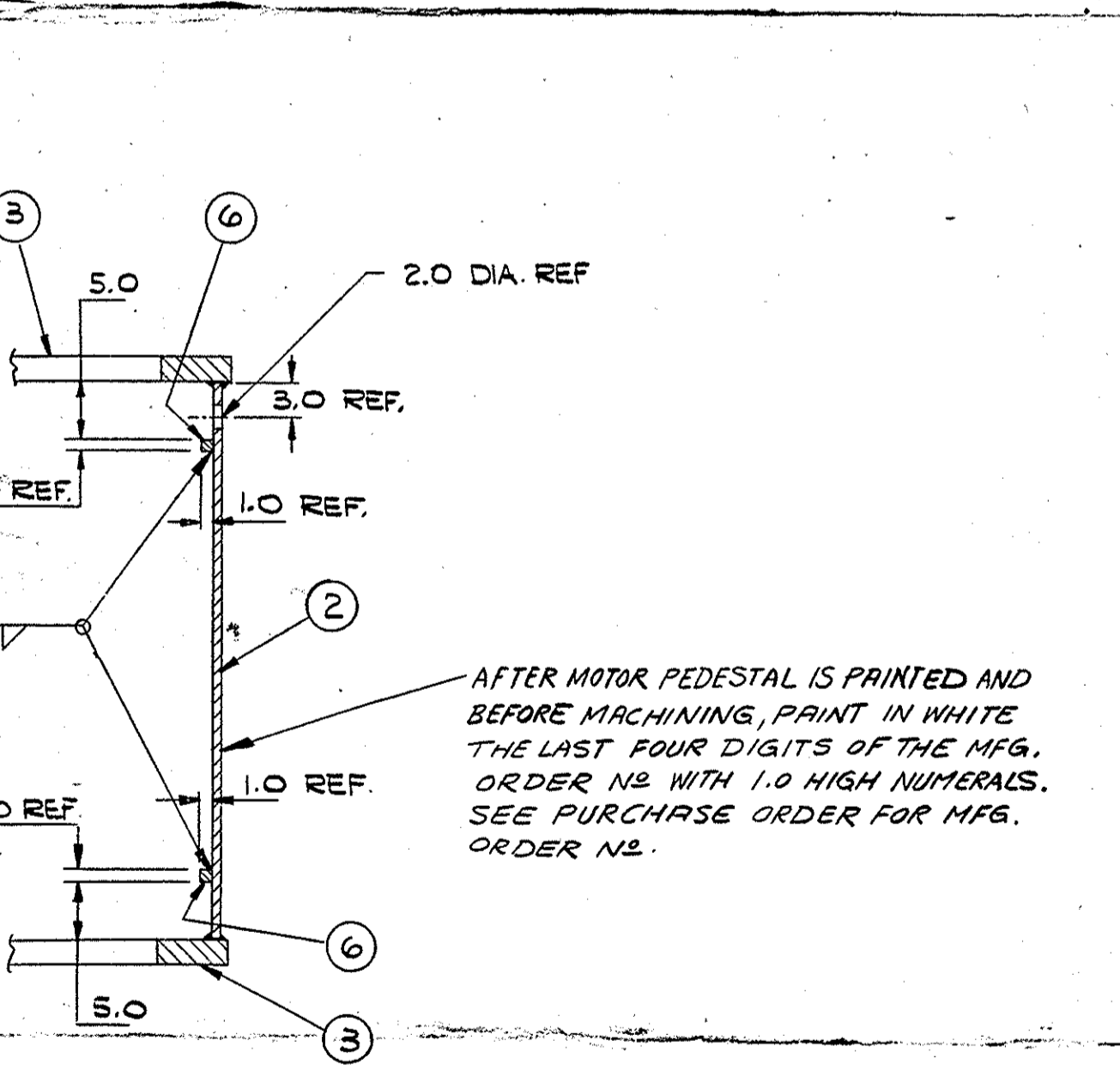
24.0 REF. OPENING ONE OPPOSITE

WELD JOINT ITEM 2 BACKGOUGE SEE NOTES 2 & 5.



BAR, ITEM 14, TO BE WELDED IN PLACE PARALLEL TO RADIAL & S AS SHOWN. .875 DIA. HOLES MUST LINE UP IN EACH PAIR OF BARS.

SCALE 1:2

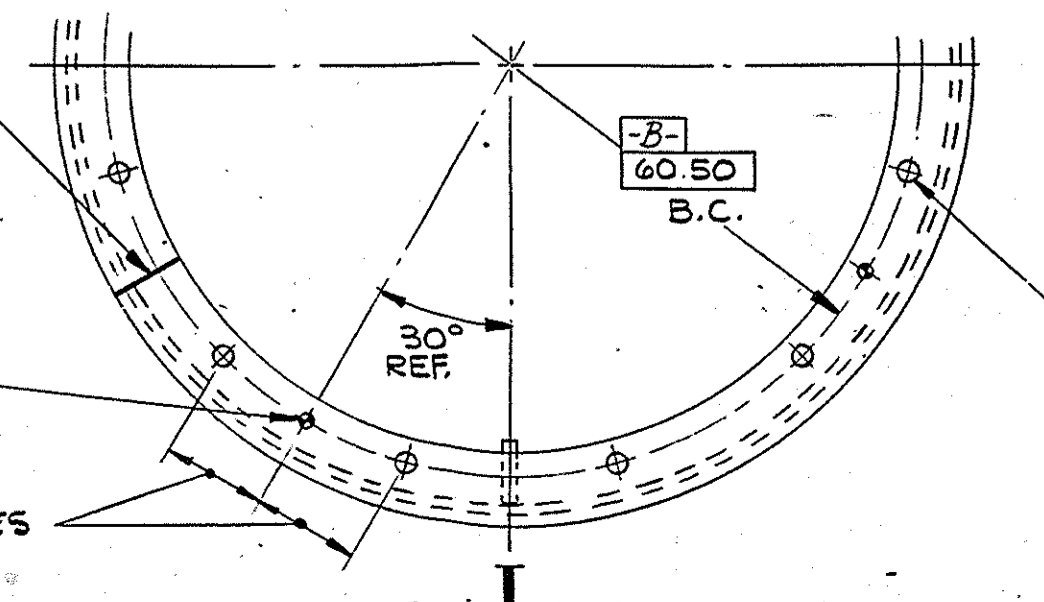


AFTER MOTOR PEDESTAL IS PRINTED AND BEFORE MACHINING, PRINT IN WHITE THE LAST FOUR DIGITS OF THE MFG. ORDER NO. WITH 1.0 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG. ORDER NO.

SECTION B-B (M-15)

JOINT IN ITEM 3 - SEE NOTES 2 & 5. LOCATION OF THIS JOINT MAY VARY FREELY EXCEPT WELD SHOULD NOT LINE UP WITH WELD IN ITEM 2.

.578 DRILL THRU 4 HOLES - 90° APART (PILOT HOLES FOR TAPER DOWELS). 2 EQUAL SPACES



1.438 DRILL THRU 12 HOLES EQL. SPA. STRADDLE & S 2.62 DIA. S.F. FAR SIDE - TO CLEAN UP ONLY.  $\phi$  .09 DIA. (M) 15.658 CHORD-REF.

- NOTES:
1. WELDING REQUIREMENTS PER ACP 2-9 CLASS II.
  2. CARBON AIR ARC GOUGE ACCEPTABLE.
  3. USE WELD ELECTRODE 50-200-017-004.
  4. USE CERTIFIED ASME WELDERS.
  5. COMPLETE JOINT PENETRATION WELDS REQUIRED WHERE INDICATED ON DWG.
  6. VISUAL & MECHANICAL INSPECTION PER SHOP PRACTICE STD. 567.
  7. TOLERANCE FOR FABRICATION MUST CONFORM TO ALLIS-CHALMERS CORP. SHOP PRACTICE STANDARDS 567 & 568 UNLESS OTHERWISE SPECIFIED.
  8. STRESS RELIEVE THERMALLY PER ACP 1-211, OR MECHANICALLY.
  9. AFTER STRESS RELIEVING AND BEFORE MACHINING, BLAST CLEAN ENTIRE WELDMENT PER DWG. 08-610-001-466.
  10. PAINT ENTIRE WELDMENT WITH ONE (1) COAT MIN. OF RUST-OLEUM NO. 1069 PRIMER, FOLLOWED BY ONE (1) COAT MIN. RUST-OLEUM NO. 906 FINISH COAT PER DWG. 08-610-001-466.
  11. AFTER MACHINING, TOUCH UP ALL DAMAGED PREVIOUSLY COATED SURFACES PER INSTRUCTIONS ON DWG. 08-610-001-466.

CONTRACT 5107  
S&WB DVG. NO. 11577-W-10 SHEET 11 OF 13

NR 08-14-947-577-WELDMENT  
08-14-947-578-MACHINING

CONFIDENTIAL-PROPERTY OF ALLIS-CHALMERS CORP. 4438 M1		NAME MOTOR-PEDESTAL 102 X 84 WAX PUMP	
UNLESS OTHERWISE SPECIFIED:		MATERIAL CARBON STEEL	
1- PLACE DEC. 2.00	ANGULAR	2- PLACE DEC. 2.03	MACHINING SURFACE TEXTURE Rt .3645 Rt .3330
3- PLACE DEC. 2		4- PLACE DEC. 2	
FOR TOLERANCES NOT SPECIFIED SEE 300-SERIES SHOP PRACTICE STANDARDS			
DR. JT 6-11-84	SIMILAR TO MK 450	SCALE	THIRD ANGLE PROJECTION
CH. JT 6-20-84	NTS	SHEET	PART NO. (M-2) 08-502-306-452
AP. 8-2-84			

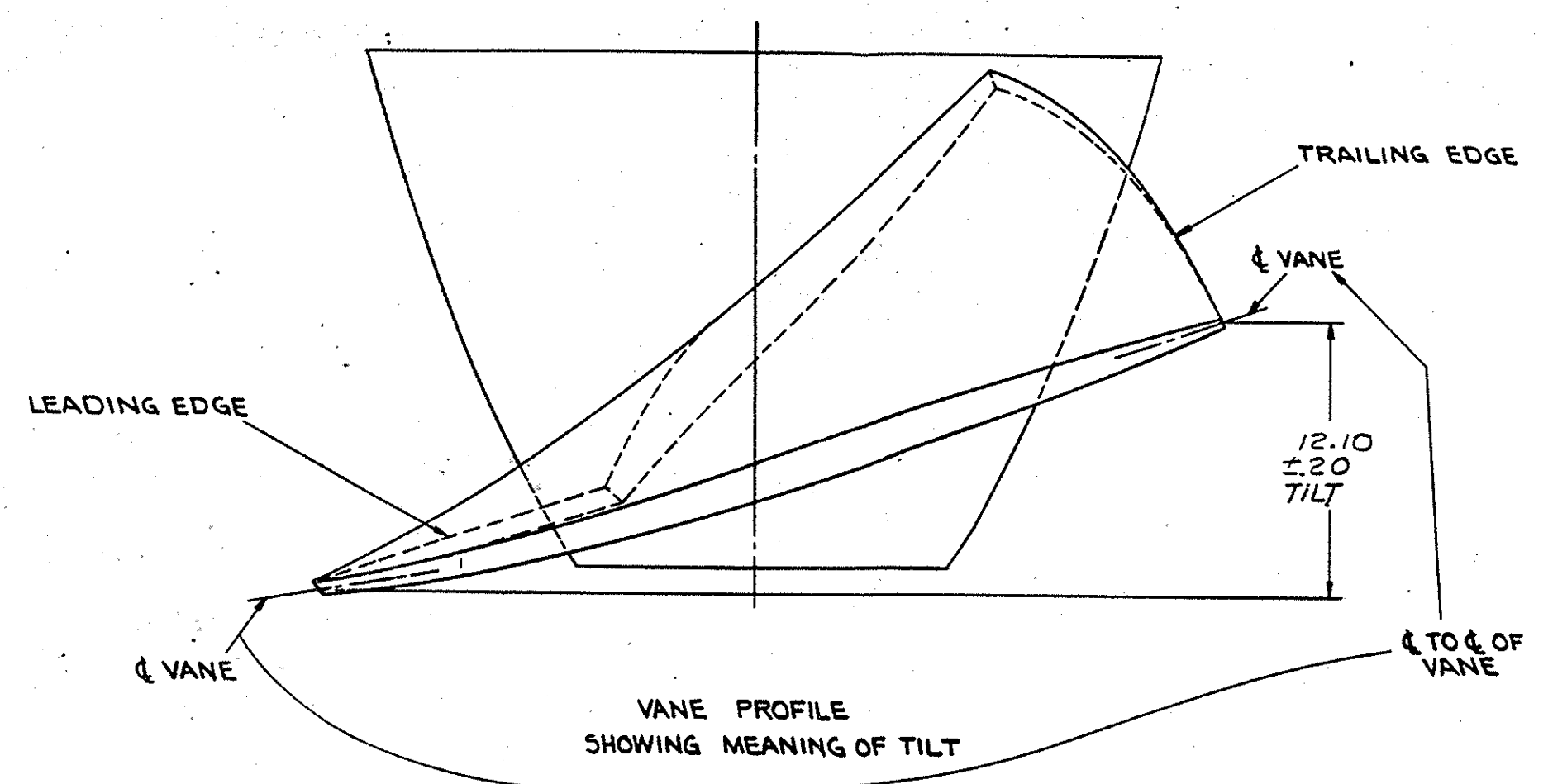
ENGRG REF:  
MACHINE SURFACE TEXTURE, FINISHES AND DIMENSIONS - PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

08-502-306-452 107

NOTES:

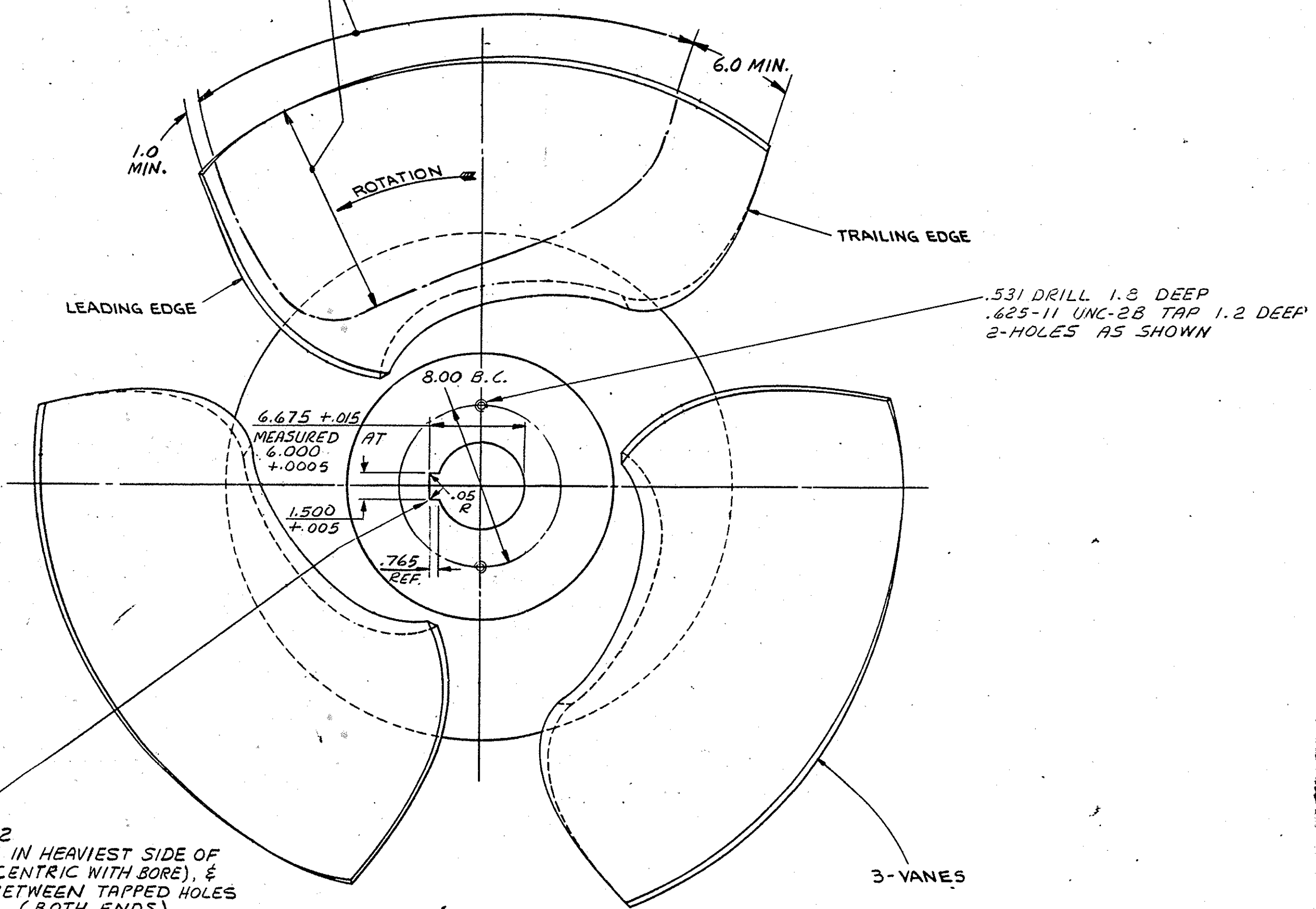
A. FOR IMPELLER MACHINING NOTES SEE DWG. 08-610-319-401.

M-6 B. IMPELLER TO BE DYNAMICALLY BALANCED TO WITHIN A TOLERANCE OF 6.0 IN. LB. IN EACH PLANE AT A SPEED OF 320 R.P.M., ALSO CHECK BALANCE AT 160 R.P.M. & 400 R.P.M. TO INSURE THAT IMPELLER IS BALANCED WITHIN TOLERANCE SHOWN. REFER TO DYNAMIC BALANCE PROCEDURE DWG 08-610-036-405. SEE IMPELLER MACH. NOTE-5.



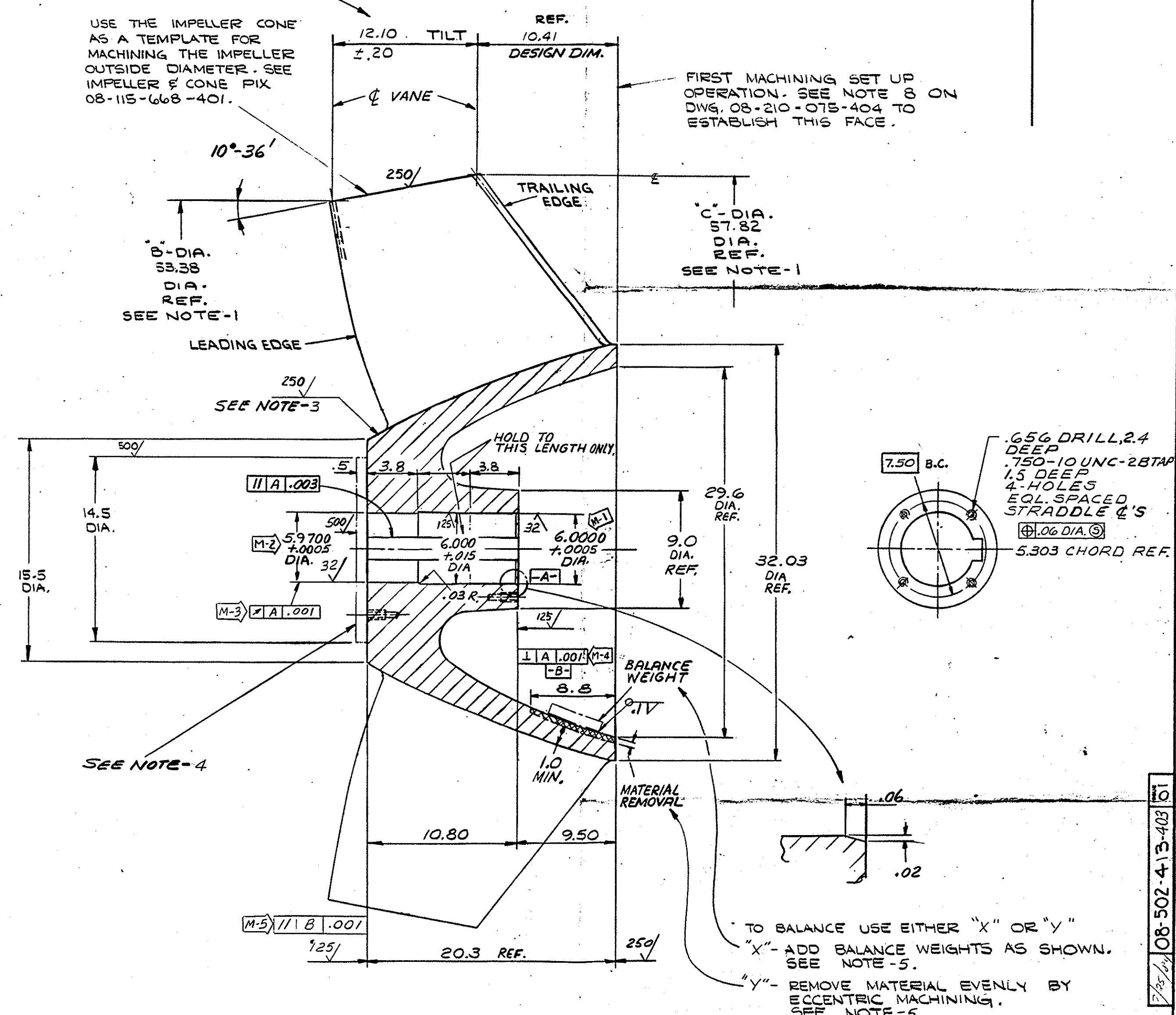
MEASURED FROM E TO E OF VANE. SEE VANE PROFILE @ ( J-17 )

SEE NOTE-5 REMOVE METAL FROM SURFACES OF VANE - EITHER OR BOTH SIDES IN THIS GENERAL AREA WHEN BALANCING. MAINTAIN CONTOUR OF VANE SURFACES. NO RIDGES OR DEPRESSIONS ALLOWED.



SEE NOTE-2 CUT KEYWAY IN HEAVIEST SIDE OF HUB (IF ECCENTRIC WITH BORE), & LOCATED BETWEEN TAPPED HOLES AS SHOWN. (BOTH ENDS). KEYWAY TO BE CUT AFTER IMPELLER IS DYNAMICALLY BALANCED PER NOTE-5

ENGRG. NOTE :- THIS IMPELLER BLADE IS A STEP-UP OF MODEL BLADE 08-502-326-401 X-3.02



USE THE IMPELLER CONE AS A TEMPLATE FOR MACHINING THE IMPELLER OUTSIDE DIAMETER. SEE IMPELLER & CONE PIX 08-115-668-401.

FIRST MACHINING SET UP OPERATION. SEE NOTE 8 ON DWG. 08-210-075-404 TO ESTABLISH THIS FACE.

TO BALANCE USE EITHER "X" OR "Y" "X" - ADD BALANCE WEIGHTS AS SHOWN. SEE NOTE-5. "Y" - REMOVE MATERIAL EVENLY BY ECCENTRIC MACHINING. SEE NOTE-5.

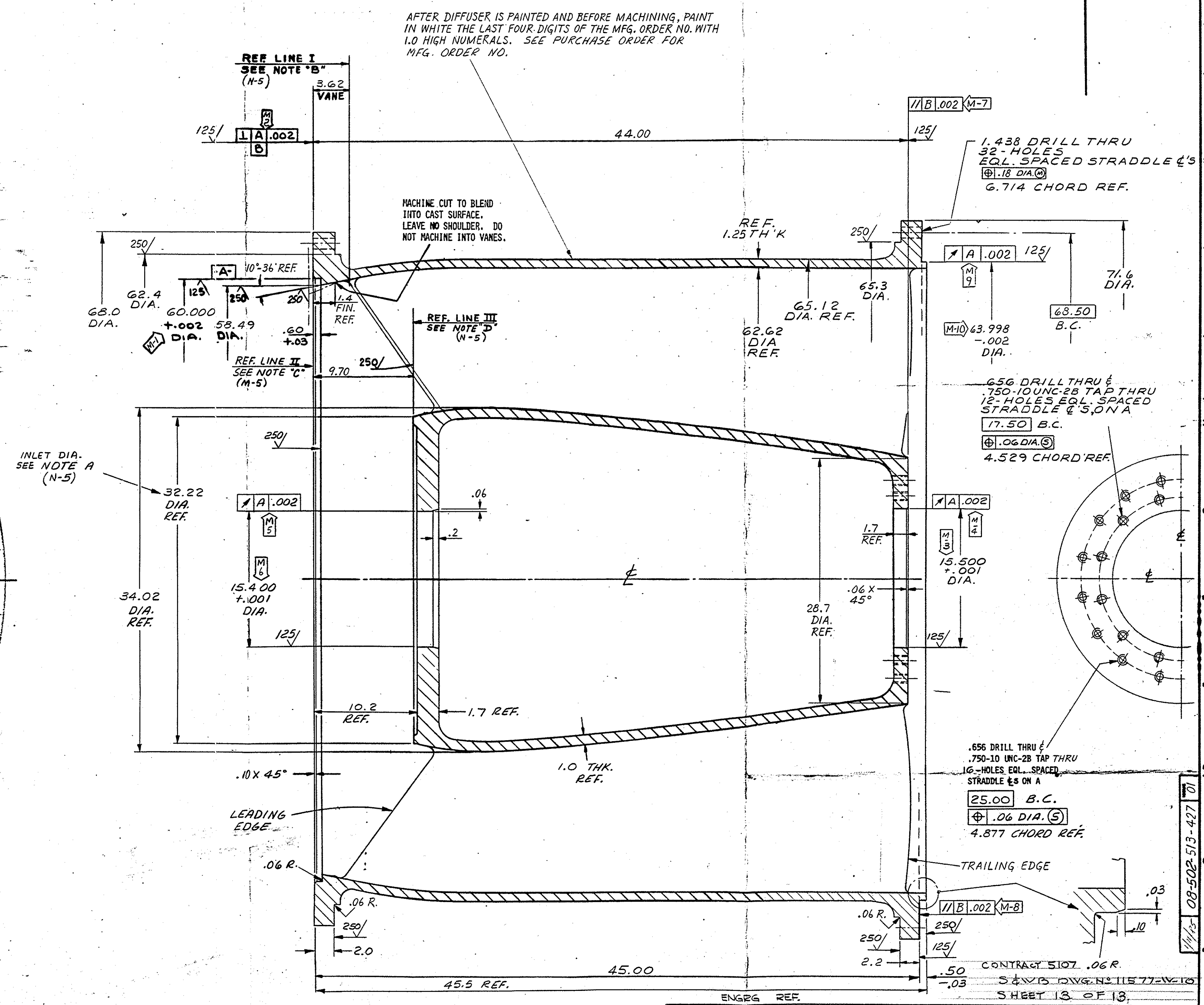
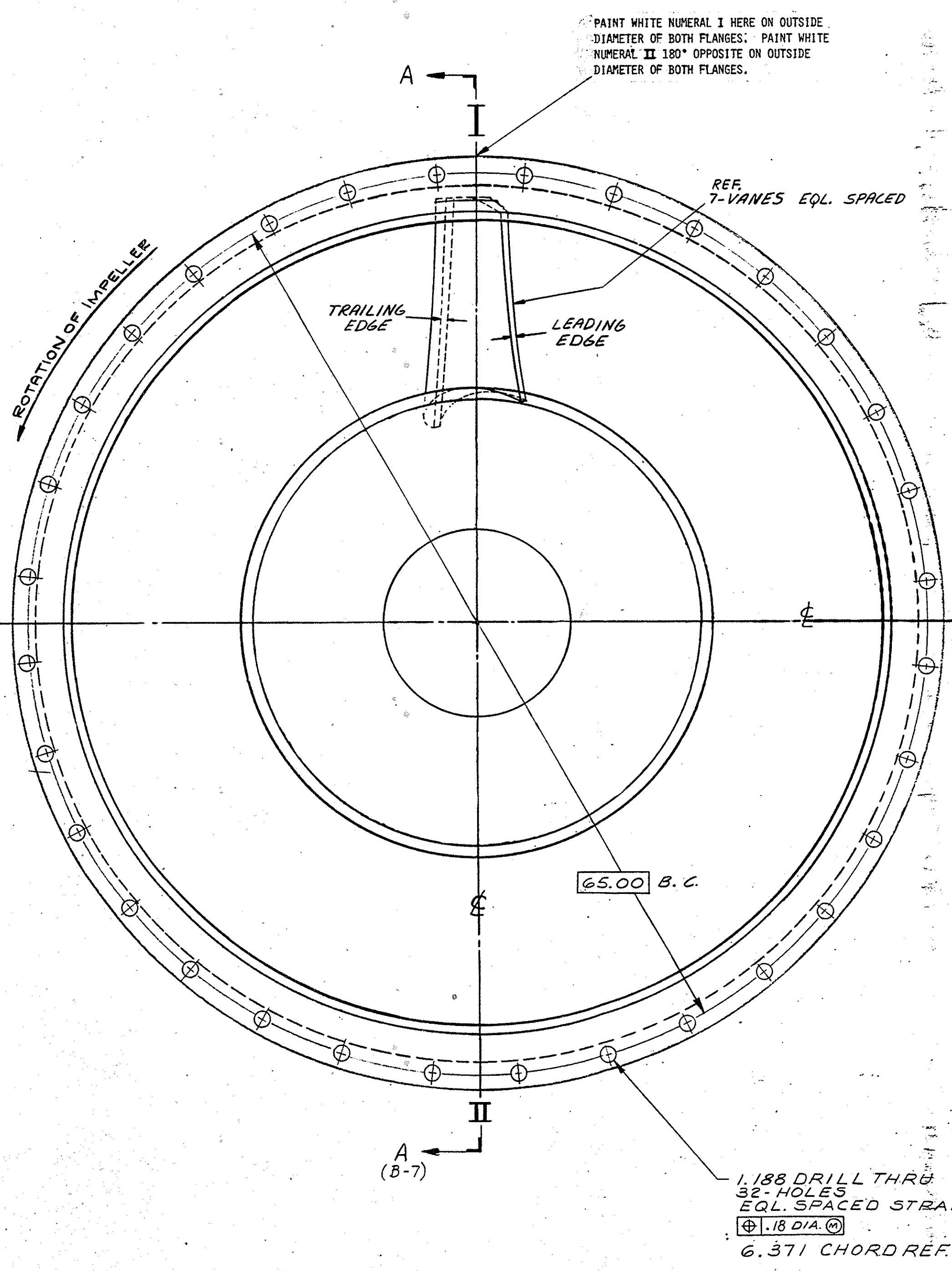
CONTRACT 5107 S&WB DWG. NO 11577-W-10 SHEET 12 OF 13 A/R 08-115-644-508

MACHINE SURFACE TEXTURE & TOLERANCES AND DIMENSIONS FOR CONTROL PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

CONFIDENTIAL PROPERTY OF ALLIS-CHALMERS CORP.		NAME	
44-38 MI. PLANT		IMPELLER	
UNLESS OTHERWISE SPECIFIED:		102 X 84 WCAX PUMP	
1. PLACE DIMS 2-06	ANGULAR	DATE	
2. PLACE DIMS 2-05			
3. PLACE DIMS 1-01			
FOR TOLERANCES NOT SPECIFIED SEE		MATERIAL SPEC.	ASTM A743
MACHINE SURFACE FINISHES		MATERIAL	CALNM ANNEAL
		DATE	1945
		SCALE	1:1
		DRAWN BY	MC-401
		CHECKED BY	NTS
		PART NO.	08-502-413-403

08-502-413-403 01

- LAYOUT PROCEDURE FOR MACHINING.
- A. CENTER DIFFUSER AT INLET DIA. (G-13)
  - B. LEVEL DIFFUSER BY AVERAGING INLET EDGE OF VANES TO ESTABLISH REF. LINE I. (L-10)
  - C. MEASURE FROM REF. LINE I TO ESTABLISH REF. LINE II. (I-10)
  - D. MEASURE FROM REF. LINE II TO ESTABLISH REF. LINE III. (I-8)



AFTER DIFFUSER IS PAINTED AND BEFORE MACHINING, PAINT IN WHITE THE LAST FOUR DIGITS OF THE MFG. ORDER NO. WITH 1.0 HIGH NUMERALS. SEE PURCHASE ORDER FOR MFG. ORDER NO.

SECTION A-A (B-18)

ENGRG REF: MACHINE SURFACE TEXTURE & TOLERANCES AND GEOMETRIC FORM CONFORM PER CUSTOMER'S CONTRACT & NOT TO CUSTOM PUMP STANDARDS.

AIR	MATL	WT. #	REMARKS	CONFIDENTIAL PROPERTY OF ALLIANCE-BUSINESS GROUP	NAME
08-115-521-539	7101	1.6620	200 PAINT	44-38 AM	DIFFUSER-MACHINING
				PLANT	10.2 X 84 WCAX PUMP
				1- PLACE DIM 1.06	
				2- PLACE DIM 1.03	
				3- PLACE DIM 1.01	
				4- PLACE DIM 1.00	
				5- PLACE DIM 1.00	
				6- PLACE DIM 1.00	
				7- PLACE DIM 1.00	
				8- PLACE DIM 1.00	
				9- PLACE DIM 1.00	
				10- PLACE DIM 1.00	
				11- PLACE DIM 1.00	
				12- PLACE DIM 1.00	
				13- PLACE DIM 1.00	
				14- PLACE DIM 1.00	
				15- PLACE DIM 1.00	
				16- PLACE DIM 1.00	
				17- PLACE DIM 1.00	
				18- PLACE DIM 1.00	
				19- PLACE DIM 1.00	
				20- PLACE DIM 1.00	
				21- PLACE DIM 1.00	
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				23- PLACE DIM 1.00	
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				25- PLACE DIM 1.00	
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				32- PLACE DIM 1.00	
				33- PLACE DIM 1.00	
				34- PLACE DIM 1.00	
				35- PLACE DIM 1.00	
				36- PLACE DIM 1.00	
				37- PLACE DIM 1.00	
				38- PLACE DIM 1.00	
				39- PLACE DIM 1.00	
				40- PLACE DIM 1.00	
				41- PLACE DIM 1.00	
				42- PLACE DIM 1.00	
				43- PLACE DIM 1.00	
				44- PLACE DIM 1.00	
				45- PLACE DIM 1.00	
				46- PLACE DIM 1.00	
				47- PLACE DIM 1.00	
				48- PLACE DIM 1.00	
				49- PLACE DIM 1.00	
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# SWB Rotating Equipment Acceptance

The following must be signed off or marked N/A by the appropriate personnel as a requirement for acceptance of the work. It is the contractor's/vendor's responsibility to obtain signoff and return the completed form to the designated SWB representative.

Station Name and Equipment ID: \_\_\_\_\_

Contractor/Vendor: \_\_\_\_\_

Date(s) of Equipment Reassembly: \_\_\_\_\_

## SWB Machine Shop Supervisor Signoff

Shaft and Impeller centered in the following:

Housing: \_\_\_\_\_

Stuffing Box: \_\_\_\_\_

Bearing casings: \_\_\_\_\_

Nose clearances in suction ring are acceptable: \_\_\_\_\_

Radial bearing set: \_\_\_\_\_

Thrust bearing set: \_\_\_\_\_

The following alignments are acceptable:

Pump to Motor 1: \_\_\_\_\_

Motor 1 to Motor 2: \_\_\_\_\_

Exciter: \_\_\_\_\_

## SWB Operations Supervisor Signoff

Minimum 8-Hr runtime after assembly: \_\_\_\_\_

Detail any concerns: \_\_\_\_\_

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