

9/11/92



CONTRACT DOCUMENTS
AND SPECIFICATIONS

FOR

CITY OF NEWBERG
CLARIFIER PAINTING PROJECT
WASTE WATER TREATMENT PLANT
YAMHILL COUNTY

AUGUST 1992

Bert S. Teitzel, P.E.
Director of Public Works

City of Newberg

Contract Change Order No. 4
November 24, 1993

Project: Clarifier Painting Project

Contractor: Evan House Co.

Item of Work: Suspension of Work

SUMMARY OF PROPOSED CHANGE:

1. The Contract is Hereby Changed as Follows:

Work is being suspended due to the onset of inclement weather. Work on Clarifier 2 is completed. The work remaining is for painting Clarifier 3.

A notice to proceed will be issued next year, about June 1, 1994, upon mutual arrangement. It is understood that this project shall be at the top of Evan House's schedule for the 1994 painting season.

Because Change Order 3 was based on painting both Clarifiers 2 and 3 in 1993, Evan House Company shall not be entitled to the cost of demobilizing after Clarifier 2 and remobilizing for Clarifier 3. The adjustment (deduction) for those costs is \$1,680.00.

2. Costs Summary:

Total original contract amount \$27,400

Net change for previous change orders.....\$39,520

Previous total.....\$66,920

Deducted for this change order.....\$ 1,680

Total Contract Amount to Date

(include this change order No. 4) \$65,240.00

Cost for painting Clarifier 3 (time and material not to exceed):
\$29,535 - \$1,680 = \$27,855

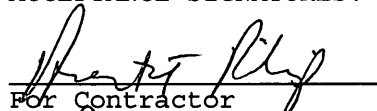
3. Contract Time:

Contract completion date is hereby changed to read:

No Change

All other provisions of the contract documents remain in force.

ACCEPTANCE SIGNATURES:


For Contractor

11/29/93
Date


Duane R. Cole

11/24/93
Date

President
Title

City Manager

City of Newberg

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Contract completion date is hereby changed to read:

No Change

All other provisions of the contract documents remain in force.

ACCEPTANCE SIGNATURES:

For Contractor

Date


Duane R. Cole

11/24/93
Date

Title

City Manager

REQUEST FOR COUNCIL ACTION

*Backy - Org. to
Coun. file
for records*

DATE SUBMITTED: September 22, 1992

X **RESOLUTION**

DATE ACTION REQUESTED: September 22, 1992

SUBJECT: Wastewater Treatment Plant Clarifier Painting Project.

RECOMMENDATION: The Manager recommends that the contract for the Wastewater Treatment Plant clarifier painting project be increased \$9,985 to \$37,385.

BACKGROUND:

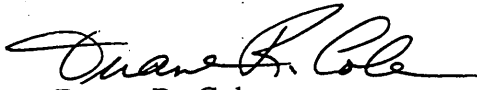
1. The contract specifications were written to: "remove all loose paint and profile the remaining primer." The additional costs came to light once the initial sandblasting effort was completed. By testing areas of the coal tar with a sharp blade, some sections that appeared sound were actually not sound underneath. If these areas are re-tarred, the tar manufacturer would not guarantee the product if the old coal tar remained under the new primer.

2. The contractor gave the City a letter stating that the City's specifications did not require the complete coal tar removal and that it would cost additional money for added sandblasting and primer paint to remove all the coal tar.

The additional cost of this work is \$.30 per square foot for the flat steel surfaces, \$.75 per square foot for the structural steel shapes and \$.18 per square foot on the primer paint coat. The total for the additional work is \$9,985.

FISCAL IMPACT: This increases the low bid by Evan House Company from \$27,400 to \$37,385. The next low bid by Pacific Painting was \$37,840. Both companies bid the same specifications on the project. Evan House, despite this change order, remains the low bid. Funds are budgeted in the sewer fund for this required maintenance.

SUBMITTED BY:


Duane R. Cole
City Manager

\\rcawwtp

RESOLUTION NO. 92-1728

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWBERG, OREGON ACCEPTS CHANGE ORDER NUMBER ONE FOR THE PAINTING OF THE CLARIFIERS AT THE WASTEWATER TREATMENT PLANT FROM EVAN HOUSE COMPANY IN THE AMOUNT OF \$9,985.

WHEREAS, the City has prepared plans for a clarifier painting project and solicited bids in accordance with ORS Chapter 279 on Public Contracts and Purchasing; and

WHEREAS, five bids were received and opened on August 14, 1992, the lowest bid being \$27,400 from Evan House Company Incorporated, Portland, Oregon; and

WHEREAS, the contract specifications did not require the removal of all coal tar in order to assure that the paint applied by Evan House Company would be guaranteed; and

WHEREAS, Evan House Company is a qualified contractor and is capable of performing the work in the contract.

NOW, THEREFORE BE IT RESOLVED, by the Council of the City of Newberg, Oregon, as follows to-wit:

1. The City Council acting as Contract Review Board for the City does hereby authorize a change order in the amount of \$9,985 for the clarifier painting project to Evan House Company of Portland, Oregon. The total amount of the contract is amended to be \$37,385.

ADOPTED by the City Council of the City of Newberg, Oregon, this 22nd day of September, 1992.

Duane R. Cole - City Recorder

REQUEST FOR COUNCIL ACTION

DATE SUBMITTED: August 24, 1992

_____ MOTION

DATE ACTION REQUESTED: September 8, 1992

___X___ RESOLUTION

_____ ORDINANCE

_____ INFORMATION

SUBJECT: WASTE WATER TREATMENT PLANT CLARIFIER PAINTING PROJECT

RECOMMENDATION: I recommend that the contract for the Waste Water Treatment Plant Clarifier Painting Project be awarded to the low bidder, Evan House Company in the amount of \$27,400.00.

COMMITTEE

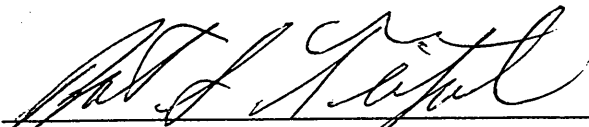
RECOMMENDATION: The Community Development Committee reviewed the bids at their August 20, 1992 meeting. Their recommendation was Evan House Company in the amount of \$27,400.00.

BACKGROUND: The coal tar epoxy coating on the numbers 1 & 2 clarifiers at the Waste Water Treatment Plant have been deteriorating rapidly. The primer in some spots is rusting.

This project includes removal of remaining coat tar, sandblasting the rust spots, repairing and recoating. Several bolts will be replaced.

Bids for the construction of the project were opened August 14, 1992. Five bids were received with the lowest bidder being Evan House Company in the amount of \$27,400.00. A summary of those bids is attached.

COST: The cost to the City will be \$27,400.00.


Bert S. Teitzel, Director of Public Works


Duane R. Cole, City Manager

RESOLUTION NO. 92- 1722

THE CITY COUNCIL OF THE CITY OF NEWBERG, OREGON, ACCEPTS THE LOW BID FOR THE PAINTING OF THE CLARIFIERS AT THE WASTE WATER TREATMENT PLANT FROM EVAN HOUSE COMPANY IN THE AMOUNT OF \$27,400.00.

WHEREAS, the City has prepared plans for a clarifier painting project and solicited bids in accordance with ORS Chapter 279 on Public Contracts and Purchasing; and

WHEREAS, five bids were received and opened on August 14, 1992, the lowest bid being \$27,400.00 from Evan House Company Inc. of Portland, Oregon; and

WHEREAS, Evan House Company is a qualified contractor and is capable of performing the work in the contract.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Newberg, Oregon, as follows, to wit:

1. The City Council, acting as Contract Review Board for the City, does hereby award the bid for the Clarifier Painting Project to Evan House Company of Portland, Oregon in the amount of \$27,400.00.

ADOPTED by the City Council of the City of Newberg, Oregon, this 8th day of August, 1992.

Duane R. Cole, City Manager

III-7

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CLARIFIER PAINTING PROJECT

Evan House Company	\$27,400.00
Pacific Painting	\$37,840.00
Partridge Ind. Coatings	\$48,589.00
F.D. Thomas, Inc.	\$54,400.00
S & K Painting	\$62,200.00

Clarifier Painting Project;

Justification of Change Order #1;

The specifications were written to "... remove all loose paint and profile the remaining primer.". The problem surfaced once the specified sweep sand blast to profile the remaining paint had been done the areas of loose paint was not apparent and the location of more loose (delaminated) paint layers could not be determined. After testing areas that appeared sound with a sharp blade some sections of the coal tar that appeared sound actually were delaminated underneath. The paint manufacturer's representative made an inspection of the site and wrote us a letter stating that he would not guarantee his product if any of the coal tar remained under the new paint.

The contractor gave us a letter stating that our specifications did not call for complete coal tar removal and if we so directed him he wanted additional compensation for the added sand blasting and primer paint. The sand blast consist of upgrading from a Painting Council SP7, brush-off blast to a SP10 ,near-white blast. The blast will be covering the same area of steel but it is much more sever and requires a more abrasive sand, more equipment and man hours.

The contractor estimated there was approximately 30% more surface area of coal tar to be removed. His estimate consist of \$.30/sf for the flat steel surfaces, \$.75/sf for the structural steel shapes, and \$.18/sf on the primer paint coat. The total for the additional work is \$9,985.00. The cost for the extra work appear to be reasonable in view of the additional man hours and upgraded sand blasting.

Original Contract Amount = \$27,400

This Change, #1 = 9,985

Total = \$37,385

William Tutka P.E.
William Tutka P.E., Construction Engineer



EVAN HOUSE CO.

PAINTING CONTRACTORS

Sept. 21, 1992

City of Newberg
Dept. of Public Works
414 E. First St.
Newberg, Or. 97132

Attn: Bill Tutka

Re: Clarifier Painting Project

Dear Bill,

After proceeding with sandblasting per the specifications prepared for the above referenced project it was determined by Tom Selby of Rodda Paint Company that although the remaining coal tar is adhering, it may not adhere satisfactory for the new coatings. To insure a proper job it is recommended that all the coal tar be removed and the surface primed according to the manufacturer's recommendation (1.5 mils) and then finished as specified with the coal tar.

The cost for the change is as follows:

Sandblast the flat steel	6,828 sf	\$ 2,050.00
Sandblast the structural steel	7,235 sf	\$ 5,415.00
apply a full coat of primer	14,063 sf	\$ 2,520.00

Total add is \$ 9,985.00

A prompt reply to this will be greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads 'Wes Wilbur'.

Wes Wilbur



EVAN HOUSE CO.

PAINTING CONTRACTORS

September 18 1992

City of Newberg
Dept. of Public Works
414 E. First St.
Newberg, Or 97132

Attention: Bill Tutka

Re: Clarifier Painting Project

Dear Bill,

After proceeding with sandblasting per the specifications prepared for the above referenced project it was determined by Tom Selby of Rodda Paint Company that, although the remaining coal tar is adhering, it may not adhere satisfactory for the new coatings. To insure a proper job it is recommended that all the coal tar be removed and the surface primed according to the manufacturer's recommendation (1.5 mil) and then finished as specified with the coal tar.

The cost for this change will be \$9,985.00. A prompt reply to this will be greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Wes Wilbur". The signature is fluid and appears to be written in ink.

Wes Wilbur



September 18, 1992

Mr. Wes Wilbur
Evan House Company
1133 SE Umatilla
Portland, Oregon

Re: Adhesion of Coal Tar Epoxy after Abrasive Blasting at
Newberg Clarifier

Dear Wes:

After inspecting the blasted surfaces on the trough in the clarifier at Newberg WWTP on Wynooski Road yesterday, I felt compelled to write this letter. The coal tar remaining, after what I observed to be a thorough sweep blast, is still marginally adhered to the surface. To coat over this coal tar would be inviting delamination failure within a short period of time.

The only safe and right thing to do is remove all coal tar epoxy from the questionable areas and take any bare steel to a near White SSPC-SP10. Then prime all bare areas with Porter International No. 4301 Gray Epoxy Primer, (the same day blasted), to a film thickness of 1.5 mils dry. All new primer must be topcoated within seven days. All old red epoxy primer, that is tightly adhered, should be abraded for adhesion of the topcoat Coal Tar Epoxy Porter No. 7080.

These steps will help insure a longer service life of the system applied. Thank you for the opportunity to help prevent this potential failure. Also, thanks for using Porter International products on this project.

Respectfully,

RODDA PAINT COMPANY

Tom Selby /TS

Tom Selby
Industrial Coatings

TS/smj



September 16, 1992

Mr. William Tutka
c/o City of Newberg
Dept. of Public Works
414 E. First St.
Newberg, OR 97132

Dear Bill:

After my conversation on September 11, 1992, with Mr. Don Griffin in the Technical Service Department of Porter International in Louisville, Kentucky, please accept the following recommendation for painting the interior clarifier:

- Abrasive blast old coal tar coating to remove and profile remaining red primer.
- Take all bare steel areas to SSPC No. 5 "White Metal Blast", and prime with Porter International No. 4301 M.C.R. 43 Epoxy Primer Gray.
- Apply Porter International No. 7080 Tar Set Maxi - Build Coal Tar Epoxy in one or two coats to achieve 16 mils DFT.

Bill, I hope this answers your questions about the clarifier. Thank you for approving Porter International products for this project.

Respectfully,

RODDA PAINT COMPANY


Tom Selby
Industrial Coatings

TS/smj/Tutka

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PROPOSAL

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GENERAL REQUIREMENTS

SPECIAL PROVISIONS

Cleaning and Painting

Other work

CITY OF NEWBERG
CLARIFIER PAINTING PROJECT
Waste Water Treatment Plant
Proposals due 2:00 p.m., August 14, 1992

ADVERTISEMENT FOR BIDS

Sealed proposals for sandblasting and painting two clarifiers at the Waste Water Treatment Plant will be received by Bert S. Teitzel, Director of Public Works, at City Hall, 414 E. First Street, Newberg, Oregon 97132, until Friday, August 14, 1992 at 2:00 p.m. at which time the sealed proposals will be publicly opened and read. The outside of the envelopes shall plainly identify: (1) the project name, (2) the bid opening time and date, and (3) the bidder's name. Proposals submitted after the above specified time shall not be received or opened.

The work to be completed under this contract consists of the following work on Clarifiers No. 1 and 2 at the Waste Water Treatment Plant, 2301 Wynooski Road, in the City of Newberg, Oregon: Sandblasting and painting steel materials inside two clarifiers and performance of such additional and incidental work as is called for by the specifications and plans.

Documents for the above project may be examined or obtained for a nonrefundable fee of \$10 at the office of the Director of Public Works at the above address. The general specifications shall be the 1984 City of Newberg, Oregon Standard Specifications for Public Works Construction. Bidders shall be pre-qualified in accordance with the requirements set forth by the City of Newberg prior to 2:00 p.m. on August 5, 1992. If you have any questions or request information concerning the project, contact William Tutka at 537-1252.

No proposal will be considered unless it contains a statement that the bidder will comply with the provisions required by ORS 279.350, that workmen of public works be paid not less than prevailing rate of wage on contracts of \$10,000.00 or more. Each bid shall contain a statement as to whether the bidder is a resident bidder as defined in ORS 270.029. The contractor or subcontractor does not need to be licensed under ORS 468.A720. Bidders shall comply with all requirements set forth in Chapter 279 and other applicable sections of the Oregon Revised Statutes.

All proposals shall be submitted on the prescribed form and in the manner as indicated in the General Provisions and shall be accompanied by a certified or cashier's check or bid bond in the amount of 10 percent of the total amount of the proposal. The bid bond shall be issued by a surety authorized and licensed to issue such bonds in the State of Oregon, conditioned that the successful bidder will pay the City of Newberg as liquidated damages, the amount specified in the bond, unless the bidder enters into a contract with the bidder's proposal and furnishes an insurance certificate and a performance bond with surety satisfactory to the City of Newberg in an amount equal to 100 percent of the contract price within ten days from the date of notification to successful bidder. If the bidder fails to enter into the contract and furnish the performance bond within the above specified time, the check (or bid bond) and the amount thereof shall be forfeited to the City of Newberg. The City of Newberg reserves the right to award a contract to the firm submitting the most qualified proposal; to postpone the acceptance of the proposal and the award of contract for a period not to exceed 30 days; or to reject any and all proposals received.

BID

PLACE: CITY OF NEWBERG, OREGON

PROJECT: 1992 CLARIFIER PAINTING PROJECT

TO: MAYOR AND CITY COUNCIL
CITY OF NEWBERG, OREGON
414 E. FIRST ST.
NEWBERG, OREGON 97132

The undersigned, hereinafter called the Bidder, in compliance with your advertisement for bid offers to enter into a Contract with the City of Newberg, Oregon, hereinafter referred to as the Owner, to furnish all labor, materials, equipment, supplies and machinery to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below.

The Bidder declares that he has carefully examined the plans and specifications with related documents, that he has personally inspected the site of the proposed work; that he has satisfied himself as to the quantities involved including materials and equipment, and is familiar with all of the conditions surrounding the construction of the proposed project including availability of materials and labor.

The Bidder further declares that the Bid is made according to the provisions and under the terms of the Contract Documents, which are hereby made a part of this Bid, and that the prices below are to cover all expenses incurred in performing the work required under the Contract Documents of which this Bid is a part.

The Bidder agrees that if this Bid is accepted, he will, within ten calendar days after notification of acceptance, execute the Contract with the Owner; and will at that time deliver to the Owner the Performance and Payment Bond and insurance documents required herein, and will, to the extent of his Bid, furnish all labor, equipment and materials necessary to complete the work in the manner, in the time, and according to the methods as specified in the Contract Documents and required by the Director of Public Works.

The Bidder further agrees to begin work within ten calendar days after receipt of written "Notice to Proceed" of the owner and to fully complete the project according to the time table in the Special Provisions. Bidder further agrees to pay as liquidated damages, the sum of one hundred and fifty dollars (\$150.00) for each consecutive calendar day thereafter until the work shall have been finished. Sundays and legal holidays shall be excluded in determining days in default.

Contract DocumentsClarifier Painting

The Bidder further proposes to accept as full payment for the work proposed herein the amounts computed under the provisions of the Contract documents and based on the following schedule of lump sum or unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved. The Bidder agrees that the lump sum prices and unit prices represent a true measure of the labor and materials required to perform the work, including all allowances for overhead and profit for each type and unit of work called for in these Contract Documents.

The undersigned Bidder hereby agrees that the provisions of ORS 279.348 to 279.356 will be complied with, so that the undersigned Bidder and Bidder's subcontractors will pay to their employees not less than the specified minimum prevailing rate of wage as determined by the Oregon Commissioner of the Bureau of Labor and Industries, and further agrees to pay such wages not less than once per week.

Bid Schedule

CITY OF NEWBERG
1992 Clarifier Painting Project
Bid Schedule

CLARIFIER NO. 1

Sandblasting and Painting
Bolt Replacement

Lump Sum	\$ 13,000.00
20 each at \$ 35.00	\$ 700.00

Subtotal: \$ 13,700.00

CLARIFIER NO. 2

Sandblasting and Painting
Bolt Replacement

Lump Sum	\$ 13,000.00
20 each at \$ 35.00	\$ 700.00

Subtotal: \$ 13,700.00

Total for Clarifier 1 and 2: \$ 27,400.00

The above unit prices shall include all labor, materials, equipment, tools, overhead, profit, insurance, etc., to complete the work called for.

It is agreed that if the Bidder is awarded the Contract for the work herein proposed and shall fail or refuse to execute the Contract and furnish the required Performance and Payment Bond within the time herein proposed, then, in that event, the bid security deposited herewith shall be retained by the Owner as liquidated damages.

The Bidder understands that the Owner may reject any or all bids and waive any informalities in the bidding.

Contract Documents

Clarifier Painting

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving bids.

The Bidder acknowledges receipt of the following addendum.

NO. 1 ONE DATE 8/10/92 NO. _____ DATE _____
NO. _____ DATE _____ NO. _____ DATE _____

The name of the Bidder submitting this Proposal is _____

EVAN HOUSE CO. doing business at
1133 SE UMATILLA, PORTLAND, OR, 97202
Street City State Zip

which is the address to which all communications shall be sent.

EXPLORER

INSURANCE *Company*

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, **EVAN HOUSE CO.**

as Principal, hereinafter called the Principal, and **EXPLORER INSURANCE COMPANY**

a corporation duly organized under the laws of the State of **ARIZONA**

as Surety, hereinafter called the Surety, are held and firmly bound unto **CITY OF NEWBERG**

as Obligor, hereinafter called the Obligor, in the sum of **TEN PERCENT OF TOTAL AMOUNT BID * * * ***
Dollars (\$ 10% OF AMOUNT BID),

for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for **CLARIFIER CLEANING AND PAINTING**

NOW, THEREFORE, if the Obligor shall accept the bid of the Principal and the Principal shall enter into a contract with the Obligor in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or contract documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such contract and give such bond or bonds, if the Principal shall pay to the Obligor the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligor may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this **10TH** day of **AUGUST** A.D. 19 **92**

Delene T. Windsor (Witness)
} EVAN HOUSE CO. *Frank T. Kilg* (Principal) (Seal)
BY: PRESIDENT (Title)
} EXPLORER INSURANCE COMPANY (Surety) (Seal)
[Signature] (Witness)
} *Kelly M. Niemela* KELLY M. NIEMELA Attorney in fact

The Explorer Insurance Company

HOME OFFICE: SAN DIEGO, CALIFORNIA

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE EXPLORER INSURANCE COMPANY, a Corporation duly authorized and existing under the laws of the State of ARIZONA and having its principal office in the City of San Diego, California, does hereby nominate, constitute and appoint:

Kelly M. Niemela

Its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver any and all bonds, undertakings, recognizances or other written obligations in the nature thereof.

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of THE EXPLORER INSURANCE COMPANY at a meeting duly called and held on the 16th day of AUGUST, 1991, which said Resolution has not been amended or rescinded and of which the following is a true, full, and complete copy:

"RESOLVED, that the Chairman of the Board, the President, an Executive Vice President or a Senior Vice President of the Company, be, and that each or any of them is, authorized to execute Powers of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company, bonds, undertakings, and all contracts of suretyship; and that a Vice President, an Assistant Vice President, a Secretary or an Assistant Secretary be, and that each or any of them hereby is, authorized to attest the execution of any such Power of Attorney, and to attach thereto the seal of the Company.

FURTHER RESOLVED, that the signatures of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

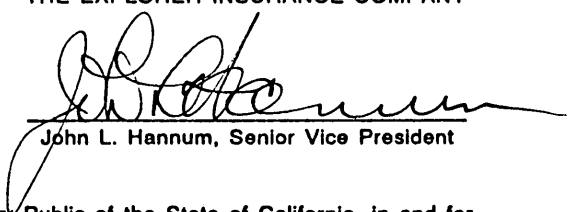
FURTHER RESOLVED, that the Attorney-in-Fact may be given full power to execute for and in the name of and on behalf of the Company any and all bonds and undertakings as the business of the Company may require, and any such bonds or undertakings executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed by an authorized officer of the Company."

IN WITNESS WHEREOF, THE EXPLORER INSURANCE COMPANY has caused its official seal to be hereunto affixed and these presents to be signed by its duly authorized officers this 3rd day of August, 1992



THE EXPLORER INSURANCE COMPANY

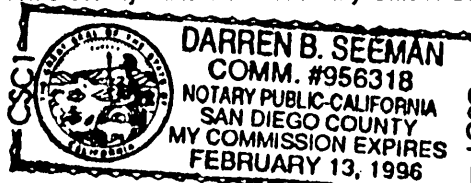
STATE OF CALIFORNIA
COUNTY OF SAN DIEGO SS:


John L. Hannum, Senior Vice President

On this 3rd day of August 1992 before the subscriber, a Notary Public of the State of California, in and for the County of San Diego, duly commissioned and qualified, came John L. Hannum, Senior Vice President of THE EXPLORER INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding Instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposeth and saith, that he is the said officer of the Corporation aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of the said Corporation, and that the said Corporate Seal and his signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the City of San Diego, the day and year first above written.

STATE OF CALIFORNIA
COUNTY OF SAN DIEGO SS:



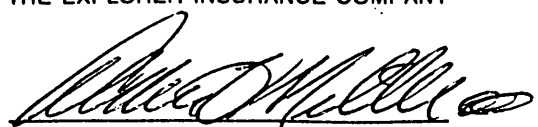

Notary Public

I, the undersigned, Alden F. Miller III, Assistant Vice President of THE EXPLORER INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a full, true and correct copy, is in full force and effect, and has not been revoked.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Vice President, and affixed the Corporate Seal of the Corporation, this 10th day of August 1992



THE EXPLORER INSURANCE COMPANY


Alden F. Miller, III
Assistant Vice President

CONTRACT FOR CONSTRUCTION

THIS CONTRACT, made and entered into this 11 day of SEPTEMBER, 1992, by and between the CITY OF NEWBERG, OREGON, a municipal corporation, hereinafter called the "OWNER", and EVAN HOUSE CO

of PORTLAND OREGON, AN OREGON
CORPORATION

hereinafter called the "CONTRACTOR".

WITNESS:

Said Contractor, in consideration of the sum to be paid him by the said Owner and of the covenants and agreements herein contained, hereby agrees at his own proper cost and expense to do all the work and furnish all the materials, tools, labor, and all appliances, machinery and appurtenances for the 1992 Clarifier Painting Project to the extent of the Bid made by the Contractor on the 14th day of August, 1992, all in full compliance with Contract Documents referred to herein.

The Advertisement for Bid, the signed copy of the Bid made by the Contractor, the fully executed Performance and Payment Bond, the General Provisions, the Technical Provisions, and the Special Provisions, are hereby referred to and by reference made a part of this Contract as fully as if the same were completely set forth herein.

In consideration of the faithful performance of the work herein embraced, as set forth in these Contract Documents, and in accordance with the direction of the Director of Public Works and to his satisfaction to the extent provided in the Contract Documents, or as otherwise herein provided and based on the said Bid made by the Contractor, and to make such payments in the manner at the times provided in the Contract Documents.

The Contractor agrees to complete the work within the time specified herein and to accept as full payment hereunder the amounts computed as determined by the Contract Documents and based on the said Bid.

The Contractor agrees to indemnify and save harmless the Owner from any and all defects appearing or developing in the materials furnished and the workmanship performed under this Contract for a period of one year or such other time as applicable law may allow after the date of acceptance of the work in the Contract by the Owner.

In the event that the Contractor shall fail to complete the work within the time limits or the extended time limit agreed upon, as more particularly set forth in the Contract Documents, liquidated damages shall be paid at the rate of One Hundred and Fifty Dollars per consecutive calendar day. Sundays and legal holidays shall be excluded in determining days in default.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed the day and year first herein above written.

CITY OF NEWBERG, OREGON

Dianne R. Cole
By
City Manager
Title

CONTRACTOR

Grant T. Rip
EVAN HOUSE CO.
By
PRESIDENT
Title

Approved as to form

[Signature]
City Attorney

PERFORMANCE - PAYMENT BOND

BOND NO. 123 83 42

KNOW ALL MEN BY THESE PRESENTS: That we

EVAN HOUSE CO.

A CORPORATION hereinafter called
(Corporation, Partnership, or Individual)

"Principal" and THE EXPLORER INSURANCE COMPANY of LAKE OSWEGO

State of OREGON, hereinafter called "Surety", are held
firmly bound unto the City of Newberg, Oregon, hereinafter called "Owner" in
the penal sum of TWENTY SEVEN THOUSAND FOUR HUNDRED DOLLARS AND NO/100THS****

***** Dollars (\$27,400.00*****) in lawful money of the
United States, for the payment of which sum well and truly to be made, we bind
ourselves, our heirs, executors, administrators, and successors, jointly and
severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered
into a certain contract with the Owner, dated this 11 day of SEPT., 1992,
a copy of which is hereto attached and made a part hereof for the construction
of the 1992 Clarifier Painting Project.

NOW THEREFORE, if the Principal shall well, truly and faithfully perform its
duties, all the undertakings, covenants, terms, conditions, and agreements of
said contract during the original term thereof, and any extension thereof
which may be granted by the Owner, with or without notice to the Surety, and
if he shall fully indemnify and save harmless the Owner from all costs and
damages which it may suffer by reason of failure to do so, and shall reimburse
and repay the Owner all outlay and expense which the Owner may incur in making
good any default, and shall promptly make payment to all persons, firms,
subcontractors, and corporations furnishing materials for or performing labor
in the prosecution of the work provided for in such contracts and any
authorized extension or modification thereof, including all amounts due for
materials, lubricants, oil, gasoline, coal and coke, repairs on machinery,
equipment and tools consumed or used in connection with the construction of
such work whether by subcontractor or otherwise, then this obligation shall be
void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates
and agrees that no change, extension of time, alteration or addition of the
terms of the contract or the work to be performed thereunder or the
specifications accompanying the same shall in any way affect its obligation on
this bond, and it does hereby waive notice of any such change, extension of
time, alteration or addition to the terms of the contract or to the work or to
the specification.

PROVIDED, FURTHER, that no final settlement between the Owner and the
Contractor shall abridge the right of any beneficiary hereunder, whose claim
may be unsatisfied.

Contract Documents

Clarifier Painting

IN WITNESS WHEREOF, this instrument is executed this the 3RD day of SEPTEMBER 1992.

EVAN HOUSE CO.

Principal

Wesley Wilbur
(Principal) Secretary

By

Agent T. King
1133 SE UMATILLA ST
(Address - Zip Code) 97202

(SEAL)

Deedul Waleh
Witness as to Principal

1133 SE UMATILLA ST.
(Address - Zip Code) 97202

ATTEST

THE EXPLORER INSURANCE COMPANY

Surety

(Surety) Secretary

By

Kelly M. Niemela
Attorney-in-fact KELLY M. NIEMELA
ONE CENTERPOINTE DRIVE SUITE #530
LAKE OSWEGO, OREGON 97034
(Address - Zip Code)

(SEAL)

Jeffery A. Draper
Witness as to Surety JEFFERY A. DRAPER
ONE CENTERPOINTE DRIVE SUITE 530
LAKE OSWEGO, OREGON 97034
(Address - Zip Code)

Note: Date of Bond must not be prior to the date of Contract. If Contractor is Partnership, all partners should execute bond.

ABCDEF

CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

09/10/92

PRODUCER

Bieker Agency, Inc.
P.O. Box 16498
9828 E. Burnside, Suite 300
Portland, OR 97216

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A Valley Insurance Company

COMPANY LETTER B

COMPANY LETTER C

COMPANY LETTER D

COMPANY LETTER E

INSURED

Evan House Co.
1133 SE Umatilla Street
Portland, OR 97202

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO CTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☒ OCCUR. ☒ OWNER'S & CONTRACTOR'S PROT. ☒ PD Ded:1000	CP065353	04/16/92	04/16/93	GENERAL AGGREGATE \$ 2,000,000 PRODUCTS-COMP/OP AGG. \$ 2,000,000 PERSONAL & ADV. INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 50,000 MED. EXPENSE (Any one person) \$ 5,000
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ☒ NON-OWNED AUTOS ☐ GARAGE LIABILITY	CP065353	04/16/92	04/16/93	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
A	EXCESS LIABILITY ☒ UMBRELLA FORM ☐ OTHER THAN UMBRELLA FORM	CU010285	04/16/92	04/16/93	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY LIMITS EACH ACCIDENT \$ DISEASE-POLICY LIMIT \$ DISEASE-EACH EMPLOYEE \$
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

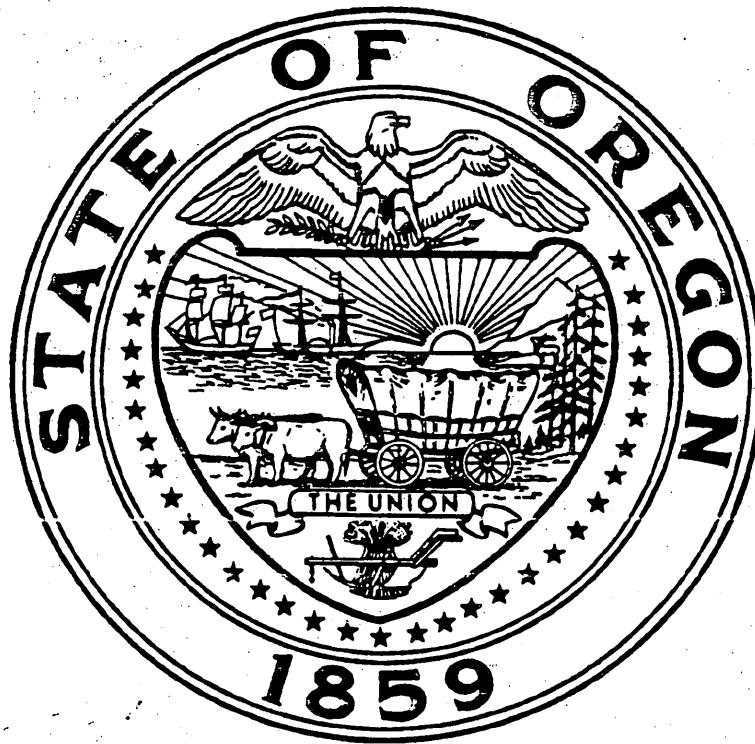
City of Newberg; Dept of Public
Works
114 E 1st Street
Newberg, OR 97132

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 030 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

PREVAILING WAGE RATES
for
Public Works Contracts in Oregon



BOLI

Mary Wendy Roberts
Commissioner
Bureau of Labor and Industries

Effective July 1, 1992



MARY WENDY ROBERTS
COMMISSIONER

July 1, 1992

This booklet contains the Prevailing Wage Rates for the building and construction trades in the State of Oregon. These rates are effective July 1, 1992. These rates have been amended in accordance with ORS 279.348 through ORS 279.365.

Prevailing Wage Rates are the minimum wages that must be paid to all workers employed in the construction, reconstruction, major renovation or painting of any public works. Copies of these rates must be incorporated into all bid specifications when the advertisement for a public works contract is issued. A provision that Prevailing Wage Rates be paid must also be put in the contract. The rates in effect at the time the bid specifications are first advertised are those that apply for the duration of the project, with one exception; if during the bidding process the Prevailing Wage Rates change, the public contracting agency has the option of amending the bid specifications to reflect such changes.

If you identify any errors in the rates published, please bring them to the attention of the Prevailing Wage Rate Coordinator in Portland (731-4466). If you have any questions about the manner in which the Prevailing Wage Rates are enforced, contact the Wage and Hour Division in Portland (731-4074 x233).

MARY WENDY ROBERTS
Commissioner
Bureau of Labor and Industries

PORTLAND 800 NE Oregon St. #32 Portland, OR 97232 (503) 731-4200 FAX (503) 731-4069	EUGENE 165 E 7th Street, Suite 220 Eugene, OR 97401 (503) 686-7623 FAX (503) 686-7980	PENDLETON 721 SE 3rd, Suite 2 PO Box 730 Pendleton, OR 97801 (503) 276-7884 FAX (503) 276-2950	BEND 1250 NE 3rd, Suite B105 Bend, OR 97701 (503) 388-6330 FAX (503) 388-6273	MEDFORD 700 E Main, Suite 105 Medford, OR 97504 (503) 776-6270 FAX (503) 776-6270
SALEM 3865 Wolverine St. NE; E-1 Salem, OR 97310 (503) 373-1447 FAX (503) 373-7636		COOS BAY 320 Central Ave., Suite 510 Coos Bay, OR 97420 (503) 269-4575 FAX (503) 267-3194		

AN EQUAL OPPORTUNITY EMPLOYER

ANNOUNCEMENT

The Prevailing Wage Rates contained in this booklet generally reflect those rates determined for Oregon by the Secretary of Labor of the United States pursuant to the Davis-Bacon Act; certain changes have been made to better reflect prevailing practices in Oregon. Pursuant to ORS 279.348 to ORS 279.365, these rates have been adopted for use on public works contracts in Oregon. If you have specific questions regarding how rates are determined or if you would like a copy of this booklet, please contact:

Prevailing Wage Rate Coordinator
Bureau of Labor and Industries
Support Services Division
800 NE Oregon St. # 32
Portland, OR 97232
(503)731-4466

The first copy is free. Additional copies are available for \$2.00 each.

GENERAL INFORMATION

Information in this section and in the "Commonly Asked Questions" is meant to provide a convenient reference to Oregon's Prevailing Wage Rate Law. It is in no way a complete statement of the laws and rules.

If you have questions about the enforcement of Prevailing Wage Rates, please contact the Wage and Hour Division. Division offices may be reached at the following phone numbers:

Bend	388-6330
Eugene	686-7623
Medford	776-6201
Pendleton	276-7884
Portland	731-4466
Salem	378-3292

Apprentices and Trainees

Apprentices and trainees may be employed on public works projects. To qualify as an apprentice or trainee, the worker must be registered in a bona fide apprenticeship or training program of the U.S. Department of Labor, Bureau of Apprenticeship and Training (BAT) or with any State Apprenticeship and Training Agency recognized by BAT. For information call 731-4072. The apprentice or trainee is to receive all fringe benefits and a percentage of the journeyman's wage rate which is listed in this booklet. This rate may be different than the rate contained in the Apprenticeship Standards for the trade. The correct percentage shall be determined by the appropriate apprenticeship or training committee. All other workers must receive rates as published.

Zone Pay

In certain trades, the basic hourly rate of pay progressively increases based upon the distance between the job site and a designated landmark; this is commonly referred to as zone pay. To determine the hourly wage, find the correct zone based on the number of road miles the job site is from the closest designated city (based either on distance from city hall or from geographical center of the city, depending on the trade) and add the amount for that zone to the basic hourly rate. Zone pay, unlike travel pay, is the basic hourly wage upon which overtime is computed.

Bid Specifications

The specifications for every public works contract must include the current Prevailing Wage Rates in effect at the time the specifications are first advertised. A statement incorporating the existing rates by reference will not satisfy this requirement (ORS 279.352).

NOTE: If a public agency fails to include the Prevailing Wage Rates in the contract specifications or fails to include in the contract the provision that Prevailing Wage Rates must be paid, the liability for any unpaid prevailing wages could be exclusively that of the agency.

Fringe Benefits

Payments for fringe benefits are in addition to the basic hourly rate. The term "fringe benefits" refers to the payments such as:

- a) medical or hospital care; pensions on retirement or death; compensation for injuries or illness resulting from an occupational activity, or insurance to provide any of the foregoing;
- b) unemployment benefits, life insurance, disability and sickness insurance or accident insurance;
- c) vacation and holiday pay;
- d) defraying costs of apprenticeship or other similar programs; and
- e) other such bona fide benefits.

NOTE: For the purpose of Prevailing Wage Rates, fringe benefits do not include any benefits which may be required by federal, state or local law (e.g. Workers' Compensation, Unemployment Insurance, etc.).

Fringe benefits may be paid to the worker in cash or to a third party administering a fringe benefit program. When an hourly rate in excess of the required prevailing base rate is paid, the amount by which the rate is exceeded may be credited toward payment of fringe benefits.

Overtime

Workers employed on a public works job for more than eight hours in a day or 40 hours in a week must be paid overtime for each additional hour so worked (ORS 279.334). Overtime is calculated at no less than one and one-half times the basic hourly rate as determined by the Commissioner of Labor (not including fringe benefits which are paid at the straight rate for every hour worked). In the computation of overtime, travel pay does not need to be included but zone pay differentials do.

Work performed on Saturday, Sunday or legal holidays must also be compensated at time and one-half. Legal holidays for purposes of Prevailing Wage Rates include the following: 1) New Year's Day on January 1; 2) Memorial Day on the last Monday in May; 3) Independence Day on July 4; 4) Labor Day on the first Monday in September; 5) Thanksgiving Day on the fourth Thursday in November; 6) Christmas Day on December 25.

NOTE: Contractors who are signatory to a collective bargaining agreement may be subject to different overtime requirements (ORS 279.334[3]).

Certification of Payroll

The law requires every contractor and subcontractor to file certain information on wages paid to each worker employed on a public works contract. This statement must completely and accurately reflect payroll records for the work week immediately preceding the submission. A contractor or subcontractor must complete and submit the certified statement contained on Form WH-38 as well as the information required on the weekly payroll side of the form. A copy of Form WH-38 and instructions for completing it are included in the back of this booklet; xeroxed copies may be used for filing.

The schedule for submitting payroll information is as follows: Once within 15 days of the date the contractor or subcontractor first began work on the project; once before the final inspection of the project by the public contracting agency; in addition, for projects exceeding 90 days, submissions are to be made at 90 day intervals. Payroll information is to be filed with both the public contracting agency and the Wage and Hour Division, Bureau of Labor and Industries, 800 NE Oregon St. # 32, Portland, Oregon 97232. The payroll information must be kept by the contractor and or subcontractor for three years.

COMMONLY ASKED QUESTIONS

1) What are "Prevailing Wage Rates?"

A prevailing wage rate is the minimum wage, including fringe benefits, to be paid workers employed on contracts for public works. Different rates are established for specific trades and specific geographical areas.

2) Who must be paid "Prevailing Wage Rates?"

All employees of a contractor or subcontractor engaged on a public works project when the total price of the project is \$10,000 or more must receive at least the Prevailing Wage Rate (PWR) for time worked on the project, unless otherwise exempt.

Supervisory and office/clerical employees are not required to be paid the PWR. A person who owns and operates his/her own truck on construction projects (Owner/Operator) is not required to be paid the PWR.

3) What about contracts when Federal funds are used?

When more than \$2,000 of federal funds are involved, the contract is usually subject to the provisions of the Davis-Bacon Act, not Oregon statutes. Further information may be obtained from the U.S. Department of Labor, Wage and Hour Division, Portland, Oregon (326-3057). However, in the event that federal funds are involved, but the contract is not regulated under Davis-Bacon, Oregon's Prevailing Wage Rates Statutes may apply (ORS 279.348 - 279.365).

4) I don't have a pension fund. How do I calculate fringe benefits?

Workers must receive at a minimum the sum of the basic hourly rate plus all fringe benefits for each hour worked on a public works contract. Fringe benefits may be paid either to a third party trust account or in cash directly to the worker.

5) My employees receive health benefits. Do I get credit for the health benefit when I prepare my payroll on a public works project?

Yes. Any expenditures an employer makes for bona fide employee benefits can be charged against the fringe benefit payments designated in the Prevailing Wage Rate Booklet. To learn how to compute the correct hourly charge, call the Wage and Hour Division (731-4074).

6) What if the employees are not paid on an hourly basis?

All workers must receive at least the basic hourly rate of wage and fringe benefits for each hour worked on the project. If an employee is paid other than on an hourly basis, the equivalent hourly rate (for both wages and fringe benefits) must still be at least equal to the rates published.

7) How do I classify workers?

Virtually all of the job classifications/trades normally used in the construction industry are represented by the job classifications used in this PWR publication. These classification titles should be used according to common practice. Try to fit your workers into existing classifications. If you have questions about how to classify workers, contact the Wage and Hour Division at 731-4074 in Portland or at one of the offices listed on page 1 of this booklet.

Laborers who do basic work requiring no specific skills, training, or knowledge are generally classified as Group 1 Laborers.

(Note that Landscapers are classified as Laborers, and Ornamental Ironworkers are classified as Ironworkers.)

COMMONLY ASKED QUESTIONS (Continued)

8) When are new rates determined? How long are they effective?

Prevailing Wage Rates are determined once each year by the Commissioner of the Bureau of Labor and Industries. The Commissioner may amend the rates at any time. The rates are usually amended at least once each year. The rates in effect at the time the bid specifications are first advertised are those that apply for the duration of the contract, with one exception. If during the bidding process the prevailing wage rate changes, the public contracting agency (not the contractor) has the option of amending the bid specifications to reflect such change.

9) How do I post Prevailing Wage Rates?

Every contractor or subcontractor employing workers on a public works project is required to post the applicable Prevailing Wage Rates in a conspicuous and accessible place in or about the work-site. Rates need to be posted for the duration of the job. Contractors and subcontractors who intentionally fail to post the PWR can be made ineligible to receive any public works contract for up to three years.

10) What can I do about a contractor who is not complying with Oregon's PWR law?

File a complaint with the nearest office of the Oregon Bureau of Labor and Industries or contact the Wage and Hour Division, Bureau of Labor and Industries, 800 NE Oregon St. # 32, Portland, Oregon 97232 (731-4074). Other Bureau offices are located in Bend (388-6330), Coos Bay (269-4575), Eugene (686-7623), Medford (776-6201), Pendleton (276-7884) and Salem (378-3292). You may also complain to the contracting agency, which has the contractual authority to pay PWR claims directly to a contractor's or subcontractor's workers (ORS 279.314).

11) What happens to contractors who do not comply with PWR statutes?

Contractors and subcontractors who pay less than the Prevailing Wage Rates may be liable to the workers affected for the amount found due plus an equal amount as liquidated damages (ORS 279.356). Contracting agencies also have the contractual authority to withhold payments due or to be due to the contractor or subcontractor in order to pay the unpaid prevailing wages directly to the worker (ORS 279.314).

Contractors and subcontractors who intentionally refuse to pay the Prevailing Wage Rate to workers employed on public works or to post the PWR on the job site may be determined to be ineligible to receive any public works contracts for a period of up to three years (ORS 279.361). Workers employed by the contractor or subcontractors have a right of action against the surety of the prime contractor for any unpaid prevailing wages.

A list is kept of all contractors, subcontractors, and other persons ineligible to receive public works contracts and subcontracts. When a contractor or subcontractor is a corporation, the individual officers and agents of the corporation can be debarred in addition to the corporation. As a result, individuals who intentionally fail to pay or post the PWR are prevented from simply moving from one corporation to another.

In addition, Chapter 323, Oregon Laws 1991, provides that any person that loses a competitive bid for a construction contract may bring an action for damages against the person who is awarded the contract, if the losing bidder can establish that the winner has knowingly violated any one of several laws, including the requirement to pay Prevailing Wage Rates while performing work under the contract. The losing bidder is entitled to recover, as liquidated damages, 10% of the losing bid amount, or \$5,000, whichever is greater, plus reasonable attorney fees.

COMMONLY ASKED QUESTIONS (Continued)

12) How much do I pay apprentices?

To qualify as an apprentice, the worker must be registered in a bona fide apprenticeship program of the U.S. Department of Labor, Bureau of Apprenticeship and Training (BAT) or with any State Apprenticeship Agency recognized by BAT. For information call 731-4072. The apprentice is to receive all fringe benefits and a percentage of the journeyman's wage rate as listed in this booklet. This rate may be different than the rate contained in the Apprenticeship Standards for the trade. The correct percentage shall be determined by the appropriate apprenticeship committee. All other workers receive rates as published.

13) What records must I keep? For how long?

Contractors and subcontractors are required to keep records necessary for determining if Prevailing Wage Rates were paid. These records must include the Payroll and Certified Statement Form (WH-38) as well as the following: The name and address of each employee; the work classification(s) of each employee; the rate(s) of wages and fringe benefits paid to each employee; the rate(s) of fringe benefit payments made in lieu of those required to be provided to each employee; total daily and weekly compensation paid to each employee; daily and weekly hours worked by each employee; apprenticeship and training agreements; any payroll and other such records pertaining to the employment of employees upon a public works contract.

These need to be kept for a period of three (3) years from the completion of the public work contract. Records relating to public works contracts must be maintained separately from records relating to private projects/contracts.

14) What forms are public agencies required to file with the Bureau of Labor and Industries?

Public agencies are required to prepare and file a list of every public improvement that the agency intends to fund during the subsequent budget period with the Commissioner of the Bureau of Labor and Industries (ORS 279.023[2]). If, after the original filing, the agency plans additional public improvements, a revised list is to be submitted (OAR 839-16-008[2]).

The "Notice of Award of Public Works Contract" is to be filed with the Wage and Hour Division within 30 days of the date when a contract is awarded which requires the payment of Prevailing Wage Rates (i.e., is regulated under ORS 279.348 to 279.365).

Copies of the "Planned Public Improvement Summary" (Form No. WH-118), the "Capital Improvement Project Cost Comparison Estimate" (WH-119), and the "Notice of Award of Public Works Contract" (WH-81) can be found at the back of this booklet.

15) Does a contracting agency have any power to enforce payment of Prevailing Wage Rates on its public works projects?

Yes. According to ORS 279.314, all public contracts for work or services must contain a clause or condition permitting the contracting agency to pay a worker's past due wage claim, charging the payment against funds due or to become due to the contractor.



NOTE

Form WH 81 "Notice of Public Works Contract" has been changed. Please use the revised form which is located on the inside back cover of this booklet. New rates for the following classifications were not available when this publication went to print:

Asbestos Workers, Hazardous Materials Handler
Drywall/Wetwall
Electricians Area 2
Glaziers Area 1
Roofers Area 1
Sheetmetal Workers Areas 3, 4 and 5

An addendum to this booklet will be published as soon as this information is available. Until such addendum is issued, the rates as shown in this booklet are correct for any Oregon Prevailing Wage Rate project advertised for bid after June 30, 1992.

Significant changes to be aware of:

LABORERS

Group 6 Laborer has been merged with Group 1 Laborer. As a result, "Landscape or Planting Laborer" and "Fence Builder" are now found under Group 1 Laborer.

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
<u>ASBESTOS WORKERS</u>			<u>BRICKLAYERS/STONEMASONS</u>		
<u>Installation</u> of insulation on mechanical systems*			Area 1 (add \$0.75 per hour to Fringe for Refractory repair work.)		
Journeyman Asbestos Worker			Area 2 (add \$0.75 per hour to Fringe for Refractory repair work.)		
o Projects in buildings which are not used for manufacturing, manufacturing services or similar processes (Offices, schools, laboratories, etc.)	18.70	5.25	Area 1		
o Projects in buildings which are used for manufacturing, manufacturing services and similar processes (water treatment plants, electrical generating plants, road maintenance shops, etc.)	20.05	5.25	Baker	Hood River	Multnomah
			Benton (a)	Lincoln (a)	Polk
			Clackamas	Linn (a)	Sherman
			Clatsop	Malheur (a)	Tillamook
			Columbia	Marion	Umatilla
			Gilliam	Morrow	Union
			Area 2		
			Benton (b)	Douglas	Josephine
			Crook	Grant	Klamath
			Coos	Harney	Lake
			Curry	Jackson	Lane
			Deschutes	Jefferson	Lincoln (b)
			a) North half		
			b) South half		
<u>Removal</u> of insulation on mechanical systems* which are not going to be scrapped.**			<u>CARPENTERS</u>		
o Hazardous Materials Handler Mechanic (in any type of project regardless of value)	12.31	3.10	Under the following circumstances a rate lower than the basic hourly rate may be used for carpenters:		
* Mechanical systems include pipes, boilers, ducts, flues, breechings, etc.			The lower rate applies to all public works projects of less than \$750 thousand involving construction, reconstruction, major renovation or painting. In determining the \$750 thousand figure, do include the cost of all surfacing and paving, but do not include the cost of underground utilities (i.e., the amount of the contract dedicated to facilities for electricity, water, gas, sewerage including storm water, and communications) which are five feet or more outside of and away from any building, bridge or dock which is a part of the project, and are subordinate and incidental to the major purpose of the project.		
** The removal of all insulation materials from mechanical systems is exclusively the work of Asbestos Workers, unless the mechanical systems are going to be scrapped. It does not matter whether the insulation materials contain asbestos. <u>Laborers do all removal of insulation materials on mechanical systems to be scrapped and any non mechanical (walls, ceilings, floors, beams, etc.) insulation.</u> They also do loading of any insulation materials that have already been removed, bagged and tagged, as well as cleanup at the removal site and all work done at the disposal site. Laborers performing asbestos removal are classified as Group 3 laborers.			NOTE: In determining whether or not the lower rates are applicable, consider the total project cost, and not the cost of any individual contract (or schedule) within that project.		
<u>BOILERMAKERS</u>					
	22.07	6.16			

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
--------	-------------------------	--------------------	--------	-------------------------	--------------------

CARPENTERS (See above for explanation of when the lower rates may be used)

	LESS THAN		
	100%	100%	
Zone 1 (Base Rate):			
o Group 1	16.89	19.87	4.57
o Group 2	17.01	20.02	4.57
o Group 3	17.34	20.37	4.57
o Group 4	17.46	20.52	4.57
o Group 5	17.37	20.37	4.57
o Group 6	17.45	20.52	4.57
o Group 7	17.87	20.87	4.57

Zone Differential for Carpenters
(Add to Zone 1 Rate)

Zone 2	.85
Zone 3	1.25
Zone 4	1.70
Zone 5	2.00
Zone 6	3.00

Zone 1: Projects within 30 miles of City Hall in the Cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 60 miles.

Zone 5: More than 60 miles but less than 70 miles.

Zone 6: More than 70 miles.

Reference cities for Group 1 and 2 Carpenters

Albany	Eugene	Longview	Portland
Astoria	Goldendale	Madras	Port Orford
Baker	Grants Pass	Medford	Reedsport
Bend	Hermiston	McMinnville	Roseburg
Brookings	Hood River	Newport	Salem
Burns	Klamath Falls	Oregon City	The Dalles
Coos Bay	LaGrande	Ontario	Tillamook
Corvallis	Lakeview	Pendleton	Vancouver

Zones for Groups 3 and 4 Carpenters are determined by the distance between the project site and either 1) the worker's residence or 2) City Hall of a reference city for the appropriate group shown below, whichever is closer.

Reference Cities for Group 3 and 4 Carpenters

Eugene	Medford	Portland	Vancouver
Longview	North Bend	The Dalles	

Zones for Groups 5, 6 and 7 Carpenters are determined as follows:

- For those workers who reside within zone 1 of a reference city below, their zone pay differential shall be computed based upon the distance from the city hall of that city to the project site.

CARPENTERS (Continued)

- For those workers who reside nearer to the project than is the city hall of any reference city below, the mileage from their residence to the project may be used in computing their zone pay differential.

- The zone pay differential for all other projects shall be computed from the city hall of Longview, North Bend, or Portland, whichever is closer to the project.

Reference Cities for Groups 5, 6 and 7

Astoria	Eugene	Newport	Salem
Bend	Klamath Falls	Portland	The Dalles
North Bend	Medford	Roseburg	Longview

Group 1

Auto. Nailing Machine Carpenters
Form Stripper
Manhole Builders
Non-irritating Ins.
Cabinet & Shelving Installers
(wood or steel)

Group 2

Floor Layers & Finishers
Stationary Power Saw Operators
Wall & Ceiling Insulators
Irritating Insulation

Group 3

Millwrights
Machine Erectors
Machinists

Group 4

Certified Welders

Group 5

Bridge, Dock & Wharf Builders
Piledrivermen

Group 6

Boom Men

Group 7

Marine Piledriver

CEMENT MASONS

Zone 1 (Base Rate):

o Group 1	17.14	6.42
o Group 2	17.48	6.42
o Group 3	17.48	6.42
o Group 4	17.83	6.42

Group 1

Cement Masons, hand chipping and patching grouting, end pointing, screed setting, plugging, filling bolt holes, dry packing, setting curb forms, planks, stakes, lines and grades.

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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CEMENT MASONS (continued)

- Group 2 Composition Workers (includes installation of epoxy & other resinous toppings), and Power Machine Operators.
- Group 3 Cement masons working on suspended, swinging and/or hanging scaffold.
- Group 4 Cement Masons performing work of both Group 2 and Group 3 at the same time.

Zone Differential for Cement Masons
(Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

Cities

Bend	Corvallis	Coos Bay	Roseburg	Eugene
Pasco	The Dalles	Medford	Longview	K. Falls
Salem	Pendleton	Astoria	Portland	Newport

DIVERS & DIVERS' TENDERS

o Divers	49.40	4.57
o Divers' Tenders	21.97	4.57

Depth Pay and Enclosure Pay are added to the Divers' Basic Hourly Rate to obtain the Total Hourly Rate for the diver.

BASIC HOURLY RATE	HOURLY DEPTH PAY	HOURLY ENCLOSURE PAY	DIVERS' TOTAL HOURLY PAY
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o Divers' Depth Pay

Depth of Dive	Hourly Depth Pay
50-100 ft	[(total ft- 50) x \$1.00]/hr.
100-150 ft	\$ 50 + [(total ft-100) x \$1.50]/hr.
150-200 ft	\$125 + [(total ft-150) x \$2.00]/hr.

DIVERS & DIVERS' TENDERS(continued)

o Divers' Enclosure Pay(working without vertical escape)

Distance Travelled

In the Enclosure	Hourly Enclosure Pay
5 - 50 ft	\$.50/hr
50 - 100 ft	\$.63/hr
100 - 150 ft	\$ 2.13/hr
150 - 200 ft	\$ 4.63/hr
200 - 300 ft	\$ 4.63 + [(total ft-200)x \$.05)/hr
300 - 450 ft	\$ 9.63 + [(total ft-300)x \$.10)/hr
450 - 600 ft	\$24.63 + [(total ft-450)x \$.20)/hr

DREDGING

Zone 1 (Base Rate):

o Leverman	22.68	5.92
o Asst. Engineer (including: Watch Engineer, Welder, Mechanic, Machinist)	21.98	5.92
o Tenderman (Boatman, Attending Dredge Plan); Fireman	21.46	5.92
o Fill Equipment Operator	21.00	5.92
o Assistant Mate (Deckhand); Oiler	19.61	5.92

Zone Differential for Dredging
(Add to Zone 1 Rate)

Zone 2	1.50
Zone 3	1.90
Zone 4	2.40
Zone 5	3.00

Zone 1: Center of job site not more than 15 miles from the City Hall of Portland

Zone 2: More than 15 miles but not more than 30

Zone 3: More than 30 miles but not more than 50

Zone 4: More than 50 miles but not more than 70

Zone 5: More than 70 miles.

DRYWALL/WETWALL

o Drywall (Accoustical and Drywall Applicator)	17.85	5.57
o Wetwall (Lather)	17.10	6.32

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
<u>ELECTRICIANS</u>			<u>ELEVATOR CONSTRUCTORS</u> (continued)		
<u>Area 1:</u>			<u>Area 2</u>		
o Electricians	18.45	3.77	o Mechanic	22.83	6.13 + a
o Cable Splicers	20.30	3.87	o Helper	15.98	6.13 + a
<u>Area 2:</u>			o Probationary Helper	11.42	-
o Electricians	21.21	6.25	a) Plus 8% of basic hourly rate for employees with more than 5 years of service; 6% of basic hourly rate for 6 months to 5 years of service.		
o Cable Splicers	22.27	6.28			
<u>Area 3:</u>					
	19.35	5.63			
<u>Area 4:</u>					
	21.35	4.24			
<u>Area 5:</u>					
o Electricians	22.25	6.07			
o Cable Splicers	23.00	6.09			
<u>Area 6:</u>					
o Electricians	19.00	6.02			
o Cable Splicers	20.90	6.08			
<u>Area 1</u>	<u>Area 2</u>	<u>Area 2(cont)</u>	<u>Area 3</u>		
Malheur	Baker	Umatilla	Coos		
	Gilliam	Union	Curry		
	Grant	Wallowa	Lincoln		
	Morrow	Wheeler	Douglas (a)		
			Lane (a)		
<u>Area 4</u>	<u>Area 5</u>	<u>Area 6</u>			
Benton	Clackamas	Harney			
Crook	Clatsop	Jackson			
Deschutes	Columbia	Josephine			
Jefferson	Hood River	Kiamath			
Lane (b)	Multnomah	Lake			
Linn	Sherman	Douglas (b)			
Marion	Tillamook				
Polk	Wasco				
Yamhill(c)	Washington				
	Yamhill (d)				
a) Those portions lying west of a line North and South from the NE corner of Coos County to the SE corner of Lincoln County					
b) That portion lying east of a line running North and South from the NE corner of Coos County to the SE corner of Lincoln County					
c) South half					
d) North half					
<u>ELEVATOR CONSTRUCTORS</u>					
<u>Area 1</u>					
o Mechanic	19.76	6.13 + a			
o Helper	13.83	6.13 + a			
o Probationary Helper	9.88	-			

ELEVATOR CONSTRUCTORS(continued)

Area 2

o Mechanic	22.83	6.13 + a
o Helper	15.98	6.13 + a
o Probationary Helper	11.42	-

a) Plus 8% of basic hourly rate for employees with more than 5 years of service; 6% of basic hourly rate for 6 months to 5 years of service.

Area 1

Umatilla
Wallowa
Union
Baker

Area 2

All
Remaining
Counties

GLAZIERS

Area 1	19.50	3.70
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(Add \$1.00 to base rate if safety belt is required by State safety regulations)
(Add \$4.00 to base rate for work done from a non-motorized single-man bosun chair)

Area 2	14.36	2.74
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(Add \$0.50 to base rate if working at over 35 feet of free fall in height)

Area 1

All Counties
except Malheur

Area 2

Malheur

HIGHWAY AND PARKING STRIPERS

18.65	2.40
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IRONWORKERS

o Structural, Reinforcing, Ornamental, Riggers, Fence Erectors, Signal Men	19.96	7.46
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TRADES

BASIC
HOURLY FRINGE
RATE BENEFITS

TRADES

BASIC
HOURLY FRINGE
RATE BENEFITS

LABORERS**Zone 1 (Base Rate):**

o Group 1	15.02	5.47
o Group 2	15.37	5.47
o Group 3	15.67	5.47
o Group 4	15.92	5.47
o Group 5	13.43	5.47

Note: A Hazardous Waste Removal Differential must be added to the base rate if work is performed inside the boundary of a Federally Designated Hazardous Waste Site. A Group 1 base rate is used for General Laborer on such a site. For further information on this, call the Prevailing Wage Rate Coordinator at 731-4466.

Zone Differential for Laborers
(Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the Cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

Reference Cities

Albany	Eugene	Longview	Portland
Astoria	Goldendale	Madras	Port Orford
Baker	Grants Pass	Medford	Reedsport
Bend	Hermiston	McMinnville	Roseburg
Brookings	Hood River	Newport	Salem
Burns	Klamath Falls	Oregon City	The Dalles
Coos Bay	LaGrande	Ontario	Tillamook
Corvallis	Lakeview	Pendleton	

Group 1

Asphalt Plant Laborers
Asphalt Spreaders
Batch Weighman
Broomers
Brush Burners/Cutters
Carpenter Tender
Car & Truck Loaders
Change-House Man
Choke Setter
Chipper Operator (a)
Clean-up Laborers ***
Concrete Laborers
Culvert (hand labor)
Curing, concrete
Demolition, wrecking
and moving ***

General Laborer ***
Guardrail, Median
Rail (c)
Landscape or Planting
Laborer
Leverman or Aggregate
Spreader (d)
Material Yard Man (e)
Powderman Tender
Railroad Track Laborers
Ribbon Setters (f)
Rip Rap Man (Hand
Placed)
Road Pump Tender
Sewer Laborer
Signalman

LABORERS Group 1 (continued)

Driller Tender	Skipman
Dry-shack Man	Slopers
Dumpers, road oiling crew	Sprayman
Dumpmen for grading crew	Stake Chaser
Elevator Feeders	Stockpiler
Fence Builder	Timber Faller/Bucker (Hand Labor)
Fine Graders	Toolroom Man (Job site)
Fire Watch	Tunnel Bull Gang (Above Ground)
Form Strippers (b)	Weight-Man-Crusher (g)

- a) Pittsburg or similar types
 - b) Not swinging stages
 - c) Reference Post, Guide Post, or
Right-of Way Marker
 - d) Flaherty, Loading Spotters or similar types
 - e) Including electrical
 - f) Including steel forms
 - g) Aggregate when used
- *** Laborers can tear off roofs, clean up or handle roofing materials only when at least one new story is added or in demolition work, where no reroofing will occur.

Group 2

Applicators (a)	Guniting or Pot Tender
Brush Cutters (b)	Handlers/Mixers (f)
Burners	Post Hole Digger, Air, gas or electric
Choker Splicer	Power Tool Operators (g)
Clay Power Spreader(c)	Sand Blasting (wet)
Clean up Nozzleman- Green Cutter (d)	Stake Setter
Concrete Power Buggyman	Tampers
Crusher Feeder	Tunnel Muckers/Brakeman/ Concrete Crew/Bull Gang (underground)
Demolition/Wrecking (e)	
Grade Checker	
Granite Nozzleman Tender	

- a) Including Pot Tender for same, applying protective material by hand or nozzle on utility lines or storage tanks on project
- b) Power saw
- c) And similar types of spreaders
- d) Concrete, rock, etc.
- e) Charred Materials
- f) Of all materials of an irritating nature including cement and lime
- g) Includes, but not limited to: Dry Pack Machine, Jackhammer, Chipping Guns, Paving Breakers, Vibrators (less than 4" diameter)

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
LABORERS(continued)			LIMITED ENERGY ELECTRICIANS		
<u>Group 3</u>			May only be used for electrical work not exceeding 100 va in Class II and III installations (as defined in Article 725 of the National Electrical Code):		
Asbestos Removal		Power Saw Operators (d)	Area 1	16.90	5.14
Asphalt Rakers		Pumpcrete Nozzleman	Area 2	16.90	5.14
Bit Grinder		Sand Blasting (dry)	Area 3	11.31	2.41
Concrete Saw Operator		Pipe Layers of all Types	Area 4	11.61	2.57
Drill Doctor		Sewer Timberman	Area 5	12.67	2.60
Drill Operators (a)		Track Liners (e)	Area 6	11.45	2.74
Guniting Nozzleman		Tugger Operator	Area 7	11.84	2.11
High Scalars,		Tunnel-Chuck Tenders,	Area 8	11.28	2.61
Strippers, Drillers(b)		Nippers, Timberman	Area 9	16.90	5.14
Laser Beam (c)		Vibrator (4" and larger)	Area 10	11.76	1.91
Manhole Builder		Water Blaster	Area 11	12.76	1.99
Powdermen		Welder	Area 12	15.31	2.02
a) Air Tracks, Cat Drills, Wagon Drills,			Area 13	12.93	2.45
Rubber-mounted drills, and other similar			Area 14	12.63	2.20
types					
b) Covers work in Swinging Stages, chairs			<u>Area 1</u>	Clatsop, Columbia, Tillamook	
or belts, under extreme conditions unusual			<u>Area 2</u>	Clackamas, Multnomah, Washington, Yamhill	
to normal drilling, blasting, barring-down,				(north half)	
or sloping and stripping			<u>Area 3</u>	Marion, Polk, Yamhill (south half)	
c) Pipe laying, applicable when employee			<u>Area 4</u>	Benton, Lincoln, Linn	
assigned to move, set up, align Laser Beam.			<u>Area 5</u>	Lane	
d) Bucking and falling			<u>Area 6</u>	Douglas	
e) Anchor Machines, Ballast Regulators,			<u>Area 7</u>	Coos, Curry	
Multiple Tampers, Power Jacks			<u>Area 8</u>	Jackson, Josephine	
			<u>Area 9</u>	Hood River, Sherman, Wasco	
<u>Group 4</u>			<u>Area 10</u>	Crook, Deschutes, Jefferson	
Laser Beam (Tunnel), applicable when employee			<u>Area 11</u>	Klamath, Lake	
assigned to move, set-up, align laser beam			<u>Area 12</u>	Gilliam, Grant, Morrow, Umatilla, Wheeler	
Tunnel Miners			<u>Area 13</u>	Baker, Union, Wallowa	
Tunnel Powderman			<u>Area 14</u>	Harney, Malheur	
<u>Group 5</u>			LINE CONSTRUCTION		
Flagger			Area 1		
			o Group 1	23.09	5.56
			o Group 2	20.86	5.48
			o Group 3	16.37	4.32
			o Group 4	17.99	4.38
			o Group 5	15.74	4.30
			o Group 6	14.80	4.26
			Area 2:		
			o Cable Splicers	19.41	3.52
			o Journeyman Lineman	17.65	3.46
			o Line Equip. Mech.		
			(Right-of-way)	15.89	3.39
			o Line Equip. Oper.	15.89	3.39
			o Groundman	11.92	3.23

TRADES	BASIC HOURLY RATE		FRINGE BENEFITS	TRADES	BASIC HOURLY RATE		FRINGE BENEFITS					
<u>LINE CONSTRUCTION</u> (continued)				<u>PLASTERERS</u>								
<u>Area 1</u> All counties except Malheur County				Area 1								
<u>Group 1</u>		<u>Group 2</u>		o Nozzleman		20.28	4.02					
Cable Splicers		Certified Lineman Welder		o Swinging scaffold		19.78	4.02					
Leadman Pole Sprayer		Heavy Line Equipment Man		o all other work		19.28	4.02					
		Lineman		Area 2								
		Pole Sprayer		o Nozzleman		21.43	4.06					
				o Swinging scaffold		20.43	4.06					
				o all other work		19.93	4.06					
<u>Group 3</u>		<u>Group 4</u>		<u>Area 1</u>		<u>Area 1(cont)</u>	<u>Area 1(cont)</u>	<u>Area 2</u>				
Tree Trimmer		Line Equipment Man		Benton		Deschutes	Lincoln (b)	All				
				Coos		Harney	Linn (b)	remaining				
<u>Group 5</u>		<u>Group 6</u>		Crook		Jefferson	Wasco (b)	counties				
Head Groundman		Groundman		Curry		Klamath (a)	Wheeler (b)					
Jackhammer Man				Douglas		Lane						
Powderman				a) Northern one-third b) South half								
<u>Area 2</u> Malheur County				<u>PLUMBERS & STEAMFITTERS/PIPEFITTERS</u>								
<u>MARBLE SETTERS</u> (Includes Granite)				Area 1 (Both)					20.74	5.25		
				Area 2 (Both)					22.85	6.20		
				Area 3 (Both)					21.40	5.60		
Area 1				21.48	5.05	<u>Area 1</u>				<u>Area 2</u>	<u>Area 3</u>	
<u>Area 1</u>												
Baker				Hood River	Multnomah	Wallowa	Baker				Grant (b)	All remaining counties
Benton (a)				Lincoln (a)	Polk	Wasco (a)	Harney (a)				Morrow	
Clackamas				Linn (a)	Sherman	Washington	Malheur				Umatilla	
Clatsop				Malheur (a)	Tillamook	Yamhill					Wallowa	
Columbia				Marion	Umatilla						Union	
Gilliam				Morrow	Union		a) Except Northwest Portion					
							b) Except Southwest Corner					
a) North half												
<u>PAINTERS & DRYWALL TAPERS</u>												
Area 1												
o Painters & Drywall Tapers		13.15	2.26									
Area 2												
o Brush		15.50	2.28									
o Spray, sandblasting, other		16.00	2.28									
pressure blasting over 3000 psi,												
and steam cleaning.												
o Drywall Tapers		20.75	3.30									
<u>Area 1</u>		<u>Area 2</u>										
Malheur County		Remaining Counties										

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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POWER EQUIPMENT OPERATORS

Zone 1 (Base Rate):

o Group 1	20.00	5.92
o Group 2	19.65	5.92
o Group 3	19.05	5.92
o Group 4	18.65	5.92
o Group 5	18.15	5.92
o Group 6	17.45	5.92

Note: A Hazardous Waste Removal Differential must be added to the base rate if work is performed inside the boundary of a Federally Designated Hazardous Waste Site. For further information on this, call the Prevailing Wage Rate Coordinator at 731-4466.

ZONE RATES AND DESCRIPTIONS

(Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the Cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

Reference Cities

Albany	Eugene	Longview	Portland
Astoria	Goldendale	Madras	PortOrford
Baker	Grants Pass	Medford	Reedsport
Bend	Hermiston	McMinnville	Roseburg
Brookings	Hood River	Newport	Salem
Burns	Klamath Falls	Oregon City	The Dalles
Coos Bay	LaGrande	Ontario	Tillamook
Corvallis	Lakeview	Pendleton	

POWER EQUIPMENT OPERATORS (continued)

GROUP CLASSIFICATIONS

ASPHALT

- 6 Plant Oiler
- 6 Plant Fireman
- 6 Pugmill Operator (any type)
- 6 Truck mounted asphalt spreader, with screed
- 4 Screed Operator
- 5 Extrusion Machine Operator
- 2 Asphalt Plant Operator (any type)
- 4 Asphalt Paver Operator
- 5 Roller Operator (any asphalt mix)
- 4 Diesel-Electric Engineer, Plant
- 5 Asphalt Burner and Reconditioner Operator (anytype), 84
- 4 Roto-Mill, pavement profiler operator, under 6 foot lateral cut
- 5 Roto-Mill, pavement profiler, ground man
- 2 Roto-Mill, pavement profiler operator, 6 foot lateral cut and over

BLADE

- 6 Blade Operator, pulled type
- 4 Blade Operator
- 4 Blade Operator, Finish
- 4 Blade Operator, externally controlled by electronic, mechanical hydraulic means
- 4 Blade Operator, multi-engine
- 2 Auto Grader or "Trimmer" Operator

BULLDOZERS

- 4 Bulldozer Operator
- 4 Drill Cat Operator
- 4 Side-Boom Operator
- 2 Tandem bulldozer operator (quadnine and similar type, D-11)
- 4 Bulldozer Operator, twin engine (TC 12 and similar type, D-10)
- 4 Cable-Plow Operator (any type)

CLEARING

- 4 Log Skidder Operator
- 4 Chipper Operator
- 4 Incinerator Operator
- 4 Stump Splitter Operator
- 4 Faller/Buncher Operator

POWER EQUIPMENT OPERATORS
(GROUP CLASSIFICATIONS continued)**COMPRESSORS**

- 6 Compressor Operator (any power), under 1,250 cu. ft. total capacity
- 5 Compressor Operator (any power), over 1,250 cu. ft. capacity

COMPACTORS - Self-Propelled

- 5 Compactor Operator, including vibratory
- 5 Wagner Patcor Operator or similar type (without blade)
- 4 Compactor Operator, with blade
- 4 Compactor Operator, multi-engine

CONCRETE

- 6 Plant Oiler
- 6 Assistant Conveyor Operator
- 6 Conveyor Operator
- 6 Mixer Box Operator (C.T.B., dry batch, etc.)
- 6 Cement Hog Operator
- 6 Concrete Saw Operator
- 6 Concrete Curing Machine Operator (riding type)
- 6 Wire Mat or Brooming Machine Operator
- 5 Combination Mixer and Compressor Operator, gunite work
- 5 Concrete Batch Plant Quality Control Operator
- 5 Belcrete Operator
- 5 Pumpcrete Operator (any type)
- 5 Pavement Grinder and/or Grooving Machine Operator (riding type)
- 4 Mixer Mobile Operator
- 5 Cement Pump Operator, Fuller-Kenyon and similar
- 5 Concrete Pump Operator
- 5 Grouting Machine Operator
- 4 Screed Operator
- 4 Concrete Cooling Machine Operator
- 5 Concrete Mixer Operator, single drum, any capacity
- 2 Batch Plant and/or Wet Mix Operator, 1 and 2 drum
- 1 Batch Plant and/or Wet Mix Operator, 3 units or more
- 5 Cast in place pipe laying machine
- 5 Maginnis Internal Full Slab Vibrator Operator
- 5 Concrete Finishing Machine Operator, Clary, Johnson, Bidwell, Burgess bridge deck or similar type
- 5 Curb Machine Operator, Mechanical Berm, Curb and/or Curb and Gutter
- 5 Concrete Joint Machine Operator
- 5 Concrete Planer Operator
- 5 Tower Mobile Operator
- 5 Power Jumbo Operator setting slip forms etc., in tunnels

POWER EQUIPMENT OPERATORS
(GROUP CLASSIFICATIONS continued)**CONCRETE (continued)**

- 5 Slip Form Pumps, power driven hydraulic lifting device for concrete forms
- 5 Concrete Paving Machine Operator
- 5 Concrete Finishing Machine Operator
- 5 Concrete Spreader Operator
- 4 Concrete Paving Road Mixer
- 2 Automatic Concrete Slip Form Paver Operator
- 2 Concrete Canal Line Operator
- 4 Concrete Breaker
- 4 Reinforced Tank Banding Machine (K-17 or similar types)
- 2 Concrete Profiler, Diamond Head

CRANE

- 6 Oiler
- 6 Truck Crane Oiler-Driver, 25 ton capacity or over
- 6 Fireman, all equipment
- 6 A-Frame Truck Operator, single drum
- 6 Tugger or Coffin Type Hoist Operator
- 5 Helicopter Hoist Operator
- 5 Hoist Operator, single drum
- 5 Elevator Operator
- 5 A-Frame Truck Operator, double drum
- 5 Boom Truck Operator
- 4 Chicago Boom and similar types
- 4 Lift Slab Machine Operator
- 4 Boom Type lifting device, 5 ton capacity or less
- 4 Cerry Picker or similar type crane-hoist, 5 ton capacity or less
- 4 Crane Operator, under 25 ton (except for rough terrain)
- 4 Hoist Operator, two drum
- 4 Hoist Operator, three or more drums
- 4 Derrick Operator, under 100 ton
- 4 Hoist Operator, stiff leg, guy derrick or similar type, 50 ton and over
- 4 Cableway Operator, up to 25 tons
- 2 Cableway Operator, 25 tons and over
- 4 Crane Operator, over 25 tons and including 40 tons
- 4 Bridge Crane Operator, Locomotive, Gantry, Overhead
- 2 Crane Operator, over 40 tons and including 200 tons
- 1 Crane Operator, over 200 tons
- 2 Tower Crane Operator
- 2 Whirley Operator, up to and including 150 tons
- 1 Whirley Operator, over 150 tons
- 1 Helicopter Operators, when used in erecting work
- 5 Hydraulic Boom Truck Operator, Pittman

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
<u>POWER EQUIPMENT OPERATORS</u> (GROUP CLASSIFICATIONS continued)			<u>POWER EQUIPMENT OPERATORS</u> (GROUP CLASSIFICATIONS continued)		
<u>CRUSHER</u>			<u>GUARDRAIL EQUIPMENT</u>		
6			6		Oiler
6			6		Auger Oiler
4			6		Oiler, combination guardrail machines
4			4		Guardrail Punch Operator (all types)
4			6		Guardrail Punch Oiler
4			4		Guardrail Auger Operator (all types)
4			4		Combination Guardrail machines. i.e. punch, auger etc.
<u>DRILLING</u>			<u>HAZARDOUS WASTE REMOVAL</u>		
6			5		Assistant to the Engineer (Oiler)
6			4		Assistant Incinerator Control Board Operator
5			3		Incinerator Control Board Operator
4			<u>HEATING PLANT</u>		
4			6		Temporary Heating Plant Operator
4			4		Surface Heater and Planer Operator
4			<u>HYDRAULIC HOES</u>		
<u>FLOATING EQUIPMENT</u>			5		Hydraulic Backhoe Operator, wheel type 3/8 cu. yd. and under with or without front end attachments 2-1/2 cu. yd. and under (Ford, John Deere, Case type)
6			4		Hydraulic Backhoe Operator, Track Type 3/8 cu.yd. (Note: Over 3/8 cu. yd. takes Shovel Classification rate)
6			<u>LOADERS</u>		
5			6		Bucket Elevator Loader Operator, Barber-Greene and similar types
4			5		Loaders, rubber-tired type, 2-1/2 cu. yd. and under
4			5		Elevating Grader Operator, Tractor Towed requiring Operator or Grader
4			4		Belt Loader Operator, Kolman and Ko Cal types
4			4		Loader Operator, front end and overhead, 2-1/2 cu. yd. and under 4 cu. yd.
4			4		Elevating Loader Operator, Athey and similar types
4			4		Elevating Grader Operator, Sierra, Euclid or similar types
4			3		Loader Operator, 4 cu. yd. but less than 6 cu. yd.
4			2		Loader Operator, 6 cu. yd. and over
4			<u>OILERS</u>		
4			6		Oiler
4			6		Guardrail Punch Oiler
4			6		Truck Crane Oiler-Driver, 25 ton or over
4			6		Auger Oiler
4			6		Grade Oiler, required to check grade
<u>GENERATORS</u>					
4					
4					
<u>FORK LIFT</u>					
6					
6					
6					
5					
5					
3					
<u>CRUSHER OILER</u>					
<u>CRUSHER FEEDERMAN</u>					
<u>GENERATOR OPERATOR</u>					
<u>DIESEL-ELECTRIC ENGINEER</u>					
<u>GRIZZLEY OPERATOR</u>					
<u>CRUSHER PLANT OPERATOR</u>					
<u>DRILL TENDER</u>					
<u>AUGER OILER</u>					
<u>CHURN DRILL AND EARTH BORING MACHINE OPERATOR</u>					
<u>DRILL DOCTOR</u>					
<u>BORING MACHINE OPERATOR</u>					
<u>DRILLER - PERCUSSION, DIAMOND, CORE, CABLE, ROTARY AND SIMILAR TYPE</u>					
<u>DECKHAND</u>					
<u>BOATMAN</u>					
<u>FIREMAN</u>					
<u>DIESEL-ELECTRIC ENGINEER</u>					
<u>JACK OPERATOR, ELEVATING BARGES</u>					
<u>BARGE OPERATOR, SELF-UNLOADING</u>					
<u>PILEDRIIVER OPERATOR (NOT CRANE TYPE)</u>					
<u>FLOATING CLAMSHELL, ETC. OPERATOR, UNDER 3 CU. YD.</u>					
<u>FLOATING CRANE (DERRICK BARGE) OPERATOR, LESS THAN 30 TONS</u>					
<u>FLOATING CLAMSHELL, ETC. OPERATOR, 3 CU. YD. AND OVER</u>					
<u>FLOATING CRANE (DERRICK BARGE) OPERATOR, 30 TONS BUT LESS THAN 150 TONS</u>					
<u>FLOATING CRANE, 150 TONS AND OVER</u>					
<u>SELF-PROPELLED SCAFFOLDING OPERATOR (EXCLUDING WORKING PLATFORM)</u>					
<u>FORK LIFT OR LUMBER STACKER OPERATOR</u>					
<u>ROSS CARRIER OPERATOR</u>					
<u>LULL HI-LIFT OPERATOR OR SIMILAR TYPE</u>					
<u>FORK LIFT, OVER 5 TONS</u>					
<u>ROCK HOUND OPERATOR</u>					

POWER EQUIPMENT OPERATORS
(GROUP CLASSIFICATIONS continued)OILERS(continued)

- 5 Service Oiler (Greaser)
- 6 Grade Checker

PILEDRIVERS (Use Crane rates when driving or pulling piling)

- 4 Hammer Operator
- 4 Piledriver Operator (not crane type)

PIPE LINE - Sewer Water

- 6 Tar Pot Fireman
- 6 Tar Pot Fireman (power agitated)
- 6 Hydraulic Pipe Press Operator
- 5 Hydra Hammer or similar types
- 5 Pavement Breaker Operator
- 4 Pipe Cleaning Machine Operator
- 4 Pipe Doping Machine Operator
- 4 Pipe Bending Machine Operator
- 4 Pipe Wrapping Machine Operator
- 4 Boring Machine Operator
- 4 Back Filling Machine Operator

PUMPS

- 6 Pump Operator, any power
- 6 Hydrostatic Pump Operator
- 5 Pump Operator, more than 5 (any size)
- 5 Pot Rammer Operator

RAILROAD EQUIPMENT

- 6 Brakeman
- 6 Oiler
- 6 Switchman
- 6 Motorman
- 6 Ballast Jack Tamper Operator
- 5 Locomotive Operator
- 5 Ballast Regulator Operator
- 5 Ballast Tamper Multi-Purpose Operator
- 5 Track Liner Operator
- 5 Tie Spacer Operator
- 5 Shuttle Car Operator

REMOTE CONTROL

- 2 Remote controlled earth-moving equipment

POWER EQUIPMENT OPERATORS
(GROUP CLASSIFICATIONS continued)REPAIRMEN, Heavy Duty

- 6 Parts Man (Tool Room)
- 6 H.D. Repairman Tender
- 6 Welder's Tender
- 4 Diesel-Electric Engineer (Plant or Floating)
- 4 Bolt Threading Machine Operator
- 4 Drill Doctor (Bit Grinder)
- 4 H.D. Mechanic
- 4 H.D. Welder
- 4 Machine Tool Operator
- 4 Combination H.D. Mechanic-Welder, when dispatched and/or when required to do both
- 4 Welder - Certified, when dispatched and/or required

RUBBER-TIRED SCRAPERS

- 4 Rubber-tired Scraper Operator, single engine, single scraper
- 4 Self-loading, paddle wheel, auger type under 15 cu. yd.
- 4 Rubber-tired Scraper Operator, twin engine
- 4 Rubber-tired Scraper Operator, with push-pull attachments
- 3 Rubber-tired Scraper Operator with tandem scrapers
- 2 Rubber-tired Scraper Operator, with tandem scrapers, multi-engine
- 4 Self-loading, paddle wheel, auger type 15 cu. yd. and over, single engine
- 3 Self-loading, paddle wheel, auger type, finish and/or 2 or more units

SHOVEL, DRAGLINE, CLAMSHELL, BACKHOE, SKOOPER, ETC., OPERATOR

- 6 Oiler
- 6 Grade Oiler (required to check grade)
- 6 Grade Checker
- 6 Fireman
- 4 Diesel-Electric Engineer
- 4 Stationary Drag Scraper Operator
- 4 Shovel, Dragline, Clamshell, Hoe etc., Operator under 3 cu. yd.
- 4 Grade-all Operator
- 2 Shovel, Dragline, Clamshell, Hoe etc., Operator 3 cu. yd. and over

SIGNALMAN

- 6 Bell Boy, phones, etc., Operator
- 6 Helicopter Radioman (ground)

TRADES

BASIC
HOURLY
RATE

FRINGE
BENEFITS

TRADES

BASIC
HOURLY
RATE

FRINGE
BENEFITS

POWER EQUIPMENT OPERATORS

(GROUP CLASSIFICATIONS continued)

SURFACING (BASE) MATERIAL

- 6 Roller Operator, grading of base rock (not asphalt)
- 5 Roller Operator, Oiling, C.T.B.
- 6 Tamping Machine Operator, mechanical, self-propelled
- 6 Hydrographic Seeder Machine Operator, straw, pulp or seed
- 5 Rock Spreaders, self-propelled
- 5 Pulva-mixer or similar types
- 4 Blade Mounted Spreaders, Ulrich and similar types
- 5 Chip Spreading Machine Operator
- 5 Lime Spreading Operator

SWEEPERS

- 6 Broom Operator, self-propelled
- 5 Sweeper Operator (Wayne type) self-propelled

TRACTOR - RUBBER TIRED

- 5 Tractor Operator, rubber-tired, 50 H.P. Flywheel and under
- 4 Tractor Operator, rubber -tired, over 50 H.P. Flywheel
- 4 Tractor Operator, with boom attachment
- 4 Rubber-tired Dozers and Pushers (Michigan, Cat, Hough type)

TRENCHING MACHINE

- 6 Oiler
- 6 Grade Oiler (required to check grade)
- 5 Trenching Machine Operator, maximum digging capacity 3 ft. depth
- 4 Trenching Machine Operator, maximum digging capacity over 3 ft. depth
- 4 Back Filling Machine Operator
- 2 Wheel Excavator
- 2 Canal Trimmer
- 2 Band Wagon (in conjunction with wheel excavator)

TUNNEL

- 4 Mucking Machine Operator
- 6 Conveyor Operator (any type)
- 4 Shield Operator
- 6 Air Filtration Equipment Operator

WELDING MACHINES

- 6 Welding Machine Operator

POWER EQUIPMENT OPERATORS

(GROUP CLASSIFICATIONS continued)

UNDERWATER EQUIPMENT

- 2 Underwater Equipment Operator, remote or otherwise, when used in construction work

ROOFERS

Area 1:

- o Roofers 17.14 4.30
- o Handling coal tar pitch 18.85 4.30

Area 2:

- o Roofers 16.54 4.78
- (Add \$2.00 per hour to Fringe for work with irritable Bituminous material.)

Area 3:

- o Roofers 14.40 2.50
- (Add \$1.50 per hour to Fringe for work with irritable Bituminous material.)

Area 4:

- o Roofers 18.10 3.85
- (Add \$2.00 per hour to Fringe for work with irritable Bituminous materials)

Area 5:

- o Roofers 17.00 3.85
- (Add \$3.00 per hour to Fringe for work with irritable Bituminous materials)

Area 1

Baker
Clackamas
Clatsop
Columbia
Jefferson
Gilliam
Grant
Hood River

Area 1(cont)

Multnomah
Sherman
Tillamook
Wasco
Washington
Wheeler

Area 2

Benton
Coos
Crook
Curry
Deschutes
Douglas
Harney
Jackson
Josephine

Area 2(cont)

Klamath
Lake
Lane
Lincoln
Linn
Marion
Polk
Yamhill

Area 3

Malheur

Area 4

Umatilla
Union
Wallowa

Area 5

Morrow

SHEETMETAL WORKERS

Area 1 19.30 5.98
(Add \$0.75 to base rate for work performed on any swinging platform, swinging chair, or swinging ladder)

Area 2 17.41 4.75
(Add \$1.75 to base rate for work performed whenever it is possible for worker to fall 30 feet or more)
(Add \$1.75 to base rate for work performed in an area where epoxy resins or other injurious chemicals are being applied)

Area 3 19.75 5.07
(Add \$1.00 to base rate for work where it is necessary to wear a chemically activated face mask)
(Add \$1.00 to base rate for work where employee is required to wear a fresh air mask due to nuclear related work)
(Add \$.45 to base rate for work on a swinging stage, swinging scaffold or bosun chair in excess of 30 feet above the ground)

Area 4 17.14 3.99

Area 1

Benton	Gilliam	Linn	Tillamook
Clackamas	Grant	Marion	Wasco
Clatsop	Harney	Multnomah	Washington
Columbia	Hood River	Polk	Wheeler
Crook	Jefferson	Sherman	Yamhill
Deschutes	Lincoln		

<u>Area 2</u>	<u>Area 3</u>	<u>Area 4</u>	<u>Area 4 (cont)</u>
Baker	Morrow	Coos	Josephine
Malheur	Umatilla	Curry	Klamath
	Union	Douglas	Lake
	Wallowa	Jackson	Lane

SOFT FLOOR LAYERS

Area 1	16.45	4.42 + a
Area 2	13.66	1.19

a) plus 4% of basic hourly rate for employees with less than one year of service, 6% for those with more than one year.

SOFT FLOOR LAYERS(continued)

Area 1 - All counties except Malheur County

Area 2 - Malheur County

SPRINKLER FITTERS 21.40 5.33

TENDERS TO MASON TRADES

o Tenders for Bricklayers, Tile Setters, Marble Setters and Terrazzo Workers; Topping for Cement Finishers and Mortar Mixers.
16.39 4.47
(Add \$0.50 to base rate for refractory work)
(Add to base rate an amount equal to that received for safety belt requirements or other unusual job conditions by the mechanic this worker is tending)

TENDERS TO PLASTERERS 15.90 4.47

TILE SETTERS

Area 1 18.70 4.60

(Add \$.50 to base rate if safety belt required by State safety regulations or work involves epoxy, furnane, alkor, acetylene, black grouting and/or steam cleaning.)

Area 2 18.00 4.37

(Add \$.24 to base rate if safety belt required by State safety regulations; \$.20 if work involves epoxy, furnane, alkor, acetylene, black grouting, and/or steam cleaning.)

Area 1

Baker	Hood River	Multnomah	Wallowa
Benton (a)	Lincoln (a)	Polk	Wasco (a)
Clackamas	Linn (a)	Sherman	Washington
Clatsop	Malheur (a)	Tillamook	Yamhill
Columbia	Marion	Umatilla	
Gilliam	Morrow	Union	

Area 2

Benton (b)	Douglas	Josephine	Linn (b)
Crook	Grant	Klamath	Malheur (b)
Coos	Harney	Lake	Wasco (b)
Curry	Jackson	Lane	Wheeler
Deschutes	Jefferson	Lincoln (b)	

a) North half

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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TILE, TERRAZZO, BRICK & MARBLE FINISHERS

- o Assists Tile Setters, Brick Layers, Marble Masons, Stone Masons, and Terrazzo Workers by striking, sawing, cleaning, washing or grouting. Does not lay or set any material.

Area 1 14.27 3.25

- o (Add \$0.75 to fringe for Refractory repair work.)

Area 1

Baker	Hood River	Multnomah	Wallowa
Benton (a)	Lincoln (a)	Polk	Wasco (a)
Clackamas	Linn (a)	Sherman	Washington
Clatsop	Malheur (a)	Tillamook	Yamhill
Columbia	Marion	Umatilla	
Gilliam	Morrow	Union	

a) North half

TRUCK DRIVERS

Zone 1 (Base Rate):

o Group 1	17.24	5.74
o Group 2	17.36	5.74
o Group 3	17.49	5.74
o Group 4	17.74	5.74
o Group 5	17.96	5.74
o Group 6	18.11	5.74
o Group 7	18.31	5.74

Note: A Hazardous Waste Removal Differential must be added to the base rate if work is performed inside the boundary of a Federally Designated Hazardous Waste Site. For further information on this, call the Prevailing Wage Rate Coordinator at 731-4466.

Zone Differential for Truck Drivers
(Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the Cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

TRUCK DRIVERS (continued)

Reference Cities

Albany	Eugene	Longview	Portland
Astoria	Goldendale	Madras	Port Orford
Baker	Grants Pass	Medford	Reedsport
Bend	Hermiston	McMinnville	Roseburg
Brookings	Hood River	Newport	Salem
Burns	Klamath Falls	Oregon City	The Dalles
Coos Bay	LaGrande	Ontario	Tillamook
Corvallis	Lakeview	Pendleton	

Work

Group

A-Frame or Hydra-lift Truck w/load bearing surface. 1

Battery Rebuilder 1

Bus or Man-Haul Driver. 1

Concrete Buggies (Power operated) 1
Drivers and Helpers handling sacked cement—add 15¢ per hour

Dump Trucks, Side, End and Bottom Dumps, including Semi-Trucks and trains or combinations thereof:

Up to and inc. 10 cu. yds.	1
Over 10 cu. yds. and inc. 30 cu. yds.	3
Over 30 cu. yds. and inc. 50 cu. yds.	4
Over 50 cu. yds. and inc. 60 cu. yds.	5
Over 60 cu. yds. and inc. 80 cu. yds.	6
Over 80 cu. yds. and inc. 100 cu. yds.	7

Dumpsters or Similar Equipment—all sizes 2

Flaherty Spreader Driver or Leverman 2

Lift Jitneys, Fork Lifts—all sizes—used in loading, unloading & transporting material on job site. 1

Loader and/or Leverman on Concrete Dry Batch Plant, manually operated. 1

Low Bed Equipment, Flat Bed Semi-Truck and Trailer or Doubles transporting equipment or wet or dry materials 2

Lubrication Man, Fuel Truck Driver, Driver, Tireman, Wash Rack, Steam Cleaner or combination. 1

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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TRUCK DRIVERS (Continued)

Lumber Carrier, Driver-Straddle Carrier--used in loading, unloading and transportation of material on job site.	2
Oil Distributor Driver or Leverman.	2
Pilot Car.	1
Slurry Truck Driver or Leverman.	1
Solo Flat Bed and Misc. Body Trucks-- 0-10 tons.	1
Transit Mix and Wet or Dry Mix Trucks:	
5 cu. yds. and under.	1
Over 5 cu. yds. and inc. 7 cu. yds.	2
Over 7 cu. yds. and inc. 11 cu. yds.	3
Over 11 cu. yds. and inc. 15 cu. yds.	4
Team Drivers.	1
Tireman, full-time basis.	1
Truck Helper.	1
Truck Mechanic--Welder--Body Repairman ...	3
Truck Mechanic Helper.	1
Water Wagons (Rated Capacity) up to:	
3000 gallons.	1
3000 to 5000 gallons.	2
5000 to 10,000 gallons.	3
10,000 to 15,000 gallons.	4
Winch Truck--takes classification of truck on which winch is mounted	

WELDERS; RIGGERS

Receive rate for craft performing operation to which
welding and rigging are incidental.

PAYROLL

Payroll and Certified Statement
Form - For Use in Complying
with ORS 279.354

NAME OF CONTRACTOR				OR SUBCONTRACTOR				ADDRESS											
								Phone: ()											
FOR WEEK ENDING		CONTRACTING AGENCY				PROJECT AND LOCATION				PROJECT OR CONTRACT NO.				DATE CONTRACT SPECIFICATIONS FIRST ADVERTISED FOR BID					
		Phone ()																	
(1) NAME, ADDRESS, AND SOCIAL SECURITY NUMBER OF EMPLOYEE	(2) W/H EX- EMP- TIONS	(3) WORK CLASSIFICATION (include group number if applicable)	OT or ST.	(4) DAY AND DATE							(5) TOTAL HOURS	(6) RATE OF PAY	(7) GROSS AMOUNT EARNED	(8) DEDUCTIONS					(9) NET WAGE PAID FOR WEEK
														FICA	FEDERAL WITH- HOLDING TAX	STATE WITH- HOLDING TAX	OTHER	TOTAL DEDUC- TIONS	
				HOURS WORKED EACH DAY															
			O																
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CERTIFIED STATEMENT

I _____, _____
(Name of signatory party) (Title)

do hereby state:

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

_____ on the _____
(Contractor, Subcontractor or Surety) (Building or work)

_____ ; that during the payroll period commencing on the _____ day
of _____, 19____, and ending the _____ day of _____, 19____,
all persons employed on said project have been paid the full weekly wages earned, that no rebates have
been or will be made either directly or indirectly to or on

behalf of said _____
(Contractor, Subcontractor or Surety)
from the full weekly wages earned by any person, and that no deductions have been made either directly
or indirectly from the full wages earned by any person, other than permissible deductions as specified in
ORS 652.610, and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above
period are correct and complete; that the wage rates for workers contained therein are not less than the
applicable wage rates contained in any wage determination incorporated into the contract; that the
classifications set forth therein for each worker conform with work performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide
apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of
Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists
in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of
Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS OR PROGRAMS:

In addition to the basic hourly wage rates paid to each worker listed in the above referenced
payroll, payments of fringe benefits as listed in the contract have been or will be made to appro-
priate programs for the benefit of such employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH:

Each worker listed in the above referenced payroll has been paid, as indicated on the payroll, an
amount not less than the sum of the applicable basic hourly wage rate plus the amount of the
required fringe benefits as listed in the contract, except as noted in Section 4(c) below.

(c) EXCEPTIONS:

EXCEPTION (CRAFT)	EXPLANATION
REMARKS	

I have read this certified statement, know the contents thereof and it is true to my knowledge.

NAME AND TITLE

SIGNATURE

☐

Contractor

☐

Subcontractor

☐

Surety

File this form with the contracting agency and send a true copy to the Bureau of Labor and Industries,
Wage and Hour Division, 800 NE Oregon St. # 32, Portland, OR 97232.

BUREAU OF LABOR AND INDUSTRIES - WAGE AND HOUR DIVISION

INSTRUCTIONS FOR COMPLETING PAYROLL AND CERTIFIED STATEMENT FORM, WH-38
(Rev 6/91)

General: This form meets needs resulting from the 1983 amendments to the Prevailing Wage Rate Law. Under this amended law, the contractor is required to pay not less than fringe benefits as predetermined by the Bureau of Labor and Industries, in addition to payment of not less than the predetermined rates. The contractor's obligation to pay fringe benefits may be met either by payment of the benefits to the various plans, funds, or programs or by making these payments to the employees as cash in lieu of fringe benefits.

This form provides for the contractor's showing of the payroll and all monies paid to the employees, whether as basic rates or as cash in lieu of fringe benefits and provides for the contractor's representation in the certified statement that he/she is paying other benefits required by the contract and not paid as cash in lieu of fringe benefits. Detailed instructions concerning the preparation of the form follow:

Fill in all boxes at the top of the form. Be sure to enter the date the contract was first advertised for bid by the contracting agency. This date should appear on the bid documents.

Column 1 - Name, Address, and Social Security number of Employee: The employee's full name must be shown on each payroll submitted. The employee's address must also be shown on the first payroll submitted. The address need not be shown on subsequent payrolls unless the address changes. Although not required, space is available in the name and address section so that Social Security numbers can be listed.

Column 2 - Withholding Exemptions: This column is merely inserted for the employer's convenience and is not a requirement.

Column 3 - Work Classifications: List classification descriptive of work actually performed by employees. Include group number when appropriate. Consult classifications and minimum wage schedule set forth in contract specifications. If additional classifications are deemed necessary, see Contracting Officer or Agency representative. Employee may be shown as having worked in more than one classification provided accurate breakdown of hours so worked is maintained and shown on submitted payroll by use of separate line entries.

Column 4 - Hours worked: Enter as overtime hours all hours worked in excess of 8 hours per day, all hours worked on Saturday and Sunday and hours worked on legal holidays as defined in ORS 279.334.

Column 5 - Total: Self-explanatory.

Column 6 - Rate of Pay, including Fringe Benefits: In the rate of pay box, list actual hourly rate paid the employee for straight time worked plus any cash in lieu of fringe benefits paid to the employee. When recording the straight time hourly rate, any cash paid in lieu of fringe benefits may be shown separately from the basic rate, thus \$12.50/2.35. This is of assistance in correctly computing overtime. See "Fringe Benefits" below. Payment of not less than time and one half the basic or regular rate paid is required for overtime under ORS 279.334. In addition to paying not less than the predetermined rate for the classification in which the employee works, the contractor shall pay to approved plans, funds, or programs or shall pay as cash in lieu of fringe benefits, amounts predetermined as fringe benefits in the wage decision made part of the contract. See "FRINGE BENEFITS" below.

FRINGE BENEFITS -- Contractors who pay all required fringe benefits: A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Commissioner of the Bureau of Labor and Industries shall continue to show on the payroll the basic cash hourly rate and overtime rate paid to employees. Such a contractor shall check paragraph 4(a) of the Certified Statement to indicate that he/she is also paying to approved plans, funds, or programs not less than the amount predetermined as fringe benefits for each craft. Any exceptions shall be noted in Section 4(c).

Contractors who pay no fringe benefits: A contractor who pays no fringe benefits shall pay to the employee, and insert in column (6) of the payroll, an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringe benefits, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on basic or regular rate, plus the required cash in lieu of fringe benefits at the straight time rate. In addition, the contractor shall check paragraph 4(b) of the Certified Statement to indicate that he/she is paying fringe benefits in cash directly to employees. Any exceptions shall be noted in Sections 4(c).

Use of section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination required is obliged to pay the deficiency directly to the employees as cash in lieu of fringe benefits. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in Section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employee as cash in lieu of fringe benefits and the hourly amount paid to plans, funds, or programs as fringe benefits. The contractor shall pay, and shall show that he/she is paying to each such employee for all hours (unless otherwise provided by applicable determination) worked on the project an amount not less than the predetermined rate plus cash in lieu of fringe benefits as shown in Section 4(c). The rate paid and amount of cash paid in lieu of fringe benefits per hour should be entered in column 6 on the payroll. See paragraph on "Contractors who pay no fringe benefits" for computation of overtime rate.

Column 7 - Gross Amount Earned: Enter gross amount earned on this project. If part of the employees' wage was earned on projects other than the project described on this payroll, enter in column 7 first the amount earned on the project and then the gross amount earned on all projects, thus \$63.00/120.00.

Column 8 - Deductions: Four columns are provided for showing deductions made. If more than four deductions should be involved, use first 3 columns; show the balance of deductions under "Other" column; show actual total under "Total Deductions" column; and in an attachment to the payroll describe the deductions contained in the "Other" column. All deductions must be in accordance with the provisions of ORS 652.610. If the employee worked on other jobs in addition to this project, show actual deductions from gross wage, but indicate that deductions are based on gross wages.

Column 9 - Net Wages Paid for Week: Self-explanatory

Certified Statement Required by ORS 279.354: While this form need not be notarized, the Certified Statement is subject to the penalties provided by ORS 279.990. Accordingly, the party signing this required statement should have knowledge of the facts represented as true.

Space has been provided between items (1) and (2) of the Statement for describing any deductions made. If all deductions made are adequately described in the "Deductions" column above, state "See Deductions column in this payroll." See paragraph entitled "FRINGE BENEFITS" above for instructions concerning filling out paragraph 4 of the Statement.

PLANNED PUBLIC IMPROVEMENT SUMMARY

FISCAL YEAR _____ - _____

PAGE _____ OF _____

(Name of State or Local Government Agency)

Project Number	Project Name	Project Type	Project Location	Estimated Project Cost	Agency or Contract Work

ORS 279.023 generally states that not less than 30 days prior to adoption of its budget for the subsequent budget period, each public agency shall prepare and file with the Commissioner of the Bureau of Labor and Industries a list of every public improvement known to that agency that the agency plans to fund in the budget period... If the agency decides to use its own equipment and personnel for constructing projects estimated to cost more than \$50,000, the agency shall show that the decision conforms to the policy of the State of Oregon that public agencies shall make every effort to construct public improvements at the least cost to the public agency, and the public agency shall cause to be kept and preserved a full, true and accurate account of the costs of performing the work including all engineering and administrative expenses and a reasonable estimate of the cost, including investment cost, of the equipment used. **NOTE:** This Improvement Summary together with the project estimate and least cost determination constitutes a public record available in the usual manner for public review or copying. Mail a copy of this public improvement summary to: Wage and Hour Division, 800 NE Oregon St. # 32, Portland, Oregon 97232.

(Name of State or Local Government Agency)

FUND:
PROJECT NUMBER:

[illegible]

(Name of Agency)

(Agency Official)

BUREAU OF LABOR AND INDUSTRIES
NOTICE OF PUBLIC WORKS CONTRACT
(For use by Public Agencies in Complying with ORS 279.363)

1. CONTRACTING AGENCY INFORMATION

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE NUMBER (____) _____

AGENCY CONTRACT REPRESENTATIVE _____

TELEPHONE NUMBER (____) _____

2. PRIME CONTRACTOR INFORMATION

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE NUMBER (____) _____

CONSTRUCTION CONTRACTORS REGISTRATION # _____

WORKERS' COMP INSURANCE COMPANY _____

WORKERS' COMP POLICY/BINDER # _____

3. CONTRACT INFORMATION

A. CONTRACT NAME AND NUMBER _____

B. LOCATION OF WORK _____

C. COUNTY _____

D. AMOUNT OF THE AWARD _____

E. SOURCE OF FUNDS (i.e. 100% Federal Funds, 50/50
Federal/State, 100% Local, etc.)

F. DATE CONTRACT SPECIFICATIONS ADVERTISED FOR BID

G. DATE CONTRACT AWARDED _____

H. CONTRACT COMMENCEMENT DATE _____

RETURN THIS COMPLETED FORM TO:

Bureau of Labor and Industries
Wage and Hour Division Rm 1160
Prevailing Wage Section
800 NE Oregon # 32
Portland, Oregon 97232

BUREAU OF LABOR AND INDUSTRIES
800 NE OREGON STREET # 32
PORTLAND, OREGON 97232

ADDRESS CORRECTION REQUESTED

BULK RATE

U.S. Postage
PAID
Portland, Oregon

Permit No. 0701

City of Newberg
Attn: Department of Public Works
414 E. 1st Street
Newberg, OR 97132

**GENERAL
REQUIREMENTS**

PRINCIPLE FEATURES

The work to be completed under this contract consists of surface preparation and painting of the existing exposed and submerged interior metal in Clarifier Nos. 1 and 2 at the Waste Water Treatment Plant, 2301 Wynyoski Road, Newberg, Oregon. The principle features of the work are as follows:

1. Sandblast and paint submerged steel with coal tar epoxy paint system.
2. Sandblast and paint non-submerged steel with a polyamide epoxy paint.
3. Removal and replacement of bolts in feedwell and trough.
4. Performance of such additional and incidental work as is called for by the specifications and plans.

ADDRESSES AND REPRESENTATIVES

All correspondence to the City or the engineer shall be addressed as follows:

City of Newberg
Department of Public Works
414 E. First Street
Newberg, Oregon 97132

The contact person for this project is William Tutka, Project Engineer, phone number is (503) 537-1252.

The contractor shall inform the City of their representative to whom correspondence is to be directed, and the phone number and address of an emergency contact person.

BASIS OF AWARD

The City of Newberg reserves the right to award a contract to the firm submitting the most qualified proposal; to postpone the acceptance of the proposal and the award of the contract for a period not to exceed 30 days; or to reject any and all proposals received.

The contract will be awarded to the lowest responsible bidder for the total of both clarifiers. The City reserves the right to delete one of the clarifiers from the contract prior to award.

PRE-BID SITE TOUR

A pre-bid site tour is scheduled at 2:00 p.m. on Friday, August 7, 1992, to view the proposed work. One of the clarifiers will be ready for the contractor to inspect.

INSURANCE

The contractor's general liability insurance shall hold the City harmless from claims due to the potential health and safety risks of the work to be performed under this contract.

NOTIFICATION OF STRUCTURAL DEFICIENCIES

The contractor shall stop work and notify the engineer immediately upon observing structural deficiencies during surface preparation of other work. The owner reserves the right to suspend the contractor's work and arrange for repairs if structural deficiencies are found.

COORDINATION OF WORK OF OTHERS

Construction of additional facilities will be under way at the Waste Water Treatment Plant during the contract time for this project. The contractor shall be responsible for coordinating activities with the contractor already on site. The staging area for this project shall be limited to the area shown on Exhibit "A". At no time shall access roads or roads within the plant site be blocked, sludge trucks must be able to drive a loop, they cannot turn around.

At no time shall the contractor interfere or hinder the operation of the plant. The contractor shall be responsible for all damages due to interference in plant operations. The plant offices and labs are not available for use by the contractor.

STANDARD SPECIFICATIONS

The applicable standard specifications on this project are the 1984 Standard Specifications for Public Works Construction of the City of Newberg and 1990 Standard Specifications for Public Works Construction, Oregon Chapter of American Public Works Association. In case of discrepancies, the Newberg Code will govern. Division 1 of the APWA Standard Specifications shall be amended as follows.

102.1.00 Prequalification of Bidder

Bids will be accepted only from contractors who have been prequalified by the City of Newberg for this project.

104 Scope of Work

104.2.00 Plans and Specifications - Add the following subsection:

104.2.01 Project Plans

The Eimco Shop Drawings are included as reference for the contractor. The plans which are applicable to the work to be performed under this contract bear the title and date as follows:

CITY OF NEWBERG
PUBLIC WORKS DEPARTMENT
CONTRACT DOCUMENTS FOR PROPOSED
CLARIFIER PAINTING PROJECT
WASTE WATER TREATMENT PLANT
YAMHILL COUNTY
AUGUST 1992

105 Control of Work

105.21.00 Cleanup

105.21.01 Restoration of Project Site - Add the following subsection:
The contractor shall restore the project site to a condition equal to or better than existing prior to construction. Grass shall be reestablished where damaged, damaged walkways, curbing, and pavement shall be replaced and all existing facilities shall be restored if damaged.

107 Legal Responsibilities

107.5.00 Industrial Accident Protection - Add this sentence:

The contractor shall furnish at the time the contract is executed, Certification of Workers Compensation Coverage.

107.19.00 Waste Sites

107.19.01 Project Waste Site - Add this subsection:

The contractor shall be responsible for securing a waste site and all permits associated with project waste disposal. City of Newberg Landfill on Fourteenth Street is available for project waste disposal.

108 Prosecution and Progress of Work

108.5.00 Contract Time - The contract time shall be as follows:

The contract time shall be September 1, 1992 through October 30, 1992. Only one clarifier may be renovated at a time. Renovation of both clarifiers shall be complete in all respects (including coating cure times) on or before 4:30 p.m. on October 30, 1992. Work on the second clarifier may not be started until work on the first clarifier is complete in all respects. The engineer must approve each clarifier's return to service.

Work hours shall be confined to Monday through Friday, 8:00 a.m. to 5:00 p.m., during normal plant operating hours. At no time shall the contract extend work hours beyond those specified above. Access to the plant will not be available outside of normal operating hours.

108.5.03 Adjustment of Contract Time - Add the following paragraph after the first paragraph of this subsection:

The contractors request for adjustment of contract time shall be supported by the approved project schedule as listed in 108.1.00. The request shall include submittal of a revised project schedule indicating which activities have been delayed as well as the extent and nature of the delays. The impact of each delay on the contract completion date shall be illustrated in the revised project schedule.

108.6.00 Liquidated Damages

The daily amount of liquidated damages will be \$150.00 per calendar day plus any and all civil penalties resulting from the contractors negligence or failure to successfully complete this contract.

109.2.00 Payment for Work

Payment for the protective coating application shall include all materials, labor, tools, equipment, and other incidentals to perform the work as specified herein the specifications. Payment for preparation of surfaces including sandblasting, cleanup, protection of bearings, leaking and seepage around relief valves and influent pipe, is considered incidental to the work in this section with the exception of the item listed as bolt removal and replacement. Payment shall be made on a lump sum price basis as itemized under "Sandblasting and Painting", Clarifier No. 1 or 2 in the Bid Schedule.

Payment for bolt removal and replacement shall include all materials, labor, tools, equipment and other incidentals to replace failed bolts in the submerged steel sections of the clarifier. The cost to apply protective coatings to the replaced bolts shall be included in the lump sum Sandblasting and Painting item above. Payment shall be made on a unit price basis as itemized under "Bolt Removal and Replacement" Clarifier No. 1 or 2 in the Bid Schedule.

PROJECT SPECIFICATIONS

PROJECT SPECIFICATIONS

SP-1 DEWATERING, CLEANING AND DISINFECTION

The contractor shall give the plant two (2) working days notice of intent to begin construction on each clarifier so that plant personnel can draw them down. The plant crew will clean the clarifier and disinfect each before turning it over to the contractor for surface preparation, painting, and repair. The clarifier No. 1 is currently ready and No. 2 will be put into the same condition upon completion of the contract work and restoring to service the No. 1 clarifier.

SP-2 BOLT REMOVAL AND REPLACEMENT

The structural steel shapes in the clarifier are restrained with bolts which are failing from rust. The integrity of the bolt can not be determined until the rust has been removed, therefore the contractor shall begin this project by removing the rust surface on the bolts and nuts so the engineer can determine which bolts will be replaced. The contractor can remove the rust by mechanical tools or sandblast whichever method he prefers. The bolts should be removed with a wrench however some bolts might require a cutting torch. If the torch is necessary, the contractor shall be cautious to restrict the heat of the torch so as to disturb as little of the surrounding metal and paint system as possible. Once the bolt and nut has been removed, the damaged paint around the bolt hole shall be cleaned to bare metal and reprimed as detailed for repair of failed areas as described elsewhere in these specifications. The bolt shall be Hex Head 5/8-11 NC by 1.5 inch, Stainless Steel with nut.

SP-3 SURFACE PREPARATION, FURNISHING AND APPLICATION OF PROTECTIVE COATINGSGeneral

This section covers the work necessary to prepare surfaces and furnish and install protective coatings on clarifiers Nos. 1 and 2. It is the intent that existing exposed and submerged metal surfaces be painted, whether specifically mentioned or not, unless specifically excluded.

Surfaces to be painted

Submerged metal: This system shall be used on all metal of the clarifier subject to submersion, including but not limited to the following:

1. Sludge rake arm assembly and supports.
2. Feedwell and supports.
3. Feedwell skimmer.
4. Collection box.
5. Skimmer arm and supports.
6. Scum box and supports.
7. Baffle and supports.
8. Launder trough and supports.
9. Launder trough weirs.
10. 24" diameter trough effluent pipe.
11. 42" diameter influent column (visible parts only)
12. 6" diameter scum effluent pipe.

Exposed metal: This system shall be used on all metal surfaces of the clarifier not subject to immersion, including but not limited to catwalk, drive platform and the supports.

It is not intended that the mechanism's be unbolted or disassembled, but it is required that all exposed submerged surfaces be blasted and paint coated to the MDFT as specified in these specifications.

Surfaces NOT to be painted

The following surfaces shall not be painted and shall be protected during surface preparation and painting:

1. Nonferrous and corrosion resistant ferrous alloys such as copper, bronze, monel, aluminum, chromium plate, and stainless steel.
2. Nonmetallic materials such as glass, PVC, wood, porcelain, neoprene and plastic.
3. Perimeter guardrail.
4. Walkway galvanized surfaces.
5. Exercise special care to protect the bearing surfaces under walkway at center column from sandblast abrasive materials. Also do not paint the drive motor and gearbox.

Quality Assurance

At a minimum, the paint manufacturer's representative shall visit the job site during and after surface preparation and after the first coat of paint has been applied, and as may be required for quality assurance. On site visits will help determine compliance with the manufacturer's application recommendations and this specification. Visits will also be made, as necessary, to resolve field problems involving the manufacturer's products furnished under this contract. Visits by the manufacturer's representative will be coordinated with the engineer. Upon completion of the work, the contractor shall furnish the engineer written notice from the manufacturer's representative that each paint system used has reached final cure.

Inspection

The contractor shall give the engineer a minimum of one (1) work day advance notice of the start of any surface preparation work or coating application work. All such work shall be performed only in the presence of the engineer, unless the engineer has granted prior approval to perform such work in his/her absence.

Inspection by the engineer, or inspection waiver of a portion of the work, shall not relieve the contractor of the responsibility to perform the work in conformance with the specifications.

The contractor shall leave all staging up until the engineer has inspected and approved of the surface preparation or paint coatings. Staging removed prior to the engineers approval shall be replaced.

All phases of the work shall be available for inspection by the engineer or manufacturer' representative.

For all coatings subject to immersion, full cure must be obtained for the completed system prior to returning the clarifiers to service. Consult the coating manufacturer's written instructions for these requirements. The coating shall not be immersed for any purpose until completion of the curing cycle, as stated in writing by the manufacturer's representative.

Surface Preparation

All workmanship for metal surface preparation as specified shall be in strict conformance with the Current Steel Structures Painting Council (SSPC) Specifications as follows:

Solvent Cleaning	SP 1
Hand Tool Cleaning	SP 2
Power Tool Cleaning	SP 3
White Metal Blast Cleaning	SP 5
Commercial Blast Cleaning	SP 6
Brush-Off Blast Cleaning	SP 7
Pickling	SP 8
Near-White Blast Cleaning	SP 10

Wherever the words "solvent cleaning", "hand tool cleaning", "wire brushing", or "blast cleaning", or similar words of equal intent are used in these specifications or in paint manufacturer's specifications, they shall be understood to refer to the applicable SSPC specifications listed above.

Where OSHA or EPA regulations preclude standard abrasive blast cleaning, wet or vacu-blast methods may be required. Coatings manufacturers' recommendations for wet blast additives and first coat application shall apply.

The contractor shall comply with all applicable federal, state and local air pollution and environmental control regulations for blast cleaning and disposal of spent aggregate and debris.

The contractor shall prevent spent aggregate and debris from entering the existing hydrostatic relief valves and the sludge pocket on the concrete floor of the clarifier. The sludge pocket shall be covered to prevent the entry of such material. Maximum care should be taken by the contractor to protect the hydrostatic relief valves.

Alternatives to standard abrasive blast cleaning methods will be permitted subject to a review by the engineer.

Prepare failing areas in the existing coating with a near white blast cleaning, SSPC-10, clean and apply epoxy polyamide primer coat. Coverage to be 3 to 5 MDFT. After the recommended cure time on the repaired areas and in accordance with the manufacturer's recommendations prepare all immersed steel surfaces with a brush off blast cleaning in strict accordance with SSPC-7. The remaining surface shall be scarified, or deglossed to provide a 2.0 to 3.0 mils profile. Remove all loose paint back to a sound substrata. The project engineer will be the final judge of the readiness of the remaining paint surface to accept the new paint system.

Paint Application

The contractor shall furnish to the engineer, the manufacturers' written paint application specifications prior to painting. Cleaned surfaces and all coats shall be inspected by the engineer prior to applications of the next coat. All coatings and paints shall be applied in strict conformance with the manufacturers' recommendations, as approved by the engineer. Sufficient time shall be allowed between coats to assure thorough drying of previous coats, as outlined in the manufacturers' recommendations.

Film Thickness

Coverage is listed as either total minimum dry film thickness in mils (MDFT) or the spreading rate in square feet per gallon (SFPG). Per coat determinations are listed as MDFTPC or SFPGPC. The number of coats is the minimum required irrespective of the coating thickness. Additional costs may be required to obtain the minimum required paint thickness, depending on the method of application, differences in manufacturers' products, and atmospheric conditions. Maximum film build per coat shall not exceed the coating manufacturer's recommendations.

Film thickness measurements and electrical inspection of the coated surfaces shall be performed with properly calibrated instruments. Repaint and repair as necessary for compliance with the specifications. All coats will be subject to inspection by the engineer and the manufacturer's representative.

Particular attention shall be given edges, angles, flanges, etc. Special care shall be taken where insufficient film thicknesses are likely to be present, to insure proper coverage.

After repaired and repainted areas have dried sufficiently, final acceptance tests will be conducted by the engineer. Coating thickness, in mils, will be measured with a magnetic type dry film thickness gauge such as Mikrotest or Elcometer. Discontinuities and voids in the coatings, will be determined with an electrical holiday detector, low voltage, wet sponge type such as Model M-1, manufactured by Tinker and Rosor, San Gabriel, CA.

Damaged Coatings

Damaged coatings, pinholes, and holidays shall have the edges feathered and repaired in accordance with the recommendations of the paint manufacturer.

All finish coats, including touch-up and damage repair coats shall be applied in a manner which will present a uniform texture and color.

Unsatisfactory Application

In an improper finish color, or insufficient film thickness exists, the surface shall be cleaned and top coated with the specified paint material to obtain the specified color and coverage. The manufacturer and engineer shall furnish the surface preparation information for the repair.

All visible areas of chipped, peeled, or abraded paint shall be hand or power sanded, feathering the edges. The areas shall then be primed and finish coated in accordance with the specifications. A finish sanding and top coat may be required by the engineer, depending on the extent of the repair.

All work shall be free of runs, bridges, shiners, laps, or other imperfections. Evidence of these conditions shall be cause for rejection.

Any defect in the coating system shall be repaired by the contractor per written recommendations of the manufacturer.

Protective Coatings Systems

System No.	Title	Color
1	Failed Paint Areas	Red
2	Submerged Metal	Black
3	Exposed Metal	Beige

System No. 1

Prepare with SSPC-10, clean and apply epoxy polyamide primer coat. Coverage to be 5 MDFT.

System No. 2

Prepare by removing all loose paint and profile remaining primer using a SSPC-7 brush off blast cleaning. Apply a prime and a finish coat of 5 MDFT each of coal tar epoxy for a total of 10 MDFT.

System No. 3

Prepare by removing all loose paint and profile existing primer using a SSPC-7 brush blast cleaning. Apply a prime and finish coat of polyamide epoxy for a total thickness of 10 MDFT.

Suggested Paint Specifications:

	<u>Prime Coat</u>	<u>Finish Coat</u>
System No. 1		
Tnemec	Series 66-1211 epoxoline	-
Porter	7530 magna-line	-
System No. 2 - Total 10 MDFT		
Tnemec	Series 46H-413	46H-413
	hi-build tneme-tar	
Porter	Series 7000	Series 7000
	tarset	
System No. 3 - Total 10 MDFT		
Tnemec	Series 66-1211 epoxoline	66-1211
Porter	7530 magna-line	7530

SP-4 MATERIALSMaterial Delivery and Storage

All materials shall be delivered to the project site in unopened containers plainly showing the product name, date of manufacture, color, and manufacturer's name. All material shall be stored in accordance with the manufacturer's recommendations.

All paint and coating materials shall be kept sealed when not in use. Note: the cleanup requirements on page 20, environmental contamination will not be tolerated.

Warranty

The contractor and coating manufacturer shall warrant jointly and severally to the owner and guarantee the work under this section against defective workmanship and materials for a period of not less than one (1) year commencing on the date of final acceptance of the work.

Warranty Inspection

A warranty inspection of the paint system will be made within the warranty period. Any defects in the coating systems shall be repaired by the contractor, all associated costs shall be borne by the contractor.

Submittals

Submittals during construction shall be made in accordance with these Special Provisions. The following information shall be provided:

1. Data Sheets: The contractor shall submit to the engineer, a Paint System Data Sheet (PSDS), Technical Data Sheet, Material Safety Data Sheet (MSDS) and color samples for each product used. The required information shall be submitted on a system basis. The contractor shall also provide copies of the paint system submittals to the coating applicator. A sample PSDS is appended at the end of this section. Indiscriminate submittal of manufacturers' literature only will not be accepted.

Paint and Coatings Suppliers

The following suppliers are preapproved. Alternate suppliers will be considered, subject to approval by the engineer. The corporate office of the supplier is listed.

Carboline Coatings Company, St. Louis, MO
Porter Coatings, Louisville, KY
Tnemec Company, Inc., Kansas City, MO
Valspar Corporation, Azusa, CA

Paint and Coatings Materials

The following paint products are listed according to their approximate order of appearance in the paint systems. Deviations from the specified paint systems must be submitted for the engineer's approval prior to use. The suppliers are as listed above.

All products submitted for use shall conform to all federal, state and local environmental and safety laws. Specific information may be secured through the local office of the Air Pollution Control Officer.

ProductDefinition

Polyamide Epoxy

Polyamide epoxy coating

Coal-Tar Epoxy

Amine or polyamide type, 70% volume solids minimum, suitable for immersion service.

Paint Colors

Colors are as herein designated. Submit color chips for engineer's approval prior to shipment of paint to the work site.

SP-5 WORKMANSHIP

General

All materials of each paint system, including primer and finish coats, shall be produced by the same paint manufacturer. Thinners, cleaners, driers, and other additives shall be as recommended by the paint manufacturer.

Protection of Materials Not to be Painted

Provide clean plastic or canvas tarpaulin covers around perimeter of the clarifier drive head to prevent blasting dust from entering the clarifier drive head bearings, gears, motors and driving mechanism.

Remove mask or otherwise protect all hardware, lighting fixtures, switch plates, aluminum surfaces, machined surfaces, couplings, shafts, bearings, nameplates on machinery and other surfaces or facilities not intended to be painted. Provide drop cloths to protect adjacent surfaces, including grass and walkways. Protect working parts of all mechanical and electrical equipment from damage during surface preparation and painting. All openings in motors shall be masked to prevent paint or sandblasting materials from entering them.

Protect existing improvements, public and private, in surrounding area from damage by the contractor's operations. Protect existing concrete basin and appurtenances from damage. The contractor is liable for all damages and will repair or replace to existing or better conditions.

Weather Limitations

Paint shall not be applied in extreme heat, temperatures below 40 degrees F, nor in a dust or smoke laden atmosphere, damp or humid weather, as specified in the manufacturers' recommendations.

Abrasive blast cleaning shall not be performed when the relative humidity exceeds 85 percent, nor when the surface temperature is less than 5 degrees F above the dew point of the ambient air. Coating manufacturer's recommendations to be strictly adhered to. Metal surfaces shall be painted the same day they are sandblasted. Surfaces that have started to rust before they are painted shall be reblasted to specified requirements.

SP-6 CLEANUP

All cloths and waste that might constitute a fire hazard shall be placed in closed metal containers or destroyed at the end of each day. Upon completion of the work, all staging, scaffolding, and containers shall be removed from the site and disposed of in accordance with current Federal and State DEQ and EPA requirements. Paint spots, oil, or stains on adjacent surfaces and floors shall be completely removed, and the entire job left clean and acceptable to the engineer. Final payment will be withheld until cleanup has been approved by the engineer.

VICINITY MAP

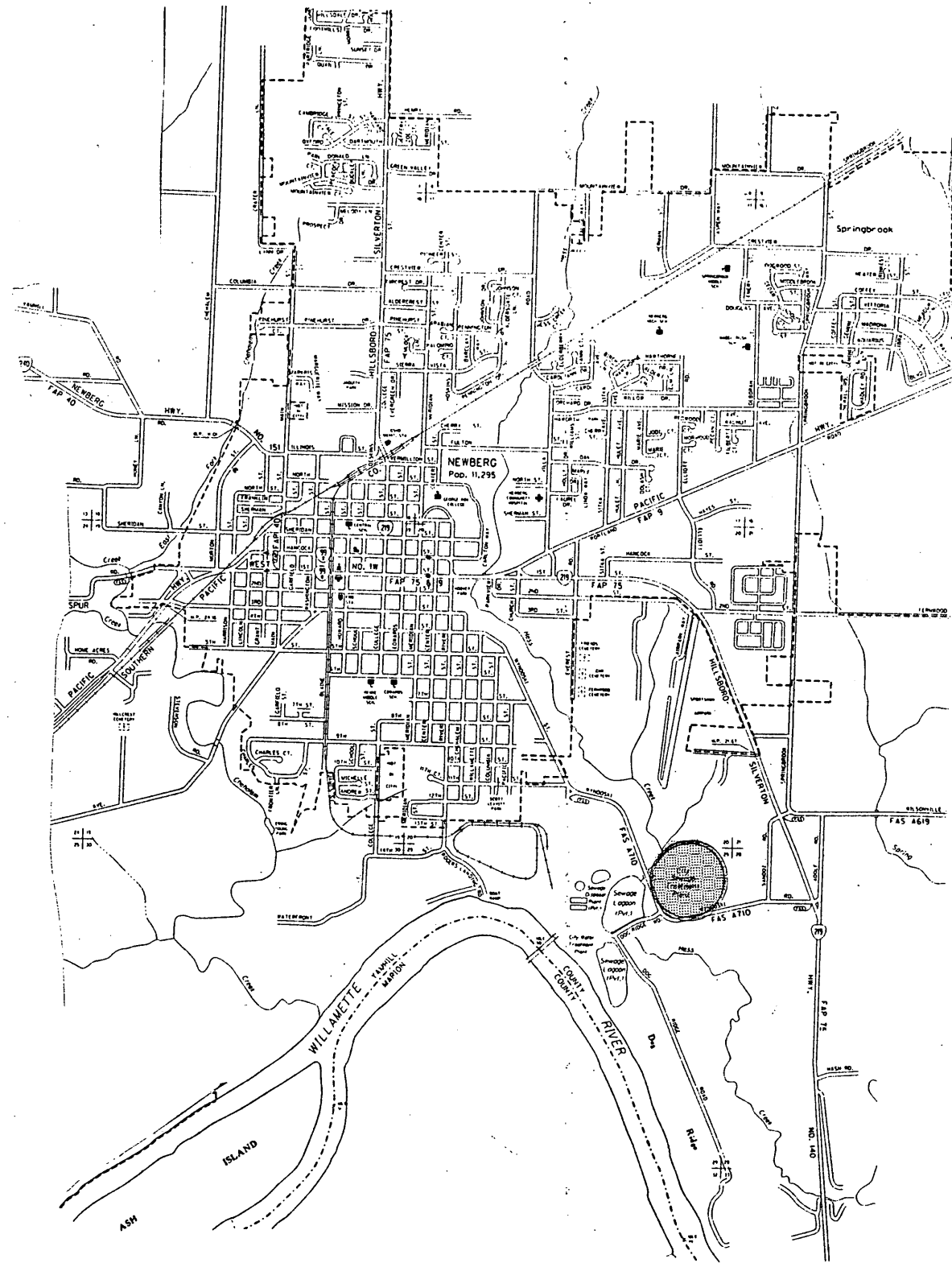


EXHIBIT A

ENGINEERING DEPT.

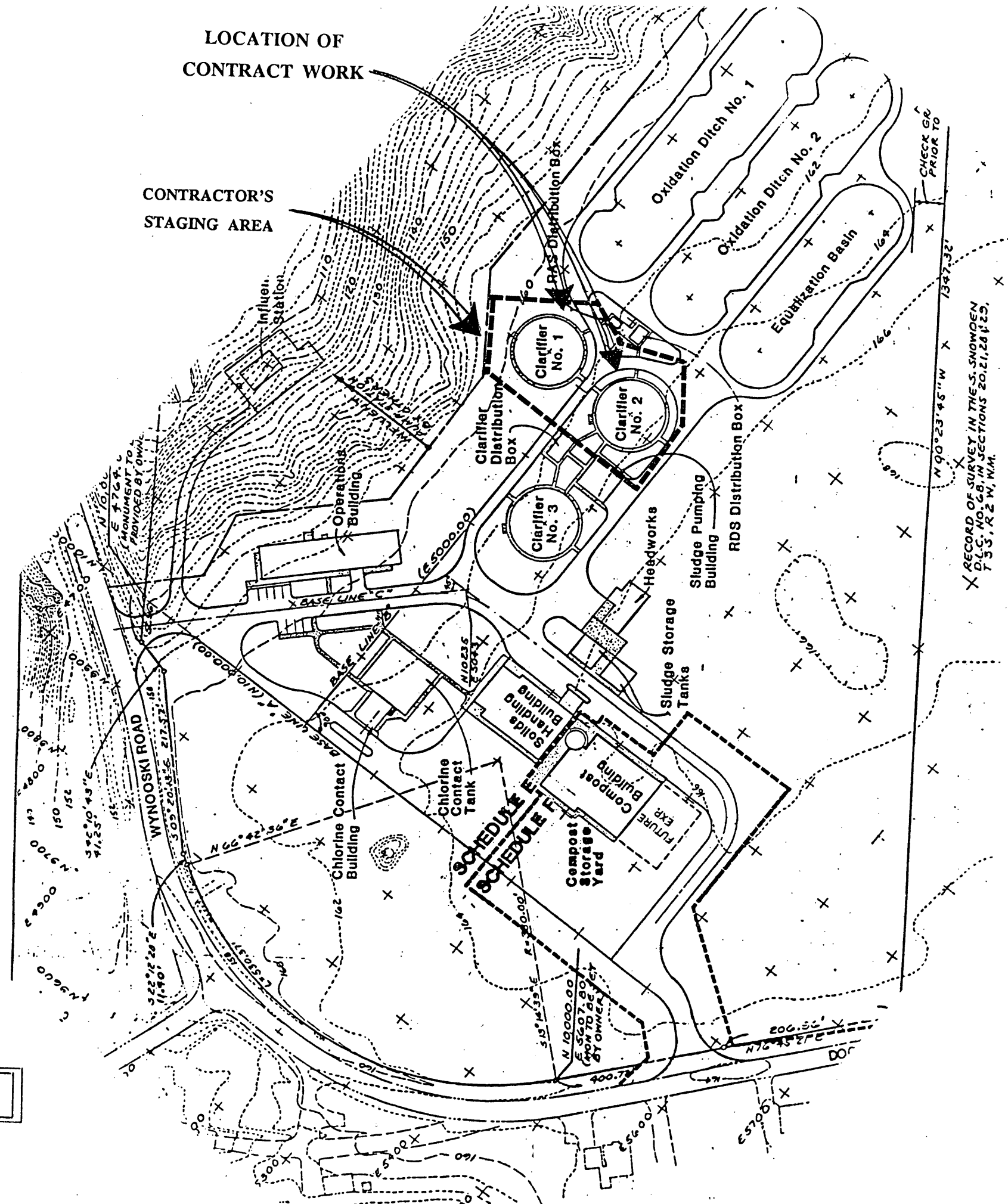
CITY of NEWBERG

STANDARD
DRAWING NO

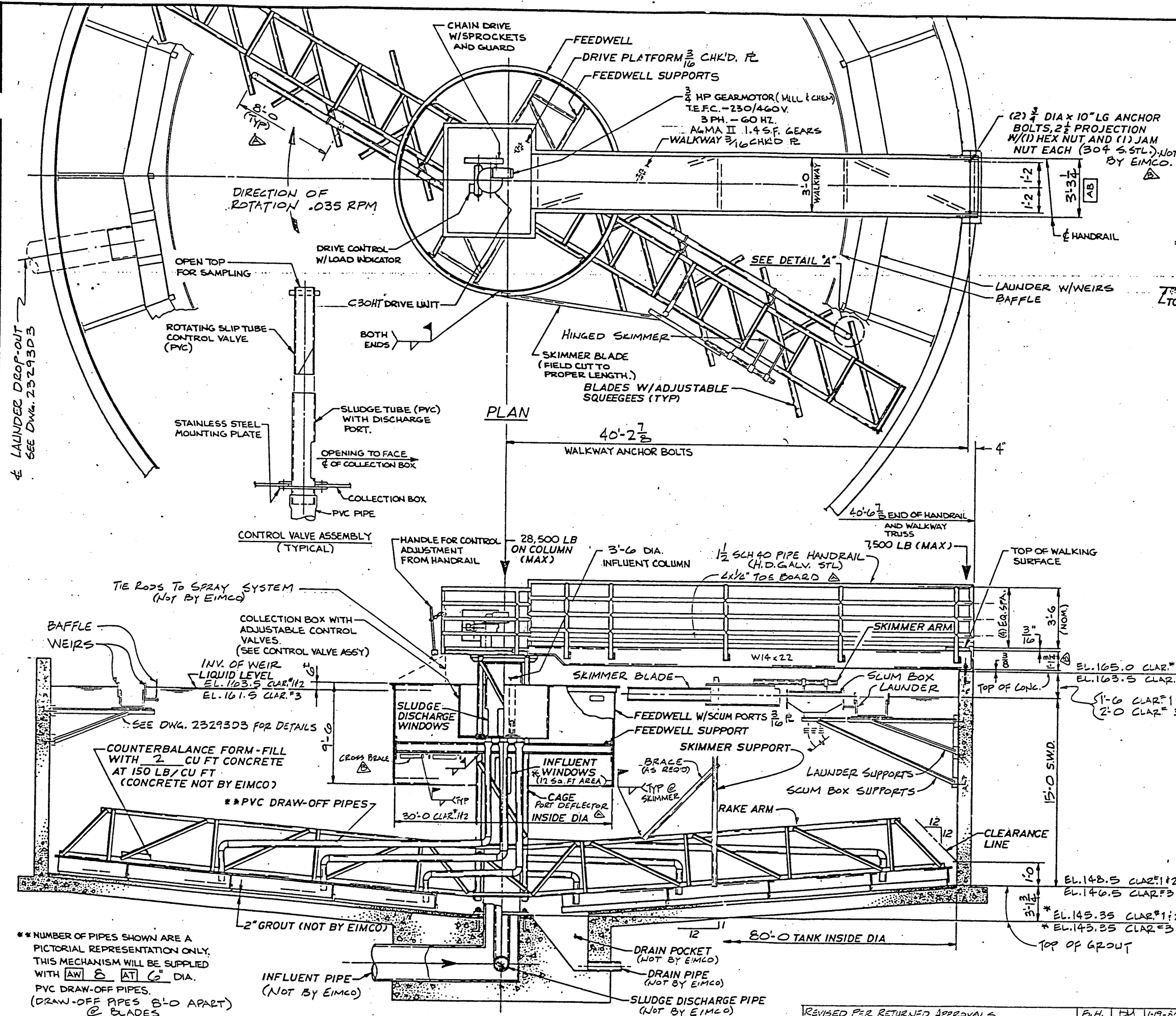
REVISIONS

LOCATION OF CONTRACT WORK

CONTRACTOR'S STAGING AREA



RECORD OF SURVEY IN THE S. SNOWDEN
D.L.C. NO. 68 IN SECTIONS 20, 21, 22, 23,
T 3 S., R 2 W., N.M.



NOTES:

1. ASTERISK * DENOTES VARIANCE FROM CONTRACT DOCUMENTS AND SHOULD BE PARTICULARLY NOTED.
2. THE FOLLOWING DEFINES THE RESPONSIBILITY OF THE EIMCO PMD OF ENVIROTECH CORPORATION (EIMCO), WITH REGARD TO THE INFORMATION AND DIMENSIONS SHOWN ON THIS DRAWING. (A) DIMENSIONS, LOADS, AND OTHER INFORMATION ARE PROVIDED TO ACCOMMODATE THE EQUIPMENT TO THE STRUCTURE AS SHOWN. (B) THE CUSTOMER IS TO PROVIDE REINFORCING STEEL AND DESIGN FOR CONCRETE STRUCTURES AND IS TO DETERMINE SIZES TO SUIT LOCAL CONDITIONS. (C) THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES UNLESS IT BEARS THE APPROVAL OF THE OWNER, THE ENGINEER OR THEIR AUTHORIZED REPRESENTATIVE. (D) THE MECHANISM SHOWN IS DESIGNED FOR DIRECTION OF ROTATION AS INDICATED. EIMCO DOES NOT ASSUME RESPONSIBILITY FOR DAMAGE IF OPERATED IN THE OPPOSITE DIRECTION. (E) CHARGES FOR MODIFICATIONS, ADDITIONS OR CORRECTIONS TO THE EQUIPMENT WILL NOT BE ACCEPTED BY EIMCO UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM AN AUTHORIZED EIMCO REPRESENTATIVE.
3. EIMCO DOES NOT FURNISH ELECTRICAL WIRING, CONDUIT OR ELECTRICAL EQUIPMENT, PIPING, VALVES OR FITTINGS, LUBRICATING OIL OR GREASE, FIELD PAINTING, FIELD WELDING OR ERECTION. (EXCEPT AS SPECIFICALLY NOTED).
4. SHOP PRIMER PAINT IS INTENDED TO SERVE ONLY AS A BONDING COAT BETWEEN METAL SURFACE AND PROTECTIVE FINISH OR SEALING COATS AS SUCH IT AFFORDS THE METAL MINIMAL PROTECTION AGAINST THE ELEMENTS. EIMCO CANNOT BE RESPONSIBLE FOR DETERIORATION OF SHOP-PRIMED EQUIPMENT DURING TRANSPORT, STORAGE OR OTHER EXPOSURE TO THE ELEMENTS PRIOR TO APPLICATION OF FINISH COATS.
5. SURFACE PREPARATION TO CONSIST OF: DRIVE - SSPC-SP3 STEEL - SUBMERGED SSPC-SP10; NON-SUBMERGED SSPC-SP6.
6. SHOP PAINTING TO CONSIST OF: DRIVE - (1) COAT TMEC 77 (2) MIL DFT. SUBMERGED STEEL - (1) COAT TMEC 44-711 (2) MIL DFT. NON-SUBMERGED STEEL - COAT TMEC 44-711 (WHITE) (2) MIL DFT.
7. FOR ADDITIONAL DETAILS, REFER TO DRAWINGS: 23293D2 - GENERAL ARRANGEMENT DETAILS; 23293D3 - LAUNDER DETAILS; 23293D4 - TORQUE SET, 23293D5 - DRIVE CONTROL SWITCHES; 23293D22 - MOTOR WIRING DIAGRAM (1-1981 REV. 0/1)

8. EIMCO TO FURNISH (3) MACHINES AS SHOWN AND NOTED.
9. SUBMERGED STEEL TO BE 1/4" MIN. THICKNESS UNLESS NOTED.
10. SEE CONTRACT DNG. C-09 FOR TRUE ORIENTATION.
11. ORDER TO INCLUDE THE FOLLOWING SPARE PARTS; (5) SETS OF SQUEEGEES FOR RAKE ARMS, (6) SETS OF SKIMMER WIPER BLADES, (3) SETS OF STRIP LINERS FOR DRIVES & (3) WORM SHAFT SLEEVE BRGS.
12. FASTENERS TO BE HDG - EXCEPT HIGH STRENGTH & NOTED.

THIS DRAWING IS CERTIFIED FOR

CUSTOMER: WILDISH BUILDING CO.
 CUSTOMER ORDER NUMBER: 20-34509A-34513A
 EIMCO ORDER NUMBER: S.O. 23293-01
 PROJECT: NEWBERG SEWERAGE SYSTEM IMPROVEMENTS
 PROJECT LOCATION: NEWBERG, OREGON
 CONSULTING ENGINEER: KRAMER, CHIN & MAYO, INC.
 BY: [Signature] DATE: 12-3-85
 EIMCO PMD, ENVIROTECH CORPORATION

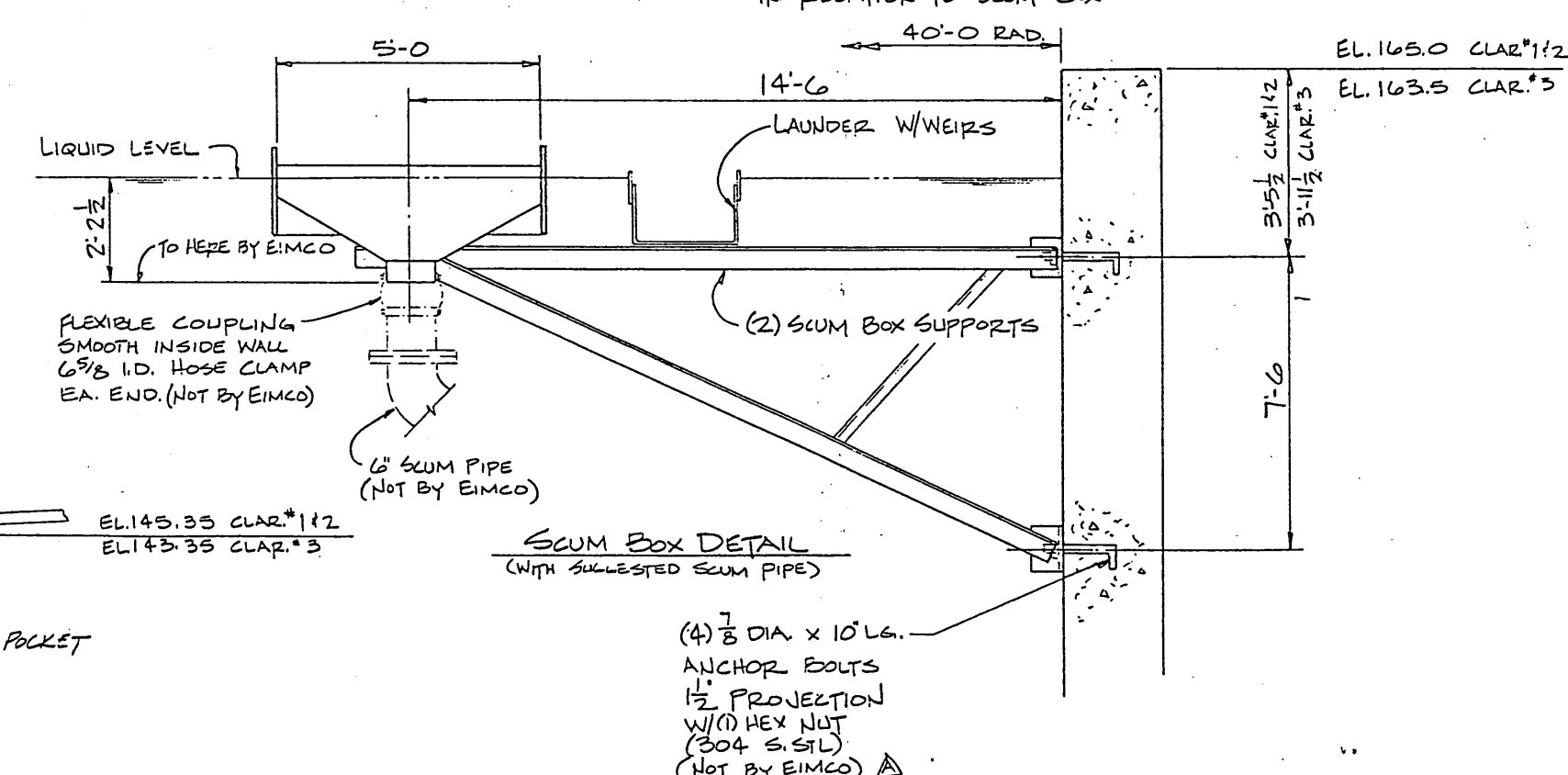
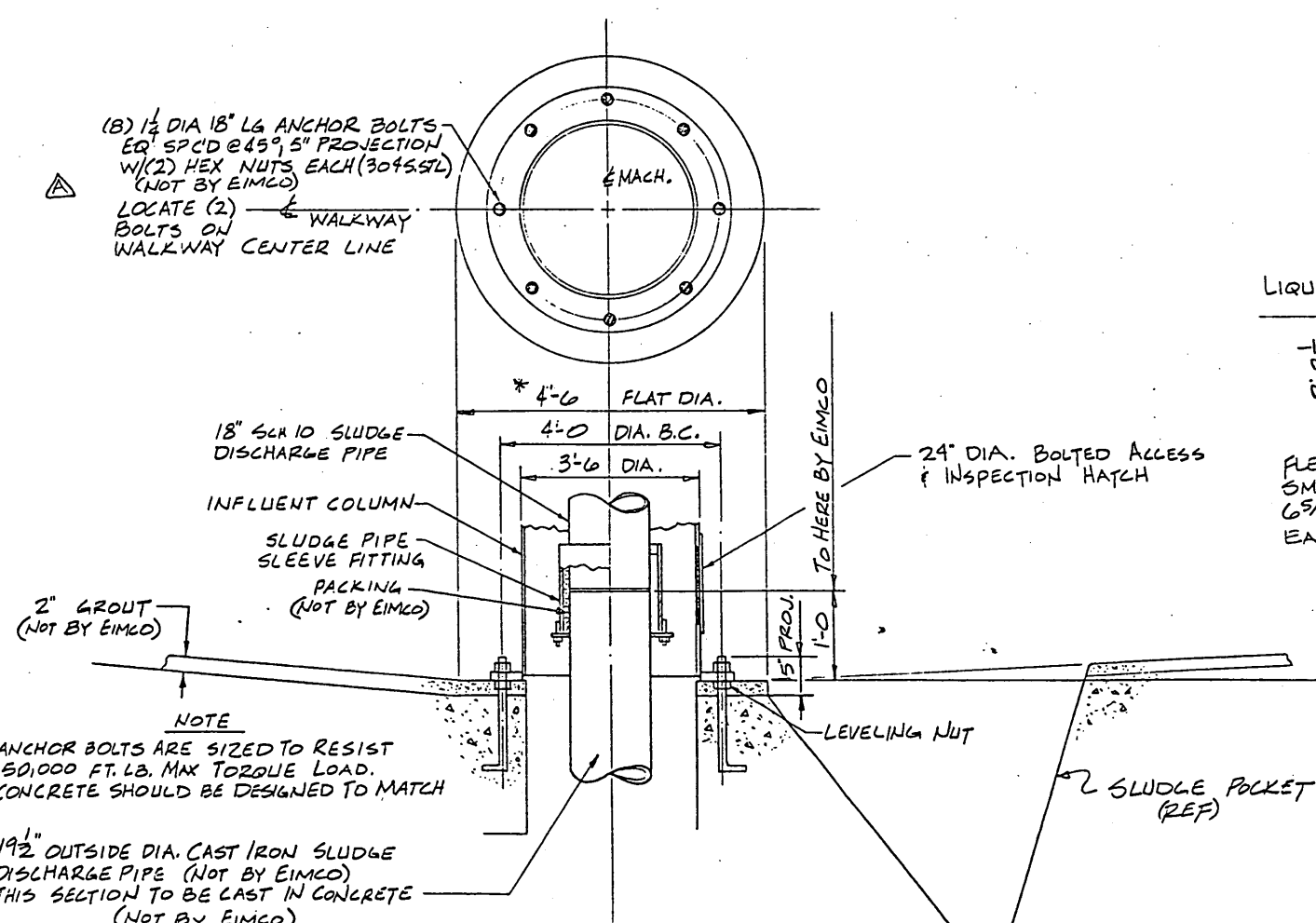
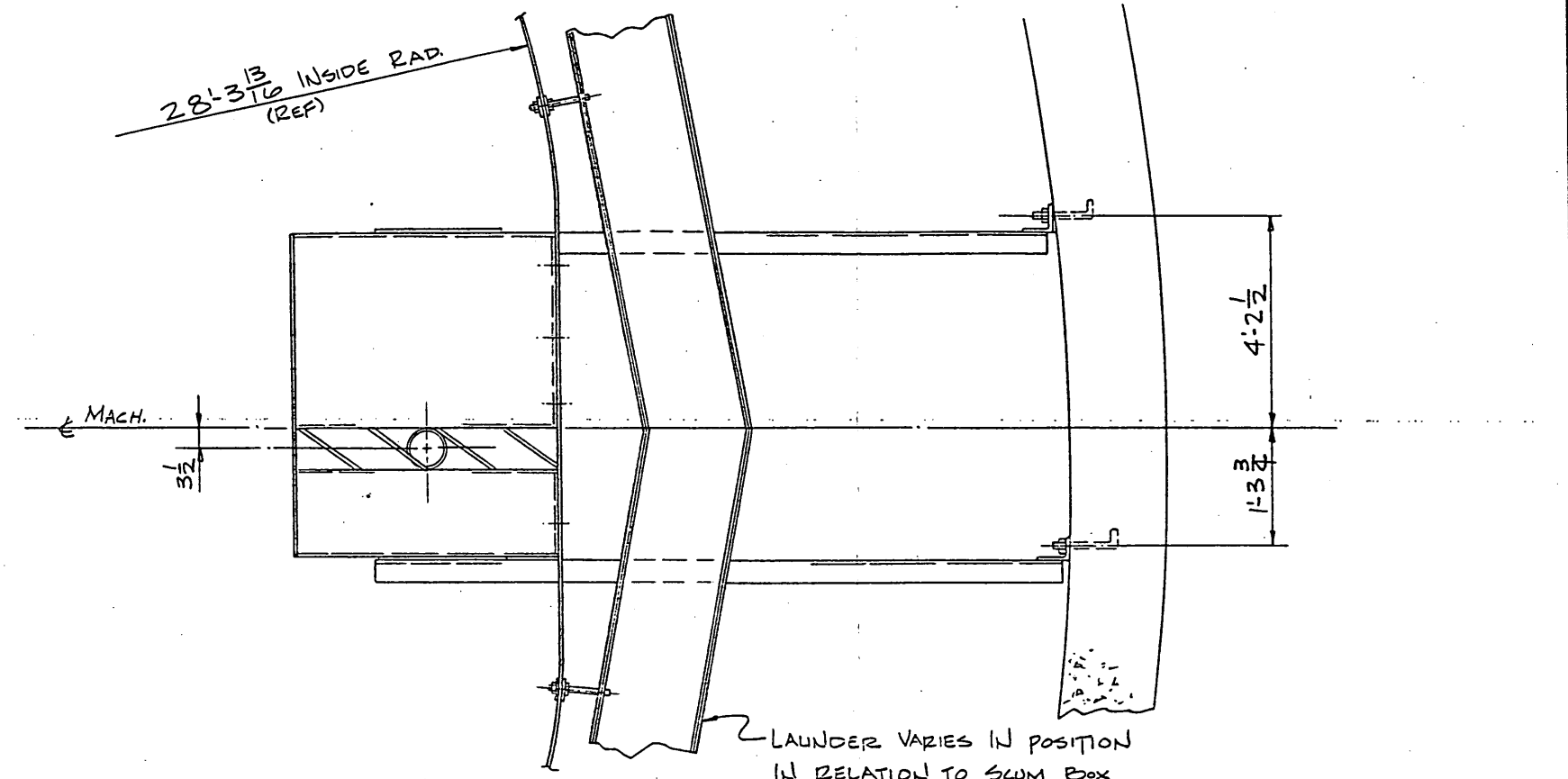
SEPIA FROM 115454



EIMCO PROCESS EQUIPMENT COMPANY - Salt Lake City, Utah			
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CLARIFIER		SGW	
TYPE "C35" 80'-0" DIA.		DWG. NO. 23293D1	
GENERAL ARRANGEMENT		REV. 3	

REVISED PER RETURNED APPROVALS			
DATE	BY	DATE	BY
11-21-85	B.H.	1-19-86	B.H.
1-29-86	SSG	1-29-86	SSG
DATE	CHECKED	DATE	APPROVED
1-29-86	SSG	1-29-86	SSG

** NUMBER OF PIPES SHOWN ARE A PICTORIAL REPRESENTATION ONLY. THIS MECHANISM WILL BE SUPPLIED WITH [AW] 8 [AT] 6" DIA. PVC DRAW-OFF PIPES. (DRAW-OFF PIPES 8'-0" APART) @ BLADES



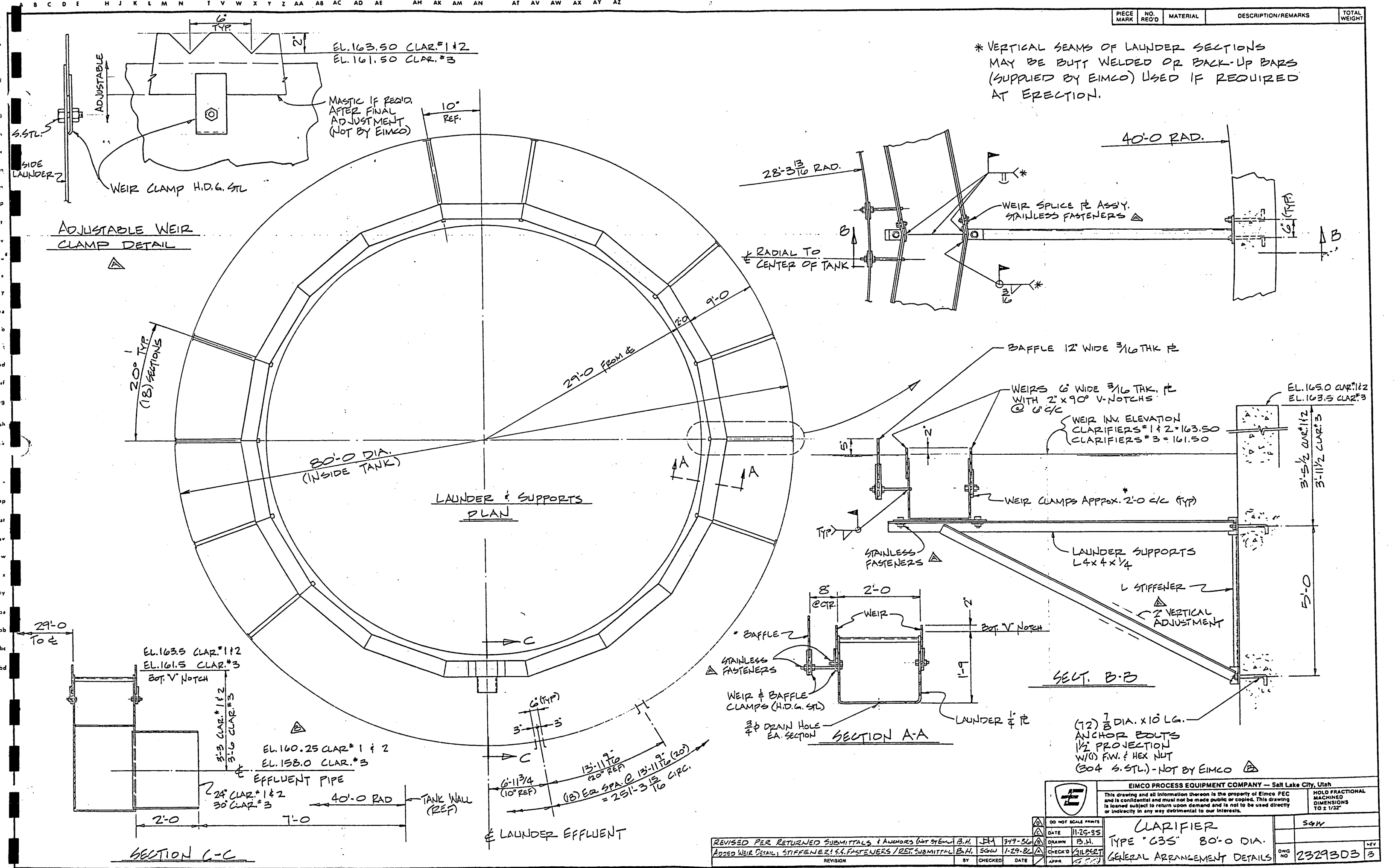
NOTE
ANCHOR BOLTS ARE SIZED TO RESIST 50,000 FT. LB. MAX TORQUE LOAD. CONCRETE SHOULD BE DESIGNED TO MATCH

1 1/2\"/>

TANK AND COLUMN DETAIL

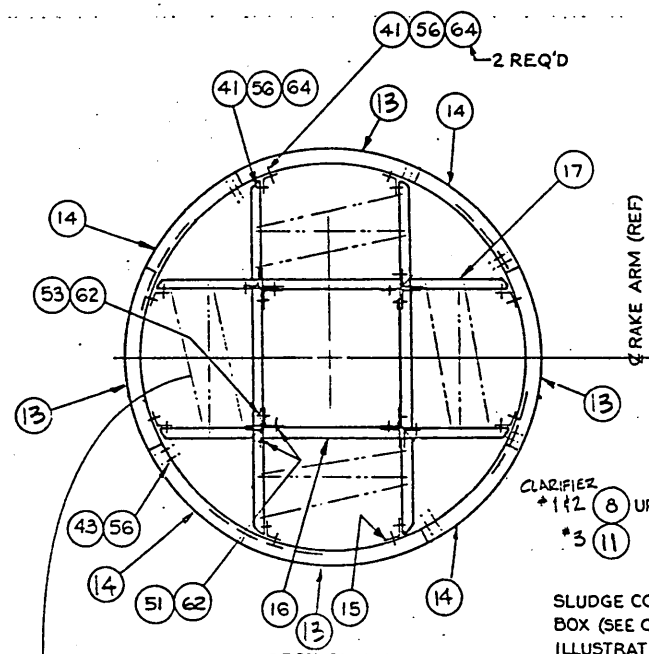
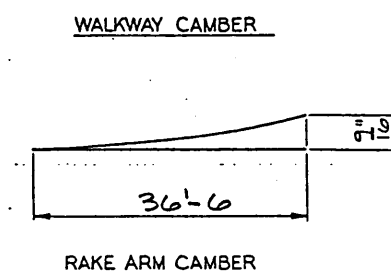
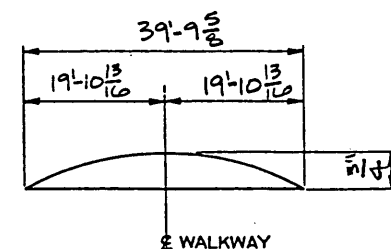
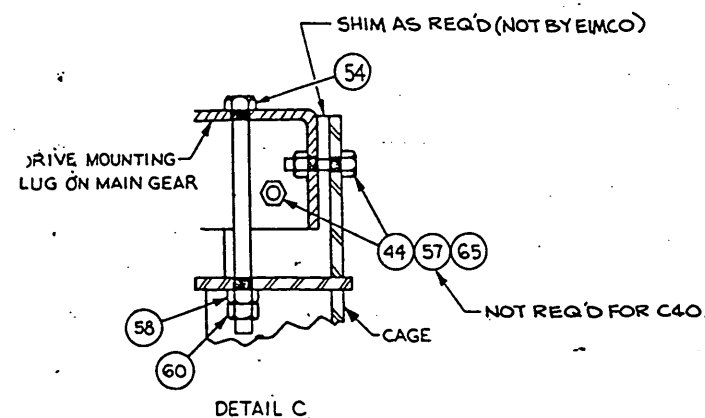
SCUM BOX DETAIL
(WITH SUGGESTED SCUM PIPE)

EIMCO PROCESS EQUIPMENT COMPANY — Salt Lake City, Utah			
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CLARIFIER TYPE 'C35' 80'-0\"/>		HOLD FRACTIONAL MACHINED DIMENSIONS TO ± 1/32"	
DO NOT SCALE PRINTS DATE 11-25-85 DRAWN B.H. CHECKED GILBERT APPR E.S.	B.H. J.B. 3-9-86 BY CHECKED DATE	DWG NO 2329302	REV A

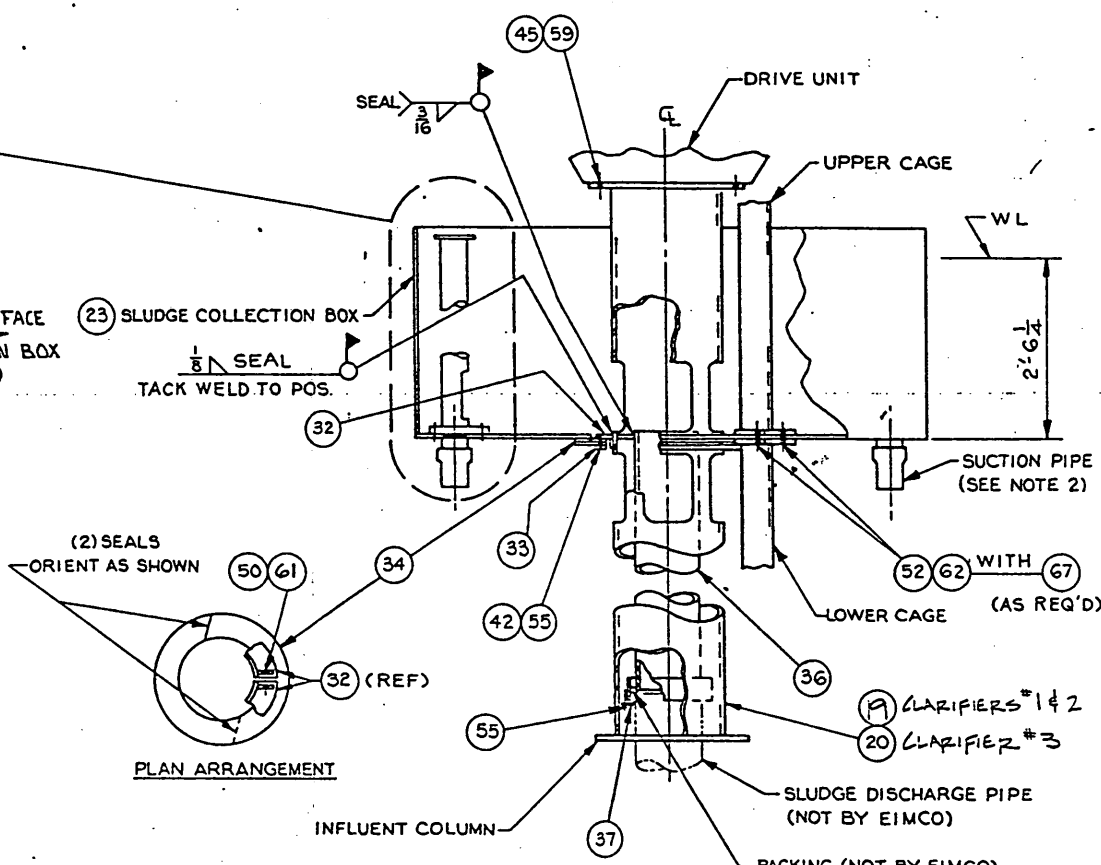
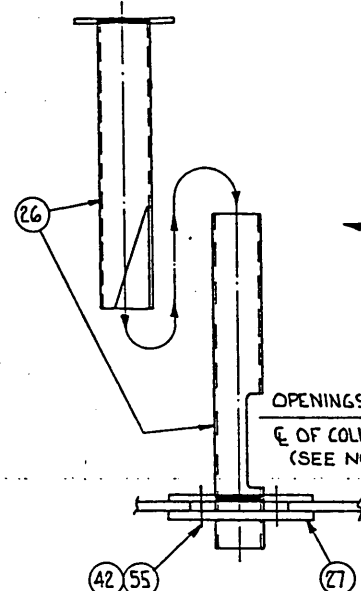
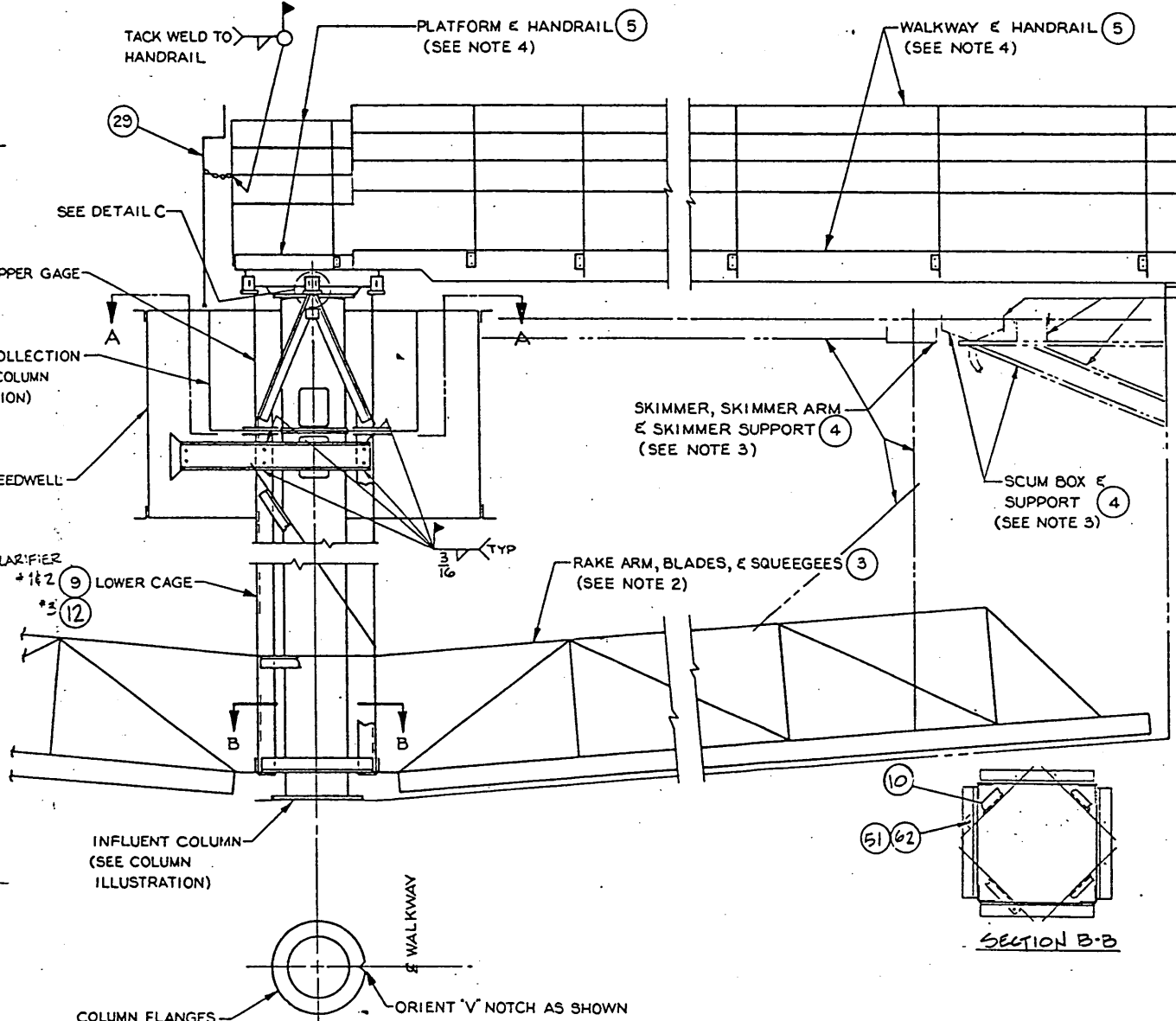
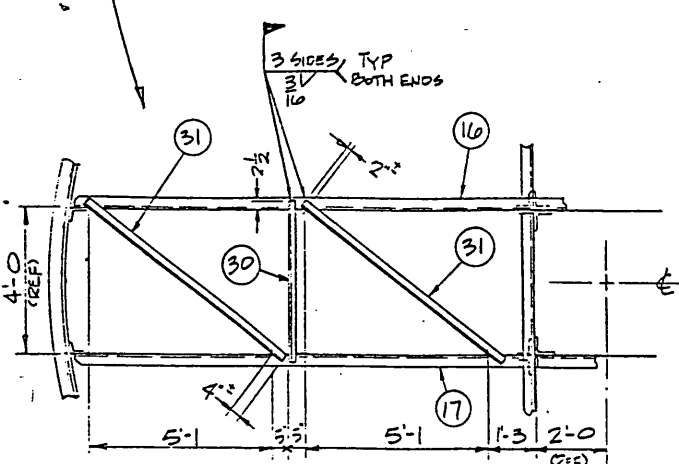


* VERTICAL SEAMS OF LAUNDER SECTIONS MAY BE BUTT WELDED OR BACK-UP BARS (SUPPLIED BY EIMCO) USED IF REQUIRED AT ERECTION.

EIMCO PROCESS EQUIPMENT COMPANY - Salt Lake City, Utah				HOLD FRACTIONAL MACHINED DIMENSIONS TO ± 1/32"	
This drawing and all information thereon is the property of Eimco PEC and is confidential and must not be made public or copied. This drawing is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to our interests.				SGW	
CLARIFIER TYPE "C35" 80'-0" DIA.				REV	
GENERAL ARRANGEMENT DETAILS				DWG NO	2329303
					3



FOR CLARIFIERS #1 & 2 ONLY.
SEE DWG # 23293D56 FOR
CLARIFIER #3 FEEDWELL & SUPPORTS.



HIGH STRENGTH (H.S.) BOLTS (ASTM A325)

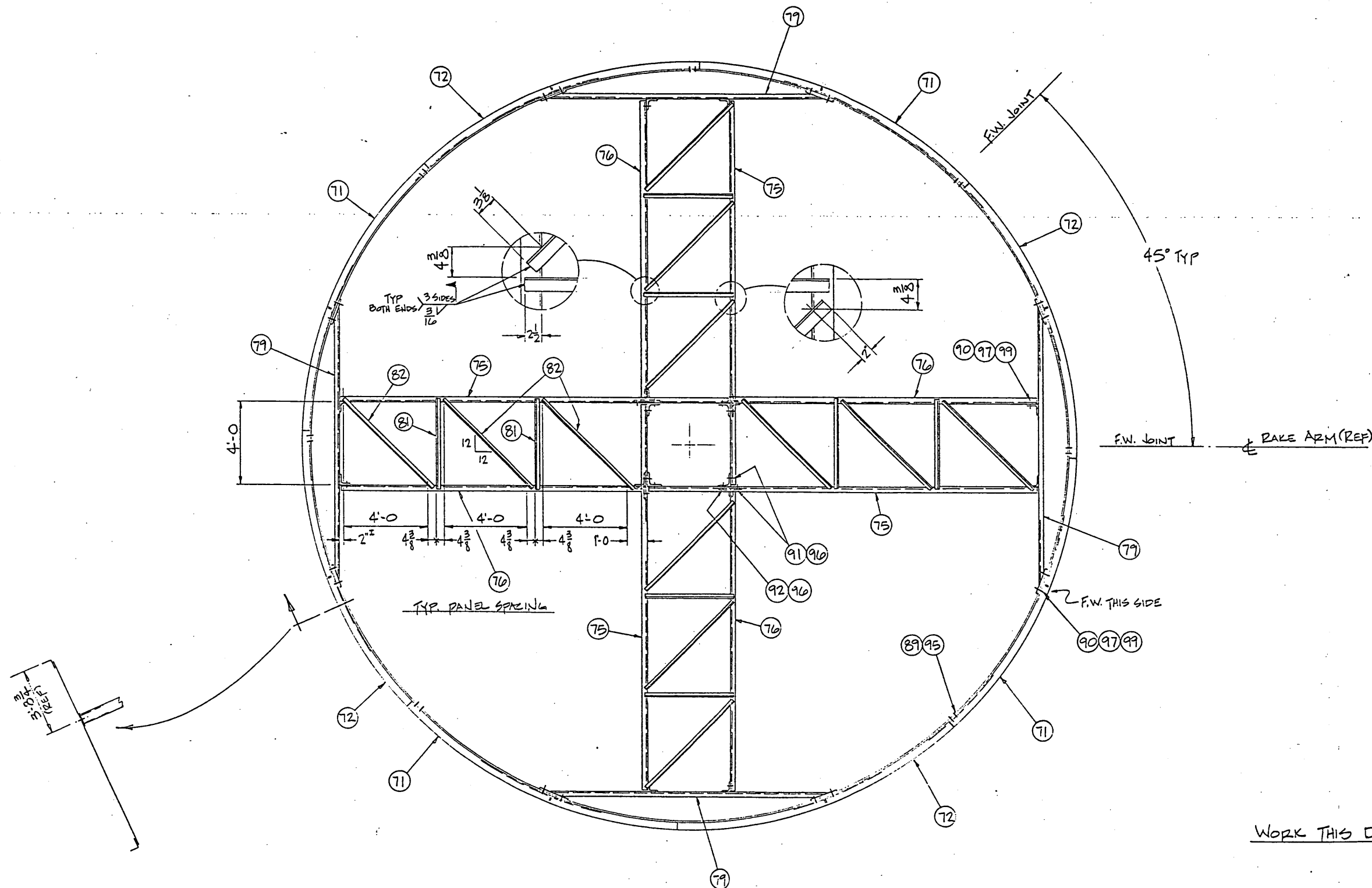
MUST BE USED WHERE SHOWN AND SPECIFIED.
ASSEMBLY INSTRUCTIONS. TURN-OF-NUT METHOD.
ALL JOINT SURFACES SHALL BE FREE OF LOOSE MILL SCALE, BURRS, AND FOREIGN MATERIAL.
ENOUGH BOLTS SHALL BE BROUGHT TO A "SNUG TIGHT" CONDITION TO INSURE THAT THE PARTS OF THE JOINT ARE PROPERLY COMPACTED, I.E., BROUGHT INTO FULL CONTACT WITH EACH OTHER. SNUG TIGHT SHALL BE DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. FOLLOWING THE INITIAL TIGHTENING, BOLTS SHALL BE PLACED IN ANY REMAINING HOLES IN THE CONNECTION AND BROUGHT TO SNUG TIGHTNESS.
ALL BOLTS IN THE JOINT SHALL BE TIGHTENED ADDITIONALLY BY THE APPLICABLE AMOUNT OF NUT ROTATION SPECIFIED BELOW. WITH TIGHTENING PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT TO ITS FREE EDGES.

Bolt Length (as measured from underside of head to extreme end of point)	Disposition of Outer Faces of Bolted Parts		
	One face normal to bolt axis and other face sloped not more than 1:20 from normal to bolt axis	Both faces sloped not more than 1:20 from normal to bolt axis (bevel washers not used)	Both faces sloped not more than 1:20 from normal to bolt axis (bevel washers not used)
Up to and including 4 diameters	1/3 turn	1/2 turn	2/3 turn
Over 4 diameters but not exceeding 8 diameters	1/2 turn	2/3 turn	5/6 turn

NUT ROTATION IS ROTATION RELATIVE TO BOLT, REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED.
TOLERANCE ON ROTATION: 30° OVER OR UNDER.
FOR OTHER THAN TURN-OF-NUT METHOD, FOLLOW PROCEDURES OUTLINED IN LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.
E-2299 Rev. 5-81

- NOTES:
- ALL ITEMS CALLED OUT ON THIS DRAWING ARE IDENTIFIED ON PARTS LIST [23293D51].
 - FOR ERECTION OF RAKE ARMS, BLADES, SQUEEGEES, SUCTION PIPING, AND ARM TO CAGE CONNECTION, SEE DRAWING [23293D52].
 - FOR SKIMMING MECHANISM ERECTION, SEE DRAWING [23293D53].
 - FOR ERECTION OF PLATFORM, WALKWAY, RELATED HANDRAIL AND FLOOR PLATE, SEE DWG [23293D54].
 - THE INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS MANUAL MUST BE STUDIED PRIOR TO STARTING ERECTION OF THIS EQUIPMENT.
 - VALVE ASSEMBLY BASE PLATES, PART OF ITEMS (26), SHOULD BE BUTTED TOGETHER FROM CENTERLINE OF MACHINE OUT. IF THE OPENING IN THE SLUDGE COLLECTION BOX, ITEM (23) IS NOT COVERED, USE FILLER PLATES, ITEM (24) AT EACH SIDE OF OUTER BASE PLATES TO COVER THE GAPS.
 - FOR ERECTION OF LAUNDERS, WEIR, & BAFFLE, SEE DRAWING 23293D55.
 - WORK THIS DRAWING W/DWG. 23293D56.

SEPIA FROM 114990		EIMCO BSP DIVISION - ENVIROTECH CORPORATION - Salt Lake City, Utah	
		This drawing and all information thereon is the property of Eimco BSP and is confidential and must not be made public or copied. This drawing is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to our interests.	
DO NOT SCALE PRINTS DATE 8-15-96 DRAWN B.H. CHECKED J.M. APPR. J.S.		GENERAL ERECTION PANEL CAGE 80'-0" DIA C35 CLARIFIER	
REVISION BY CHECKED DATE		DWG. NO. 23293D51 REV.	



SECTION A-A
(FOR CLARIFIER #3 ONLY)

WORK THIS DWG. W/DWG. NO. 23293051

EIMCO PROCESS EQUIPMENT COMPANY — Salt Lake City, Utah			
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DATE	2-19-36	HOLD FRACTIONAL MACHINED DIMENSIONS TO ± 1/32"	
DRAWN	B.H.		
CHECK'D	J.H.		
APPR	L.C.		
GENERAL ERECTION			
80'-0" DIA. CS CLARIFIER			
(36'-0" DIA. FEEDWELL CLAR. #3)			
DWG. NO. 23293056		REV.	

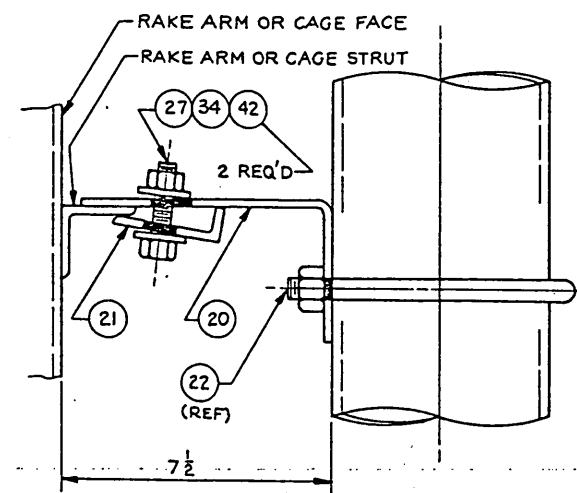
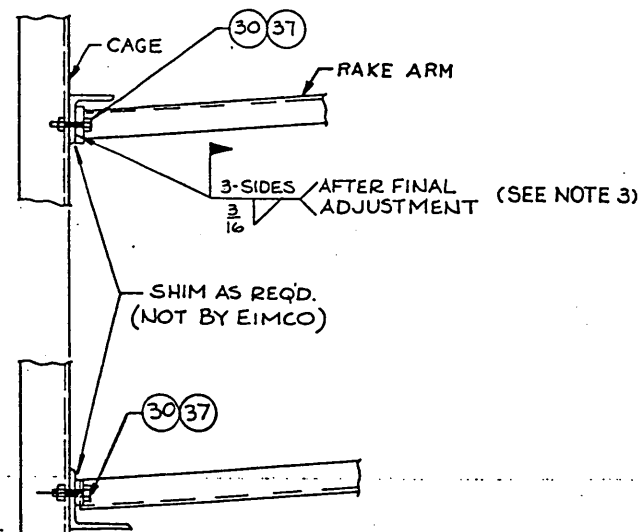
HIGH STRENGTH (H.S.) BOLTS (ASTM A325)

MUST BE USED WHERE SHOWN AND SPECIFIED.
 ASSEMBLY INSTRUCTIONS. TURN-OF-NUT METHOD.
 ALL JOINT SURFACES SHALL BE FREE OF LOOSE MILL SCALE, BURRS, AND FOREIGN MATERIAL.
 ENOUGH BOLTS SHALL BE BROUGHT TO A "SNUG TIGHT" CONDITION TO INSURE THAT THE PARTS OF THE JOINT ARE PROPERLY COMPACTED, I.E., BROUGHT INTO FULL CONTACT WITH EACH OTHER. SNUG TIGHT SHALL BE DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. FOLLOWING THE INITIAL TIGHTENING, BOLTS SHALL BE PLACED IN ANY REMAINING HOLES IN THE CONNECTION AND BROUGHT TO SNUG TIGHTNESS.

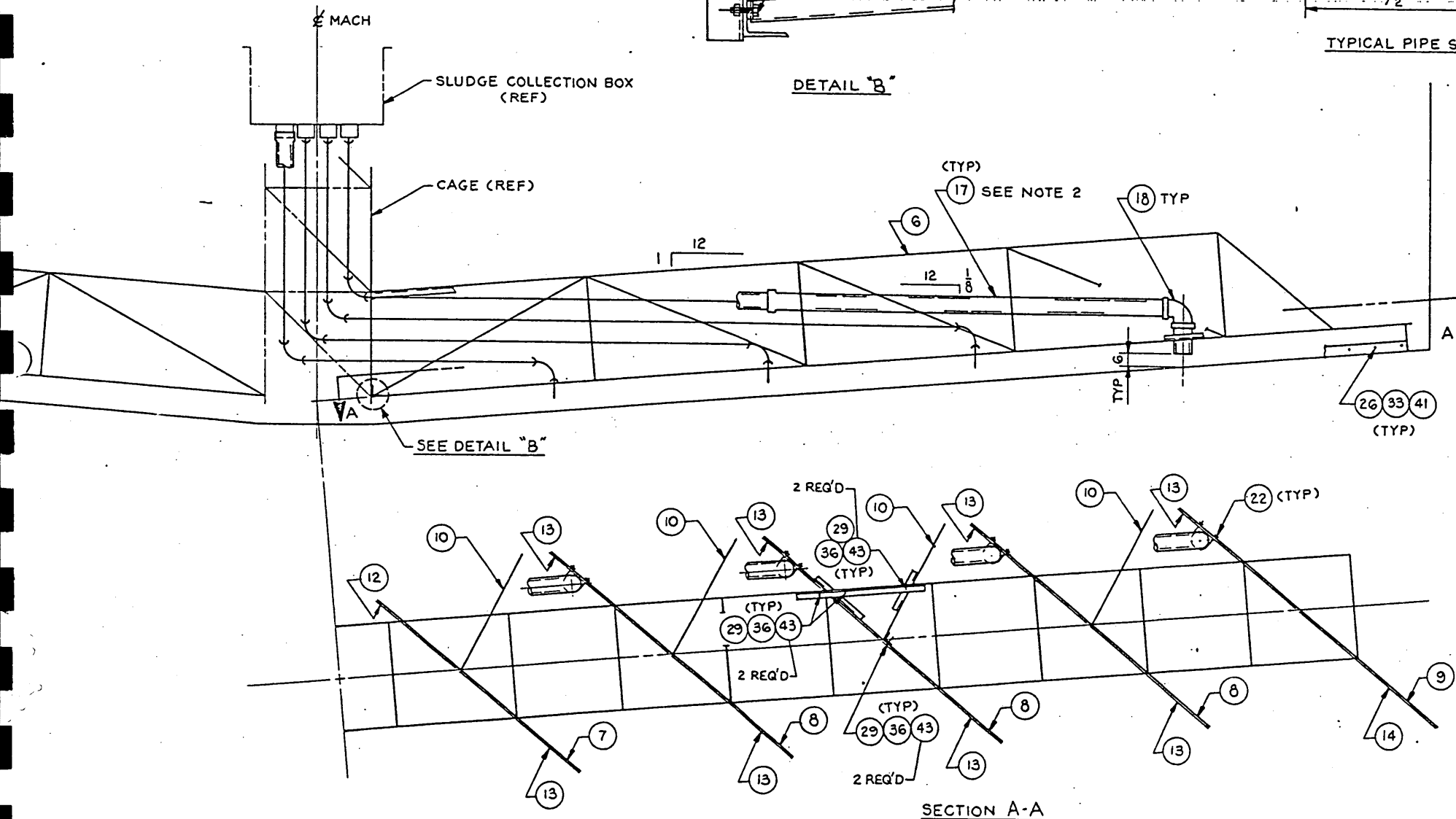
ALL BOLTS IN THE JOINT SHALL BE TIGHTENED ADDITIONALLY BY THE APPLICABLE AMOUNT OF NUT ROTATION SPECIFIED BELOW, WITH TIGHTENING PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT TO ITS FREE EDGES.

DISPOSITION OF OUTER FACES OF BOLTED PARTS:	
BOTH FACES NORMAL TO BOLT AXIS OR ONE FACE SLOPED 1:20 MAX. (BEVEL WASHERS NOT USED)	BOTH FACES SLOPED NOT MORE THAN 1:20 (BEVEL WASHERS NOT USED)
1/4 TURN	1/4 TURN
NUT ROTATION IS ROTATION RELATIVE TO BOLT, REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED.	
TOLERANCE ON ROTATION: 30° OVER OR UNDER FOR OTHER THAN TURN-OF-NUT METHOD, FOLLOW PROCEDURES OUTLINED IN LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.	

E-2299 Rev. 4-71



TYPICAL PIPE SUPPORT DETAIL



SECTION A-A

NOTES:

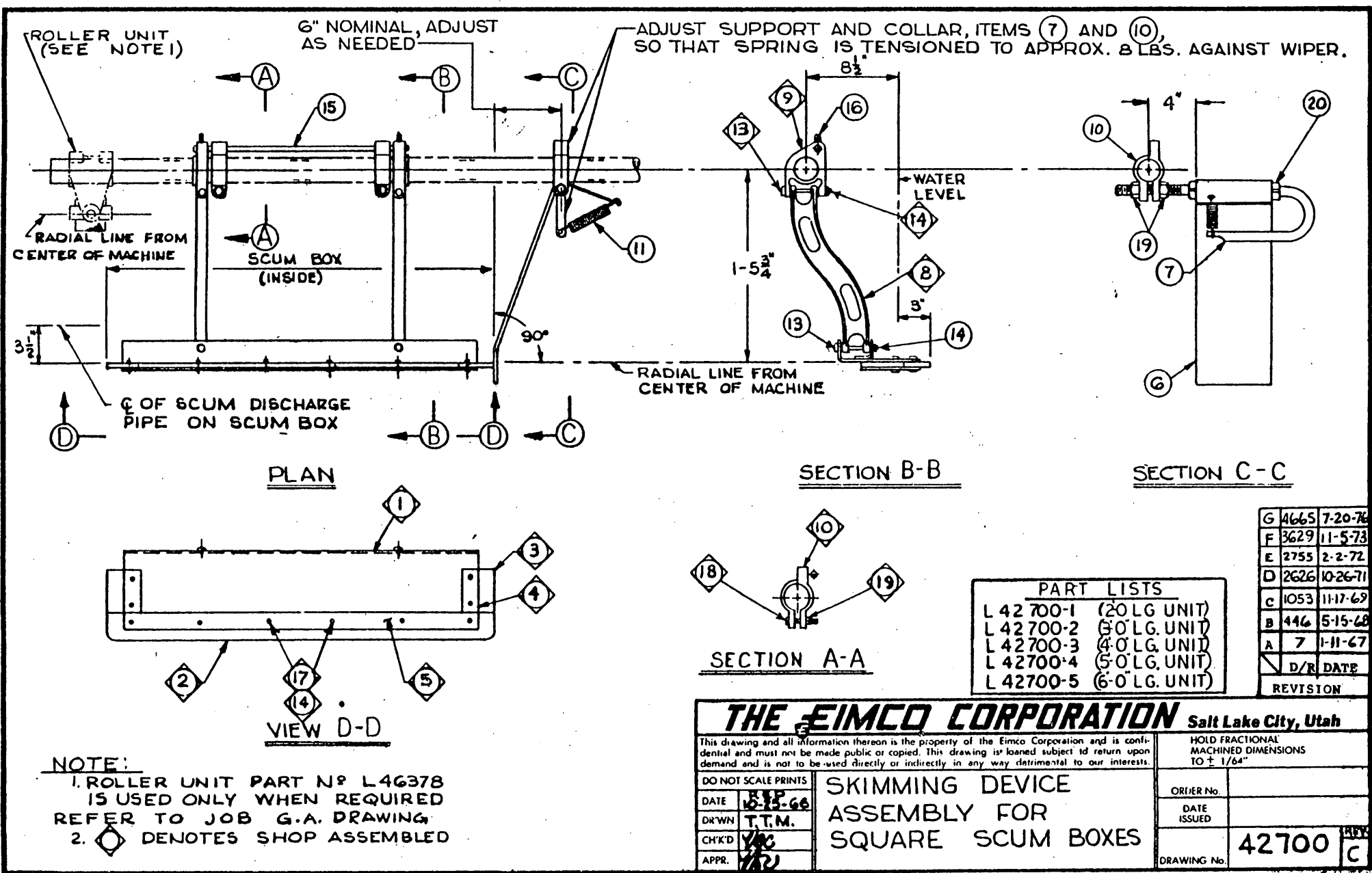
1. WORK THIS DRAWING WITH GENERAL ERECTION DRAWING N° 23293D51.
2. PIPE IS FURNISHED IN 20'-0" NOMINAL LENGTHS, FIELD CUT AND FITTED. CUT ENDS TO BE DEBURRED, BEVELED AND LUBRICATED WITH A SOAP SOLUTION BEFORE INSTALLING IN PIPE OR ELBOW BELL. INSTALL RUBBER RING WITH COLOR CODE FACING INSTALLER IN CLEAN, DRY GROOVE OF BELL.
3. IF SHIMS ARE USED, WELD MUST BE ENLARGED SO THAT THE LOAD WILL BE TRANSFERRED FROM THE ARMS TO THE CAGE, NOT FROM ARMS TO SHIMS.

FOR ITEMS IDENTIFIED BY BUBBLES SEE PARTS LIST L23293D52.

D	
C	
B	
A	
D/R	DATE

SEPIA FROM 113864

ENVIROTECH DATE 1-15-86 DRAWN B.H. CHECK'D [Signature] APPR [Signature]	EIMCO BSP DIVISION - ENVIROTECH CORPORATION - Salt Lake City, Utah This drawing and all information thereon is the property of Eimco BSP and is confidential and must not be made public or copied. This drawing is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to our interests.		HOLD FRACTIONAL MACHINED DIMENSIONS TO ± 1/64"
	RAKE ARM & PIPING ERECTION C3S CLARIFIER 80'-0" & 85'-0" DIA		DWG. NO. 23293D52 REV.



THE EIMCO CORPORATION Salt Lake City, Utah

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DO NOT SCALE PRINTS

DATE: 10-15-66

DRAWN: T.T.M.

CHECKED: Y.P.

APPR: J.R.

SKIMMING DEVICE ASSEMBLY FOR SQUARE SCUM BOXES

HOLD FRACTIONAL MACHINED DIMENSIONS TO $\pm 1/64"$

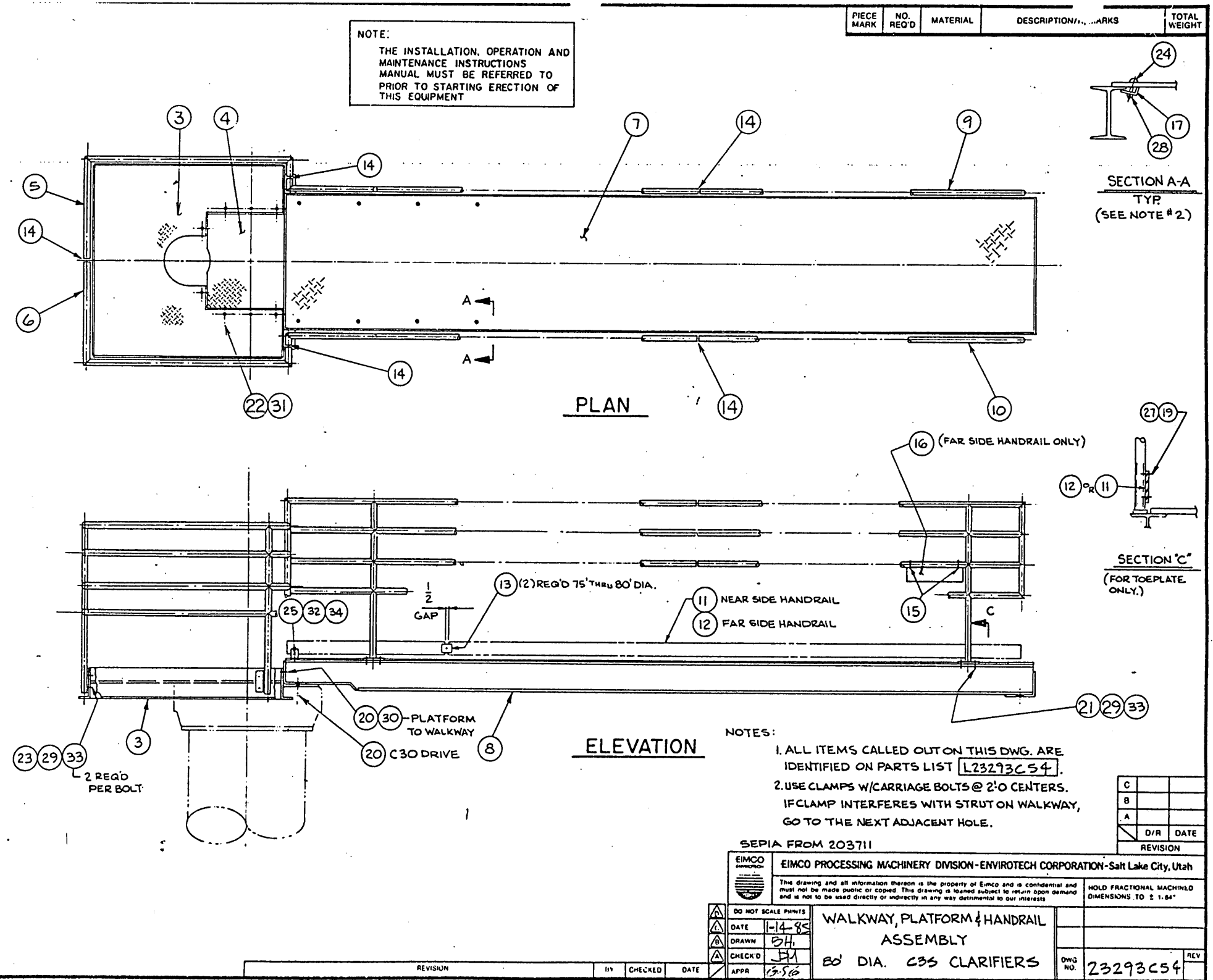
ORDER No. _____

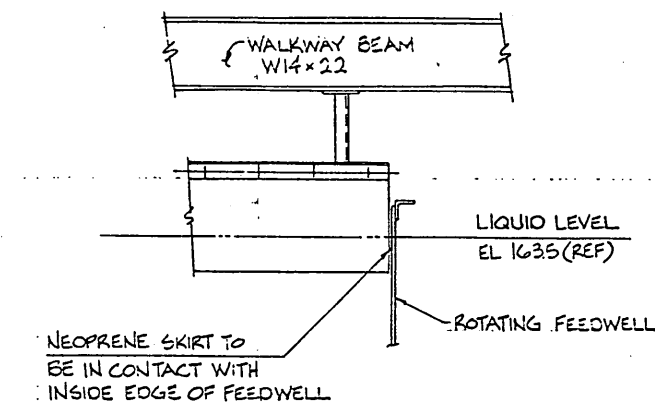
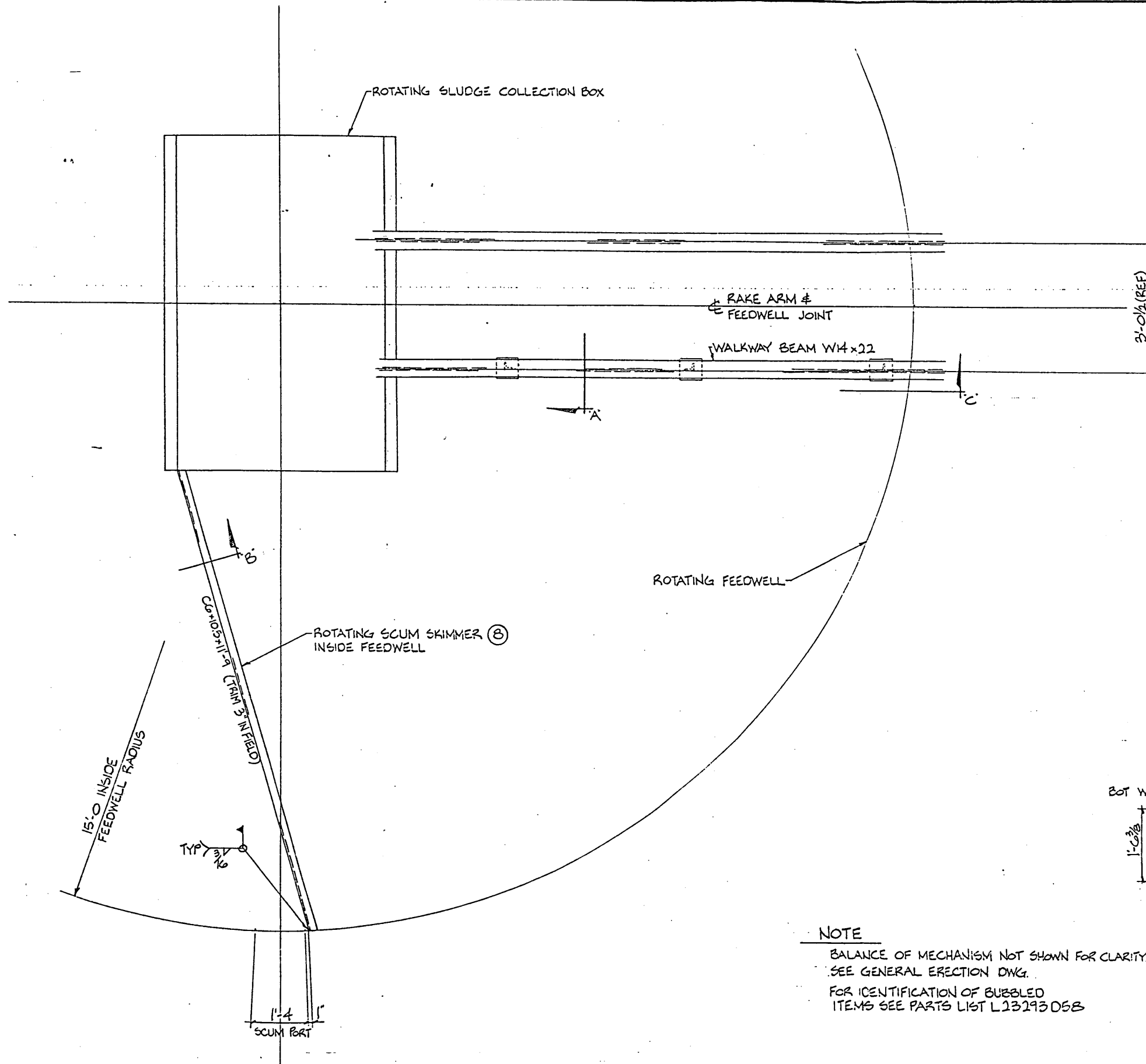
DATE ISSUED _____

DRAWING No. 42700

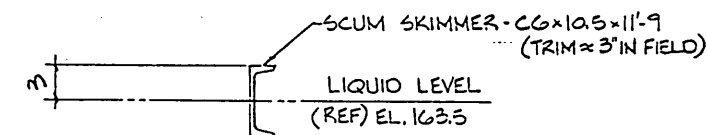
REVISION

APR 24 1984 INA 1-84

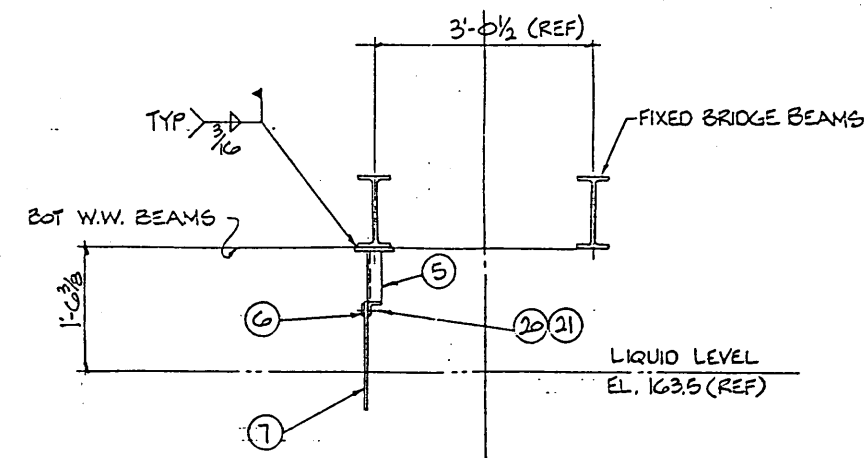




SECTION 'C'



SECTION 'B'



SECTION 'A'

NOTE
 BALANCE OF MECHANISM NOT SHOWN FOR CLARITY.
 SEE GENERAL ERECTION DWG.
 FOR IDENTIFICATION OF BUBBLED ITEMS SEE PARTS LIST L23293058

		EIMCO PROCESS EQUIPMENT COMPANY — Salt Lake City, Utah	
DO NOT SCALE PRINTS DATE 6-27-86 DRAWN S. BROWN CHECKED B. H. APPR. B. H.		This drawing and all information thereon is the property of Eimco, P.E.C. and is confidential and must not be made public or copied. This drawing is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to our interests. FEEDWELL SKIMMER CLARIFIER #1 & #2	
HOLD FRACTIONAL MACHINED DIMENSIONS TO ± 1/32"		DWG NO. 23293058 REV.	

... 4-Reggie
~~2~~ ORIGINAL
FOR OUR FILES

Tabbi

Look for Agmt
1/24/93