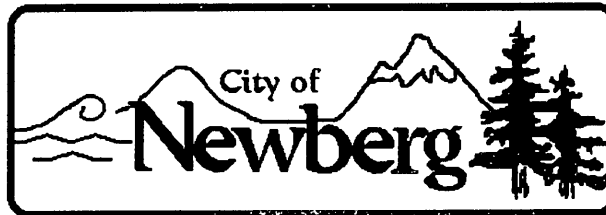


Original
for the safe.



CITY OF NEWBERG
CITY RECORDER INDEX NO. 1663

CONTRACT DOCUMENTS
ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION

FEBRUARY 1999

Jadene Torrent
Utility Engineer

City of Newberg
Community Development Office
P.O. Box 970
719 E. First Street
Newberg, Oregon 97132
503/537-1240
Fax: 503/537-1272

RESOLUTION NO. 99-2171

A RESOLUTION AWARDING THE WASTEWATER TREATMENT PLANT INFLUENT PUMP STATION ELECTRICAL IMPROVEMENTS CONTRACT TO OREGON ELECTRIC GROUP AND AUTHORIZE THE CITY MANAGER TO ENTER INTO AGREEMENT WITH OREGON ELECTRIC GROUP IN THE AMOUNT OF \$51,000.00.

RECITALS:

1. The project is an approved Capital Project in the 1998-99 budget; and
2. The City has prepared plans and solicited bids in accordance with ORS Chapter 279 on Public Contracts and Purchasing; and
3. Three bids were received and opened on March 12, 1999; and
4. Oregon Electric Group was the lowest qualified bidder with a bid of \$51,000.

NOW, THEREFORE, it is resolved by the Newberg City Council as follows:

1. The City Council, acting as Contract Review Board for the City, does hereby authorize the City Manager to enter into a contract with Oregon Electric Group, the lowest qualified bidder, for the Wastewater Treatment Plant Influent Pump Station Electrical Improvements project in the amount of \$51,000.00 with the approval of the City Attorney as to form and content.

ADOPTED by the Newberg City Council this 5th day of April, 1999.

/s/ Duane R. Cole

Duane R. Cole, City Recorder

ATTEST by the Mayor this 9th day of April, 1999.

/s/ Charles Cox

Charles Cox, Mayor

**ADDENDUM NO. 1
CITY OF NEWBERG
ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT INFLUENT PUMP STATION
MARCH 5, 1999**

This addendum No. 1 forms a part of the Contract Documents. It modifies the original Bidding Documents.

1. Pre-bid conference: A pre-bid conference was held on Tuesday, March 2, 1999. Attendees were R. J. Murdock of DND Industrial Controls, Dan Ebner of Lumber Electric, Gregg Scholz of R & W Engineering, Bob Simpson and Jadene Torrent of the City of Newberg. The following general bidding and administrative items were discussed:
 - A. Bid closes Friday, March 12, 1999 at 2 p.m.
 - B. This is a prevailing wage job with associated BOLI requirements.
 - C. Time of completion is 120 calendar days from Notice To Proceed.
 - D. Reiterated the scope of the work as provided in Specification Section 01010, Summary of Work.
 - E. The engineer's estimate for this project is \$90,000 - \$110,000.

Several questions were asked by the Contractors in attendance and are clarified below, and a tour of the facilities followed.

6. Specifications:

- A. **Add** to Section 01010, 1.01, A (1): The Contractor shall provide all **utility locating**, excavation, backfill, asphalt or concrete patch or repair, electrical and mechanical apparatus, enclosures, conduit, fittings, valves, labor, tools, and expendable materials required to complete the project.
- B. **Add** to Section 01010, 1.01, B: (20) All conduit that is no longer in use is to be removed. All penetrations through walls, floor or ceiling shall be grouted watertight.
- C. **Add** to Section 01010, 1.01, B, (10): Replace existing chain hoists electrical supply cable and cable trolleys.

D. Change to Section 01010, 1.01, B, (11): Existing exterior lighting on crane rail to be relamped, **fixtures renovated** and local switch and switch cover **removed**. **New switches to be located in Panel ISCP**. Remove all existing utility power receptacles above grade. Abandon all wet-well lighting. Place one (1) GFI duplex outlet on outside and one (1) GFI quad outlet on inside of new panel ISCP.

E. Add to Section 16010, 1.02: B. Section 16400 – Service and Distribution

F. Add to Section 16100, 1.02: B. Section 16400 – Service and Distribution

G. Add the attached Specification, Section 16400.

Bidders shall acknowledge on Page 4 of the Contract Documents that they have received this addendum by writing in addendum number and date received.

Jadene Torrent
Utility Engineer
City of Newberg

SECTION 16400

SERVICE AND DISTRIBUTION

PART 1: GENERAL

1.1 SCOPE

- a. The work consists of providing the complete service and distribution system shown on the drawings and specified herein. The requirements of all other sections of the specification are equally applicable to the work to be performed under this section.

1.2 SUBMITTALS:

- a. Submittals shall be in accordance with the requirements of these Contract Documents and shall include the following:
 - 1) Shop drawings of the following for approval of the Engineer:
 - a) Panelboards
 - b) Safety Switches and Disconnects
 - c) Transformers
 - 2) Operation and maintenance information for all equipment furnished and/or installed.

PART 2: PRODUCTS

2.1 PANELBOARDS

- a. General: Provide panelboards in conformance with the following specification for installation as shown on the drawings.
- b. Panelboards: Panelboards shall be dead-front surface mounted with subbreakers, main lugs, double lugs, or main breakers as shown on the drawings. Lugs shall be sized for feeders and shall conform to the specification for splicing and terminations. Buses shall be copper, full panel length. Buses shall be identified. Minimum bus rating shall not be smaller than the setting of the feeder protective device. Provide ground bus in all panelboards.

- 1) Circuit Breakers - Provide molded case bolt-on circuit breakers with thermal magnetic trip units, and a common trip bar for two or three-pole breakers, connected internally to each pole so that the tripping on one pole will automatically trip all poles of each breaker. Handle bales or clips will not be acceptable. Provide breakers of the trip-free and trip-indicating type, with quick-make, quick-break contacts. Provide single, two or three pole breaker interchangeability.
- 2) Special Features - Provide split-bus, subfeed lugs, subfeed protective device and contactors as indicated on the drawings or specified in this or other sections of these specifications.
- 3) Tandem, Duplex or Half Sized Circuit Breakers - Do not use this type of equipment.
- 4) Lighting and Appliance Panelboards (240 V Class) - Minimum breaker interrupting rating shall be 10,000 amps, symmetrical. Provide breakers and panel of higher interrupting rating where indicated on the drawings. Provide minimum box dimensions per NEC.

2.2 FUSES, 600-VOLT AND LESS

- a. Provide fuses as manufactured by Bussman Manufacturing Company/Chase-Shawmut Company and outlined below, or approved equivalent.
 - 1) Control Circuit Protection - Fuses protecting control circuits shall be Bussman "Fusetron," Chase-Shawmut "Trionic" or approved equivalent, dual-element type having an interrupting rating of 100,000 amps RMS unless otherwise noted.
 - 2) General Fuse Requirements - The following general requirements shall apply to all fuses:
 - a) Fuses shall be coordinated with each other and with circuit breakers in the circuit.
 - b) Make adjustments in the specified fuse sizes and provide substitute fuses as required to achieve reliable trouble-free operation of all fused circuits.
 - c) Provide a fuse in each fuse holder.

- d) Provide a label inside each cover or adjacent to each fuse holder indicating specific type of fuse required for replacement.
- e) Provide six (6) spare fuses for each low-voltage current rating used on the project except no spare fuses will be required for integral current-limiting fuse circuit breaker units.

2.3 GROUNDING SYSTEM

- a. This grounding specification is applicable to this and all other sections of the work. Provide all grounding systems and make connections mechanically secure and electrically continuous. Ground all line voltage electrical systems completely and effectively as required by code and as specified herein.
- b. Ground all raceway systems and equipment enclosures. Where not otherwise indicated, grounding conductor size shall conform to the most stringent of the governing codes.
 - 1) Ground the service and transformer in an approved manner.
 - 2) Provide grounding where required. All ground mat conductors shall be bare soft drawn copper, sized as noted. Bury all conductors approximately 12-inches below grade.
 - 3) Grounding conductor connections shall be bolted except at inaccessible ground rods, buried ground conductors and reinforcing steel grounding conductor connections, where connections shall be brazed. Consideration will be given to bolted connections in lieu of brazed connections, subject to the Engineer's approval. Exothermic welded connections may be substituted for brazed connections subject to the Engineer's approval and demonstration on the project with actual test connections that the connections will be successfully made.
 - 4) Ground conductors, unless otherwise noted, shall be insulated and shall be run in conduit.
 - 5) Continuity of equipment ground shall be maintained throughout the entire raceway, cabinet and equipment enclosure system. Ground bushings and jumpers shall be used wherever normal conduit termination does not insure continuity. Where nonmetallic conduit is used for distribution or where direct burial cables are employed, install a green insulated equipment ground conductor with each circuit.

- 6) Metal parts of lighting fixtures not otherwise grounded by bolted fastenings shall be bonded to conduit system with green ground wire. Receptacles shall be grounded to outlet boxes with green ground wire and machine screw.
- 7) Motors and equipment shall be bonded to the equipment grounding system by a continuous green insulated equipment ground conductor run with each circuit through approved flexible conduit connections as permitted by code. Where flexible conduit size exceeds the code approved limits, provide a separate green grounding conductor inside each flexible conduit, bonded to the inside of the connection box and to the nearest accessible supply end conduit junction box.

2.4 DRY TYPE TRANSFORMERS

- a. General: Provide all power transformer equipment as shown on the drawings in conformance with the following specification. All transformers shall be built in accordance with the latest revised IEEE, ANSI and NEMA standards.
- b. Temperature Rating: On all transformers, case temperature shall not exceed 30°C rise above an ambient temperature of 40°C. Terminal compartment shall be located to ensure termination of cable leads in temperature levels not to exceed 60°C. Transformers shall be designed for full load operation at a maximum temperature rise of 115°C.
- c. Enclosure: Provide a stainless steel non ventilated enclosure.
- d. Taps: Furnish four taps, two above and two below rated voltage, each 2½ percent, for ratings above five (5) kVA.
- e. Tests: Provide routine tests as listed and described in ANSI specification No. C57.12.00, latest edition.
 - 1) Sound level tests shall be performed on the complete transformer assembly in accordance with the latest NEMA standards. Transformer 0-50 kVA shall conform to NEMA standards.

2.5 SAFETY SWITCHES AND DISCONNECTING MEANS

- a. Furnish safety switches as shown on the drawings. All equipment shall conform to NEMA standards latest revision as applicable.

- b. Switches shall be heavy-duty class, quick-make, quick-break, safety-type, externally operable, with bypassable interlock to prevent opening of cover in "ON" position. Switch shall have positive indication of "OFF" and "ON" position. Devices shall have visible blades unless molded-case breaker mechanism is used. Switches shall be so constructed as to preclude single phasing of switch blades due to mechanical failure. Switches shall be padlockable in the "OFF" position.
- c. Switches shall be of the proper horsepower, ampere and voltage rating with number of poles required to open all ungrounded conductors and with S/N bar where required. Provide auxiliary switch contacts in all disconnect switches.
- d. Unless otherwise indicated, individually-mounted switches shall be in a NEMA type 4 stainless steel enclosure.

PART 3: EXECUTION

3.1 EQUIPMENT BASES

- a. Provide equipment bases for all floor-mounted electrical equipment. Unless otherwise indicated, bases shall be poured-in-place concrete, nominally four inches high, and be one inch larger on all exposed edges than the equipment to be mounted. On all equipment bases in interior locations, unless otherwise noted, provide two or more parallel, cast-in-place continuous-slot channel erection system concrete inserts for equipment mounting. Bolt equipment to channels. Provide additional surface-mounted channels where required to match and lineup with existing equipment. Provide concrete pads and mounting provisions for all exterior equipment as indicated on the drawings or specified in other portions of the specifications.

3.2 SUPPORTS

- a. Provide hangers or other devices such as pads, channels, struts, joists, anchors, etc., necessary for the support of electrical equipment. Provide the design, fabrication and erection of supplementary structural framing electrical equipment. Show on shop drawing supplementary framing including design loads, member size and location. When supplementary framing is indicated, verify that dimensions are suitable for the equipment furnished. Provide additional strength when equipment furnished is heavier than that specified.

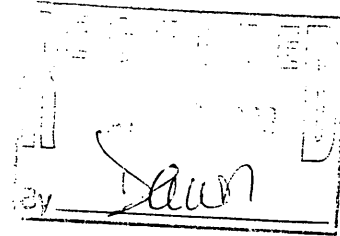
3.3 DAMP AND WET LOCATION

- a. Provide 1/4-inch air space behind all electrical equipment mounted in damp and wet locations and on concrete walls below grade. Use corrosion-resistant washers, bolts and anchors.

PART 4: SPECIAL PROVISION

4.1 MEASUREMENT AND PAYMENT

- a. Payment for all work specified under this section to be made as outlined under Part 4 of Section 16000, General Provisions.
- b. Payment indicated to include complete compensation for all labor, equipment, materials and incidentals involved in work specified under this section. No additional compensation to be allowed.

**OREGON
ELECTRIC
GROUP**

May 12, 1999

Attn: Terrence Mahr, City Attorney
City of Newberg
PO 970
Newberg, OR 97132

Re: DBA Name & Contract Signature Authority

Dear Mr. Mahr,

Oregon Electric Construction, Inc. is licensed and does business in the State of Oregon under the name of "Oregon Electric Group". In addition, our Chief Financial Officer, Todd M. Grasse, is authorized to sign contracts on behalf of Oregon Electric Construction, Inc.

Should you have any questions or concerns regarding this matter please contact me at the number shown below.

Sincerely,

Glenn W. Patterson,
President

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**City of Newberg
ADVERTISEMENT FOR BID
Electrical Renovation of Wastewater Treatment Plant
Influent Pump Station**

Sealed bids for the construction of the **Electrical Renovation of Wastewater Treatment Plant Influent Pump Station** for the City of Newberg, Oregon addressed to Jadene Torrent, Utility Engineer, 719 E. First Street, Newberg, Oregon 97132, will be received until 2:00 p.m. prevailing time on **Friday, the 12th day of March, 1999**, at the Community Development Office, 719 E. First St., Newberg, Oregon at which time and place all bids will be opened and publicly read aloud by the undersigned or a designated representative.

The project generally consists of, but is not limited to a revised utility power transformer and process control location and the replacement of specific electrical and mechanical apparatus at the City of Newberg Wastewater Treatment Plant Influent Pump Station. In addition, wiring modifications will improve operational reliability and safety at the Influent Pump Station and the Control Building.

Plans and Specifications may be obtained at the Community Development Office, 719 E. First St., Newberg, Oregon 97132 at no charge for the set of documents. Plans and specifications may also be examined at the same location.

Bidders must be pre-qualified to perform public contracts in conformance with Oregon Law ORS 279.047. Documentation of State approval must be submitted to the Owner at least seven (7) days prior to the bid opening date.

No proposal will be received or considered unless the bid contains statements by the Bidder as a part of the bid that the provisions required by ORS 279.348 through 279.365 and the Davis-Bacon Act, as may be applicable are to be complied with. Applicable state wage rates are included with the Contract Documents.

When applicable all bidding shall comply with Presidents Executive Order No. 11246. All Bidders shall comply with the applicable provisions of the Equal Employment Opportunity Act of 1972 and the Civil Rights Act of 1964.

Each bid must contain a statement as to whether the Bidder is a resident Bidder, as defined in ORS 279.029. No bid for a construction shall be considered unless the Bidder is registered with the Construction Contractors Board as required by ORS 701.035 to 701.055.

Bidders on this project do not need to be licensed to do asbestos abatement work under ORS 468A.720.

Each bid must be submitted on the prescribed form in a sealed envelope, clearly marked on the outside the Bidders name, address, phone number and project name. Each bid must be accompanied by a certified check or bid bond payable to the City of Newberg, Oregon, in an amount of not less than 10 percent of the total amount of the bid submitted. The successful Bidder will be required to furnish a bond for faithful performance of the Contract in the full amount of the contract price.

A prebid conference will be held on **Tuesday, the 2nd day of March, 1999 at 2:00 pm**, local time, at the Wastewater Treatment Plant, 2301 Wynooski Road, Newberg and a tour of the construction sites will follow.

The City of Newberg reserves the right to reject any or all bids, to waive informalities, and to accept the bid which is in the best interest of the City. No Bidder may withdraw their bid for a period of sixty (60) calendar days after the date set for opening.

For information concerning the proposed work, contact Jadene Torrent, City of Newberg, 503/554-8881.

Jadene Torrent
Community Development Office
Utility Engineer
503/553-8881

BID

PLACE: CITY OF NEWBERG, OREGON

PROJECT: ELECTRICAL RENOVATION OF WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION

TO: MAYOR AND CITY COUNCIL
CITY OF NEWBERG, OREGON
P.O. BOX 970
719 E. FIRST STREET
NEWBERG, OREGON 97132

BIDDERS DECLARATION AND UNDERSTANDING

The undersigned, hereinafter called the Bidder, in compliance with the 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 Bidder has carefully examined the plans and specifications with related documents; and has personally inspected the sites of the proposed work; and is satisfied 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, the Bidder will, within fifteen 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 the 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 Owner.

The Bidder further agrees to begin work within ten calendar days after receipt of written "Notice to Proceed" from the Owner and to fully complete the project within one hundred and twenty (120) calendar days thereafter. Bidder further agrees to pay as liquidated damages, the sum of one hundred 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.

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 Lump Sum Bid amount. The Bidder agrees that the Lump Sum Bid amount represents 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. In case of a discrepancy, the amount shown in words

shall govern.

The undersigned Bidder hereby agrees that the provisions of ORS 279.348 to 279.365 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.

The Bidder shall pay a fee equal to one-tenth of one percent (0.1 percent) of the price of this Contract. The fee shall be paid on or before the first progress payment or sixty (60) days from the date work first began on the Contract, whichever comes first. The fee is payable to the Bureau of Labor and Industries and shall be mailed or otherwise delivered to the Bureau at: Bureau of Labor and Industries, Wage and Hour Division, Prevailing Wage Unit, 800 NE Oregon Street, #32, Portland, Oregon 97232.

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- 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.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids.

The Bidder acknowledges receipt of the following addendum.

NO. <u>1</u>	DATE <u>3/5/99</u>	NO. _____	DATE _____
NO. _____	DATE _____	NO. _____	DATE _____

The name of the Bidder submitting this Proposal is Oregon Electric Group, Inc.

doing business at 1010 SE 11th Ave., Portland, OR, 97214
Street City State Zip

LUMP SUM BID

The Bidder agrees to accept as full payment for the lump sum work proposed for the construction of the Electrical Renovation of Wastewater Treatment Plant Influent Pump Station, as defined in these Contract Documents, based upon the undersigned's own estimate of quantities and costs, the following lump sum of:

Fifty One Thousand Dollars
and No Cents \$ 51,000.00

RESIDENT/NONRESIDENT BIDDER STATUS

Oregon law requires that the Owner, in determining the lowest responsible Bidder, must add a percent increase on the Bid of a nonresident Bidder equal to the percent, if any, of the preference given to that Bidder in the state in which that Bidder resides. Consequently, each Bidder must indicate whether it is a resident or nonresident Bidder. A resident Bidder is a Bidder that has paid unemployment taxes or income taxes in the state of Oregon during the 12 calendar months immediately preceding submission of this Bid, has a business address in Oregon, and has stated in its Bid whether the Bidder is a "resident Bidder". A "nonresident Bidder" is a Bidder who is not a resident Bidder.

The undersigned states that it is: (check one)

1. A resident Bidder X
2. A nonresident Bidder _____

Indicate state in which Bidder resides: Oregon

BIDDER'S PERFORMANCE BOND STATEMENT

Oregon Electric Group, Inc., hereinafter referred to as Bidder is submitting
(Name of Bidder)

a Bid to the City of Newberg pursuant to the latter's Advertisement for Bids, dated February, 1999, for the **Electrical Renovation of Wastewater Treatment Plant Influent Pump Station.**

Bidder certifies that if awarded the Contract, Bidder has the financial ability to obtain a good and sufficient bond issued by a surety to Owner in a sum equal to the amount of the Bid providing for the faithful performance of the Contract.

Bidder understands and agrees that if Bidder fails to provide the performance bond, the Owner will reject such Bid and the Bid Bond or security submitted with the subject Bid will be forfeited. The Surety requested to issue the Performance Bond will be The American Insurance Co.

(Surety Company)

Bidder hereby authorizes Sedgwick James (Agent) to disclose any information to the Owner
(Surety Company)
to the Owner concerning Bidder's ability to supply a performance bond in the amount of the Contract.

In witness thereto the undersigned has set their hand this 12 day of March, 1999.

BIDDER

The name of the Bidder submitting this Bid is Oregon Electric Group, Inc.
doing business at 1010 SE 11th Ave., Portland, Oregon, 97214
(Street) (City) (State) (Zip)
which is the address to which all communications shall be sent.

(If Sole Proprietor or Partnership)

In witness thereto the undersigned has set his hand this ____ day of _____ 1999.

Signature of Bidder

Print Name

Title

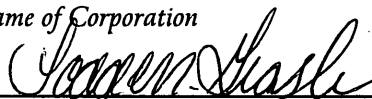
(If Corporation)

In witness whereof the undersigned corporation has caused this instrument to be executed and the seal affixed by its duly authorized officers this 12 day of March 1999.

Oregon Electric Group, Inc.

Name of Corporation

By



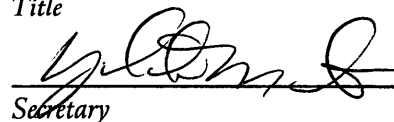
Print Name

Todd Grasle

CFO

Title

Attest


Secretary

RECEIVED

APR 09 1999

OREGON ELECTRIC GROUP
CONTRACT FOR CONSTRUCTION

THIS CONTRACT, made and entered into this 19th day of May, 1999, by and between the CITY OF NEWBERG, OREGON, a municipal corporation, hereinafter called the "OWNER", and

Oregon Electric Group

of _____

hereinafter called the "CONTRACTOR".

WITNESS:

Said Contractor, in consideration of the sum to be paid Contractor by the said Owner and of the covenants and agreements herein contained, hereby agrees at Contractors 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 **Electrical Renovation of Wastewater Treatment Plant Influent Pump Station** to the extent of the Bid made by the Contractor on the 12th day of March, 1999, all in full compliance with the 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 Special Provisions, the Specifications, and the Plans entitled **Electrical Renovation of Wastewater Treatment Plant Influent Pump Station** dated February, 1999, 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 Owner and to Owners satisfaction to the extent provided in the Contract Documents, or as otherwise herein provided and based on the said Bid made by the Contractor, the Owner agrees to pay to the Contractor the amount bid as adjusted in accordance with the Contract Documents, and to make such payments in the manner and 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 Fifty Dollars (\$150.00) per consecutive calendar day. Sundays and legal holidays shall be excluded in determining days in default.

The provisions of ORS 279.348 to 279.365 relating to prevailing wage rates are made a part of this Contract as completely as if the same were fully set forth herein.

The Contractor shall pay a fee to the Oregon Bureau of Labor and Industries pursuant to the provisions of ORS 279.352. The fee is equal to one-tenth of one percent (0.1 percent) of the price of the Contract, but not less than \$100 nor more than \$5000, regardless of the Contract price. The fee shall be paid on or before the first progress payment or 60 days from the date work first began on the Contract, whichever comes first. The fee is payable to the Bureau of Labor and Industries and shall be mailed or otherwise delivered to the Bureau at the following address:

Bureau of Labor and Industries
Wage and Hour Division
Prevailing Wage Unit
800 NE Oregon Street, #32
Portland, Oregon 97232

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

By Duane R. Cole

Print Name Duane R. Cole

City Manager
Title

CONTRACTOR

By Todd M. Grasle

Print Name Todd M Grasle

CFO
Title

APPROVED AS TO FORM:

[Signature]

City Attorney

5/19/99
Date

PERFORMANCE - PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we OREGON ELECTRIC CONSTRUCTION, INC.

A Corporation hereinafter called "Principal" and The American Insurance Company,
(*Corp., Partnership, or Individual*) a Nebraska Corporation

of Novato, State of CA, herein after called "Surety", are held firmly bound unto the City of Newberg, Oregon, hereinafter called "Owner" in the penal sum of Fifty One Thousand and No/100 Dollars (\$ 51,000.00) 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.

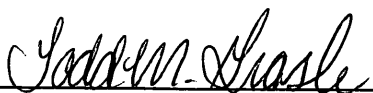
THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain Contract with the Owner, dated this 12th day of March 1999, a copy of which is hereto attached and made a part hereof for the construction of the **Electrical Renovation of Wastewater Treatment Plant Influent Pump Station.**

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 Principal 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.

IN WITNESS WHEREOF, this instrument is executed this 12th day of March 1999.

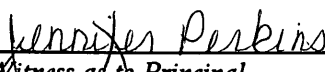

(Principal) Secretary

OREGON ELECTRIC CONSTRUCTION, INC.
Principal

_____(s)
1010 SE 11th Avenue
Portland, OR 97214

(Address - Zip Code)

(SEAL)


Witness as to Principal
1010 SE 11th; Portland, OR 97214
(Address - Zip Code)

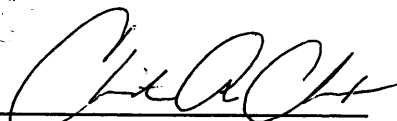
ATTEST

N/A
(Surety) Secretary

The American Insurance Company
Surety

By 
Attorney-in-fact Melissa C. Jones

(SEAL)


Witness as to Surety Christina A. Chambers

111 SW Columbia, Portland, OR 97201-5897
(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.

FIREMAN'S FUND INSURANCE COMPANY

NATIONAL SURETY CORPORATION
THE AMERICAN INSURANCE COMPANY

ASSOCIATED INDEMNITY CORPORATION
AMERICAN AUTOMOBILE INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That FIREMAN'S FUND INSURANCE COMPANY, a California corporation, NATIONAL SURETY CORPORATION, an Illinois corporation, THE AMERICAN INSURANCE COMPANY, a New Jersey corporation redomesticated in Nebraska, ASSOCIATED INDEMNITY CORPORATION, a California corporation, and AMERICAN AUTOMOBILE INSURANCE COMPANY, a Missouri corporation, (herein collectively called "the Companies") does each hereby appoint STACY A. FLYNN, JANETTE L. McWILLIAMS, EDWARD M. THOMPSON, RICHARD W. KOWALSKI, MELISSA C. JONES, PORTLAND OR

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

and to bind the Companies thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seals of the Companies and duly attested by the Companies' Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises.

This power of attorney is granted under and by the authority of Article VII of the By-laws of FIREMAN'S FUND INSURANCE COMPANY, NATIONAL SURETY CORPORATION, THE AMERICAN INSURANCE COMPANY, ASSOCIATED INDEMNITY CORPORATION and AMERICAN AUTOMOBILE INSURANCE COMPANY which provisions are now in full force and effect.

This power of attorney is signed and sealed under the authority of the following Resolution adopted by the Board of Directors of FIREMAN'S FUND INSURANCE COMPANY, NATIONAL SURETY CORPORATION, THE AMERICAN INSURANCE COMPANY, ASSOCIATED INDEMNITY CORPORATION and AMERICAN AUTOMOBILE INSURANCE COMPANY at a meeting duly called and held, or by written consent, on the 19th day of March, 1995, and said Resolution has not been amended or repealed:

"RESOLVED, that the signature of any Vice-President, Assistant Secretary, and Resident Assistant Secretary of the Companies, and the seal of the Companies may be affixed or printed on any power of attorney, on any revocation of any power of attorney, or on any certificate relating thereto, by facsimile, and any power of attorney, any revocation of any power of attorney, or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Companies."

IN WITNESS WHEREOF, the Companies have caused these presents to be signed by their Vice-President, and their corporate seals to be hereunto affixed this 04 day of March, 1999.



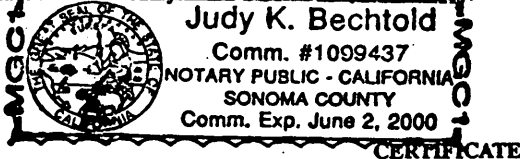
FIREMAN'S FUND INSURANCE COMPANY
 NATIONAL SURETY CORPORATION
 THE AMERICAN INSURANCE COMPANY
 ASSOCIATED INDEMNITY CORPORATION
 AMERICAN AUTOMOBILE INSURANCE COMPANY

By [Signature]
 Vice-President

STATE OF CALIFORNIA }
 COUNTY OF MARIN } ss.

On this 04 day of March, 1999, before me personally came HAROLD N. MARSH to me known, who, being by me duly sworn, did depose and say: that he is a Vice-President of each company, described in and which executed the above instrument; that he knows the seals of the said Companies; that the seals affixed to the said instrument are such company seals; that they were so affixed by order of the Board of Directors of said companies and that he signed his name thereto by like order.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year herein first above written.



[Signature]
 Notary Public

STATE OF CALIFORNIA }
 COUNTY OF MARIN } ss.

I, the undersigned, Resident Assistant Secretary of each company, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore that Article VII of the By-laws of each company, and the Resolution of the Board of Directors; set forth in the Power of Attorney, are now in force.

Signed and sealed at the County of Marin. Dated the _____ day of _____.



[Signature]
 Resident Assistant Secretary

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)

4/22/99

PRODUCER

Sedgwick of Oregon, Inc.
111 SW Columbia
Portland, OR 97201

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.

INSURERS AFFORDING COVERAGE

INSURED

Oregon Electric Const. Inc.
(See Attached List)
1010 SE 11th Avenue
Portland OR 97214

INSURER A: Transportation Insurance Co
INSURER B:
INSURER C:
INSURER D:
INSURER E:

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	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 & Cont Prot GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC	PKG1073179411	12/31/98	12/31/99	EACH OCCURRENCE \$ 1000000 FIRE DAMAGE (Any one fire) \$ 100000 MED EXP (Any one person) \$ 5000 PERSONAL & ADV INJURY \$ 1000000 GENERAL AGGREGATE \$ 2000000 PRODUCTS-COMP/OP AGG \$ 2000000
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ☒ ALL OWNED AUTOS ☒ SCHEDULED AUTOS ☒ HIRED AUTOS ☒ NON-OWNED AUTO	BUA1073179425	12/31/98	12/31/99	COMBINED SINGLE LIMIT (Ea accident) \$ 1000000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY ☐ ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
A	EXCESS LIABILITY ☒ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE ☒ RETENTION \$ 0	CUP1073179618	12/31/98	12/31/99	EACH OCCURRENCE \$ 5000000 AGGREGATE \$ 5000000 \$ \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE-EACH EMPLOYEE \$ E.L. DISEASE-POLICY LIMIT \$
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED ENDORSEMENTS/SPECIAL PROVISIONS * Sedgwick is not listing exclusions or Special Provisions.

RE: ELECTRICAL RENOVATIONS OF WASTEWATER TREATMENT PLANT INFLUENT PUMP STATION PROJECT, CERTIFICATE HOLDER IS INCLUDED AS AN ADDITIONAL INSURED PER ATTACHED.

CERTIFICATE HOLDER

ADDITIONAL INSURED; INSURER LETTER: _____

CANCELLATION

CITY OF NEWBERG
P O BOX 970
NEWBERG OR 97132

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THIS EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

A. G. Rimbach

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

IF SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

NAMED INSURED

Oregon Electric Construction, Inc.

Oregon Electric Construction, Inc. dba:

Sunset Electric Company of Oregon

Allison Electric Company of Oregon

Parkrose Electric Company of Oregon

S.E.C. of Oregon

G & H Electric Company of Oregon

Omni Electric Company of Oregon

Network Cabling Company

Excalibur Electric

Graham Electric of Oregon

Oregon Electric Group

Washington Electric Group

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

WHO IS AN INSURED (Section II) is amended to include as an insured any person or organization (called additional insured) whom you are required to add as an additional insured on this policy under:

1. A written contract or agreement; or
2. An oral agreement or contract where a certificate of insurance showing that person or organization as an additional insured has been issued; but:

the written or oral contract or agreement must be:

 - (a) currently in effect or becoming effective during the term of this policy; and
 - (b) executed prior to the "bodily injury," "property damage," "personal injury," or "advertising injury."

The insurance provided to the additional insured is limited as follows:

1. That person or organization is only an additional insured with respect to liability arising out of
 - a. Premises you own, rent, lease, or occupy or
 - b. "Your work" for that additional insured by or for you.
2. The limits of insurance applicable to the additional insured are those specified in the written contract or agreement or in the Declarations for this policy whichever are less. These limits of insurance are inclusive of and not in addition to the limits of insurance shown in the Declarations.

The insurance provided to the additional insured does not apply to "bodily injury", "property damage", "personal injury" or "advertising injury" arising out of an architect's, engineer's, or surveyor's rendering of or failure to render any professional services including:

1. The preparing, approving, or failing to prepare or approve maps, drawings, opinions, reports, surveys, change orders, design or specifications; and
2. Supervisory, inspection, or engineering services.

Any coverage provided hereunder shall be excess over any other valid and collectible insurance available to the additional insured whether primary, excess, contingent or on any other basis unless a contract specifically requires that this insurance be primary or you request that it apply on a primary basis.

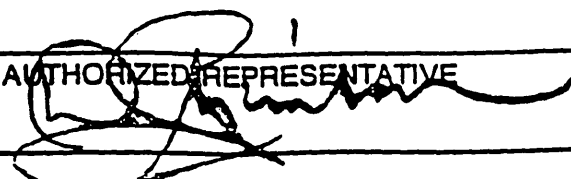
THIS ENDORSEMENT IS A PART OF YOUR POLICY AND TAKES EFFECT ON THE EFFECTIVE DATE OF YOUR POLICY UNLESS ANOTHER EFFECTIVE DATE IS SHOWN BELOW.

POLICY CHANGE NO.

EFFECTIVE DATE OF THIS POLICY CHANGE

COUNTERSIGNED DATE

AUTHORIZED REPRESENTATIVE



ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)
04/22/99

PRODUCER JBL&K RISK SERVICES PHONE: (503) 222-1831 220 N W 2ND AVE. #800 PORTLAND, OR 97209-3951	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	
INSURED OREGON ELECTRIC GROUP 1010 SE 11TH AVENUE PORTLAND OR 97214	COMPANY A	SAIF CORPORATION
	COMPANY B	
	COMPANY C	
	COMPANY D	

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 LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
	GENERAL LIABILITY ☐ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☐ OCCUR ☐ OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE	\$
					PRODUCTS - COMP/OP AGG	\$
					PERSONAL & ADV INJURY	\$
					EACH OCCURRENCE	\$
					FIRE DAMAGE (Any one fire)	\$
					MED EXP (Any one person)	\$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS				COMBINED SINGLE LIMIT	\$
					BODILY INJURY (Per person)	\$
					BODILY INJURY (Per accident)	\$
					PROPERTY DAMAGE	\$
	GARAGE LIABILITY ☐ ANY AUTO				AUTO ONLY - EA ACCIDENT	\$
					OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	\$
					AGGREGATE	\$
	EXCESS LIABILITY ☐ UMBRELLA FORM ☐ OTHER THAN UMBRELLA FORM				EACH OCCURRENCE	\$
					AGGREGATE	\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL	812111	10/01/98	10/01/99	☒ WC STATUTORY LIMITS ☐ OTHER	
					EL EACH ACCIDENT	\$ 500,000
					EL DISEASE-POLICY LIMIT	\$ 500,000
					EL DISEASE-EA EMPLOYEE	\$ 500,000
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

ALL OPERATIONS OF THE NAMED INSURED SUBJECT TO POLICY TERMS AND CONDITIONS.
RE: ELECTRICAL RENOVATIONS OF WWTP INFLUENT PUMP STATION PROJECT.

CERTIFICATE HOLDER

CITY OF NEWBERG

414 E. FIRST 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 30 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

Lori Anderson

LA A

GENERAL PROVISIONS

**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999

GENERAL PROVISIONS

SECTION 1.00 DEFINITIONS AND TERMS

Terms used or referred to herein are defined as follows:

1.01 BID

The offer of the Bidder when submitted on the proposal form, properly signed and guaranteed.

1.02 BIDDER

Any individual, firm partnership, corporation or combination thereof acting directly or through a duly authorized representative, submitting a proposal on the work contemplated.

1.03 CHANGE ORDER

A written instruction to the Contractor, signed by the Engineer, prescribing any change in the work.

1.04 CONTRACTING AGENCY

The agency which has been contracted for the performance of the work or for whom the work is being performed. Unless specifically stated otherwise, wherever in these documents the words "Contracting Agency" appear, it shall be understood to mean the City of Newberg, a Municipal corporation, located in Yamhill County, Oregon.

1.05 CONTRACT

The written agreement covering performance of the work including formal Contract, Advertisement for Bids, instructions to Bidders, Bid with required affidavits, Specifications, Bonds, Plans, and all other Contract Documents.

1.06 CONTRACTOR

The individual, partnership, corporation, or other entity entering into a Contract with the Contracting Agency to perform the contemplated work. In the case of work being done under a permit issued by the Contracting Agency, the Permittee shall be construed to be the Contractor.

1.07 ENGINEER

The Engineer of the Contracting Agency, acting either directly or through the Engineer's authorized representatives, and designated by the Contracting Agency to supervise the work during its execution.

GENERAL PROVISIONS

1.08 HOUSE CONNECTION SEWER

Any sewer pipe line lying within an easement, public street or right of way which connects or is proposed to connect, a house sewer or any lot or part of a lot with a public sewer.

1.09 HOUSE SEWER

Any sewer pipe line which connects, or is proposed to connect, any building to a house connection sewer.

1.10 INSPECTOR

An authorized representative of the Engineer of the Contracting Agency, limited to the particular duties entrusted by the Engineer.

1.11 LABORATORY

A materials testing laboratory operated by a public agency or if approved by the Engineer, any private, commercial testing laboratory.

1.12 LINEAL FOOT

Horizontal measurement as determined by engineers' station.

1.13 MAJOR ITEM

Any items or work and/or materials having an original contract value in excess of \$500.00 or which exceeds ten (10) percent of the amount of the original contract, whichever is greater.

1.14 NOTICE TO PROCEED

A written notice to the Contractor from the Contracting Agency, designating the date by which the Contractor shall begin prosecution of the work.

1.15 PERSON

Any individual, firm, association, partnership, corporation, trust, or joint venture.

1.16 PLANS

The plans, profiles, cross sections, and drawings, or reproductions thereof, approved by the Engineer, which show the details of the work to be done.

GENERAL PROVISIONS

1.17 PROPOSAL GUARANTY

Certified check or Bidder's surety bond executed by a bonafide surety company, accompanying the Bid as a guarantee that the Bidder will enter into a Contract with the Contracting Agency for the performance of the work.

1.18 REFERENCE SPECIFICATIONS

Bulletins, standards, rules, methods of analysis or test, codes and specifications of other agencies, engineering societies, or industrial associations referred to in these specifications. All such references specified herein, refer to the latest edition thereof, including any amendments thereto which are in effect and published at the time of advertising for bids or issuing the permit for the project.

1.19 ROADWAY

That portion of the right-of-way or easement intended for use by vehicles.

1.20 SANITARY SEWER

A sewer that carries liquid and water-carried wastes together with minor quantities of storm, surface, and ground waters that are not admitted intentionally.

1.21 SEWER

A pipe or conduit that carries wastewater or drainage water.

1.22 SPECIAL PROVISIONS

Specific clauses setting forth conditions or requirements peculiar to the work which modify or supplement the standard specification.

1.23 SPECIFICATIONS

This term includes the standard specifications and specifications included herein by reference, any special or project specifications, and specifications included therein by reference, specifications on the plans referred to and specifications contained or referred to in supplemental agreements between the Contractor and the Contracting Agency.

1.24 STANDARD DRAWINGS

Drawings of structures or devices referred to on the plans or in specifications by title and/or an index number.

GENERAL PROVISIONS

1.25 STATE

The State of Oregon.

1.26 STORM SEWER

A sewer that carries storm water and surface water, street wash and other wash waters, or drainage, but excludes domestic wastewater and industrial wastes. Also called storm drain.

1.27 STREET

Any road, highway, parkway, freeway, alley, walk or way.

1.28 SURETY

The bondsman, party or parties who may guarantee the fulfillment of the Contract by bond.

1.29 UTILITY

Tracks, overhead or underground wires, pipe lines, conduits, ducts of structures, owned, operated, or maintained in or across a public right-of-way or private easement.

1.30 WORK

That which is proposed to be constructed or done under the Contract.

1.31 ABBREVIATIONS AND SYMBOLS

A.A.S.H.O. (AASHO) American Association of State Highway Officials; A.G.C. (AGC) Associated General Contractors of America; A.P.W.A. (APWA) American Public Works Association; A.S.T.M. (ASTM) American Society for Testing Materials; A.W.W.A. (AWWA) American Water Works Association; I.C.E.A. (ICEA) Insulated Cable Engineers Association; I.E.E.E. (IEEE) Institute of Electrical and Electronics Engineer Inc.; IEC-Standard for Automatic Transfer Switches; N.E.C. (NEC) National Electric Code; N.E.M.A. (NEMA) National Electrical Manufacturers Association; N.F.P.A. (NFPA) National Fire Protection Association; O.R.S. (ORS) Oregon Revised Statutes; U.L. (UL) Underwriters Laboratories, Inc.

SECTION 2.00 PROPOSAL REQUIREMENTS AND CONDITIONS

2.01 INTERPRETATION OF PLANS AND SPECIFICATIONS

The Engineer will interpret the meaning of any part of the plans and specifications about which any misunderstanding may arise, and the Engineer's decision will be final.

GENERAL PROVISIONS

Should the Contractor become aware of any error or discrepancy in or between the plans and specifications, the Contractor shall refer the matter to the Engineer for adjustment before proceeding further with the work. Should the Contractor proceed with the work without referring the matter, the Contractor does so on their own responsibility.

2.02 FIELD CONDITIONS

Logs of test holes, ground water levels, and any accompanying soil reports as furnished by the Contracting Agency are furnished for general information only. The field conditions so set forth shall not constitute a representation or warranty, expressed or implied that such conditions are actually existent. Bidders shall make their own investigations and form their own estimates of the site conditions. The Contracting Agency will not be liable for any loss sustained by the Contractor as a result of any variance between conditions as set forth in the soil reports or as shown by the logs of test holes and the actual conditions revealed during the progress of the work or otherwise.

2.03 CONTRACT DOCUMENTS

The Contract Documents under which it is proposed to execute this work consist of the material bound herewith. These Contract Documents are intended to be mutually cooperative and to provide all details reasonably required for the execution of the proposed work. Any person contemplating the submission of a Bid and being in doubt as to the meaning or intent of said Contract Documents should request of the Engineer, in writing, an interpretation thereof. Any interpretation or change in said Contract Documents will be made only in writing, and a copy of such interpretation or change will be mailed or delivered to each person receiving a set of the Documents. The Contracting Agency will not be responsible for any other explanation or interpretation of said Documents.

2.04 TYPE OF BID

The Bid for the work contemplated is to be submitted on the form prescribed in the Bid.

2.05 PREPARATION OF BIDS

All blank spaces in the Bid form must be filled, in ink, in both words and figures where required. No changes shall be made in the phraseology of the forms or in the items mentioned here in. Written amounts shall govern in cases of discrepancy between the amounts stated in writing and the amounts stated in figures. In the case of error in extending unit prices in the bid, the correct extension of the unit prices shall govern.

Any Bid shall be deemed informal which contains omissions, erasures, alterations or additions of any kind, or items uncalled for, or in which any of the items are obviously unbalanced, or which in any manner shall fail to conform to the conditions of the published Advertisement for Bids.

The Bidder shall sign their Bid in the blank space provided therefore. Bids made by corporations or partnerships shall contain names and addresses of the principal officers or partners. If the Bid is made by a corporation, it must be acknowledged by one of the principal officers thereof; if made by a partnership, by one of the partners.

GENERAL PROVISIONS

2.06 SUBMISSION OF BIDS

All Bids must be submitted at the time and place and in the manner prescribed in the Advertisement for Bids. Bids must be made on the prescribed Bid forms and submitted with the Contract Documents.

2.07 WITHDRAWAL OF BID

Any bid may be withdrawn prior to the scheduled time for the opening of bids either by telegraph or written request, or in person. No bid may be withdrawn after the time scheduled for opening of bids unless the time specified in the Advertisement for Bids has elapsed.

2.08 BID SECURITY

Bids must be accompanied by a certified check drawn on a bank in good standing, or a bid bond issued by a surety company authorized to issue such bonds in the State of Oregon, in an amount of not less than ten (10) percent of the total amount of the Bid submitted. This check or bid bond shall be given as a guarantee that if awarded the Contract, the successful Bidder will execute the attached Contract and furnish a properly executed Performance Bond in the full amount of the Contract price within the time specified.

The Contracting Agency reserves the right to retain the bid security of the three lowest Bidders until the successful Bidder has signed and delivered the Contract, and furnished a one-hundred percent (100%) Performance Bond within the specified time; the next lowest bid may be accepted at the Owner's discretion whereupon the above instructions and requirements will apply to the said second Bidder.

2.09 CONDITIONS OF WORK

Each Bidder must inform themselves of the conditions relating to the regular execution of the work, and it is assumed that he will inspect the site and make themselves thoroughly familiar with all the Contract Documents. Failure to do so will not relieve the successful Bidder of any obligation to enter into a Contract and complete the contemplated work in strict accordance with the Contract Documents.

Each Bidder must inform themselves of all laws and statutes, both Federal and State, relative to the regular execution of the work, the employment of labor, protection of public health, the protection of private property, right-of-way, and access to the work, fire protection regulations, and similar requirements.

2.10 PREQUALIFICATION OF BIDDERS

Bidders who are in doubt as to their qualifications should refer to the requirements regarding prequalification in the Advertisement for Bids for this Contract. Prequalification requests must be submitted by the time stipulated in the Advertisement for Bids.

SECTION 3.00 AWARD AND EXECUTION OF CONTRACT

3.01 AWARD OF CONTRACT

GENERAL PROVISIONS

After the Bids for the contemplated work have been opened and read as provided in these specifications, the respective totals thereof will be checked and compared by the Contracting Agency; and the results thereupon will be considered public information.

Unless otherwise stated in the Special Provisions or in the Advertisement for Bids the Contract will be awarded within the sixty (60) days after the opening of Bids to the lowest Bidder meeting the qualifications required by law, including but not limited to the law relating to prequalification of Bidders, and the requirements stated in the advertisement for bids, and instructions to Bidders, and/or the specifications, and whose bid complies with all the prescribed requirements unless all bids are rejected. The Contracting Agency reserves the right to reject any and all bids and no bid shall be considered as being binding upon the Contracting Agency until the execution of the Contract; and failure of the Awardee to properly execute the awarded Contract and furnish acceptable bonds and insurance as provided herein, shall be just and sufficient cause for the annulment of the award and the forfeiture of the proposal guaranty.

3.02 EXECUTION OF CONTRACT

The Contract shall be signed by the successful Bidder and returned together with the Contract bonds and required insurance documents within 15 calendar days after the award of the Contract unless otherwise stated in the Special Provisions or in the Advertisement for Bids, and after receipt of same by the Contracting Agency the proposal guarantees will be returned to all Bidders. The Contractor shall carry all insurance which may be required by Federal and State laws by local ordinances, and by these specifications.

The attention of the Contractor is called to the fact that, when the United States Government participates in all or any portion of the cost of the work, the Federal laws authorizing such participation and the rules and regulations made pursuant to such laws must be observed by the Contractor. The work shall be subject to the inspection and approval of the authorized representatives of such Federal agencies as are created for the administration of these laws.

3.03 CONTRACT BONDS

Prior to the execution of the Contract, the Contractor shall file with the Contracting Agency a Performance Bond in the amount and for the purposes noted below, duly executed by a responsible corporate surety authorized to issue such bonds in the State of Oregon, which bond must in all respects comply with ORS 279.029 and ORS 279.526 Et. Seq. inclusive, and be satisfactory and acceptable to the Contracting Agency and the Contractor shall pay all premiums and costs thereof and incidental thereto to keep such bond in full force until one year after acceptance of the work in writing by the Contracting Agency.

The bond must be signed by both the Contractor and Surety and shall be in the sum of not less than 100% of the Contract price to assure the claims of material workers supplying materials to the Contractor, and of mechanics and laborers employed by the Contractor on the work required under these specifications.

Provided the Contractor shall faithfully and truly observe and comply with the terms, conditions,

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and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by the Contractor undertaken, and within the time prescribed therein or as extended as provided in the applicable Standard Specifications, and shall indemnify and save harmless the Contracting Agency, its officers, employees, and agents, against any direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the said Contract by the said Contractor or subcontractors; and shall make payment promptly, as due, to all subcontractors and to all persons supplying to the Contractor or subcontractors: equipment, supplies, labor, or materials for the prosecution of the work, or any part thereof, provided for in said Contract, and shall pay all contributions or amounts due the State Industrial Accident Fund and the State Tax Commission; and shall pay all other debts, dues and demands incurred in the performance of the said Contract and shall in all respects perform said Contract according to law, then this obligation is to be void, otherwise to remain in full force and effect.

Non payment of the bond premium will not invalidate this bond nor shall the Contracting Agency be obligated for the payment thereof.

Should any surety or sureties upon said bonds or any of them become insufficient, said Contractor shall renew said bond or bonds with good and sufficient sureties within ten (10) days after receiving notice from the Contracting Agency that the surety or sureties are insufficient.

3.04 PROTECTIVE LIABILITY INSURANCE REQUIREMENTS AND PROPERTY INSURANCE

The Contractor shall furnish to the Contracting Agency in triplicate, a policy or certificate of protective liability insurance in which the Contracting Agency shall be named insured or be named in such insurance as an additional insured with the Contractor. In compliance with this provision, the Contractor may file with the Contracting Agency a satisfactory "blanket coverage" policy or certificate of insurance. The policy shall insure the Contracting Agency, its officers, employees and agents against all claims arising out of or in connection with the work to be performed and shall remain in full force and effective until the work is accepted by the Contracting Agency. The policy shall provide the following minimum limits.

Bodily Injury	\$ 500,000 each person
	\$ 500,000 each occurrence
Property Damage.	\$ 500,000 each accident

Such policy shall provide coverage at least as broad as that provided in the Standard Form approved by the National Bureau of Casualty Underwriters together with such endorsements as are required to cover the risks involved. In addition, the Contractor shall furnish evidence of a commitment by the insurance company to notify the Contracting Agency of the expiration or cancellation of the insurance policies.

The Contractor shall purchase and maintain property insurance upon the Work at the site to the full insurable value thereof. This insurance shall include the interests of Contracting Agency, Contractor, Subcontractors, and consultants in the Work, all of whom shall be listed as insureds or additional insured articles, shall insure against the perils of fire and extended coverage and shall include "all risk" insurance

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for physical loss and damage including theft, vandalism and malicious mischief, collapse and water damage, and such other perils as may be provided in the SPECIAL PROVISIONS, and shall include damages, losses and expenses arising out of or resulting from any insured loss or incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers, architects, attorneys and other professionals). If not covered under the "all risk" insurance or otherwise provided in the SPECIAL PROVISIONS. Contractor shall purchase and maintain similar property insurance on portions of the Work stored on and off the site or in transit.

All policies of insurance for the certificate or other evidence thereof required to be purchased and maintained by Contractor will contain a provision or endorsement that the coverage afforded will not be cancelled or materially changed or renewal refused until at least thirty days prior written notice has been given to the Contracting Agency by certified mail.

3.05 CONTRACTING AGENCY'S IMMUNITY FROM LIABILITY

The Contractor shall save, keep and hold harmless, the Contracting Agency and all officers and agents thereof from all damages, costs or expenses in law or equity that may at any time arise or be set up because of damages to property or of personal injury received by reason of or in the course of performing said work, which may be occasioned by any negligence upon the part of the Contractor or any of said Contractor's employees, or any subcontractor performing any of the work contemplated by the Contract.

The Contracting Agency shall not be liable or responsible for any accident, loss, or damage happening to the works referred to in the Contract prior to the completion and acceptance thereof.

3.06 INDUSTRIAL ACCIDENT INSURANCE

The Contractor, its subcontractors if any and all employers working under this Contract are subject employers under the Oregon Workers Compensation Law and shall comply with ORS 656.017, which requires them to provide Workers Compensation coverage for all their subject workers. They shall secure and maintain in full force and effect and bear the cost of complete Industrial Accident Insurance in accordance with the requirements of the Workmen's Compensation laws. The Contracting Agency, its officers, employees, or agents will not be responsible for any claims or suits in law or equity occasioned by this paragraph.

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SECTION 4.00 SCOPE OF WORK

4.01 INTENT OF CONTRACT

The intent of the Contract is to prescribe a complete work or improvement which the Contractor undertakes to do, in full compliance with the provisions and requirements of the Contract. The Contractor for all or any part shall furnish all labor, materials, tools, equipment, transportation, necessary supplies and incidentals required to make each and every item complete as contemplated by the Contract. Any deviation from these requirements must be stipulated in the SPECIAL PROVISIONS.

4.02 PLANS, SPECIFICATIONS AND WORK

The plans, together with specifications and other Contract Documents will govern the work to be done. Anything mentioned in the specifications but not shown on the plans and detailed drawings, or anything shown on the plans and detailed drawings but not mentioned in the specifications, shall be of like effect as though shown or mentioned in both.

Specifications and plans referred to in any of the Contract Documents shall be considered as being included in the document in which such reference is made. A reference to a particular specification or standard drawing in the Contract Documents shall refer to the version that is in force at the time of advertisement for bids.

In case of conflict, the order of precedence of the following documents in controlling the work shall be:

- (1) Permits from outside agencies required by law.
- (2) Special Provisions
- (3) General Provisions
- (4) Specifications
- (5) Plans

Change orders, supplemental agreements and approved revisions to plans and specifications will take precedence over Contract Documents listed above.

4.03 PLANS AND SHOP DRAWINGS

The plans furnished and included with the specifications will show such details as may be necessary to comprehensively indicate the work that is proposed and the results that are intended to be accomplished. The Contractor shall keep a copy of the plans and specifications at the job site and access thereto shall, at all times, be accorded the Engineer. Any additional working drawings, detail plans, or shop drawings that may be required in connection with the prosecution or construction of any part of such work shall be supplied by and at the expense of the Contractor as they will not be accepted by the Engineer from suppliers or others.

When shop drawings are required in the various sections of the specifications or are requested by the Engineer, they shall be prepared in accordance with standard engineering practice. Shop drawings shall be of sufficient size and scale to clearly illustrate all details. Unless otherwise specified, shop

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drawings shall be submitted in quadruplicate to the office of the Engineer for approval or correction not less than 30 days before approved drawings will be required. One set will be returned to the Contractor marked "approved" or "approved as corrected". If changes are required, four copies of corrected shop drawings shall be delivered to the Engineer. No materials shall be furnished or work done on items requiring shop drawings prior to approval. Approval of shop drawings shall not relieve the Contractor from responsibility for errors or omissions of any sort in the shop drawing.

4.04 CHANGES AT THE CONTRACTOR'S REQUEST

Provision has been made in the specifications for certain specific changes in methods of construction which may be made at the Contractor's request and upon approval of the Engineer. Changes in the drawings and specifications, other than those specified herein, which do not materially affect the work, and which are not detrimental to the work or to the interests of the Contracting Agency as determined by the Engineer, may be granted to facilitate the work of the Contractor when such changes are requested in writing and submitted to the Engineer for approval. In the event such changes are granted, the changes shall be made without additional cost to the Contracting Agency, and the Contracting Agency reserves the right to receive an equitable adjustment in the Contract price or Contract time as a consideration for authorizing any such change.

4.05 ALTERATION OF QUANTITIES AND EXTRA WORK

The Contracting Agency reserves the right to make such increase or decrease in the quantity of any item of work or material to be performed or furnished under such Contract, or to order the performance of such additional or extra work of a class not contemplated by the proposal as may be considered expedient or advantageous and essential to the satisfactory completion of proposed work and the full accomplishment of the intended purpose thereof, without thereby affecting the validity of the Contract or Contract bonds, and without giving notice to the surety of any such bond, unless the total bid price is increased more than 25%. In such cases the Contractor will be required to perform or furnish additional quantities or extra items of work or materials or to decrease the amount of work or materials to be performed or furnished under the Contract or to omit portions thereof, and to furnish and provide the necessary labor and equipment to do so, when and as the Engineer may so order in writing within the limitations herein or by law provided. In the event that any such increase or decrease in the quantity of work or materials to be performed or furnished is so ordered, the amount to be paid the Contractor under this Contract shall be correspondingly increased or decreased as the case may be, in proportion to the increased or decreased quantities of work or materials performed or furnished under such order.

4.06 ALTERATION OF QUANTITIES

In the event that the Contractor is directed by the Engineer to increase, decrease or omit portions of the work, and the total pay quantity for any items of work varies from the original Contract quantity by 25% or less, payment will be made for the quantity of work performed at the Contract unit price thereof.

If the total pay quantity for any item of work required under the Contract varies from the original Contract quantity by more than 25%, the compensation to the Contract will be determined as follows:

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If a change is made which, together with any previous changes in quantity, increases the quantity of any major item or decreases the quantity of any item more than 25% of the original Contract quantity, the payment for the work in excess of the 25% increase over the original Contract amount of that item will be determined by negotiation; at the option of the Engineer, payment for such excess will be made on the basis of "Extra Work" as hereinafter provided. Credit for decreases in the quantity of any item may be determined by negotiation but in no event shall the amount of credit exceed the Contract unit prices for the omitted items.

4.07 LABOR

The cost of all labor used in performing the work under this Contract shall be based on the prevailing wage scale as may be set forth in the Special Provisions for each particular craft or type of workman involved. Employer payments for payroll taxes and insurance, health and welfare, pension, vacation, and other similar purposes shall be included in this cost.

4.08 EXTRA WORK

Any new and unforeseen work will be classed as "Extra Work" when determined by the Engineer that said work is not covered by any of the Contract items for which there is a bid price, or by a combination of such items.

Changes in the work involving either additional costs or credits for unforeseen additions or omissions in the work shall be made only subsequent to execution of a Change Order by the Engineer or by Supplemental Agreement issued by the Contracting Agency.

Payment of extra work on a lump sum or Unit Price basis required to be performed in accordance with the provisions of this section will be established by mutual agreement between the Contractor and the Engineer within the legal limits provide by State Laws or local ordinances. When no mutual agreement can be reached, payment will be made on a force account basis as hereinafter prescribed.

When the extra work is to be performed on a force account basis, the Contractor shall keep full and complete records of the cost of such work and shall permit the Engineer to have access thereto as may be necessary to assist in the determination of the compensation payable for such work. An itemized statement of such work shall be submitted to the Engineer for approval prior to submitting invoice for payment. The Contractor will be paid for labor, materials, and equipment rental as hereinafter prescribed. Only materials incorporated in the work will be paid for.

To the totals computed as hereinafter prescribed for labor, materials and equipment rental will be added 15% for overhead, profit and supervision. It is understood that labor, materials, and equipment may be furnished by the Contractor or the subcontractor or by others on behalf of the Contractor. However, when extra work to be paid for on a force account basis is performed by forces other than those of the Contractor, the Contractor shall reach agreement with such other forces as to the distribution of the payment to be made by the Contracting Agency for such work and no additional payment will be made therefore.

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4.08A LABOR

The cost of all labor used in performing extra work under this Contract shall be in accordance with Section 4.07.

4.08B MATERIALS

The cost of materials incorporated in the work will be the cost to the purchaser, whether Contractor, Subcontractor or other forces, from the supplier thereof, except as follows:

- a. If materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier as determined by the Engineer. No markup except for actual costs incurred in the handling of such materials will be permitted.
- b. If the materials are obtained from a supplier or source owned wholly or in part by the purchaser, payment therefor will not exceed the price paid by the purchaser, payment therefor will not exceed the price paid by the purchaser for similar materials furnished from said source on Contract items or the current price of such materials delivered to the job site, whichever price is lower.
- c. The Contracting Agency reserves the right to furnish such materials as it deems advisable, and the Contractor shall have no claims for costs and profit on such furnished materials.

4.08C EQUIPMENT RENTAL

The Contractor will be paid for the use of equipment on the basis of, but not exceeding the prevailing hourly rental rates established by the Oregon State Highway Department and recognized by the Associated General Contractors for the area where such equipment is required to be operated.

On any equipment for which no rental rate has been established by Oregon State Highway Department, or where the required operation of the equipment is less than four hours or in excess of one week, rental rates shall be proposed by the Contractor and agreed upon in writing by the Engineer prior to the start of force account work.

Equipment that is in operational condition and is standing by with the Engineer's approval for participation in force account work will be paid for at 50% of the agreed upon rental rate.

Rental time will not be allowed while equipment is inoperative due to breakdowns for periods in excess of 30 minutes. Rental time shall be computed in ½ hour increments. In computing rental time of equipment in actual operation, less than 30 minutes will be considered ½ hour.

The rental rates paid, as above provided, shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals. Operators of rented equipment will be paid for as provided under Section 4.08D.

All equipment shall, in the opinion of the Engineer be in good working condition and suitable for

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the purpose for which the equipment is to be used.

Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

Individual pieces of equipment or tools having a replacement value of \$50.00 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefore.

a. Equipment on the Work - The rental time to be paid for equipment on the work shall be the time the equipment is in operation on the extra work being performed and, in addition, shall include the time required to move the equipment to the location of the extra work and return it to the original location, except that moving time will not be paid for if the equipment is used at the site of the extra work on other than such extra work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made if the equipment is used at the site of the extra work on other than such extra work.

b. Equipment Not on the Work - For the use of equipment moved in for the work and used exclusively for extra work paid for on a force account basis, the Contractor will be paid rental rates as agreed to, as provided in Section 4.08C above, and for the cost of transportation of the equipment to the location of the work and its return to its original location, all in accordance with the following provisions.

(1) The original location of the equipment to be hauled to the location of the work shall be agreed to by the Engineer in advance.

(2) The Contracting Agency will pay the costs of loading and unloading such equipment.

(3) The cost of transporting equipment in low bed trailers shall not exceed the hourly rates charged by established haulers or the applicable minimum established rates of the Oregon Public Utility Commission.

(4) The rental period shall begin at the time the equipment is unloaded at the site of the extra work, shall include each day that the equipment is at the site of the extra work, excluding Saturdays, Sundays and legal holidays unless the extra work is performed on such days, and shall terminate at the end of the day on which the Engineer directs the Contractor to discontinue the use of such equipment. The maximum rental time to be paid per day shall not exceed 8 hours unless the equipment is in operation for a longer period of time.

(5) Should the Contractor desire the return of the equipment to a location other than its original location, the Contracting Agency will pay the cost of transportation in accordance with the above provisions, provided such payment shall not exceed the cost of moving the equipment into the location of the work.

(6) Payment for transportation, loading, and unloading equipment as above provided, will not be made if the equipment is used on the work in any other way than upon extra work paid for on a force

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account basis.

4.08D RECORDS

The Contractor shall maintain their records in such a manner as to provide a clear distinction between the direct cost of extra work paid for on the force account basis and the costs of the other operations performed in connection with the Contract.

The Contractor shall furnish to the Engineer daily reports in duplicate of the extra work to be paid for on a force account basis. The reports shall itemize the materials used and shall set forth the direct cost of labor and the charges for equipment rental whether furnished by the Contractor, or subcontractor. The reports shall provide all names or identifications and classifications of workers, the hourly rate of pay and hours worked together with the size, type, and identification number of equipment and hours of equipment operation. All reports shall be signed by the Contractor or an authorized representative.

Material charges shall be substantiated by vendors' invoices. Such invoices shall be submitted with the reports; or, if not available, they shall be submitted with subsequent reports. In the event said vendors' invoices are not submitted within 15 days after acceptance of the work, the Contracting Agency reserves the right to establish the cost of such materials at the lowest current price at which said materials are available in the quantities concerned delivered to the location of the work.

The Engineer will compare personal records with the reports furnished by the Contractor, make any necessary adjustments and then compile the costs of extra work paid for on a force account basis on forms furnished by the Contracting Agency. When these extra work reports are agreed upon and signed by both parties, they shall become the basis of payment for the work performed.

4.09 CLEANUP AND DUST CONTROL

Throughout the period of construction, the Contractor shall keep the site free and clean from all rubbish and debris and shall promptly clean up all or any portion of the site when notified to do so by the Engineer. Care shall be taken to prevent spillage on the streets over which hauling is done, and any such spillage or debris deposited on streets due to the Contractor's operations shall immediately be cleaned up. The Contractor shall promptly remove any parts from the working area of all unused materials, surplus earth, and debris. Construction areas shall be left in a clean, neat and acceptable condition at the earliest time following completion of that portion of the work.

In the event that the Contractor fails to comply with the orders of the Engineer regarding cleanup, the Engineer may require the Contractor to cease progress on any or all parts of the work under Contract until the unsatisfactory condition is corrected. The Engineer may order such cleanup work performed by others and the costs therefor deducted from payments due the Contractor. No additional compensation will be allowed as a result of such suspension.

During all phases of the construction work; the Contractor shall take precautions to abate dust nuisance by cleaning up, sweeping, sprinkling with water, or other means as necessary to accomplish results satisfactory with the Engineer.

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Upon completion of the work and prior to final inspection the entire site of operations shall be cleared of equipment, unused materials and rubbish so as to present a clean and neat appearance. All costs of "Cleanup," including all charges for water, are to be absorbed in the prices bid for the various bid items.

4.10 VERMIN CONTROL

At the time of occupancy by the Contracting Agency, any structure or structures entirely constructed under the Contract shall be free of rodents, insects, vermin and/or pests. Extermination work as may be necessary shall be arranged and paid for by the Contractor as part of the Contract work within the Contract time and shall be performed by a licensed agency and in accordance with the requirements of governing authorities. The Contractor shall be responsible for any injury to persons or property resulting from extermination work.

4.11 SANITARY PROVISIONS

The Contractor shall provide, and maintain in a neat and sanitary condition, such accommodations for the use of the employees as may be necessary to comply with all applicable laws, ordinances and regulations.

In the event of damage to the existing sewer facilities, or interruptions of existing sewage flows, the Contractor shall promptly dispose of any free sewage by pumping or other means. Sewage shall not be permitted to flow in the trenches or be covered by backfill. Continuous sanitary sewer service in closed conduits shall be maintained at all times.

SECTION 5.00 CONTROL OF WORK

5.01 SUPERVISION AND INSPECTION

The Engineer shall decide within the provisions of the specifications all questions which may arise concerning the quality or acceptance of materials furnished and work performed, and all questions concerning the acceptable fulfillment of the Contract by the Contractor.

The Engineer or a representative shall have access to the work at all times. The Contractor shall furnish all facilities for inspection at the construction site, and at shops or yards, and shall not cover up any work requiring inspection until the same has been approved by the Engineer. If work should be covered up before being inspected, the Contractor will be required to remove such portions of the work as may be necessary to disclose the part in question.

The Contractor shall be fully responsible for providing proper supervision and sufficient labor and equipment to accomplish the work and to complete the work within the Contract time. The Contractor shall notify the Engineer 24 hours prior to commencing any work, or resuming work after shutdowns, except for normal resumption of work following Saturdays, Sundays, or Holidays. The Contractor shall maintain a local telephone for the duration of the Contract, at their own expense, where Contractor or an authorized representative may be reached directly or by message at all times; during and outside of working hours.

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5.02 COOPERATION WITH OTHERS

Ordinarily, utility companies and Contracting Agency responsible for facilities located within the right-of-way will be required to complete any installation, relocation, repair, or replacement prior to commencement of work by the Contractor. However, when this is not feasible or practicable or the need for such work was not foreseen, such utility companies or Contracting Agency shall have the right to enter upon the right-of-way and upon any structure therein for the purpose of making new installations, changes or repair, and the Contractor shall so conduct the operations as to provide the time needed for such work to be accomplished during the progress of the improvement.

Where two or more Contractors are employed on related or adjacent work, each shall conduct their operations in such a manner as not to cause any unnecessary delay or hindrance to the other.

5.03 MUTUAL RESPONSIBILITY OF CONTRACTORS

The Contracting Agency may let other Contracts on any portion of the site for any work not included in the Contract.

The Contractor shall perform the work of the Contract so that it will properly coordinate with and fit the work performed by other Contractors. The Contractor also shall give the other Contractors every reasonable opportunity to perform their work, store materials, and place equipment therefore, and fit their work to the work of other Contractors. The Contractor shall furnish to the other Contractors all information necessary in order that they may properly connect and coordinate their work schedules and in ample time, so that they may have reasonable opportunity to prepare their work accordingly. The Contractor shall make the work of the Contract ready to receive the work of the other Contractors at the time fixed therefore, and shall fit this work to that of the other Contractors at the times fixed therefore.

5.04 UTILITIES

Utilities for the purposes of these specifications shall be considered as including but not limited to: pipe lines, conduits, transmission lines, and appurtenances of Public Utilities and those of private industry, businesses or individuals solely for their own use or for use of their tenants, and storm drains, sanitary sewers, irrigation facilities, street lighting, traffic signals, telephone, television, and fire alarm systems.

The Contracting Agency has by a search of known records, endeavored to locate and indicate on the drawings, all utilities which exist within the limits of work. However, the accuracy or completeness of the utilities indicated on the drawings is not guaranteed. Service connections to adjacent property may or may not be shown on the drawings. It shall be the responsibility of the Contractor to determine the exact location of all utilities and their service connections. The Contractor shall contact all utility companies and request that they locate and mark any existing utilities and their appurtenances and that service connections which may be affected by the Contract work also be marked. In addition, the Contractor shall notify the Engineer as to any utility, appurtenances, and service connections located by Contractor which have been incorrectly shown or omitted from the drawings.

Unless otherwise specified the Contractor shall remove all interfering portions of utilities which

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are shown on the drawings as "abandoned" or "to be abandoned in place", and which interfere with the construction of the project. All costs involved in said removals shall be included in the prices bid for the various items of work. All such abandoned utilities removed by the Contractor, shall be included in the prices bid for the various items of work. All such abandoned utilities removed by the Contractor, shall be stored on the site where directed and shall remain the property of the utility company or Contracting Agency as determined by the Engineer.

Where utilities are shown on the drawings as "abandoned" or "to be abandoned in place", it shall be the Contractor's responsibility to contact the utility company involved, as required in Section 5.11 herein, prior to excavating around such utilities to ascertain that the abandonment of the utility has been completed.

In certain cases where indicated on the drawings, the Contractor shall locate utilities in advance of construction operations. In these cases the Contractor shall backfill the excavations and shall construct either a temporary or permanent resurfacing over the backfill. The temporary resurfacing shall be constructed when the exploratory excavations are made in an area located within the proposed project excavation.

The permanent resurfacing when specified shall be constructed when the exploratory excavations are made in an area located outside the proposed project excavation. Said permanent resurfacing shall be of the type and thickness specified or as field conditions may otherwise require. In either case, the excavations shall be backfilled by the methods and to the relative density specified.

This work shall be performed as soon as practical after award of the Contract and, in any event, a sufficient time in advance of construction to avoid possible delays to the Contractor's work. All costs for making such exploratory excavations (including the backfilling and the resurfacing as specified herein) shall be included in the prices bid for the various items of work.

Utilities which upon exploration, are found to interfere with the permanent project work will be relocated, altered, or reconstructed by others in accordance with the provisions of Section 5.05 herein, or the Engineer may approve and order changes in location, line or grade of structures being built in order to avoid the utilities. The cost of such changes will be paid for under applicable bid items or as "Extra Work" as provided under Section 4.08.

5.05 BY OTHER THAN THE CONTRACTOR

When it is stated in the detailed specifications or indicated on the drawings, that a utility is to be relocated, altered or reconstructed by other than the Contractor, the Contracting Agency will conduct all negotiations with the utility owners in respect to such work and the work shall be done at no cost to the Contractor.

Service connections which physically interfere with project structures or appurtenances, whether or not so stated or indicated, shall be relocated by other than the Contractor; except as otherwise specified or unless directed by the Engineer in accordance with Section 5.08.

5.06 BY THE CONTRACTOR UNDER A SPECIFIC CONTRACT ITEM

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When bidding schedule contains a separate item covering the relocation, alteration, or reconstruction of a utility by the Contractor, the price bid for said item shall cover all costs involved in such work.

The drawings and detailed specifications will give the construction details for the work, and unless the time at which the work must be done is specified in the detailed specifications, the Contractor shall coordinate with the Engineer in respect to when the work is to be done.

5.07 BY THE CONTRACTOR BUT NOT UNDER A SPECIFIC CONTRACT ITEM

When the work on a utility is specified or indicated on the drawings to be done by the Contractor, but is not included as a separate Contract item in the bidding schedule, the Contracting Agency will make all arrangements with the owner of the utility in respect to the construction details, however, the Contractor shall coordinate with the utility owner as to when the work is to be done. Any costs for such work shall be absorbed or included in the prices bid for the various Contract items.

5.08 BY THE CONTRACTOR - SERVICE CONNECTIONS (EXCEPT SANITARY SEWER)

For the purpose of these specifications, service connections shall be construed to mean all, or any portion of, the conduit cable or duct which connects a utility main distribution line to the meter box of an individual user.

Except when shown on the drawings to be relocated by others, and except as otherwise specified herein, the alteration or permanent relocation of service connections which physically interfere with project structures, or appurtenances thereto, which are to be constructed under this Contract shall, when directed by the Engineer, be arranged for by the Contractor in accordance with the requirements of the utility owner. The costs for such work will be paid for as "Extra Work" as per Section 4.08.

5.09 BY THE CONTRACTOR FOR THEIR OWN CONVENIENCE

The temporary or permanent relocation or alteration of utilities including service connections, desired by the Contractor for convenience, shall be the Contractor's own responsibility and the Contractor shall make all arrangements regarding such work. The costs of such work shall be absorbed or included in the prices bid for the various Contract items.

5.10 BY THE CONTRACTOR OR BY OTHERS - UNKNOWN UTILITIES DISCLOSED DURING CONTRACT WORK

In the event that a utility is disclosed subsequent to the award of the Contract, such utility not being indicated on the drawings, or in the event that an existing utility is found to be in a materially different location than shown on the drawings and thus requires additional or more costly work on the part of the Contractor for its maintenance, relocation, or support, the necessary alteration, relocation, proper support and protection shall be done and paid for as follows:

- a. When said utility is found to occupy the space to be occupied by a part of the permanent works to be constructed, or when utility is, in the opinion of the Engineer, in such close proximity to the new

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work as to require the relocation or alteration of said utility the Contracting Agency will arrange for such relocation or alteration, or require the Contractor to do so as "Extra Work" as per Section 4.08.

b. When any portion of a utility is in close proximity and more or less parallel to the structure of conduit and does not lie between the vertical planes or pay lines specified in subparagraph a., above, the Contractor shall advise the utility owner thereof, and in cooperation with the utility owner, provide and place the necessary support for proper protection to insure continuous and safe operation of the utility structure. All costs for such work shall be borne by the Contractor.

c. With the exception of service connections, when said utility lies within the excavation but does not intercept the permanent works to be constructed and the length of said utility between the vertical planes or pay lines specified in paragraph a., above, is less than five times the perpendicular distance between pay lines, the Contractor shall maintain the utility in place. The work of maintaining the utility in place shall be considered as "Extra Work" (see Section 4.08).

5.11 RESPONSIBILITY OF THE CONTRACTOR

The Contractor shall be held responsible for all costs for the repair of any and all damage to the Contract work or to any utility (whether previously known or disclosed during the work), as may be caused by Contractor operations. Utilities not shown on the drawings to be relocated or altered by others, shall be maintained in place by the Contractor. Utilities which are relocated by others in order to avoid interference with structures and which cross the project work shall be maintained in the relocation positions by the Contractor. All costs for such work shall be absorbed or included in the prices bid for the various Contract items.

The Contractor shall notify the owners of all utilities at least 2 working days in advance of excavating around any of their structures.

5.12 DELAYS CAUSED BY FAILURE TO RELOCATE UTILITIES

Where parties other than the Contractor are responsible for the relocation of utilities and a delay in the Contractor's work is caused by the failure on the part of said parties to remove or relocate such utilities in time to prevent such delay, or by any action or lack of action on the part of the Contracting Agency, it shall be understood that the Contractor shall not be entitled, as a result of such delay to work, to damages or additional payments over and above the Contract price. If delays in the Contractor's work are caused by the reasons mentioned herein, the Contractor shall be entitled to an extension of time. The length of such extension of time will be determined by the Engineer with consideration as to the effect of the delay on the project as a whole.

In order to minimize delays to the Contractor caused by the failure of other parties to relocate utilities which interfere with structures, the Contractor, after approval from the Engineer, may be permitted to temporarily omit the portion of work affected by the utility. The portion thus omitted shall be constructed by the Contractor immediately following the relocation of the utility involved.

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5.13 PERMANENT SURVEY MARKERS

The Contractor shall notify the Engineer not less than seven days prior to starting work in order that the Engineer may take necessary measures to insure the preservation of survey monuments, stakes, and bench marks. The Contractor shall not disturb permanent survey monuments, stakes or bench marks without the consent of the Engineer, and shall notify Engineer and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done or arranged for only by the Engineer.

When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, the Contractor shall, at their own expense, adjust the monument cover to the new grade unless otherwise specified.

5.14 LOT STAKES

Unless otherwise directed by the Engineer or shown on the plans, the Contractor shall preserve existing survey stakes that mark property lines and corners. Any stakes that become lost or disturbed by Contractor operation shall be replaced at the Contractor's expense and by a Registered Land Surveyor.

5.15 SURVEY SERVICE

The Engineer will furnish and set construction stakes establishing lines and grades as determined necessary by the Engineer for all work indicated on the plans or required under the Contract, including lines and grades for street excavation and fill, finished subgrade, finished base rock, curbs and gutters, walks, structures and utilities and will furnish the Contractor all the necessary information relative to the lines and grades.

Line and grade stakes will be offset from the construction area. They will show the offset distances, stationing and required cut or fill to the finished grade or flow line as indicated on the plans or grade sheet. Upon request a copy of the grade sheet will be furnished to the Contractor. Grade stakes will be set by the Engineer to the finished grade of the subgrade and also of the base rock, or as determined necessary by the Engineer, and the tops of these stakes marked blue or red.

The Contractor shall construct the work in accordance with the Engineer's stakes and marks, making use of them before they are disturbed, and shall be charged with full responsibility for conformity and agreement of the work with such stakes and marks.

The Contractor shall be responsible for the preservation of construction survey stakes and marks for the duration of their usefulness during construction. If any construction survey stakes are lost or disturbed, and in the opinion of the Engineer need to be replaced, such replacement shall be by the Engineer at the expense of the Contractor. The cost of replacing them shall be charged against, and all shall be deducted from, the payment of the work.

The Contractor shall give notice to the Engineer not less than two working days in advance of when survey services in connection with the laying out of any portion of the work will be required.

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5.16 PRIVATE ENGINEERS

Surveying by private engineers on permit projects or any other work under the control of the Contracting Agency shall conform in all respects to the quality and practice required of the Contracting Agency's surveyor as set forth in Section 5.15 above.

5.17 LINE AND GRADE

All work during its progress and upon its completion, shall conform to the lines, elevations, and grades shown on the plans. Distances and measurements, except elevations and structural dimensions, are given and made on horizontal planes.

Three consecutive points set on the same slope shall be used together in order that any variation from a straight grade can be detected. If any such variation is found, it shall be reported to the Inspector; and, in the absence of such report prior to completion of grade, the Contractor shall be responsible for any error in the grade of the finished work.

5.18 PRESERVATION OF PROPERTY

The Contractor shall protect all public and private property including irrigation berms, insofar as it may be endangered by operations, and shall take every reasonable precaution to avoid damage to such property.

Public or private improvements of facilities within the right of way not designated for removal but visibly evident or correctly shown on the plans which are damaged or injured directly or indirectly by or on account of any act, omission, or neglect of the Contractor in the execution of the work shall be restored by the Contractor at Contractor's expense to a condition substantially equivalent to that existing before such damage or injury occurred, by repairing, rebuilding, or otherwise affecting restoration thereof, or if this is not feasible, a suitable settlement shall be made with the owner of the damaged property.

The Contractor shall give reasonable notice to occupants of buildings on property adjacent to the work to permit the occupants to remove vehicles, trailers, and other possessions as well as salvage or relocate plants, trees, fences, sprinkler systems, or other improvements in the right-of-way which are designated for removal or which might be destroyed or damaged by the Contractor's operations.

The Contractor shall be responsible for the protection of all designated trees and planted areas within the right-of-way. The Contractor shall also exercise care and conduct operations so as to minimize damages to other planted areas.

5.19 DAMAGE TO RAILROADS

The provisions given elsewhere herein, which require the Contractor to protect property against damage, and which place upon the Contractor all responsibility for damage to property, injury to persons, and loss, expense, inconvenience and delay to the property owners and others, shall be understood to apply in connection with railway lines or railroads the same as in connection with other kinds of property. In the protection of railway lines and railroads, however, the Contractor will be required to

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exercise particular care to avoid any damage which might result in train wrecks or in delays in train service. In the performance of work in close proximity to railroad tracks, the Contractor shall consult with the railroad company or officials in regard to means and methods of conducting the work, and unless the Engineer orders otherwise, Contractor shall use in the performance of the work means and methods which are not unsatisfactory to said railroad company or officials and Contractor shall at their own expense provide such track walkers and flaggers as the said railroad company and officials may deem necessary for the adequate protection of the railroad property and train service.

The Contractor shall be solely and directly responsible to the owners and operators of such properties for any damage, injury, expense, loss, inconvenience or delay which may result from the carrying out of the work to be done under this Contract, and if the SPECIAL PROVISIONS so specify, shall give bond or insurance in the amount therein specified to each corporation, company, partnership, or individual owning or operating any of the properties affecting, in guarantee of this responsibility. Any extension of time granted the Contractor in which to complete the Contract shall not relieve Contractor or surety from this responsibility.

5.20 PROTECTION OF MATERIALS AND WORK

The Contractor shall provide and maintain substantial and adequate protection as necessary to protect new or existing work, and all items of equipment and furnishings, for the duration of the Contract, except that by the Contracting Agency action the Contractor may be relieved of certain responsibilities for maintenance and protection of completed portions of the work as provided under Section 5.23, hereof.

Unless relieved of responsibility as provided under Section 5.21, the Contractor and Contractor's sureties shall be fully liable for any loss or damage to the works referred to in the Contract, resulting from any cause whatsoever, including but not limited to fire, theft, vandalism, malicious mischief, or injury or damage by the elements, except for any loss or damage that may be occasioned by acts of God, acts of the public enemy, acts of governmental authorities, or any act, omission, or default of the Contracting Agency prior to completions of the project and final acceptance thereof by the Contracting Agency.

5.21 RELIEF FROM MAINTENANCE AND RESPONSIBILITY

Upon the request of the Contractor and with the approval of the Contracting Agency, or upon the Contracting Agency, the Contractor will be relieved of the duty of maintaining and protecting certain portions of the work which are ready to be placed in service and which have been completed in accordance with the plans and specifications, including cleanup.

In addition, such action by the Contracting Agency will relieve the Contractor of responsibility for injury or damage to said completed portions of the improvement resulting from use by public traffic or from the action of the elements or from any other cause, excepting injury or damage resulting from the Contractor's own operations or from Contractor's negligence. The Contractor will not be required to again clean up such portions of the improvement prior to field acceptance, excepting for such items of work that result from Contractor operations. However, nothing in this section shall be construed as relieving the Contractor from the full responsibility for making good defective work or materials found to be defective.

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5.22 STORAGE OF MATERIALS IN PUBLIC STREETS, ROADS, OR HIGHWAYS

Materials shall not be stored in streets, roads, or highways for longer than four working days after being unloaded, unless a longer storage period is permitted by the Engineer. In the event that the rate of progress of construction is such that the materials stored in streets, roads, or highways are not installed in its final position within the time period stipulated hereinabove, the Contractor shall when so directed by the Engineer remove such materials to storage areas to be provided by the Contractor at their own expense.

Unless otherwise permitted by the Engineer, no storage of excavated material will be permitted in public streets, roads, or highway. After the placing of the backfill in said trench, all remaining excavated material shall be removed from the site of the work.

5.23 HISTORICAL AND ARCHAEOLOGICAL REPORTS

Where historical objects of archaeological and paleontological nature, including ruins, sites, buildings, artifacts, fossils and other objects of antiquity are encountered within the areas on which the Contractor's operations are performed, the Contractor shall postpone operations in the area, shall preserve such objects for disturbance or damage and shall notify the Engineer of their existence and location.

Upon receipt of such notification, the Engineer will arrange for the disposition of the objects or for the recording of data relative thereto, and will notify the Contractor when it is proper to proceed with the work in the affected area. If the Contractor is directed by the Engineer to perform any work in salvaging said objects, the Contractor shall do so on the "Extra Work" basis set forth in Section 4.08.

5.24 LIGHT, POWER, AND WATER

The Contractor shall furnish temporary light, power, and water complete with connecting piping, wiring, lamps, and similar equipment necessary for the work as determined by the Engineer. The Contractor shall install, maintain, and remove the temporary lines upon completion of work. All expenses in connection with temporary services and facilities shall be paid by the Contractor, unless specified differently in the SPECIAL PROVISIONS.

SECTION 6.00 CONTROL OF MATERIALS

6.01 MATERIALS AND WORKMANSHIP

All materials, parts and equipment furnished by the Contractor shall be new, high grade, and free from defects and imperfections unless otherwise hereinafter specified. Workmanship shall be in accord with the best standard practice. Both materials and workmanship shall be subject to the approval of the Engineer.

All materials and workmanship not conforming to the requirements of these specifications shall be considered as defective and will be rejected. Defective material whether in place or not, shall be removed immediately from the site of the work by the Contractor at their expense when so directed by the

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Engineer. No rejected material, the defects of which have been subsequently corrected, shall be used until approval in writing has been given by the Engineer.

In the event any defect in material or workmanship is of a minor nature and the Engineer determines that it is not of such consequence as to result in a dangerous and undesirable condition, or that the removal of such work would create a dangerous or undesirable condition, the Contracting Agency shall have the right to retain such work and make such deductions in the payment therefor as they determine reasonable and in the public interest. Such determination by the Contracting Agency shall be final.

6.02 TEST OF MATERIALS

Except as may otherwise be provided, all testing that may be required by the Contracting Agency to determine the quality, fitness and suitability of such materials shall be performed under the direction and upon the order of the Engineer, and at no expense to the Contractor; samples being secured and tested wherever considered necessary by the Engineer. In those cases in which the Contractor is required to provide and bear the expense of such testing the specifications or drawings will definitely so state.

The Contractor at their own expense, shall deliver the materials for testing at the time and to the place designated by the Engineer.

6.03 TRADE NAMES AND EQUALS

Whenever in the specifications any particular materials, process, and/or equipment is indicated or specified by patent, proprietary, or brand name, or by name of manufacturer, such wording shall be deemed to be used for the purpose of facilitating description of the material, process, and/or equipment desired, and shall be deemed to be followed by the words "or approved equal". The lists of acceptable materials indicated in various sections of the specifications, or on drawings, for materials are not intended to be comprehensive lists, or in any order of preference. The Contractor may offer any material, process, and/or equipment which complies with the governing specification and which is considered to be equivalent to that indicated or specified.

The Contractor shall, before installation, submit data substantiating a request for substitution of "an equal" item. The Contractor shall, at their own expense, furnish information and/or data concerning the material and/or equipment offered as an equivalent to that specified or indicated by name, and if the Engineer shall so require, the Contractor, at their own expense, shall have the said material tested as to its quality, strength, physical, chemical, and/or other pertinent characteristics, including the durability, finish, efficiency, dimensions, service, suitability to perform the function intended to be served by the material and/or equipment.

The method of performing the test or tests shall be subject to the approval of the Engineer, and the results of said tests shall be reported promptly to the Engineer, who shall evaluate the results thereof and shall determine whether or not the substitute material and/or equipment so tested is deemed to be equivalent, and the Engineer's findings shall be final. Installation and use of the material shall not be made until such substitute material has been approved by the Engineer. If a substitute offered by the Contractor is not found by the Engineer to be equal to the material specified, or indicated, then the

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Contractor shall furnish and install the item specified or indicated by name.

The time specified for completion of the work under the Contract shall not be affected by any circumstances whatsoever developing from the provisions of this section.

SECTION 7.00 RESPONSIBILITY TO THE PUBLIC

7.01 PUBLIC CONVENIENCE

The Contractor shall so conduct operations as to offer the least possible obstruction and inconvenience to traffic, and shall have under construction no greater amount of work than can be prosecuted properly with due regard for the rights of the public.

The Contractor shall obtain prior approval from the Engineer for the closing or partial closing of any street, alley or other public thoroughfare. The Contractor shall also give advance notice of such closure to all agencies providing emergency services, including police, fire and ambulance services.

Unless otherwise provided by the plans or project specifications or authorized by the Engineer, vehicular access to properties at established driveways and pedestrian access to building entrances shall be provided and maintained by the Contractor, except for such periods of time as may be reasonably necessary to expeditiously complete those construction operations which preclude such access.

The Contractor shall conduct operations in a manner which will minimize interference with the normal use of property adjacent to the construction.

Occupants of property fronting on the street shall be given at least 24 hours advance notice that the entire street or half the street, as the case may be, will be closed to vehicular traffic whenever necessary for the normal prosecution of the work. Such notices shall be given by the Contractor unless otherwise directed by the Engineer, or otherwise specified in the SPECIAL PROVISIONS. Parking of cars may be prohibited on streets where construction work, such as grading or paving operations are in progress. When directed by the Engineer, traffic shall be controlled or routed through the construction area, such as maintaining controlled or one-way traffic over one-half of the street while construction is progressing on the other half.

In order that all unnecessary delay to the traveling public may be avoided where ordered by the Engineer, the Contractor shall provide and maintain temporary "No Parking" and/or detour signs, pilot cars and station competent flaggers whose sole duties shall consist of directing the movement of public traffic either through or around the work. Signs shall be of standard size and design as approved by the Engineer and shall comply with the requirements specified in Section 7.03 hereof. Such signs shall be removed as soon as practicable or when directed by the Engineer.

The cost of all work involved in providing for public convenience including detours, as set forth in this article shall be considered as included in the prices paid for the various Contract items of work and no additional allowance will be made.

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7.02 DETOURS

The Contractor shall construct and maintain temporary detours as shown on the plans or specified in the SPECIAL PROVISIONS, or as necessary to provide adequate passage of public traffic and for protection, or as determined necessary by the Contracting Agency. Routing and width of detours shall be approved by the Engineer.

Unless otherwise specified, when a detour is required the Contractor shall be governed by the following:

1. One day duration
 - (a) Passable - no gravel but graded
 - (b) Water and maintain smooth and dust free
2. One day to one week duration
 - (a) Gravel
 - (b) Water and maintain smooth and dust free
3. More than one week - if on a major or secondary arterial street (if on a collector street, treatment No. 2 above will suffice)
 - (a) Gravel 2 in. and graded
 - (b) Penetration with a minimum of 0.30 gal. per square yard MC70
 - (c) Maintain with patching of chuck holes
4. General Conditions
 - (a) If maintenance is not performed, the Contracting Agency will do the maintenance and bill the Contractor at rates specified in Section 4.08 and 4.09.
 - (b) When directed by the Engineer detours shall be removed and all ditches, etc. restored before the permit is closed out. If restoration is delayed more than one week after completion of work, the Contracting Agency will restore the area and bill the Contractor.
 - (c) Before pavement is cut, the Engineer must approve the construction and barricading.
 - (d) Provisions for public convenience and public safety shall be maintained in compliance with Section 7.01 through 7.03 hereof.

The Engineer will reserve the right to estimate the expected time the detour will be in use and will order construction accordingly.

7.03 PUBLIC SAFETY

The Contractor shall erect and maintain temporary fences, traffic control signs, bridges,

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railing, lights, and barriers, taking all other necessary precautions, and place proper guards for prevention of accidents. In the event any of the above items becomes misplaced, damaged, or destroyed, they shall be replaced immediately in their proper location.

All warning signs, barriers, barricades, lights and performance of flaggers shall conform to the "Oregon Manual on Uniform Traffic Control Devices for Streets and Highway" issued by the Oregon State Highway Department; local ordinances; and existing published rules and/or traffic control manuals and regulations of the Contracting Agency.

The Contractor shall at all times keep open or backfilled excavations in a safe or protected condition. In the event of the existence of unsafe or hazardous conditions in the Contractor's work or operations, the Contractor shall immediately take such measures as are necessary to eliminate the conditions.

The cost for all work involved in providing for public safety as set forth in this article shall be considered as included in the prices paid for the various Contract items of work and no additional allowance will be made.

7.04 FIRE HYDRANTS

Access shall be provided to all fire hydrants at all times. Pavements and sidewalks adjacent to fire hydrants shall be kept clean and clear of debris, materials and Contractor's equipment. The Contractor shall not draw any water from a fire hydrant for use on the work other than for extinguishing fire, without first obtaining permission from the utility company. Slow-closing valves will be required in connection with the use of fire hydrants. Unnecessary wasting or leakage of water shall not be permitted.

In the event a fire hydrant is damaged, or for any reason becomes inoperative, or is placed out of service due to the nature of the construction, it shall be the Contractor's responsibility to immediately notify the owner and the Engineer.

7.05 USE OF EXPLOSIVES

The use of explosives will be permitted only when authorized in writing by the Engineer unless otherwise stated in the SPECIAL PROVISIONS. Explosives shall be handled, used, and stored in accordance with the provisions and requirements of all applicable laws, ordinances, and regulations with respect thereto. The approval by the Engineer for the use of explosives shall not relieve the Contractor from responsibility.

7.06 SAFETY

Construction materials, equipment, methods and workmanship shall be in accordance with applicable local ordinances and State laws. The Contractor shall comply with the lawful orders and codes issued by the Workmen's Compensation Board of the State of Oregon.

7.07 LABOR

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The Contractor shall be bound by and comply with all applicable provisions of the Revised Statutes of the State of Oregon and shall keep informed of and observe and comply with, and cause all of the agents and employees to observe and comply with, all Federal, State, and local laws which in any way affect the conduct of the work in this Contract.

None but competent workmen shall be employed on any work under these specifications; and any laborer, workman, mechanic, foreman, superintendent, or other person so employed who is found to be incompetent, intemperate, troublesome, disorderly or otherwise objectionable, or who fails or refuses to perform their work properly and in an acceptable manner, shall be removed from the job immediately upon notification in writing, and not again be employed on the work unless approved by the Engineer.

7.08 NONDISCRIMINATION OF LABOR

The attention of the Contractor is directed to the provisions of Chapters 279 and 659, Oregon Revised Statutes relative to unlawful employment practices and discrimination by employers against any employee or applicant for employment because of race, religion, color, or national origin. Particular reference is made to Section 659.030 ORS, which states that it is unlawful employment practice for an employer, because of the race, religion, color, gender or national origin of any individual, to refuse to hire or employ or to bar or discharge from employment such individual or to discriminate against such individual in compensation or in terms, conditions, or privileges of employment.

In the event the Contract is funded in whole or in part by federal funds, the Contractor shall comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the Secretary of Labor.

In the event of the Contractor's noncompliance with the nondiscrimination clauses of a Contract so funded, or with any such rules, regulations, or orders the Contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts for federally assisted construction contracts, in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 14, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

7.09 MINIMUM WAGE, PAYMENT OF LABORERS AND MATERIAL WORKERS

The Contractor shall comply fully with ORS 279.348 through 279.365, which provide in part that "the hourly rate of wage to be paid by any Contractor or subcontractor to workers upon all public works shall be not less than the prevailing rate of wage for an hour's work in the same trade or occupation in the locality where such labor is performed".

The provisions of this law do not apply to workers or to persons regularly employed on a monthly or per diem salary. The "prevailing rate of wage", for the purposes hereof, shall be the rate of hourly wage and overtime paid in the locality, as hereinafter defined, to the majority of workers in the same trade or occupation; provided, however, that if there is not a majority in the same trade or occupation paid at the same rate, the average rate of hourly wage and overtime paid in the locality to workers in the same trade or occupation shall be the prevailing rate, and provided further, than when a Contractor or subcontractor

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is a party to a state-wide agreement in effect with any labor organization, the rate of wages as established in the agreement shall be considered to be the prevailing rate in the locality.

If the wage paid by any Contractor or subcontractor to workers is based on a period of time other than an hour, the hourly wage shall be mathematically determined by the number of hours worked in that period. The "locality", for the purposes hereof, shall be the largest city in the county or counties in which the work under the Contract is performed.

In case any dispute arises as to what is the prevailing rate of wage for the same trade or occupation in the locality and that dispute cannot be settled by the parties involved, the dispute shall be referred to the Commissioner of the State Bureau of Labor, who will determine the prevailing rate of wage for the same trade or occupation in the locality.

The minimum wage rates applicable to the work to be done under the Contract are those prescribed under the provisions of ORS 279.348 through 279.356 and laws amendatory thereto. The Contractor is reminded that a provision of these statutes requires the certification and filing of the payroll with the Contracting Agency at each of the following times: (1) once within fifteen (15) days of the date the Contractor first begins work; (2) once before final inspection of the project is made; and (3) for projects exceeding ninety (90) days, at ninety (90) day intervals.

Copies of prevailing wage rates may be obtained from the Bureau of Labor, 115 Labor and Industries Building, Salem, Oregon 97310 and are included in this document.

The Contractor shall: 1) Make payment promptly, as due, to all persons supplying to such Contractor labor or material for the prosecution of the work provided for in such Contract. 2) Pay all contributions or amounts due the Industrial Accident Fund from such Contractor or subcontractor incurred in the performance of the Contract. 3) Not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished. 4) Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

In case of conflict between any of the minimum hourly wage rates set forth in the schedule above referred to and other pertinent minimum hourly wage rates, as such other rates may have been set forth in the Contract provisions in accordance with the federal regulations, the higher of the conflicting wage rates shall be applicable under the Contract.

There is no representation on the part of the Contracting Agency that labor can be obtained at the hourly rates as may be shown in the SPECIAL PROVISIONS. It is the responsibility of Bidders to inform themselves as to local labor conditions and prospective changes or adjustments of wage rates. No increases in the Contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed.

If the Contractor fails, neglects, or refuses to make prompt payment of any claim for labor or services furnished to the Contractor or a subcontractor by any person, or the assignee of the person, in connection with the public works contract as such claim becomes due, the proper officer or officers of the public Contracting Agency may pay such claim and charge the amount of the payment against funds due

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or to become due the Contractor by reason of the Contract. (Reference: ORS 279.314).

7.10 HOURS OF WORK, SATURDAY, SUNDAY, HOLIDAY AND OVERTIME WORK

The Contractor shall comply fully with ORS 279.334 of the Oregon Revised Statutes, which reads as follows: "In all cases where labor is employed by the state, county, school district, municipality, municipal corporation, or subdivision, through a Contractor, no person shall be required or permitted to labor more than eight hours in any one day, or 40 hours in any one week, except in cases of necessity, emergency, or where the public policy absolutely required it, in which event, the person or persons so employed for excessive hours shall receive at least time and a half pay for all overtime in excess of eight hours a day, or for work performed on Saturday and on ...legal holidays."

However, if it is necessary for the Contractor to perform construction work on Saturdays, Sundays, legal holidays or outside the 8 hours regular working day, the Contractor shall first notify the Engineer of the Contractor's intent to do so prior to commencing such "overtime work". In any event, all work shall be subject to approval of the Engineer. Prior to start of such work, the Contractor shall arrange with the Engineer for the continuous or periodical inspection of the work, surveys, and tests of materials when necessary.

7.11 PERMITS AND LICENSES

Except for private Contracts or unless otherwise specified elsewhere in these specifications, the Contracting Agency will obtain all other permits and licenses and pay any fees connected therewith, having to do with construction operations.

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7.12 CLEARING AND BURNING PERMITS

The Contractor shall comply fully with ORS 477.685 which reads, in part, as follows:

"(1) Before clearing any right-of-way for any highway or railroad, or any power, commercial telegraph or telephone line, or for any transmission or transportation utility right-of-way on any forest land, whether upon their land or that of another, where the clearing would constitute a fire hazard, every person shall file with the forester a general description of the right-of-way to be cleared. The forester shall issue a written permit for such clearing. The permit shall set forth the precautionary conditions and manner under which the clearing shall be done."

"(2) A person engaged in clearing any right-of-way or forest land shall not place on adjoining land or property any forest material or debris resulting from such clearing without the permission of the owner of the adjoining land."

7.13 LICENSING OF CONTRACTORS

The Contractor shall be licensed in accordance with all state and local requirements.

7.14 PATENTS, FEES OR ROYALTIES

In the event that any patented article, material or process is to be installed or used in the performance of the work as shown on the plans or particular specifications therefore, the Contractor shall pay the royalty chargeable, if any, and shall save, keep and hold the Contracting Agency harmless from any damage, costs and expenses by reason of any infringement of the patent thereof, and any loss to the Contracting Agency if enjoined from using such patented article or material and the incidental damage caused by the loss of use and damage to the Contracting Agency's property in removing same, and the cost of replacing the article or material the use of which is enjoyed. Provided further the Performance-Payment Bond for faithful performance shall be deemed to be expressly applied to this provision of the specifications.

7.15 LIABILITY FOR MONIES DUE STATE COMMISSIONS

The Contractor shall promptly pay all contributions or amounts due the State Industrial Accident Fund and the State Unemployment Compensation Trust Fund from such Contractor or subcontractors, incurred in the performance of the Contract.

The Contractor shall pay all sums of money withheld from their employees and payable to the Department of Revenue pursuant to ORS 316.162 to 316.212.

7.16 LIABILITY FOR AMOUNTS DUE HOSPITAL ASSOCIATIONS, ETC

The Contractor shall comply fully with ORS 279.320 which reads in part as follows:

"...The Contractor shall promptly, as due, make payments to any person, co- partnership, association, or corporation, furnishing medical, surgical and hospital care or other needed care and

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attention, incident to sickness or injury, to the employees of such Contractor, of all sums which the Contractor agrees to pay for such services and all monies and sums which the Contractor collected or deducted from the wages of employees pursuant to any law, Contract or agreement for the purpose of providing or paying for such service."

7.17 CONTRACTOR'S CONSTRUCTION EQUIPMENT

The Contractor shall furnish and maintain in good condition all equipment and facilities including stairs, ramps, runways, scaffolds, hoists, etc., as required for the proper execution and inspection of the work. All such equipment and facilities shall meet all requirements of all ordinances and laws applicable thereto.

7.18 RIGHT-OF-WAY

The right-of-way for the improvement will be provided by the Contracting Agency. Unless the plans or specifications show additional work area to be provided by the Contracting Agency, the Contractor shall make their own arrangements and pay all expenses for additional area required outside the limits of the right-of-way.

7.19 BUREAU OF LABOR AND INDUSTRIES (BOLI) FEE

The Contractor is required to pay a fee to the BOLI pursuant to the provisions of ORS 279.352(2). The fee is one-tenth of one percent (0.1 percent) of the price of this Contract, but not less than \$100 or more than \$5000, regardless of the Contract price.

SECTION 8.00 PROSECUTION AND PROGRESS

8.01 PROGRESS OF THE WORK

The Contractor shall commence the work within 10 calendar days after receiving notice to proceed, unless otherwise stated in the SPECIAL PROVISIONS, and shall diligently prosecute the same to completion within the time limit specified.

8.02 CONTRACTOR'S CONSTRUCTION SCHEDULE

Before starting work, the Contractor shall submit for approval a proposed construction schedule to the Engineer. In the event the Contractor desires to carry on operations in more than one location simultaneously, the Contractor shall submit for approval a schedule therefore, two weeks in advance of beginning such operations. In the event that the Contractor's proposed construction schedule does not meet the necessary construction program schedule as determined by the Contracting Agency, the Contractor may be required to resubmit a schedule that shall conform to an approved program of construction operations. The Contractor must obtain from the Engineer written approval of a construction schedule prior to start of work.

8.03 SUSPENSION OF WORK

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The Engineer shall have the authority to suspend work wholly or in part for such periods as may be necessary because of unsuitable weather or unforeseen conditions or the failure of the Contractor to carryout lawful orders to comply with any of the provisions of the Contract. The Contractor shall immediately suspend work when so ordered, and he shall resume work after such suspension only on written instruction from the Engineer. Upon receipt of such instructions to resume work, the Contractor shall immediately proceed with the work.

If through the fault of the Contracting Agency, the Contractor must suspend operations and incurs expenses or sustains losses which could not have been avoided by the judicious handling of forces and equipment, and if by a diligent prosecution of the work the Contractor could not have completed the work before such suspension, the Contractor will be paid such amounts as may be agreed upon between the Contractor and the Contracting Agency to be a fair and reasonable compensation and a commensurate extension of Contract time will be granted.

If work is suspended through no fault of the Contracting Agency, all such expenses and losses incurred by the Contractor during such suspensions of work shall be borne in full by Contractor. In the event the Contractor fails to properly provide for public safety, traffic, and protection of the work, during periods of suspension of work, the Contracting Agency may elect to do so, and deduct the cost thereof from monies due the Contractor.

8.04 TIME OF COMPLETION

The Contractor shall complete the work called for under the Contract in all part and requirements within the number of calendar days set forth in the Contract. Unless otherwise provided, all work shall be performed during normal working days. A working day is defined as any day except Saturdays, Sundays, legal holidays, days on which the Contractor is specifically required by the Contract to suspend construction operations, and days on which the Contractor is prevented from working by inclement weather or interference from utility relocation or alteration work.

Credit for inclement weather or interference from utility relocation or alteration work will be allowed only when the Contractor is prevented by such weather or utility work or conditions resulting immediately therefrom, from proceeding for at least five hours with at least 75% of the normal labor and equipment force engaged in the current controlling operation or operations. The current controlling operation or operations is to be construed to include any feature of the work which, if delayed at the time being considered, could delay the completion of the work beyond the Contract period.

Should the Contractor prepare to begin work at the regular starting time in the morning of any day on which inclement weather or the conditions resulting from the weather, or the condition of the work, prevents the work from beginning at the usual starting time and the new crew is dismissed as a result thereof, the Contractor will not be charged for a working day whether or not conditions should change thereafter during said day and the major portion of the day could be considered suitable for such construction operations.

Determination of each nonworking day except Saturdays, Sundays, legal holidays, and days on which the Contractor is specifically required by the Contract to suspend construction operations shall be made and agreed upon during such a day by conference between the Engineer and the Contractor. In the

GENERAL PROVISIONS

event of failure to agree, the Contractor will be allowed 15 days in which to file a written protest setting forth in what respects the Contractor differs from the Engineer. Otherwise the decision of the Engineer shall be deemed to have been accepted by the Contractor as correct.

8.05 LIQUIDATED DAMAGES

It is agreed by the parties of the Contract that in case all of the work required under the terms of this Contract is not completed within the number of calendar days as specified therefor in the Contract or any lawful extension thereof as provided herein, damage will be sustained by the Contracting Agency as a result thereof, but to definitely determine and ascertain the actual amount of such damage, either before or after the occurrence thereof would be difficult and impractical. The sum stated in the SPECIAL PROVISIONS for liquidated damages for each and every calendar day that the completion of said work is delayed beyond the prescribed completion date, or lawful extension thereof, is hereby stipulated as being the nearest and most exact measure of such damage that can be fixed at this or any subsequent time; and when so assessed by the Contracting Agency, the Contractor shall become liable for and shall pay to the Contracting Agency as liquidated damages and not as a penalty said sum per day for each and every calendar day of such delay. When the amount of liquidated damages is not stated in the SPECIAL PROVISIONS it is agreed by the parties to the Contract that the amount of liquidated damages shall be One Hundred Fifty Dollars (\$150.00) per day for each and every day of such delay. The amount of such liquidated damages may be deducted by the Contracting Agency from any compensation due, or that may become due, the Contractor under this Contract, and the Contractor and Contractor's sureties shall be liable for any excess.

It is further agreed that if the work is not finished and completed in all parts and requirements within the number of calendar days as specified therefor in the Contract or any lawful extension thereof as provided herein, the Contracting Agency will have the right to extend the time for completion if to do so seems best to serve its interests; and in case said Contracting Agency decides to so extend the time limit for the completion of the work, it shall have further right to charge to the Contractor, heirs, assigns, or sureties, all or any part as it may deem proper, the actual costs of engineering, inspection, supervision, and other overhead expenses, that are directly chargeable to the Contract and accrue during the period of such extension, and deduct the amount thereof from the final payment for the work; provided, however, that the cost of the final survey and preparation of the final estimate will not be included in such charges.

In the event that the Contractor is directed to perform extra or additional work, the number of calendar days specified in the Contract shall be extended by an amount determined by application to the original number of calendar days of the ratio that the value of the extra or additional work bears to the original Contract value. Should the nature of the extra or additional work be such that the Contractor believes that a longer time extension should be granted than that computed by the above procedures, the Contractor may notify the Engineer in writing. The Contracting Agency may grant such additional time extension as it feels warranted.

Should any default, act or omission of the Contracting Agency, act of the State, act of public enemy or act of God, epidemic, quarantine restriction, strike, freight embargo, fire or flood cause any delay in the completion of the work the Contractor will not be assessed for liquidated damages nor engineering or other overhead charges for the period of such delay, provided that the Contractor shall, within ten (10) days subsequent to the beginning of any such delay, file a written report as to the cause thereof with the

GENERAL PROVISIONS

Engineer, who will ascertain the facts relative thereto and the extent of the delay, and whose finding in connection therewith shall be final and conclusive. The Contracting Agency shall not be liable to the Contractor for any damages on account of such delay.

8.06 RESPONSIBILITY OF CONTRACTOR AND OF CONTRACTOR'S REPRESENTATIVE ON THE WORKS

The Contractor shall give personal attention and supervision to the work until same is entirely completed. In the absence of the Contractor from the work, the Contractor shall have a representative in charge who shall be competent to superintend and direct the progress of the work and who shall be authorized to receive instructions and to act for the Contractor on all matters relating to the work. The name, address and telephone number of this representative shall be sent by letter to the Engineer immediately after the awarding of the Contract.

8.07 PROVISIONS RELATIVE TO DEFAULT BY CONTRACTOR

If, at any time, the Contractor shall neglect or refuse to prosecute the work with reasonable diligence, or should refuse or neglect to perform the work according to the drawings and specifications, as interpreted by the Engineer, the Contracting Agency will give the Contractor written notice to proceed. If the Contractor fails to comply with such notice within a period of seven (7) days, the Contractor shall be in default of the Contract. The Contracting Agency will have the right, without further notice to the Contractor, and without voiding the Contract, to take possession of all materials, to complete the work, and to charge cost of so doing against the Contractor. Should the unpaid balance of the Contract price exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. If such expenses shall exceed the balance due the Contractor, the Contractor and bondsmen agree to pay the excess to the Contracting Agency.

Notice, for the purposes of this section, may be served personally, or may be served by mail, addressed to the Contractor and the Contractor's surety at their respective places of business as indicated in the Contract Documents.

The determination by the Engineer of the question as to whether any of the terms of the Contract or specifications have been violated, or have not been performed satisfactorily, shall be conclusive upon the Contractor, the Contractor's surety, and any and all other parties who may have any interest in the Contract or any portion thereof.

The foregoing provisions of this section shall be in addition to all other rights and remedies available to the Contracting Agency under law.

8.08 TERMINATION OF CONTRACT

If Conditions encountered during the progress of the work make it impossible or impracticable to proceed with the work, the Contracting Agency may order the termination of the Contract. Upon such termination, the Contracting Agency will pay the Contractor fair and reasonable compensation as agreed upon between the Contractor and the Contracting Agency. In the event that no

GENERAL PROVISIONS

agreement is reached between the Contractor and the Contracting Agency as to fair and reasonable compensation, the Contracting Agency will be liable to the Contractor only for the reasonable value of the work performed and any other actual costs sustained by the Contractor.

8.09 ADVERTISING

No advertising matter shall be attached or painted on surfaces of buildings, fences or canopies, except the names of Contractor and subcontractors, with their addresses and the designation of their particular branch may be shown on signs of a removable type. Size and location of such signs shall be subject to approval of the Engineer.

8.10 ASSIGNMENT

No Contract or any portion thereof, may be assigned without consent of the Contracting Agency except that money due the Contractor may be assigned as specified below.

The Contractor may assign money due or to become due the Contractor under the Contract and such assignment will be recognized by the Contracting Agency, if given written notice thereof, to the extent permitted by law, but any assignment of money shall be subject to all proper set-offs and withholdings in favor of the Contracting Agency and to all deductions provided for in the Contract, and particularly all money withheld, whether assigned or not, shall be subject to being used by the Contracting Agency for completion of the work in the event the Contractor should be in default therein.

8.11 SUBCONTRACTS

Names of subcontractors for all or any portion of the work shall be submitted to the Engineer prior to commencement of any subcontracted work. Such submittals shall state the types of work to be subcontracted and the names of the proposed subcontractors. Subcontracting all or any portion of the work shall not be construed to relieve the Contractor of any of this responsibility under the Contract.

No subcontractors will be recognized as such, and all persons engaged in the work of construction will be considered as employees of the Contractor. The Contractor will be held responsible for their work, which shall be subject to the provisions of the Contract and specifications.

8.12 CERTIFICATE OF COMPLIANCE

The Contractor shall file with the Engineer, prior to the acceptance of the work, a certificate in form substantially as follows: "I, (We) hereby certify that all work has been performed and materials supplied in accordance with the plans, specifications and Contract Documents for the above work, and that:

1. Not less than the prevailing rates of wages as ascertained by the Contracting Agency has been paid to laborers, workers and mechanics employed on this work;
2. There have been no unauthorized substitutions of subcontractors; nor have any subcontracts been entered into without the names of the subcontractors having been submitted to the

GENERAL PROVISIONS

Engineer prior to the start of such subcontracted work;

3. No subcontract was assigned, transferred to, or performed by any subcontractor other than the original subcontractor, without prior notice having been submitted to the Engineer together with the names of all subcontractors.

4. All claims for material and labor and other service performed in connection with these specifications have been paid.

5. All monies due the State Industrial Accident Fund, the State Unemployment Compensation Trust Fund (ORS 279.510), the State Department of Revenue (ORS 316.162 to .212), State BOLI (ORS 279.352), hospital associations and/or others, (ORS 279.320), have been paid.

6. Compliance with Oregon tax laws in accordance with ORS 305.385 have been satisfied.

SECTION 9.00 MEASUREMENT AND PAYMENT

9.01 METHODS OF MEASUREMENT

Materials and items of work which are to be paid for on the basis of measurement shall be measured in accordance with the methods stipulated in the particular sections herein covering materials or types of work.

When material is to be paid for on a volume basis and it would be impracticable to determine a volume by the specified method of measurement, or when requested by the Contractor and approved by the Engineer, the material will be weighed in accordance with the requirements specified for weight measurement and such weights will be converted to volume measurement for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the Engineer and shall be agreed to by the Contractor before such method of measurement of pay quantities will be adopted.

Unless otherwise provided, when mineral aggregate or roadway material is being paid for by weight, deductions from pay quantities will be made for the weight of water in excess of 3% if the material is to be treated with bitumen, and 6% if the material is to be water bound.

9.02 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORKS

Unless otherwise specified, linear or area quantities of work such as grading, landscaping, paving, curb, gutter, walk and other work of a similar nature shall be determined from measurements of dimensions of such work and computed in horizontal planes. However, linear quantities of underground cable, piling and timber, shall be considered as being the true length measured along the longitudinal axis thereof. For pipe work see related sections.

Volumetric quantities shall be determined by the average end area method.

GENERAL PROVISIONS

9.03 UNITS OF MEASUREMENT

Measurements shall be in accordance with U.S. Standard Measures. A pound shall be avoirdupois. A ton shall be 2,000 pounds. The unit of liquid measure shall be the U.S. gallon.

9.04 CERTIFIED WEIGHTS

When payment is specified to be made on the basis of weight, the weighing shall be done on certified platform scales licensed in accordance with Chapter 618 Oregon Revised Statutes. The Contractor shall furnish the Engineer with licenses issued with the information required by Chapter 618 Oregon Revised Statutes. The Contractor shall pay all costs, if any, in connection with obtaining said information. The Contracting Agency will accept the certificates as evidence of the weight delivered.

9.05 PAYMENT

Once each month, the Engineer will make an approximate measurement of the work performed to that date and an estimate of the value thereof based on the Contract prices. When the work has been satisfactorily completed, the Engineer will determine the final quantity of work performed and prepare the final estimate of the value thereof. The quantities listed in the bid schedule do not govern final payment. Payments to the Contractor shall be made only for the actual quantities of Contract items performed in accordance with the plans and specifications and if upon completion of the construction these actual quantities show either an increase or decrease from the quantities given in the bid schedule, the Contract unit prices will still prevail.

In unit price Contracts, when an item for mobilization is included in the bid, this item shall include the cost of assembling of materials, plant, and equipment as set forth in said bid items, and as more fully described in the specifications. An evaluation for the purpose of payment for mobilization will be included in progress estimates in unit price Contracts only when mobilizations is so set forth as an item in the bid. In such cases, the specifications will indicate a fixed sum or a percentage of the total bid price as a maximum that may be bid on this item.

In accordance with ORS Chapter 279, from each progress and final estimate, except on Contracts for County roads and bridges, or unless otherwise required by the SPECIAL PROVISIONS, applicable Federal or State laws or local ordinances, 5% will be deducted and retained by the Contracting Agency, and the remainder less the amount of all previous payments will be paid to the Contractor.

At the expiration of 30 days from the date of acceptance of the work by the Contracting Agency, provided that the Contractor has furnished the Contracting Agency satisfactory receipts for all labor and material bills and waivers or liens from any and all persons holding claims against the wage rates as required by Section 279.354, Oregon Revised Statutes, the amount deducted from the final estimate and retained by the Contracting Agency will be paid to the Contractor, with the exception of such amounts as are required by law to be further retained.

Payments for work or materials performed or furnished under an assessment proceedings Contract will be made as provided in the particular proceedings or legislative act under which such Contract was awarded.

GENERAL PROVISIONS

SECTION 10.00 REQUIREMENTS OF OREGON LAW FOR PUBLIC CONTRACTS

To any extent that they are not already incorporated into the Contract Documents the terms and conditions of ORS 279.310 to ORS 279.650 are an integral part of this Contract and Contract Documents, and incorporated herein at this point by reference.

SPECIAL PROVISIONS

**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999

SPECIAL PROVISIONS

1. **LENGTH OF CONTRACT**

There are 120 calendar days in the contract.

2. **PRE-CONSTRUCTION MEETING**

A pre-construction meeting will be scheduled by the Engineer after the Contract has been awarded, and before issuance of the Notice to Proceed. At that time the Contractor shall provide a detailed construction schedule.

3. **SPECIAL COORDINATION REQUIREMENTS**

Continuous operation of the Owner's facilities is of critical importance. The Contractor shall perform the work with minimal interference to, and interruption of, the Owner's ongoing operation of the existing facilities. Where interruption of operations is required, the Contractor shall first notify the Engineer ten (10) working days before said interruption is needed, for the purpose of scheduling a meeting between the Contractor and the City's operating staff to coordinate the work with ongoing operations and schedule a specific date and time for the interruption. The Contractor shall reconfirm the plan and schedule with the Engineer at least two working days before the scheduled interruption. Any significant Contractor operation impacting facility operation shall be scheduled prior to Thursday of any particular week.

The Contractor shall schedule and perform any interruption of pumping operations at the Wastewater Treatment Plant Influent Pump Station during dry weather, low wastewater flow, periods with the approval of the Engineer. Such interruptions shall be of a maximum duration that precludes wastewater overflows from the pump station, and in no case shall exceed fifteen minutes in duration. The Contractor shall be liable for any regulatory agency fines associated with wastewater spills occurring as a result of the Contractor's operations.

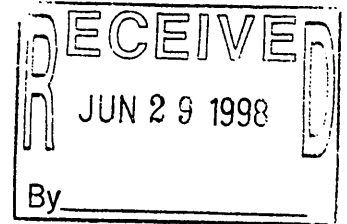
4. **PREVAILING RATE OF WAGE AND CERTIFICATIONS OF RATE OF WAGE**

As prescribed in ORS 279.352 AND 279.354 Bidder as Contractor and Bidder's subcontractors will pay to their workers not less than the specified minimum prevailing wage as set forth in the attached copy of "Prevailing Wage Rates for Public Works Contracts in Oregon" which is attached hereto and incorporated herein at this point by reference.

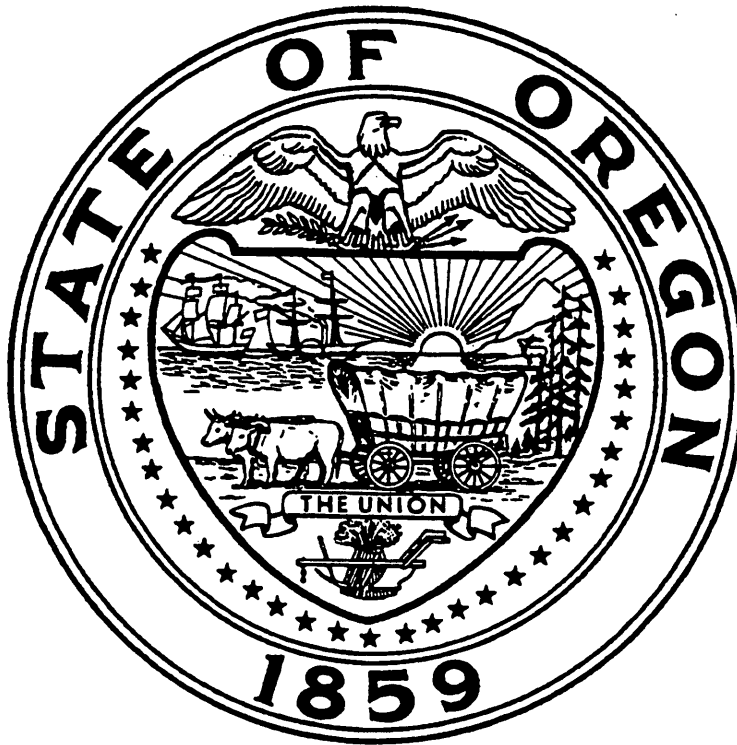
The existing prevailing rate of wage is that rate which is in effect at the time the specifications are first advertised for bid solicitation. If during the bidding process the prevailing wage rate changes, the Owner retains the option to amend these Special Provisions to reflect such change.

PREVAILING WAGE RATES

for



Public Works Contracts in Oregon



OREGON BUREAU OF LABOR AND INDUSTRIES

Jack Roberts
Commissioner
Bureau of Labor and Industries

Effective July 1, 1998



BUREAU OF LABOR AND INDUSTRIES

July 1, 1998

Under Oregon law, the Commissioner of the Bureau of Labor and Industries publishes the state's prevailing wage rates twice annually, in January and July, with quarterly updates in April and October. The rates are determined using a statewide construction industry wage survey of occupations and crafts performing commercial, heavy and highway construction in 14 specific geographic regions of the state. The survey used to determine the 1998 rates reviewed 1.2 million hours of work in 112 craft occupations during a single construction week in 1997. The 1998 survey will be conducted in late August, 1998 by the Oregon Employment Department under the direction of the Bureau of Labor and Industries and used to determine the 1999 rates.

Prevailing wage rates are the minimum wages that must be paid to all workers employed in the construction, reconstruction, major renovation or painting of all public works, unless specifically exempted by state law. Copies of these rates must be incorporated into all bid specifications when the advertisement for such public works contracts is issued. A provision that prevailing wage rates must be paid must also appear 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.

Legislative changes in the state's prevailing wage rate law are highlighted on page 7 of this publication.

If you identify any errors in the rates published, please bring them to the attention of the Prevailing Wage Rate Coordinator in Portland (503-731-4074). If you have any questions about the manner in which the prevailing wage rates are enforced, contact the Wage and Hour Division in Portland (503-731-4074), or any of the bureau's field offices.


JACK ROBERTS

Commissioner
Bureau of Labor & Industries

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July 1, 1998

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The Appendix section is to be used only for regions/trades specified in pages 11 through 52. Refer to pages 11 through 52 before using rates in this section.

A list of debarred contractors and all forms necessary to comply with ORS 279.348 through ORS 279.375 may be found in the back of this booklet.

Contractors are encouraged to use and keep on file the forms provided as master copies for use on future prevailing wage rate projects.

THIS INFORMATION IS AVAILABLE IN AN ALTERNATE FORMAT

Pursuant to ORS 279.348 to ORS 279.380, the prevailing wage rates contained in this booklet 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
Wage and Hour Division
800 NE Oregon St. # 32
Portland, OR 97232
(503)731-4074

The first copy is free. Additional copies are available for \$2.00 each. All of the information in this booklet can be accessed and printed from the Internet at: www.boli.st.or.us

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 not 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	(541) 388-6330
Eugene	(541) 686-7623
Medford	(541) 776-6270
Portland	(503) 731-4074
Salem	(503) 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 (503) 731-4072. The apprentice or trainee must receive 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 to be paid shall be determined by the appropriate apprenticeship or training committee.

In addition, apprentices and trainees must receive not less than the fringe benefits paid to the majority of such apprentices and trainees in the same trade or occupation as determined by the commissioner. If there is no majority in the same trade or occupation as determined by the commissioner, apprentices and trainees must be paid the full amount of the fringe benefits.

Zone Pay

In certain trades listed in the Appendix of this publication, 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

GENERAL INFORMATION (CONTINUED)

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, must be included in the basic hourly wage upon which overtime is computed. Zone pay is required only as indicated for those occupations and regions listed in the Appendix of this publication.

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). All contracts and all contract specifications for a public work are required to include a provision stating that the fee shall be paid to the Bureau of Labor.

NOTE: If a public agency fails to include a provision that a contractor and any subcontractor shall comply with ORS 279.350 in the advertisement for bids, the request for bids, the contract specifications, the accepted bid or elsewhere in the contract documents, the liability of the public agency for unpaid wages shall be joint and several with any contractor or subcontractor that had notice of the requirement to comply.

Fringe Benefits

Payments for fringe benefits are in addition to the basic hourly rate. The term "fringe benefits" refers to 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) 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.

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.).

Every contractor or subcontractor that provides for or contributes to a health and welfare plan or a pension plan, must post notice describing such plans in a conspicuous and accessible place on the project. [ORS 279.350(5)]. Fringe benefits may be paid to the worker in cash as wages on regularly scheduled paydays, or to a third party administering a fringe benefit program, so long as contributions are made on a regular basis and not less often than quarterly. 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

Senate Bill 234 was signed into law by the governor and became effective on June 9, 1997. It applies to contracts entered into on or after June 9, 1997. This legislation revised the provisions of ORS 279.334 regarding payment of overtime for work performed on a public works project. The new law requires the payment of overtime for work performed in excess of 8 hours in a day or 40 hours in any one week when the work schedule is five consecutive days, Monday through Friday, or after 10 hours in a day or 40 hours per week if the employer adopts a work schedule of four consecutive days, Monday through Thursday or Tuesday through Friday. Note that there is no provision for "make-up" days in the new regulations. Employers who schedule workers for a fifth consecutive day to make up a missed work day during the four-day work schedule must pay workers daily overtime after 8 hours of work per day for that week.

SB 234 also requires employers to give written notice to employees who perform work on public works contracts either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that employees may be required to work.

GENERAL INFORMATION (CONTINUED)

Overtime is calculated at not 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.

Contractors who violate the requirements of the law are liable to the employees affected in the amount of their unpaid overtime wages and in an additional amount equal to the unpaid overtime wages as liquidated damages. Additionally, if the violation resulted from willful falsification of payroll records, the contractor shall be liable to the employees affected in the amount of their overtime wages and in an additional amount equal to twice the unpaid overtime wages as liquidated damages.

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. Form WH-38 and instructions for completing it are included in this booklet. 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. When work on a project starts and finishes in 15 days or less, the contractor or subcontractor which performed the work shall submit a payroll and certified statement form which accurately and completely sets out the payroll for all the work performed on the project. Payroll information is to be filed with the public contracting agency. The payroll information must be kept by the contractor and or subcontractor for three years.

Required Forms

All forms required by the Prevailing Wage Rate law are printed in their entirety in the back of this booklet.

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 \$25,000 or more must receive at least the prevailing wage rate (PWR) for time worked on the project, unless otherwise exempt.

Office/clerical employees and supervisory employees who are supervisory only and do not perform any hands-on labor 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. This does not include owner-operators of any other type of equipment such as bulldozers, scrapers, backhoes, cranes, drilling rigs, or welding machines.

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 federal Davis-Bacon Act, not Oregon PWR statutes. (Further information may be obtained from the U.S. Department of Labor, Wage and Hour Division, Portland, Oregon (503) 326-3057.) In the event that federal funds are involved, but the contract is not regulated under the Davis-Bacon Act, Oregon's prevailing wage rate statutes may apply (ORS 279.348 - 279.380). Oregon statutes pertaining to overtime requirements apply on both state and federally regulated contracts. (ORS 279.334).

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 (503) 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 non-residential construction industry are represented by the job classifications used in this PWR publication. These classification titles should be used according to common practice. If you need residential construction rates, or if you have questions about how to classify workers, contact the Prevailing Wage Rate Coordinator at (503) 731-4074.

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 changes.

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 (see list of offices on page 1), or contact the Wage and Hour Division, Bureau of Labor and Industries, 800 NE Oregon St. # 32, Portland, Oregon 97232 (503) 731-4074). 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). Also, the law now provides for a civil penalty of up to \$5,000 for any violations of the prevailing wage rate laws, including ORS 279.348 to 279.380 and the prevailing wage rate administrative rules pursuant to those statutes. Contracting agencies 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 subcontractor have a right of action against the surety of the prime contractor for any unpaid prevailing wages.

A list is maintained 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, ORS 279.073 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 (503) 731-4072. The apprentice must receive 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 to be paid shall be determined by the appropriate apprenticeship or training committee.

In addition, apprentices and trainees must receive not less than the fringe benefits paid to the majority of such apprentices and trainees in the same trade or occupation as determined by the commissioner. If there is no majority in the same trade or occupation as determined by the commissioner, apprentices and trainees must be paid the full amount of the fringe benefits.

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

Contractors and subcontractors are required to keep records necessary to determine 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 records are required to be kept for a period of three (3) years from the completion of the public work contract. Other legal considerations may require retention of records for a period greater than 3 years. Records relating to public works contracts must be maintained separately from records relating to private projects/contracts.

Contractors must also keep records necessary to show that any required prevailing wage fees have been paid. These records include receipts, contract documents showing the contract price, and change orders. These records need to be maintained for two years.

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 839-016-0008(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 279.380). Civil Penalties may be assessed for failure to file this Notice.

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 wages, charging the payment against funds due or to become due to the contractor.

LEGISLATIVE CHANGES

The following is a synopsis of recent legislative changes affecting most public agencies which award contracts for public works projects and the contractors working on those projects:

1995 Legislation

The threshold for Prevailing Wage Rate (PWR) projects increased to \$25,000

Contractors receiving public works contracts are required to pay a fee equal to one-tenth of one percent of the total contract price of the project

Contracts and contract specifications must contain a provision stating that the fee shall be paid to the bureau

Contractors are no longer required to submit copies of their certified payroll statements to the Bureau of Labor and Industries. (They are, however, still required to provide these reports to the contracting agency.)

Public contracting agencies may not divide projects to avoid compliance with the PWR law

Civil penalties of up to \$5,000 may be assessed for any violation of the PWR law or administrative rules

1997 Legislation

The estimated project cost threshold requiring public agencies to prepare plans, specifications and cost accountings for projects demonstrating that the public improvement is being constructed at the least cost to the public agency and requiring advertisement for bids in at least one trade newspaper of general statewide circulation increased from \$50,000 to \$125,000

The liability of public agencies for unpaid prevailing wages was amended to be joint and several with any contractor or subcontractor that had notice to comply with the PWR law when the agency fails to include in the advertisement for bids, request for bids, contract specifications, accepted bid, or elsewhere in the contract documents a statement requiring payment of at least the prevailing rate of wage

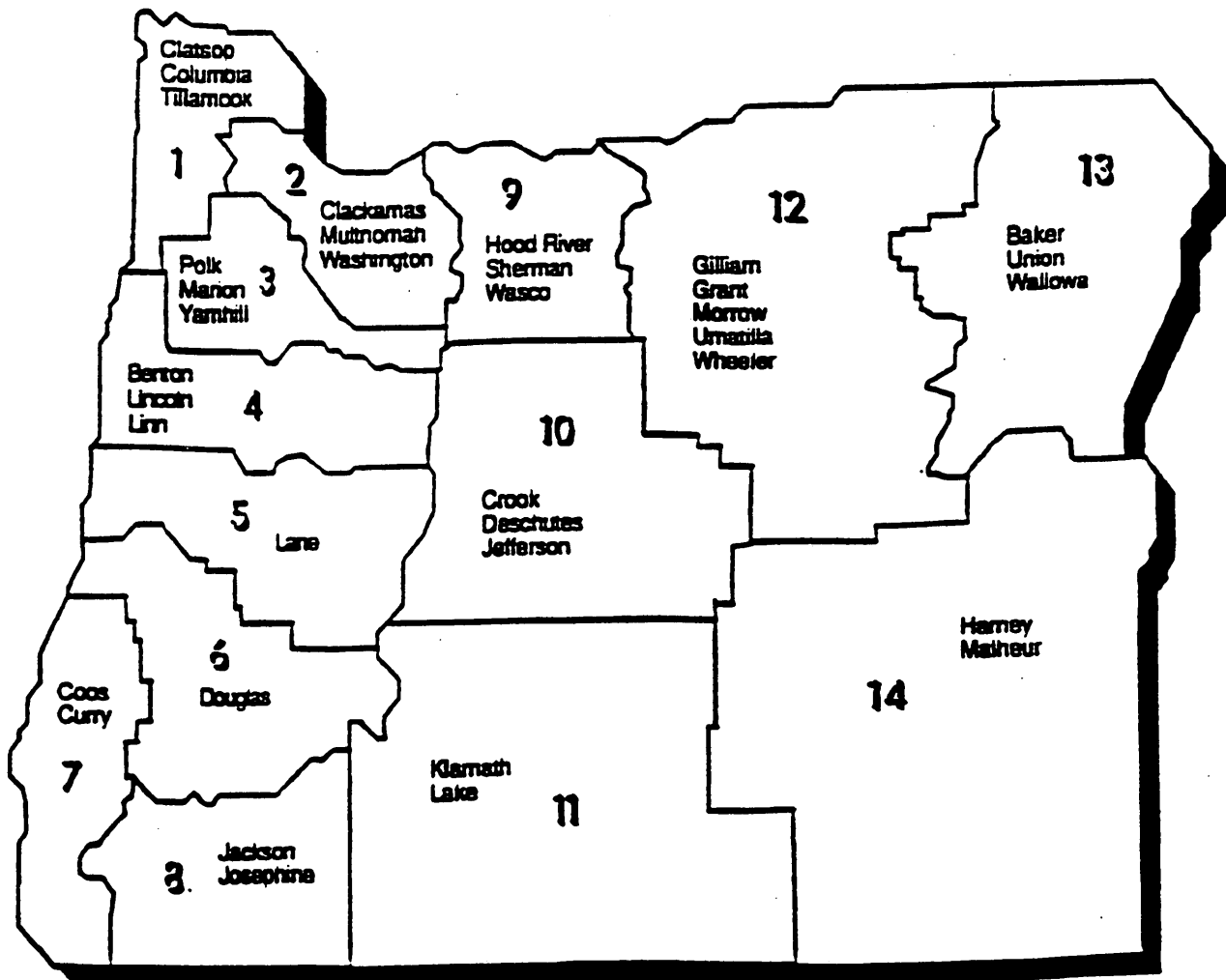
The provisions relating to overtime pay were revised to allow contractors who have adopted work schedules of four consecutive days (Monday through Thursday or Tuesday through Friday) to pay daily overtime after 10 hours/day are worked. (Contractors who have not adopted four-day work schedules must continue to pay overtime after eight hours in a day are worked. The requirement to pay overtime for work performed on Saturdays, Sundays, and other legal holidays was retained.

Written notice is required to be given by employers to employees who work on public contracts of the number of hours per day and days per week that employees may be required to work

Contractors who willfully falsify payroll records to avoid the payment of overtime required by law are liable to the employees affected in the amount of their unpaid overtime wages and an additional amount equal to twice the unpaid overtime wages as liquidated damages

PREVAILING WAGE RATE

REGIONS



TYPES OF CONSTRUCTION

In the Occupations by Region section, beginning on Page 11, there are three occupations/trades where the rates are separated by types of construction. When determining which rate is applicable, it is necessary to determine whether the project is "non-residential building," "heavy," or "highway" construction. If more than one of the categories make up 20% or more of the total project cost, separate wage rates must be used for each of the different types of construction. Conversely, if any of the construction categories makes up over 80% of the total cost of the project, that category will define the appropriate wage rate to be applied to the entire project.

NON-RESIDENTIAL BUILDING CONSTRUCTION

Alterations and additions to non-residential bldgs.

Apartment buildings (5 stories or over)

Arenas (enclosed)

Auditoriums

Automobile parking garages

Banks and financial buildings

Barracks

Churches

City halls

Civic centers

Commercial Buildings

Courthouses

Detention facilities

Dormitories

Farm buildings

Fire stations

Hospitals

Hotels

Industrial buildings

Institutional buildings

Mausoleums

Motels

Nursing & convalescent facilities

Office buildings

Out-patient clinics

Passenger & freight terminal

Post office

Power Plants

Prefabricated buildings

Remodeling buildings

Renovating buildings

Repairing buildings

Restaurants

Schools

Service stations

Shopping centers

Stores

Subway stations

Theaters

Warehouses

Water & Sewage treatment plant
(buildings only)

HEAVY CONSTRUCTION

Antenna towers

Bridges (major bridges designed for commercial navigation)

Breakwaters

Caissons (other than building or highway)

Canals

Channels

Channel cut-offs

Chemical complexes or facilities (other than bldgs.)

Cofferdams'

Coke ovens

Oil refineries

Pipe lines

Ponds

Pumping stations (prefabricated drop-in units)

Railroad construction

Reservoirs

Revetments

Sewage collection and disposal lines

Sewers (sanitary, storm, etc.)

Shoreline maintenance

HEAVY CONSTRUCTION (continued)

Dams
Dikes
Docks
Drainage projects
Dredging projects
Electrification projects (outdoor)
Flood control projects
Industrial incinerators
Irrigation projects
Jetties
Kilns
Land drainage (not incidental to other construction)
Land reclamation
Levees
Locks, waterways

HIGHWAY CONSTRUCTION

Alleys
Airport runways
Bituminous treatments
Bridle paths
Concrete pavement
Curbs
Excavation & embankment (for road construction)
Fencing (highway)
Grade crossing elimination (overpass or underpass)
Guardrails on highway
Highway signs
Highway bridges (overpasses, underpasses, grade separation)
Medians

Storage tanks
Swimming pools (outdoor)
Subways
Tipples
Tunnels
Unsheltered piers and wharves
Viaducts (other than highway)
Water mains
Waterway construction
Water supply lines (not incidental to building)
Water and sewage treatment plants (other than buildings)
Wells

Parking lots
Parkways
Resurfacing streets and highways
Roadbeds
Roadways
Shoulders
Sidewalks
Stabilizing courses
Storm sewer (incidental to road construction)
Street paving
Surface courses
Taxiways
Trails

PREVAILING WAGE RATES

OCCUPATIONS BY REGIONS

REGION #1
Clatsop, Columbia and Tillamook Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	See Appendix	See Appendix
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators (Power Equipment Operators)	See Appendix	See Appendix
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators (Power Equipment Operators)	See Appendix	See Appendix
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$18.90	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$18.90	\$5.76
Cement Masons	See Appendix	See Appendix
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending (Power Equipment Operators)	See Appendix	See Appendix
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Asst. Engineer, Asst Mate, Fireman, Oilers, Operators, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$18.90	\$5.76
Drywall Taper (Painters & Drywall Tapers)	See Appendix	See Appendix
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95

REGION #1

Clatsop, Columbia and Tillamook Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Fence Erectors, Metal	\$13.45	\$2.79
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	See Appendix	See Appendix
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	See Appendix	See Appendix
Highway and Parking Strippers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators (Power Equipment Operators)	See Appendix	See Appendix
Laborers and Material Movers (Hand); Flaggers; Landscapers Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix
Lather (Drywall/Wetwall)	See Appendix	See Appendix
Limited Energy Electrician	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders (Carpenters)	See Appendix	See Appendix
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters (Power Equipment Operators)	See Appendix	See Appendix
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65

REGION #1
Clatsop, Columbia and Tillamook Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons, (Swinging Scaffold, Nozzlemen and All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$14.89	\$2.23
Heavy	\$15.29	\$3.31
Highway	See Appendix	See Appendix
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #2

Clackamas, Multnomah and Washington Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	See Appendix	See Appendix
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$20.02	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators (Power Equipment Operators)	See Appendix	See Appendix
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenter)	See Appendix	See Appendix
Carpenters	See Appendix	See Appendix
Ceiling Tile Installer and Acoustical Carpenter (Drywall/Wetwall)	See Appendix	See Appendix
Cement Masons	See Appendix	See Appendix
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending (Power Equipment Operators)	See Appendix	See Appendix
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Diver's Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$17.60	\$2.93
Drywall Installer (Drywall/Wetwall)	See Appendix	See Appendix
Drywall Taper (Painters & Drywall Tapers)	See Appendix	See Appendix
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$16.84	\$2.83
Heavy	\$19.70	\$4.95
Highway	\$22.02	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #2

Clackamas, Multnomah and Washington Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman	\$19.54	\$5.96
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$18.51	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	See Appendix	See Appendix
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	See Appendix	See Appendix
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$19.18	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix
Lather (Drywall/Wetwall)	See Appendix	See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders (Carpenters)	See Appendix	See Appendix
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters (Power Equipment Operators)	See Appendix	See Appendix
Painter	See Appendix	See Appendix
Pipelayers Sewer Water (Power Equipment Operators)	\$18.05	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, Nozzlemen, All Other Work	See Appendix	See Appendix

REGION #2

Clackamas, Multnomah and Washington Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	See Appendix	See Appendix
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$15.70	\$2.23
Heavy	\$16.25	\$3.31
Highway	See Appendix	See Appendix
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #3

Polk, Marion and Yamhill Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.54	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters	See Appendix	See Appendix
Ceiling Tile Installer and Acoustical Carpenter (Drywall/Wetwall)	See Appendix	See Appendix
Cement Masons	See Appendix	See Appendix
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling) (Power Equipment Operators)	\$14.23	\$2.93
Drywall Installer (Drywall/Wetwall)	See Appendix	See Appendix
Drywall Taper (Painters & Drywall Tapers)	See Appendix	See Appendix
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79
Floating Equipment Operator: Crane, Derrick, Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix

REGION #3

Polk, Marion and Yamhill Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	See Appendix	See Appendix
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$19.13	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Lather (Drywall/Wetwall)	See Appendix	See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$15.60	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Nozzlemen, Swinging Scaffold, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix

REGION #3
Polk, Marion and Yamhill Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	See Appendix	See Appendix
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$14.89	\$2.23
Heavy	\$15.29	\$3.31
Highway	\$16.64	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operator)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #4

Benton, Lincoln and Linn Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	See Appendix	See Appendix
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.13	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$20.32	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$20.32	\$5.76
Cement Masons	See Appendix	See Appendix
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$20.32	\$5.76
Drywall Taper (Painters & Drywall Tapers)	See Appendix	See Appendix
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #4

Benton, Lincoln and Linn Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	See Appendix	See Appendix
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	See Appendix	See Appendix
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$18.85	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Lather (Drywall/Wetwall)	See Appendix	See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$18.17	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix

REGION #4

Benton, Lincoln and Linn Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers (Power Equipment Operators)	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$14.89	\$2.23
Heavy	\$15.29	\$3.31
Highway	\$16.64	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operator)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operator)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #5

Lane County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators (Power Equipment Operators)	See Appendix	See Appendix
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$20.48	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$19.32	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$19.32	\$5.76
Cement Masons	See Appendix	See Appendix
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$19.32	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #5

Lane County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	See Appendix	See Appendix
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers Building Heavy Highway	\$13.67 See Appendix See Appendix	\$4.93 See Appendix See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Cleaning	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$15.98	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.47	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	See Appendix	See Appendix
Plasterers and Stucco Masons, (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix

REGION #5

Lane County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$14.89	\$2.23
Heavy	\$15.29	\$3.31
Highway	\$16.64	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #6
Douglas County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators (Power Equipment Operators)	See Appendix	See Appendix
Auxiliary Equipment Operators, Power) (Tunnel (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators (Power Equipment Operators)	See Appendix	See Appendix
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$17.06	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$17.06	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$17.06	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix

REGION #6
Douglas County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Fence Erectors, Metal	\$13.45	\$2.79
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators (Power Equipment Operators)	See Appendix	See Appendix
Laborers and Material Movers (Hand); Flaggers; Landscapers Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	See Appendix	See Appendix
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix

REGION #6
Douglas County

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	See Appendix	See Appendix
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #7

Coos and Curry Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators (Power Equipment Operators)	See Appendix	See Appendix
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators (Power Equipment Operators)	See Appendix	See Appendix
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$16.57	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$16.57	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$16.57	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix

REGION #7

Coos and Curry Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Fence Erectors, Metal	\$13.45	\$2.79
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators (Power Equipment Operators)	See Appendix	See Appendix
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	\$18.65	\$8.77
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	See Appendix	See Appendix
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix

REGION #7
Coos and Curry Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #8

Jackson and Josephine Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators (Power Equipment Operators)	See Appendix	See Appendix
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$17.95	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$17.95	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$17.95	\$5.76
Drywall Taper (Painters & Drywall Tapers)	See Appendix	See Appendix
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #8

Jackson and Josephine Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators (Power Equipment Operators)	See Appendix	See Appendix
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$12.84	\$4.93
Heavy	\$15.51	\$5.09
Highway	See Appendix	See Appendix
Lather (Drywall/Wetwall)	See Appendix	See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	\$18.65	\$8.77
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzle-men, All Other Work)	See Appendix	See Appendix

REGION #8

Jackson and Josephine Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operator)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operator)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #9
Hood River, Sherman and Wasco Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$21.91	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$21.91	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$21.91	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #9

Hood River, Sherman and Wasco Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	See Appendix	See Appendix
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders (Carpenters)	See Appendix	See Appendix
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix

REGION #9

Hood River, Sherman and Wasco Counties

Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer Building Heavy Highway	See Appendix See Appendix See Appendix	See Appendix See Appendix See Appendix
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #10

Crook, Deschutes and Jefferson Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$19.61	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$19.61	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$19.61	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #10

Crook, Deschutes and Jefferson Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	\$18.65	\$8.77
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$10.28	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix

REGION #10

Crook, Deschutes and Jefferson Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$11.13	\$2.23
Heavy	\$12.22	\$3.31
Highway	\$12.98	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #11
Klamath and Lake Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	\$22.12	\$6.56
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$16.97	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$16.97	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$16.97	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #11
Klamath and Lake Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	\$18.65	\$8.77
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlement, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix

REGION #11
Klamath and Lake Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #12

Gilliam, Grant, Morrow, Umatilla and Wheeler Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators (Power Equipment Operators)	See Appendix	See Appendix
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters	See Appendix	See Appendix
Ceiling Tile Installer and Acoustical Carpenter (Drywall/Wetwall)	See Appendix	See Appendix
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer (Drywall/Wetwall)	See Appendix	See Appendix
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #12

Gilliam, Grant, Morrow, Umatilla and Wheeler Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers Building Heavy Highway	See Appendix \$14.15 \$19.66	See Appendix \$5.09 \$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders (Carpenters)	See Appendix	See Appendix
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix

REGION #12

Gilliam, Grant, Morrow, Umatilla and Wheeler Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #13

Baker, Union and Wallowa Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers, Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$20.54	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$20.54	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$20.54	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #13

Baker, Union and Wallowa Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	See Appendix	See Appendix
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix

REGION #13

Baker, Union and Wallowa Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	See Appendix	See Appendix
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

REGION #14
Harney and Malheur Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Asbestos Workers/Insulators	\$20.88	\$6.31
Asphalt; Compactors; Concrete; Surfacing (Base) Material: Paving, Surfacing, and Tamping Equipment Operators	\$19.67	\$5.73
Auxiliary Equipment Operators, Power (Tunnel) (Power Equipment Operators)	See Appendix	See Appendix
Blade; Bulldozer; Tractor-Rubber Tired: Grader, Bulldozer and Scraper Operators	\$17.32	\$5.44
Boilermakers	See Appendix	See Appendix
Bricklayers/Stonemasons	See Appendix	See Appendix
Bridge, Dock and Wharf Builders; Piledriverman; Marine Piledriver; Boom Men (Carpenters)	See Appendix	See Appendix
Carpenters: Form Stripper; Non-irritating Insulation; Cabinet and Shelving Installers (wood or steel); Floor Layers; Floor Finishers; Stationary Power Saw Operators; Wall and Ceiling Insulators, Irritating Insulation	\$20.44	\$5.76
Ceiling Tile Installer and Acoustical Carpenter	\$20.44	\$5.76
Cement Masons: finishing, hand chipping etc., composition workers, working on a scaffold	\$18.19	\$7.50
Compressors; Generators; Auxiliary Equipment; Crusher; Crushing, Grinding, Mixing and Blending	\$16.86	\$4.65
Conveyor Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Cranes: Hydraulic, Tower/Whirley, Lattice Boom: Crane and Tower Operators (Power Equipment Operators)	See Appendix	See Appendix
Diver / Divers' Tender	See Appendix	See Appendix
Dredging (Oiler, Operator, Asst. Engineer, Asst. Mate, Fireman, Tenderman)	See Appendix	See Appendix
Drilling: Earth Drillers (excludes Oil and Gas Drilling)	\$14.23	\$2.93
Drywall Installer	\$20.44	\$5.76
Drywall Taper; Lather	\$19.04	\$6.17
Electrician	See Appendix	See Appendix
Elevator Construction, Installers and Mechanics	See Appendix	See Appendix
Excavating and Loading Machine Operators; Dragline Operators		
Building	\$14.22	\$2.83
Heavy	\$16.84	\$4.95
Highway	\$19.95	\$5.95
Fence Erectors, Metal	\$13.45	\$2.79

REGION #14
Harney and Malheur Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Floating Equipment Operator: Crane, Derrick Barge, Floating Clamshell, Deckhand, Boatman, Fireman (Power Equipment Operators)	See Appendix	See Appendix
Floor Covering Layers (soft tile and linoleum) (Soft Floor Layers)	See Appendix	See Appendix
Floor Covering Layers (carpet)	\$13.10	\$4.09
Fork Lift: Industrial Truck and Tractor Operators (Power Equipment Operators)	See Appendix	See Appendix
Glaziers	\$16.04	\$5.83
Guardrail Equipment: Guardrail Installers (Power Equipment Operators)	See Appendix	See Appendix
Hazardous Materials Handler/Mechanic (Asbestos Workers)	\$20.88	\$6.31
Highway and Parking Stripers	See Appendix	See Appendix
Hydraulic Hoes: Loaders; Trenching Machine: Excavating and Loading Machine Operators	\$16.94	\$4.84
Laborers and Material Movers (Hand); Flaggers; Landscapers		
Building	\$13.70	\$4.93
Heavy	\$15.51	\$5.09
Highway	\$16.45	\$5.96
Limited Energy Electricians	See Appendix	See Appendix
Line Construction (Cable Splicer, Groundman, Head Groundman, Jackhammer Man, Line Equipment Man, Lineman Welder (Certified), Powderman, Tree Trimmer)	See Appendix	See Appendix
Logging Tractor Operators/Site Clearing	\$12.74	\$1.07
Marble Setters	See Appendix	See Appendix
Metal Workers, Reinforcing; Metal Workers Structural (Ironworkers)	\$18.65	\$8.77
Millwrights; Machine Erectors; Machinists; Millwright/Welders	\$17.02	\$4.13
Oilers: Machinery Maintenance Workers; Construction Site Parts Man, Tool Room; Machinery Maintenance Mechanics; Welders and Cutters	\$15.27	\$4.70
Painter: Brush, Roller, Machine (spray and sandblasting)	\$14.94	\$2.65
Pipelayers Sewer Water (Power Equipment Operators)	\$17.48	\$4.93
Plasterers and Stucco Masons (Swinging Scaffold, Nozzlemen, All Other Work)	See Appendix	See Appendix
Plumbers and Steamfitters/Pipefitters	See Appendix	See Appendix

REGION #14
Harney and Malheur Counties

OCCUPATION	PREVAILING WAGE RATE	FRINGE RATE
Pump Operators (Power Equipment Operators)	See Appendix	See Appendix
Roofers: General Roofing Materials; Irritable Bituminous Materials	\$17.46	\$5.12
Sheet Metal Duct Installers; Sheet Metal Workers	\$15.90	\$6.67
Sprinkler Fitters	\$19.37	\$5.28
Sweepers	\$12.37	\$2.11
Tenders to Mason Trades: Brick and Stonemasons	See Appendix	See Appendix
Tenders to Plasterers and Stucco Masons	See Appendix	See Appendix
Tile and Marble Finisher	See Appendix	See Appendix
Tile Setter/Terrazzo Worker: Hard Tile	See Appendix	See Appendix
Truck Drivers, Heavy or Tractor-Trailer		
Building	\$13.84	\$2.23
Heavy	\$13.74	\$3.31
Highway	\$16.15	\$4.51
Tunnel Boring Machine Operator, Earth Driller (Power Equipment Operators)	See Appendix	See Appendix
Underwater Equipment Operator (Power Equipment Operators)	See Appendix	See Appendix
Welding Machine Operators and Tenders (Power Equipment Operators)	See Appendix	See Appendix
Welders (Incidental)	Receive rate for craft performing operation to which welding is incidental.	Receive rate for craft performing operation to which welding is incidental.

APPENDIX

THE APPENDIX SECTION IS TO BE USED ONLY FOR REGIONS/TRADES SPECIFIED IN PAGES 11 THROUGH 52. REFER TO PAGES 11 THROUGH 52 BEFORE USING RATES IN THIS SECTION

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OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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ASBESTOS WORKERS

Installation of insulation on mechanical systems for Thermal and Acoustical purposes, also the installation of fire stop penetrations on Electrical and Mechanical Systems.

Journeyman Asbestos Worker	25.16	6.50
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Removal of regulated material on mechanical systems* which are not going to be scrapped. **

o Hazardous Materials Handler Mechanic	13.75	3.50
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* Mechanical systems include pipes, boilers, ducts, flues, breaching, grease ducts and acid ducts. This also includes all labor connected with the handling and distribution of materials for these systems.

** The removal of all regulated materials from mechanical systems is exclusively the work of Hazardous Materials Handlers, unless the mechanical systems are going to be scrapped. Laborers do all removal of regulated materials on mechanical systems to be scrapped and any non mechanical (walls, ceilings, floors, beams etc.) insulation. They also do loading of any regulated material after it has been removed, bagged and tagged, as well as cleanup at the removal site and all work done at the disposal site. Persons performing the removal of regulated materials are classified as Group 3 Laborers.

NOTE: Regulated materials are those materials that are regulated for the purpose of protecting the environment or for personal protection by either E.P.A., O.S.H.A., DEQ or Federal O.S.H.A.

BOILERMAKERS	24.07	9.56
o Pressure Welder	25.07	9.56

BRICKLAYERS/STONEMASONS

THIS TRADE IS TENDED BY "TENDERS TO MASONS"

Area 1	24.19	7.43
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(add \$0.75 per hour to Fringe for Refractory repair work.)

Area 2	22.95	7.10
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(add \$0.75 per hour to Fringe for Refractory repair work.)

Area 1

Baker	Lincoln (a)	Umatilla
Benton (a)	Linn (a)	Union
Clackamas	Malheur (a)	Wallowa
Clatsop	Morrow	Washington
Columbia	Multnomah	
Gilliam	Tillamook	

Area 2

Benton (b)	Linn (b)
Grant	Malheur (b)
Harney	Wheeler
Lincoln (b)	

a) North half
b) South half

CARPENTERS

Zone 1 (Base Rate):

o Group 1	23.27	7.42
o Group 2	23.42	7.42
o Group 3	23.77	7.42
o Group 4	23.92	7.42
o Group 5	23.77	7.42
o Group 6	23.92	7.42
o Group 7	24.27	7.42

Zone Differential for Carpenters
(Add to Zone 1 Rate)

Zone 2	.85
Zone 3	1.25
Zone 4	1.70

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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CARPENTERS (Continued)

Zone Differential for Carpenters (Continued)

Zone 5	2.00
Zone 6	3.00
Zone 7	5.00

- 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 but less than 100.
 Zone 7: More than 100 miles from the city hall of the employee's home local.

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, 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:

1. 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)

2. 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.

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

Group 1

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

Group 3

Millwrights
 Machine Erectors
 Machinists

Group 5

Bridge, Dock & Wharf
 Builders
 Piledrivermen

Group 7

Marine Piledriver

Group 2

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

Group 4

Millwright/Welders
 (Certified Welders receive
 \$0.25/hour over Group 3)

Group 6

Boom Men

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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CEMENT MASONS

THIS TRADE IS TENDED BY "CONCRETE LABORERS"

Zone 1 (Base Rate)

o Group 1	22.81	7.00
o Group 2	23.22	7.00
o Group 3	23.22	7.00
o Group 4	23.64	7.00

Group 1 Cement Masons, finishing, hand chipping and patching grouting, end pointing, screed setting, plugging, filling bolt holes, dry packing, setting curb forms, planks, stakes, lines and grades.

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

Corvallis	Portland	Longview
Eugene	Salem	Vancouver

DIVERS & DIVERS' TENDERS

o Divers	55.98	7.42
o Divers' Tenders	25.54	7.42

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

<u>Depth of Dive</u>	<u>Hourly Depth Pay</u>
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.

o Divers' Enclosure Pay (working without vertical escape)

<u>In the Enclosure</u>	<u>Distance Travelled</u>	<u>Hourly Enclosure Pay</u>
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 (Hydraulic, Dipper, Floating Clamshell)	27.45	7.25
o Asst. Engineer (including: Watch Engineer, Welder, Mechanic, Machinist)	26.62	7.25
o Tenderman (Boatman, Attending Dredge Plant); Fireman	26.01	7.25
o Fill Equipment Operator	25.47	7.25
o Assistant Mate (Deckhand); Oiler	23.78	7.25

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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DREDGING (Continued)

Zone Differential for Dredging
(Add to Zone 1 Rate)

Zone 2	2.00
Zone 3	3.00

Zone 1: Center of job site not more than 30 miles
from the City Hall of Portland

Zone 2: More than 30 miles but not more than 50

Zone 3: Over 50 miles

DRYWALL/WETWALL

o Drywall (Accoustical and Drywall Applicator)	21.58	7.02
o Wetwall (Lather)	20.56	8.04

ELECTRICIANS
Area 1:

o Electricians	20.87	5.84
o Cable Splicers	22.96	5.93

Area 2:

o Electricians	26.20	7.62
o Cable Splicers	27.51	7.66

<u>Area 3:</u>	24.30	8.48
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Area 4:

o Electricians	27.02	7.01
o Cable Splicers	29.72	7.09

Area 5:

o Electricians	26.50	9.75
o Cable Splicers	26.75	9.75

Area 6:

o Electricians	24.04	7.47
o Cable Splicers	24.04	7.47

ELECTRICIANS (Continued)

<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 5(cont)</u>	<u>Area 6</u>
Benton	Clackamas	Washington	Harney
Crook	Clatsop	Yamhill (d)	Jackson
Deschutes	Columbia		Josephine
Jefferson	Hood River		Klamath
Lane (b)	Multnomah		Lake
Linn	Sherman		Douglas (b)
Marion	Tillamook		
Polk	Wasco		
Yamhill(c)			

a) Those portions lying west of a line running 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

ELEVATOR CONSTRUCTORS
Area 1

o Mechanic	29.02	7.19 + a
o Helper	20.31	6.96 + a
o Probationary Helper	14.51	.39

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>ELEVATOR CONSTRUCTORS</u> (Continued)			<u>LABORERS</u>		
<u>Area 2</u>			Zone 1 (Base Rate):		
o Mechanic	29.19	7.20 + a	o Group 1	19.54	7.05
o Helper	20.43	6.96 + a	o Group 2	19.94	7.05
o Probationary Helper	14.59	.39	o Group 3	20.28	7.05
			o Group 4	20.56	7.05
			o Group 5	17.45	7.05
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.			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 731-4074.		
<u>Area 1</u>	<u>Area 2</u>		Zone Differential for Laborers (Add to Zone 1 Rate)		
Umatilla All	Remaining		Zone 2	.65	
Wallowa	Counties		Zone 3	1.15	
Union			Zone 4	1.70	
Baker			Zone 5	2.75	
<u>GLAZIERS</u>	23.87	5.51	<u>Zone 1:</u> Projects within 30 miles of City Hall in the Cities listed below.		
(Add \$1.00 to base rate if safety belt is required by State safety regulations)			<u>Zone 2:</u> More than 30 miles but less than 40 miles.		
(Add \$4.00 to base rate for work done from a non-motorized single-man bosun chair)			<u>Zone 3:</u> More than 40 miles but less than 50 miles.		
			<u>Zone 4:</u> More than 50 miles but less than 80 miles.		
			<u>Zone 5:</u> More than 80 miles.		
Benton	Lane	Multnomah	<u>Reference Cities</u>		
Clackamas	Lincoln	Polk	Astoria	Hermiston	Portland
Clatsop	Linn	Tillamook	Eugene	Medford	Roseburg
Columbia	Marion	Washington	Grants Pass	Pendleton	The Dalles
		Yamhill	<u>Group 1</u>		
<u>HIGHWAY / PARKING STRIPERS</u>	19.85	4.09	Asphalt Plant Laborers	Guardrail, Median	
<u>IRONWORKERS</u>	23.00	10.02	Asphalt Spreaders	Rail (c)	
o Structural, Reinforcing, Ornamental, Riggers, Signal Men			Batch Weighman	Landscape or Planting	
			Broomers	Laborer	
			Brush Burners/Cutters	Leverman or Aggregate	
			Carpenter Tender	Spreader (d)	
			Car & Truck Loaders	Loading Spotter	

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
LABORERS (Continued)			LABORERS (Continued)		
<u>Group 1 (Continued)</u>			<u>Group 2 (Continued)</u>		
Change-House Man	Material Yard Man (e)		Demolition/Wrecking (e)	Vibrating Screed	
Chipper Operator (a)	Powderman Assistant		Gunnite Nozzleman Tender		
Choke Setter	Railroad Track Laborers		a) Including Pot Tender for same, applying		
Clean-up Laborers ***	Ribbon Setters (f)		protective material by hand or nozzle on utility		
Curing, concrete	Rip Rap Man (Hand Placed)		lines or storage tanks on project		
Demolition, wrecking	Road Pump Tender and		b) Power saw		
(industrial)***	moving		c) And similar types of spreaders		
Driller Assistant	Sewer Laborer		d) Concrete, rock, etc.		
Dry-shack Man	Signalman		e) Charred Materials		
Dumpers, road oiling	Skipman		f) Of all materials of an irritating nature including		
crew	Slopers		cement and lime		
Dumpmen for grading	Sprayman		g) Includes, but not limited to: Dry Pack		
crew	Stake Chaser		Machine,		
Elevator Feeders	Stockpiler		Jackhammer, Chipping Guns, Paving Breakers		
Fence Builder	Tie Back Shoring				
Fine Graders	Timber Faller/Bucker				
Fire Watch	(Hand Labor)				
Form Strippers (b)	Toolroom Man (Job Site)				
General Laborer ***	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, and 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.					
<u>Group 2</u>			<u>Group 3</u>		
Applicators (a)	Gunite or Sandblasting		Asbestos Removal	Power Saw Operators (c)	
Brush Cutters (b)	Pot Tender		Bit Grinder	Sand Blasting (dry)	
Burners	Handlers/Mixers (f)		Concrete Saw Operator	Sewer Timberman	
Choker Splicer	Pipe Doping & Wrapping		Drill Doctor	Track Liners (d)	
Clary Power Spreader(c)	Post Hole Digger, Air,		Drill Operators (a)	Tugger Operator	
Clean up Nozzleman-	gas or electric		Laser Beam (b)	Vibrators(all)	
Green Cutter (d)	Power Tool Operators (g)		Manhole Builder	Water Blaster	
Concrete Laborers	Sand Blasting (wet)		Nippers & Timbermen	Welder	
Concrete Power Buggyman	Stake Setter		Nuclear Plant Worker	Lead Shield	
Crusher Feeder	Tampers				
			a) Air Tracks, Cat Drills, Wagon Drills,		
			Rubber-mounted drills, and other similar		
			types		
			b) Pipe laying, applicable when employee		
			assigned to move, set up, align Laser		
			Beam.		
			c) Bucking and falling		
			d) Anchor Machines, Ballast Regulators,		
			Multiple Tampers, Power Jacks		
			<u>Group 4</u>		
			Asphalt Rakers		
			Concrete Nozzlemen		
			Grade Checker		
			High Scalers, Strippers, Drillers (a)		
			Laser Beam (Tunnel), applicable when employee		
			assigned to move, set up, align laser beam		

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>LABORERS</u> (Continued)			<u>LIMITED ENERGY ELECTRICIANS</u> (Continued)		
<u>Group 4</u> (Continued)					
Loop Installation			Area 6	17.51	4.28
Motorman - Dinky Locomotive			Area 7	17.51	4.28
Pipe Layers (all)			Area 8	17.51	4.28
Powdermen			Area 9	21.10	6.68
Shield Operator			Area 10	17.51	4.28
Tunnel Bull Gang (above ground)			Area 11	17.51	4.28
Tunnel Chuck Tenders			Area 12	20.05	6.55
Tunnel Miners			Area 13	20.05	6.55
Tunnel Muckers/Brakeman/Concrete Crew/Bull Gang (underground)			Area 14	20.05	6.55
Tunnel Powderman					
a) Covers work in Swinging Stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping			<u>Area 1</u>	Clatsop, Columbia, Tillamook	
			<u>Area 2</u>	Clackamas, Multnomah, Washington, Yamhill (north half)	
			<u>Area 3</u>	Marion, Polk, Yamhill (south half)	
			<u>Area 4</u>	Benton, Lincoln, Linn	
			<u>Area 5</u>	Lane	
			<u>Area 6</u>	Douglas	
			<u>Area 7</u>	Coos, Curry	
			<u>Area 8</u>	Jackson, Josephine	
			<u>Area 9</u>	Hood River, Sherman, Wasco	
			<u>Area 10</u>	Crook, Deschutes, Jefferson	
			<u>Area 11</u>	Klamath, Lake, Harney	
			<u>Area 12</u>	Gilliam, Grant, Morrow, Umatilla, Wheeler	
			<u>Area 13</u>	Baker, Union, Wallowa	
			<u>Area 14</u>	Malheur	
			<u>LINE CONSTRUCTION</u>		
			Area 1:		
			o Group 1	27.72	6.97
			o Group 2	25.00	6.88
			o Group 3	19.39	5.43
			o Group 4	21.54	5.51
			o Group 5	18.81	5.41
			o Group 6	17.66	5.37
<u>LIMITED ENERGY ELECTRICIANS</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):					
Area 1	21.10	6.68			
Area 2	21.10	6.68			
Area 3	17.51	4.28			
Area 4	17.51	4.28			
Area 5	17.51	4.28			

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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LINE CONSTRUCTION(Continued)

Area 2:

o Cable Splicers	24.81	5.85
o Journeyman Lineman	22.50	5.76
o Line Equip. Mech. (Right-of-way)	19.08	5.61
o Line Equip. Oper.	19.08	5.61
o Groundman	13.96	5.39

Area 1 All counties except Malheur County

Area 2 Malheur County

Group 1

Cable Splicers
Leadman Pole Sprayer

Group 2

Certified Lineman Welder
Heavy Line Equipment Man
Lineman
Pole Sprayer

Group 3

Tree Trimmer

Group 4

Line Equipment Man

Group 6

Head Groundman
Jackhammer Man
Powderman

Group 5

Groundman

MARBLE SETTERS (Includes Granite)

THIS TRADE IS TENDED BY "TILE, TERRAZZO, BRICK MARBLE FINISHERS" PG. 25

Area 1	25.19	7.43
Area 2	23.95	7.10

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	

MARBLE SETTERS (Includes Granite)(Continued)

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

b) South half

PAINTERS & DRYWALL TAPERS

o Brush Painting	19.28	3.40
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(Add \$0.60 to base rate for spray, sandblasting, other pressure blasting over 3000 psi, and steam cleaning.)

(Add \$0.50 to base rate for work over 60 ft high on swing stage, mechanical climber, spider, or bucket truck.)

Clackamas
Multnomah
Washington

o Drywall Tapers	22.80	5.83
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Benton	Linn
Clackamas	Marion
Clatsop	Multnomah
Columbia	Polk
Jackson	Tillamook
Josephine	Washington
Lincoln	Yamhill

PLASTERERS

o Nozzleman	23.41	5.86
o Swinging scaffold	22.41	5.86
o all other work	21.91	5.86

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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PLUMBERS & STEAMFITTERS/PIPEFITTERS

Area 1 (Both) 22.19 6.67

Zone Differential for Area 1 Plumbers &
Steamfitters/Pipefitters

(Add to Zone 1 Rate)

Zone 2	\$ 1.20 per hour
Zone 3	\$ 1.70 per hour
Zone 4	\$ 2.50 per hour
Zone 5	\$ 3.55 per hour
Zone 6	\$30.32 per day

Zone 1: Projects within 15 miles of City Hall in the Cities
listed below.

Zone 2: More than 15 but less than 30

Zone 3: More than 30 but less than 40

Zone 4: More than 40 but less than 50

Zone 5: More than 50 but less than 100

Zone 6: More than 100 miles

With distances in Zone 6, 100 miles and beyond, there shall be a
minimum of one hundred fifty-one dollars and sixty cents
(\$151.60) per week or thirty dollars and thirty-two cents
(\$30.32) per day worked.

Reference Cities

Boise, Idaho

Twin Falls, Idaho

Area 2 (Both) 27.80 9.60

Area 3 (Both) 27.18 8.60

Area 1

Baker
Harney (a)
Malheur

Area 2

Grant (b)
Morrow
Umatilla
Wallowa
Union

Area 3

All remaining
counties

a) Except Northwest Portion

b) Except Southwest Corner

POWER EQUIPMENT OPERATORS

NOTE: THIS SECTION IS TO BE USED ONLY FOR
REGIONS/TRADES SPECIFIED IN PAGES 11
THROUGH 52. REFER TO PAGES 11 THROUGH 52
BEFORE USING RATES IN THIS SECTION.

Zone 1 (Base Rate):

o Group 1	24.81	7.55
o Group 2	23.90	7.55
o Group 3	23.20	7.55
o Group 4	22.73	7.55
o Group 5	22.17	7.55
o Group 6	20.00	7.55

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 information
on this, call the Prevailing Wage Rate Coordinator
at 731-4074.

ZONE RATES (Add to Zone 1 Rate)

Zone 2	1.50
Zone 3	3.00

ZONE DESCRIPTIONS

FOR THE FOLLOWING METROPOLITAN COUNTIES: **REGIONS 1.2 AND 3**

Multnomah; Clackamas; Marion; Yamhill; Washington
and Columbia:

(A) All jobs or projects located in Multnomah,
Clackamas and Marion counties, west of the western
boundary of Mt. Hood National Forest and west of
mile post 30 on interstate 84 and west of mile post
30 on state Hwy 26 and west of mile post 30 on Hwy
22 and all jobs located in Yamhill County, Washington
County and Columbia County shall receive zone 1 pay
for all classifications.

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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POWER EQUIPMENT OPERATORS (Continued)

ZONE DESCRIPTIONS

FOR THE FOLLOWING CITIES: REGIONS 1-3(Continued)

(B) All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive zone 2 pay for all classifications.

(C) All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive zone 3 pay for all classifications.

FOR THE FOLLOWING CITIES: REGIONS 4-11

Albany; Bend; Coos Bay; Eugene; Grants Pass; Klamath Falls; Medford and Roseburg

(A) All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive zone 1 pay for all classifications.

(B) All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive zone 2 pay for all classifications.

(C) All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive zone 3 pay for all 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 any type),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

POWER EQUIPMENT OPERATORS (Continued)

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

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

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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CONCRETE

- POWER EQUIPMENT OPERATORS**
- (Continued)

CONCRETE(Continued)

- 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 Cherry Picker or similar type crane-hoist, 5 ton capacity or less
 - 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
 - 4 Bridge Crane Operator, Locomotive, Gantry, Overhead
 - 2 Cableway Operator, 25 tons and over
 - 1 Helicopter Operators, when used in erecting work

HYDRAULIC CRANE OPERATOR

- 5 Hydraulic Boom Truck Operator, Pittman
- 4 Hydro Crane Operator, under 50 tons
- 3 Hydro Crane Operator, 50 tons through 89 tons
- 2 Hydro Crane Operator, 90 tons through 199 tons
- 1 Hydro Crane Operator, 200 tons and over

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>POWER EQUIPMENT OPERATORS</u> (Continued)			<u>POWER EQUIPMENT OPERATORS</u> (Continued)		
<u>CRANE</u> (Continued)			<u>FLOATING EQUIPMENT</u> (Continued)		
TOWER/WHIRLEY OPERATOR			4 Floating Crane (derrick barge) Operator, less than 30 tons		
2			2		
Tower Crane Operator			Floating Clamshell, etc. Operator, 3 cu. yd. and over (only for construction projects - otherwise see Dredging)		
2			2		
Whirley Operator, under 90 tons			Floating Crane (derrick barge) Operator, 30 tons but less than 150 tons		
1			1		
Whirley Operator, 90 tons and over			Floating Crane, 150 tons and over		
LATTICE BOOM CRANE OPERATOR			<u>FORK LIFT</u>		
4			6		
Lattice Boom Crane Operator, under 50 tons			Self-Propelled Scaffolding Operator (excluding working platform)		
3			6		
Lattice Boom Crane Operator, 50 tons through 89 tons, and less than 150 ft boom			Fork Lift or Lumber Stacker Operator		
2			6		
Lattice Boom Crane Operator, 90 tons through 199 tons, and/or 150 ft -200 ft boom			Ross Carrier Operator		
1			5		
Lattice Boom Crane (Operator, 200 tons and over, and/or over 200 ft boom			Lull Hi-Lift Operator or similar type		
<u>CRUSHER</u>			5		
6			Fork Lift, over 5 tons		
Crusher Oiler			3		
6			Rock Hound Operator		
Crusher Feeder			<u>GENERATORS</u>		
4			4		
Generator Operator			Generator Operator		
4			4		
Diesel-Electric Engineer			Diesel-Electric Engineer		
4			<u>GUARDRAIL EQUIPMENT</u>		
4			6		
Grizzley Operator			Oiler		
2			6		
Crusher Plant Operator			Auger Oiler		
<u>DRILLING</u>			6		
6			Oiler, combination guardrail machines		
Drill Assistant			4		
6			Guardrail Punch Operator (all types)		
Auger Oiler			6		
5			Guardrail Punch Oiler		
Churn Drill and Earth Boring Machine Operator			4		
4			Guardrail Auger Operator (all types)		
Drill Doctor			4		
4			Combination Guardrail machines. i.e. punch, auger etc.		
Boring Machine Operator			<u>HAZARDOUS WASTE REMOVAL</u>		
4			5		
Driller - Percussion, Diamond, Core, Cable, Rotary and similar type			Assistant to the Engineer (Oiler)		
4			4		
Cat Drill (John Henry)			Assistant Incinerator Control Board Operator		
<u>FLOATING EQUIPMENT</u>			3		
6			Incinerator Control Board Operator		
Deckhand			<u>HEATING PLANT</u>		
6			6		
Boatman			Temporary Heating Plant Operator		
5			4		
Fireman			Surface Heater and Planer Operator		
4					
Diesel-Electric Engineer					
4					
Jack Operator, elevating barges					
4					
Barge Operator, self-unloading					
4					
Piledriver Operator (not crane type)					
4					
Floating Clamshell, etc. Operator, under 3 cu. yd.(only for construction projects - otherwise see Dredging)					

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
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POWER EQUIPMENT OPERATORS (Continued)

HYDRAULIC HOES

- 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)
- 4 Hydraulic Backhoe Operator, Track Type 3/8 cu.yd. (Note: Over 3/8 cu. yd. takes Shovel Classification rate)

LOADERS

- 6 Bobcat, Skid Steer (under 1 cubic yard)
- 6 Bucket Elevator Loader Operator, Barber-Greene and similar types
- 5 Loaders, rubber-tired type, 2-1/2 cu. yd. and under
- 5 Elevating Grader Operator, Tractor Towed requiring Operator or Grader
- 4 Belt Loader Operator, Kolman and Ko Cal types
- 4 Loader Operator, front end and overhead, 2-1/2 cu. yd. and under 4 cu. yd.
- 4 Elevating Loader Operator, Athey and similar types
- 4 Elevating Grader Operator, Sierra, Euclid or similar types
- 3 Loader Operator, 4 cu. yd. but less than 6 cu. yd.
- 2 Loader Operator, 6 cu. yd. and over

OILERS

- 6 Oiler
- 6 Guardrail Punch Oiler
- 6 Truck Crane Oiler-Driver, 25 ton or over
- 6 Auger Oiler
- 6 Grade Oiler, required to check grade
- 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)

POWER EQUIPMENT OPERATORS (Continued)

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

REPAIRMEN, Heavy Duty

- 6 Parts Man (Tool Room)
- 6 H.D. Repairman Assistant
- 6 Welder's Assistant
- 4 Diesel-Electric Engineer (Plant or Floating)
- 4 Bolt Threading Machine Operator

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>POWER EQUIPMENT OPERATORS</u> (Continued)			<u>POWER EQUIPMENT OPERATORS</u> (Continued)		
<u>REPAIRMEN, Heavy Duty</u>			<u>SURFACING (BASE) MATERIAL</u>		
4	Drill Doctor (Bit Grinder)		6	Roller Operator, grading of base rock (not asphalt)	
4	H.D. Mechanic		5	Roller Operator, Oiling, C.T.B.	
4	H.D. Welder		6	Tamping Machine Operator, mechanical, self-propelled	
4	Machine Tool Operator		6	Hydrographic Seeder Machine Operator, straw, pulp or seed	
4	Combination H.D. Mechanic-Welder, when dispatched and/or when required to do both		5	Rock Spreaders, self-propelled	
4	Welder - Certified, when dispatched and/or required		5	Pulva-mixer or similar types	
<u>RUBBER-TIRED SCRAPERS</u>			4	Blade Mounted Spreaders, Ulrich and similar types	
4	Rubber-tired Scraper Operator, single engine, single scraper		5	Chip Spreading Machine Operator	
4	Self-loading, paddle wheel, auger type under 15 cu. yd.		5	Lime Spreading Operator	
4	Rubber-tired Scraper Operator, twin engine		<u>SWEEPERS</u>		
4	Rubber-tired Scraper Operator, with push-pull attachments		6	Broom Operator, self-propelled	
3	Rubber-tired Scraper Operator, with tandem scraper		5	Sweeper Operator (Wayne type) self-propelled	
2	Rubber-tired Scraper Operator, with tandem scrapers, multi-engine		<u>TRACTOR - RUBBER TIRED</u>		
4	Self-loading, paddle wheel, auger type 15 cu. yd. and over, single engine		5	Tractor Operator, rubber-tired, 50 H.P. Flywheel and under	
3	Self-loading, paddle wheel, auger type, finish and/or 2 or more units		4	Tractor Operator, rubber-tired, over 50 H.P. Flywheel	
<u>SHOVEL, DRAGLINE, CLAMSHELL, BACKHOE, SKOOPER, ETC., OPERATOR</u>			4	Tractor Operator, with boom attachment	
6	Oiler		4	Rubber-tired Dozers and Pushers (Michigan, Cat, Hough type)	
6	Grade Oiler (required to check grade)		<u>TRENCHING MACHINE</u>		
6	Grade Checker		6	Oiler	
6	Fireman		6	Grade Oiler (required to check grade)	
4	Diesel-Electric Engineer		5	Trenching Machine Operator, maximum digging capacity 3 ft. depth	
4	Stationary Drag Scraper Operator		4	Trenching Machine Operator, maximum digging capacity over 3 ft. depth	
4	Shovel, Dragline, Clamshell, Hoe etc., Operator under 3 cu. yd.		4	Back Filling Machine Operator	
4	Grade-all Operator		2	Wheel Excavator	
2	Shovel, Dragline, Clamshell, Hoe etc., Operator 3 cu. yd. and over		2	Canal Trimmer	
<u>SIGNALMAN</u>			2	Band Wagon (in conjunction with wheel excavator)	
6	Bell Boy, phones, etc., Operator		<u>TUNNEL</u>		
6	Helicopter Radioman (ground)		4	Mucking Machine Operator	
			6	Conveyor Operator (any type)	

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>POWER EQUIPMENT OPERATORS</u> (Continued)			<u>SHEETMETAL WORKERS</u>		
<u>TUNNEL</u> (Continued)			Area 1		
4	Shield Operator			22.38	8.76
6	Air Filtration Equipment Operator		(Add \$1.00 to base rate for work performed on any swinging platform, swinging chair, or swinging ladder)		
6	Dinkey Operator		(Add \$1.00 to base rate for work with lead or installing material in a plant that uses lead in any form to manufacture a product, (excluding soldering)).		
6	Oiler		(Add \$1.00 to base rate for work performed in a confined space as defined by OSHA.)		
4	Tunnel Boring Machine Operator		Area 2		
<u>UNDERWATER EQUIPMENT</u>				20.10	7.14
2	Underwater Equipment Operator, remote or otherwise, when used in construction work		(Add \$1.75 to base rate for work performed whenever it is possible for worker to fall 30 feet or more)		
<u>WELDING MACHINES</u>			(Add \$1.75 to base rate for work performed in an area where epoxy resins or other injurious chemicals are being applied)		
6	Welding Machine Operator		Area 3		
<u>ROOFERS</u>				23.93	7.87
(Installation and removal of sheetmetal roofing is done by sheetmetal workers.)			(Add \$1.00 to base rate for work where it is necessary to wear a chemically activated face mask)		
Area 1:			(Add \$1.00 to base rate for work where employees required to wear a fresh air mask due to nuclear related work)		
	o Roofers	20.35 5.30	(Add \$.45 to base rate for work on a swinging stage, swinging scaffold or bosun chair in excess of 30 feet above the ground)		
	o Handling coal tar pitch	22.39 5.30	Area 4		
Area 2:				19.92	6.21
	o Roofers	17.64 6.25			
(Add \$2.00 per hour to Fringe for work with irritable Bituminous material.)					
<u>Area 1</u>	<u>Area 2</u>	<u>Area 2 (con't)</u>			
Clackamas	Benton	Polk			
Clatsop	Douglas	Yamhill			
Columbia	Lane				
Multnomah	Lincoln				
Tillamook	Linn				
Washington	Marion				

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
<u>SHEETMETAL WORKERS</u> (Continued)			<u>TILE SETTER/ TERRAZZO WORKER</u> 22.78 6.20		
Area 1			THIS TRADE IS TENDED BY "TILE, TERRAZZO, BRICK & MARBLE FINISHERS"		
Benton	Marion		(Add \$.50 to base rate if safety belt required by State safety regulations.)		
Clackamas	Multnomah		(Add \$1.00 to base rate if work involves epoxy, furnane, alkor acetylene black grouting or waterproof membrane.)		
Clatsop	Polk				
Columbia	Tillamook				
Gilliam	Washington				
Grant	Wheeler				
Lincoln	Yamhill				
Linn					
			<u>TILE, TERRAZZO, BRICK & MARBLE FINISHERS</u> 17.07 4.72		
Area 2	Area 3	Area 4	o Assists Tile Setters, Brick Layers, Marble Masons, and Terrazzo Workers by striking, sawing, cleaning, washing or grouting. Does not lay or set any material. (Add \$.50 to base rate if safety belt required by State safety regulations.) (Add \$1.00 to base rate if work involves epoxy, furnane, alkor acetylene black grouting or waterproof membrane.) (Add \$0.75 to fringe for refractory repair work.)		
Baker	Morrow	Douglas			
	Umatilla	Lane			
	Union				
	Wallowa				
<u>SOFT FLOOR LAYERS</u>	20.51	5.43 + a			
a) plus 4% of basic hourly rate for employees with less than one year of service, 6% for those with more than one year.					
<u>SPRINKLER FITTERS</u>	22.48	6.85	<u>TRUCK DRIVERS</u>		
Clackamas	Polk		NOTE: THIS SECTION IS TO BE USED ONLY FOR REGIONS/TRADES SPECIFIED IN PAGES 11 THROUGH 52. REFER TO PAGES 11 THROUGH 52 BEFORE USING RATES IN THIS SECTION.		
Marion	Washington		Zone 1 (Base Rate):		
Multnomah	Yamhill		o Group 1 20.97 8.10		
			o Group 2 21.09 8.10		
			o Group 3 21.22 8.10		
			o Group 4 21.47 8.10		
			o Group 5 21.69 8.10		
			o Group 6 21.84 8.10		
			o Group 7 22.04 8.10		
<u>TENDERS TO MASON TRADES</u>	21.64	6.00			
o Tenders to Bricklayers and Stone Masons. Mortar Mixers. (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)					
<u>TENDERS TO PLASTERERS</u>	20.59	6.00			

OREGON DETERMINATION 98-02

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

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 731-4074.

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.

Reference Cities

Astoria	Oregon City
Goldendale	Portland
Hood River	The Dalles
Longview	Tillamook

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 concrete—add 15¢ per hour	

TRUCK DRIVERS (Continued)

Work Group

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

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 Truck, 0-10 tons 1

Team Drivers 1

OREGON DETERMINATION 98-02

TRADE	BASIC HOURLY RATE	FRINGE BENEFITS	TRADE	BASIC HOURLY RATE	FRINGE BENEFITS
TRUCK DRIVERS (Continued)					
<u>Work</u>			<u>Group</u>		
Tireman, full-time basis			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		
Truck Assistant			1		
Truck Mechanic—Welder—Body Repairman			3		
Truck Mechanic Assistant			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					

**LIST OF CONTRACTORS INELIGIBLE
TO RECEIVE PUBLIC WORKS CONTRACTS**

Publication Date: July 1, 1998

To: All Oregon Contracting Agencies

Pursuant to ORS 279.361, contractors on this list are ineligible to receive public works contracts. These contractors and subcontractors, as well as any firm, corporation, partnership or association in which the contractor or subcontractor has a financial interest are ineligible to receive public works contracts until removed from this list.

If you have questions regarding the list or for the most current information regarding persons ineligible to receive prevailing wage contracts, please contact the Prevailing Wage Rate Coordinator, (Portland) 731-4074 Ext. 250.

	<u>CONTRACTOR NAME</u>	<u>DATE PLACED</u>	<u>REMOVAL DATE</u>
1.	Craig Yundt, Registered Agent and President and AC & C Electrical Enterprises, Inc. 2130 NW York Portland, OR 97210	May 10, 1996	May 9, 1999
2.	Wayne C. Everett and Equipment Erection Specialties, Inc. 8645 SE Roots Road Clackamas, OR 97015	October 15, 1995	October 14, 1998
3.	Lisa A. Wiese dba L & G Interiors P.O. Box 2218 Clackamas, OR 97015	April 20, 1998	April 19, 2001
4.	Michael A. McSweeney dba Michael A. McSweeney Construction P.O. Box 1573 Rogue River, OR 97537	February 25, 1997	February 24, 2000
5..	Pro Fit Development, Inc., Karl O. Johnson, and Devin Luzier 1501 Green Siding Rd. Roseburg, OR 97470	April 20, 1998	April 19, 2001
6.	Westside Landscape, Inc., an Oregon Corporation, and Tim Barnes 590 Greenwood Rd. Independence, OR 97351	May 4, 1998	May 3, 2001



Jack Roberts, Commissioner
Bureau of Labor and Industries

BUREAU OF LABOR AND INDUSTRIES - WAGE AND HOUR DIVISION

INSTRUCTIONS FOR COMPLETING PAYROLL/CERTIFIED STATEMENT FORM,
WH-38 (Rev 6/96)

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 payroll/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:

Complete the box at the top of the form. Complete the appropriate prime contractor or subcontractor box. Be sure to enter the date the contract was first advertised for bid. If you are not sure of this date, contact the Public Contracting Agency.

Column 1 - Name and Address 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.

Column 2 - Trade Classifications: List the classification found in the Bureau of Labor and Industries' publication "Prevailing Wage Rates for Public Works Contracts in Oregon," which is most descriptive of the work actually performed by the employee. Give the group number for those worker classifications which include such information. Consult the worker classifications and minimum prevailing wage rate schedule set forth in contract specifications. Refer to the appropriate prevailing wage rates in effect at the time the contract was first advertised for bid for information regarding trade classifications, basic hourly rates, and hourly fringe benefits. Indicate which workers are apprentices, if any, and give their current percentage, trade classification, and group number when applicable. If additional worker classifications are deemed necessary, contact the contracting public agency. If an employee works in more than one worker classification, use the highest rate for all hours worked, or use separate line entries to show hours worked, rate of pay, and fringe benefit for each classification.

Column 3 - DAY AND DATE: Enter the day of the week (M, T, W, Th, F, S, Sn) in the top row of boxes, and the number of the day of the month below.

- HOURS WORKED EACH DAY: Enter as overtime hours all hours worked in excess of 8 hours per day, all hours worked on Saturday and Sunday and all hours worked on legal holidays as defined in ORS 279.334. See ORS 279.334(3) for exceptions to this requirement.

Column 4 - Total Hours: Enter separately the total number of overtime hours and straight time hours worked by each listed classification during this pay period; overtime ("OT") on top, straight time ("S") immediately below.

Column 5 - Basic Hourly Rate of Pay: Enter the basic hourly rate and the overtime hourly rate (if any) paid the employee in the appropriate overtime and straight time boxes. Payment of not less than one and one half times the basic or regular rate paid is required for overtime under ORS 279.334.

Column 6 - Hourly Fringe Benefit Paid as Wages to the Employee: Enter any additional cash paid directly to the employee in lieu of fringe benefits. It is not necessary to pay time and a half for overtime work on those wages which are paid in lieu of fringe benefits.

Column 7 - Gross amount earned: Enter the gross wages earned by the worker in this classification for all listed straight time hours, all listed overtime hours, and including all additional amounts paid directly to the employee.

INSTRUCTIONS FOR COMPLETING PAYROLL/CERTIFIED STATEMENT FORM,
WH-38 (Rev 6/96)

Column 8 - Total Deductions, FICA, FED, STATE, ETC: Enter the total amount of deductions withheld from each employee for just those hours reported on this payroll/certified statement for this project. All deductions must be in accordance with the provisions of ORS 652.610.

Column 9 - Net Wages Paid for Week: Enter the amount of wage actually paid to the employee after subtracting the total deductions reported in Column 8 from the gross amount earned shown in Column 7.

Column 10 - Hourly Fringe Benefit Paid to Party, Plan, Fund or Program: Enter the hourly amount of fringe benefits paid to each individually approved party, plan, fund or program for each employee. List these amounts separately on the lines provided. Any contractor who is making payments to approved parties, plans, funds or programs in amounts less than the required hourly fringe benefit is obligated to pay the difference directly to the employee as wages in lieu of fringe benefits, and to show that amount in Column 6 of this form.

Column 11 - Name of Benefit Party, Plan, Fund or Program: Enter the name of the party, plan, fund or program that corresponds to the amount shown as an hourly fringe benefit in Column 10.

Summary - In order to determine if the wages and fringe benefits being certified by this statement are sufficient to meet prevailing wage rate requirements, the following check may be performed:

1. Consider each Trade Classification listed in Column 2.
2. For that Trade Classification, take the sum of:
 - a) the Basic Hourly Rate of Pay (Column 5),
 - b) the Hourly Fringe Benefit Paid as Wage to Employee (Column 6),
 - c) and the Hourly Fringe Benefit Paid To Party, Plan, Fund or Program (Column 10).
3. This sum must equal or exceed the sum of the Basic Hourly Rate (including zone pay and special wage differentials, if any) and the Fringe Benefit as they are listed for that Trade Classification in the appropriately dated issue of the Bureau of Labor and Industries publication Prevailing Wage Rates for Public Works Contracts in Oregon.

◆◆◆

NOTICE TO CONTRACTORS: YOU ARE NO LONGER REQUIRED TO SUBMIT COPIES OF THE PAYROLL/CERTIFIED STATEMENT TO THE BUREAU OF LABOR AND INDUSTRIES. THE STATEMENT MUST BE SUBMITTED TO THE PROJECT CONTRACTING AGENCY.

PRIME CONTRACTOR ☐
SUBCONTRACTOR ☐

FIRST ☐ 90 DAY ☐ LAST ☐

Business Name (DBA):		CCB Registration Number:		Project Name:		Project Number:	
Phone: ()				Type Of Work:			
Street Address:				Project Location:			
Mailing Address:				Project County:			
Date Pay Period Began:		Date Pay Period Ended:					
THIS SECTION FOR PRIME CONTRACTORS ONLY Public Contracting Agency Name: Phone: () Date Contract Specifications First Advertised For Bid: Contract Amount				THIS SECTION FOR SUBCONTRACTORS ONLY Subcontract Amount: Prime Contractor Business Name (DBA): Phone: () CCB Registration Number: Date You Began Work On The Project:			

(1)	(2)	(3) DAY AND DATE							(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
NAME AND ADDRESS OF EMPLOYEE	TRADE, CLASSIFICATION (INCLUDE GROUP # IF APPLICABLE)								TOTAL HOURS	BASIC HOURLY RATE OF PAY	HOURLY FRINGE BENEFIT PAID AS WAGE TO EMPLOYEE	GROSS AMOUNT EARNED	TOTAL DEDUCTION FICA, FED, STATE, ETC	NET WAGE PAID FOR WEEK	HOURLY FRINGE BENEFIT PAID TO PARTY, PLAN, FUND OR PROGRAM	NAME OF BENEFIT PARTY, PLAN, FUND, OR PROGRAM	
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(1)	(2)	(3) DAY AND DATE							(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
NAME AND ADDRESS OF EMPLOYEE	TRADE, CLASSIFICATION (INCLUDE GROU # IF APPLICABLE)								TOTAL HOURS	BASIC HOURLY RATE OF PAY	HOURLY FRINGE BENEFIT PAID AS WAGE TO EMPLOYEE	GROSS AMOUNT EARNED	TOTAL DEDUCTION FICA, FED, STATE, ETC.	NET WAGE PAID FOR WEEK	HOURLY FRINGE BENEFIT PAID TO PARTY, PLAN, FUND OR PROGRAM	NAME OF BENEFIT PARTY, PLAN, FUND, OR PROGRAM
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CERTIFIED STATEMENT

_____ DO HEREBY STATE:
(NAME OF SIGNATORY PARTY) (TITLE)

(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 _____ 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 AS FOLLOWS:

(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 IN THE CONTRACT; THAT THE
CLASSIFICATION SET FORTH THEREIN FOR EACH WORKER CONFORMS 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.

I HAVE READ THIS CERTIFIED STATEMENT, KNOW THE CONTENTS THEREOF AND IT IS TRUE TO MY KNOWLEDGE.

NAME AND TITLE SIGNATURE
NOTE TO CONTRACTORS: YOU MUST ATTACH COPIES OF THIS FORM TO EACH OF YOUR PAYROLL SUBMISSIONS ON THIS PROJECT. SEE THE BOLI PUBLICATION PREVAILING WAGE
RATES FOR PUBLIC WORKS CONTRACTS IN OREGON FOR INSTRUCTIONS ON COMPLETING THIS FORM.



Bureau of Labor and Industries
Prevailing Wage Rate Unit
800 N.E. Oregon St., # 32
Portland, OR 97232
Phone: (503) 731-4074, Fax: (503) 731-4623

PUBLIC WORK CONTRACT FEE INFORMATION FORM

(For use by contractors in complying with ORS 279.375)

THIS FORM TO BE USED FOR PROJECTS AWARDED AFTER SEPTEMBER 9, 1995 ONLY

Contractors: Please complete and mail this form to BOLI at the above address, along with the appropriate fee (1/10th of 1% of the contract price*) payable to BOLI. **MINIMUM FEE IS \$100.00, MAXIMUM FEE IS \$5,000.00.** Without the following completed information, the bureau may be unable to properly credit you for payment received.

BUSINESS NAME (DBA) _____ **CCB #** _____

MAILING ADDRESS: _____ **PHONE: ()** _____

(STREET OR PO BOX #)

(CITY, STATE, ZIP)

PROJECT NAME: _____

PROJECT NUMBER: _____ **PROJECT LOCATION:** _____

AGENCY AWARDED CONTRACT: _____

AGENCY CONTACT PERSON: _____ **PHONE: ()** _____

CONTRACT AMOUNT: _____ **DATE AWARDED:** _____ **DATE WORK BEGAN:** _____

*(Contract amount X .001)

(Please duplicate this form for future use)

Bureau of Labor and Industries
Prevailing Wage Rate Unit
800 N.E. Oregon St., # 32
Portland, OR 97232
phone: (503) 731-4074, ext. 250
FAX: (503) 731-4623

PUBLIC WORKS CONTRACT FEE ADJUSTMENT FORM

**THIS FORM TO BE USED FOR RECONCILIATION OF FEES ON COMPLETION OF
PUBLIC WORKS PROJECTS**

(As required by ORS 279.375 and OAR 839-16-210)

Contractors: Please complete and mail this form to BOLI at the above address, after completion of the public works project and not less than 30 days after the final payment by the contracting agency. Contractors are required to determine the final contract price, including all change orders or other adjustments to the original contract price and to calculate the adjusted prevailing wage rate fee, based on the revised contract price. Documentation must be included to support the final contract price. The prevailing wage rate fee, .001, (1/10th of 1%) shall be applied to the final contract price, with credit taken for fees already submitted. The contractor must submit the additional fee payable to BOLI with the adjustment form or requests for refund if applicable. **NO ADDITIONAL FEE WILL BE CHARGED, NOR A REFUND MADE, ON ANY RECONCILED AMOUNTS UNDER \$100.00.**

BUSINESS NAME (DBA) _____ CCB # _____

MAILING ADDRESS: _____ PHONE: () _____
(STREET OR PO BOX #, CITY, STATE, ZIP)

PROJECT NAME: _____

PROJECT NUMBER: _____ PROJECT LOCATION: _____

AGENCY AWARDED CONTRACT: _____ DATE AWARDED: _____

FINAL CONTRACT AMOUNT: _____ FINAL FEE DUE*: _____

(Include all change orders and adjustments
to the contract price)

*(Final Contract amount X .001)

ORIGINAL CONTRACT AMOUNT: _____ INITIAL FEE PAID*: _____

*(Contract amount X .001)

BALANCE DUE: _____ REFUND DUE: _____
(Final contract fee less initial fee paid)

Sample Calculation:

Final Contract Amount:	\$400,000.00	Final Fee Due:	\$400.00
Original Contract Amt:	<u>-300,000.00</u>	Initial Fee Paid:	<u>-300.00</u>
Total Adjustment:	\$100,000.00	Amount Due or Refund Due:	\$100.00

*Documentation may consist of change orders or other contract documents substantiating the amount of the contract.

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

1. CONTRACTING AGENCY INFORMATION

Name _____ Agency Number _____
Address _____
City, State, Zip _____
Agency Representative _____ Phone _____

2. CONTRACT INFORMATION

Project Name _____ Project Number _____
Project Manager Name _____ Fax Number _____
Phone Number _____

Project Location (Street(s), City, State) _____
Project County _____ Contract Amount _____
Source of Funds (i.e. 100% Federal Funds, 50/50 Federal/State, 100% Local, etc.) _____

Note: If this project is Federally funded and subject to the Davis Bacon Act, do not submit this form to the Oregon Bureau of Labor and Industries. If Federal funds are involved, but the project is subject to Oregon prevailing wage rate, please specify.

Date Contract Specifications First Advertised for Bid _____
Date Contract Awarded _____ Date Work Expected to Begin _____
Date First Progress Payment Due _____ Expected Date of Completion _____

3. PRIME CONTRACTOR INFORMATION

Name _____
Address _____
City, State, Zip _____ Phone _____
Construction Contractors Board Registration Number _____
Name of Bonding Company: _____
Address: _____
Agent Name/Phone: _____
Bond Number: _____

THIS FORM WILL BE RETURNED TO THE CONTRACTING AGENCY FOR CORRECTION AND RESUBMITTAL IF INCOMPLETE.

RETURN THIS COMPLETED FORM TO:

**Bureau of Labor and Industries
Wage and Hour Division Rm 1160
Prevailing Wage Section
800 NE OREGON # 32
Portland, OR 97232
(503) 731-4074, EXT. 233**

Fax: (503)731-4606

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 construction projects estimated to cost more than \$125,000 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:

Estimated Construction Period _____

(cross out one)

SPECIFICATIONS

**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999

SPECIFICATIONS

SECTION 01010 SCOPE OF WORK

SECTION 1.00 GENERAL

1.01 DESCRIPTION OF WORK

A. This section describes the work in general, and provides an overview of the extent of the work to be performed under this Contract. Detailed requirements and the extent of work is stated in the applicable Specification sections and shown on the Plans.

(1) The Contractor shall provide all excavation, backfill, asphalt or concrete patch or repair, electrical and mechanical apparatus, enclosures, conduit, fittings, valves, labor, tools, and expendable materials required to complete the project.

(2) Completely coordinate work of all trades.

(3) Although such work may not be specifically indicated, furnish and install all miscellaneous items incidental to or necessary to complete the Contract and to provide a fully functional operating system.

(4) The Contractor shall plan work in coordination with the City of Newberg. Power outages shall be limited to fifteen (15) minutes and scheduled in advance with City's project manager.

(5) One half of the Influent Pump Station must remain operational at all times.

B. The work is to provide a revised transformer and process control location as well as replacement of specific electrical and mechanical apparatus at the City of Newberg Wastewater Treatment Plant Influent Pump Station. This work will include but not be limited to the following:

(1) Excavation, boring, backfill and repair of asphalt and/or concrete required for installation of new conduits or revised access for flexible cables to wet-well.

(2) New penetrations as required for pump power and control cables. No more than one flexible cable shall be permitted in any through-structure penetration. Provide a cast-in-place cable seal and cable grip for each motor cable penetration that will provide for the attachment of a #6 grounding jumper (O-Z Gedney FSCS or approved equal). This shall be attached to the local disconnect ground busbar. Install a stainless steel wire mesh strain relief/cable support in the wet well on each cable lacking proper support and provide a positive cable seal for each penetration and cable.

(3) Move pump motor monitoring units and the power panel location as described in B-4 below from existing control enclosure to a new, two door freestanding NEMA 4X stainless steel enclosure ("ISCP"). Provide 24VAC power as shown. Reconnect individual pump

SPECIFICATIONS

monitors via new conduit and wiring from ISCP to terminals installed within the individual pump disconnects. No enclosure penetrations shall be made in the top of any enclosure.

(4) Provide new 15 kva utility power transformer in stainless steel NEMA 4X enclosure at Panel ISCP. Install a new Panel "P2-1S1" inside ISCP and reconnect all existing single-phase loads and provide new feeders for compressors (2) located in Dry-well. No enclosure penetrations shall be made in the top of any enclosure. Remove existing 15 kva transformer/panel combination and dispose.

(5) Completely remove existing support structure for pump motor disconnects and hand operator stations on crane rail and install new stainless steel support structure for mounting of required apparatus.

(6) Replace four (4) existing stainless steel NEMA 4X influent pump motor disconnects with new stainless steel NEMA 4X motor disconnects of same rating. Pump stop pushbuttons are to be installed into new disconnect enclosures. These devices will be installed in the face of the individual disconnect enclosure. No enclosure penetrations shall be made in the top of any enclosure. Two (2) switches are rated 200A and two (2) are rated 400A.

(7) Replace existing ventilators (SF01-01, SF01-02, SFO1-03) with new centrifugal exhaust fans to match capacity of existing equipment. Contractor is to remove and dispose of the existing ventilator equipment and covers. The existing angle mounting frame may be left in place and reused to mount the replacement ventilation equipment. Fabricated enclosures for the purpose of adapting new ventilation fans to the existing mounting frames are to be assembled of welded stainless steel construction. Provide all motor starting equipment integral with fan units.

Ventilator SF01-03 is to be a curb-mounted belt-drive centrifugal exhaust fan. The enclosure and fan are to be constructed of stainless steel material and assembled with corrosion resistant fasteners. A bird screen is to be fitted and fan shaft bearings shall be ball bearing pillow blocks with accessible grease fittings.

Ventilators SF01-01 and SF01-02 are to be curb-mounted belt-drive centrifugal exhaust fans. The enclosure and fan are to be constructed of stainless steel material and assembled with corrosion resistant fasteners. A bird screen is to be fitted and fan shaft bearings shall be ball bearing pillow blocks with accessible grease fittings.

(8) Dry-well Ventilation Fan control shall be automatic operation upon the opening of the dry-well hatch cover or manual from the control panel. Control of wet-well ventilators shall be manual only; wet well hatch cover limit switches are to be abandoned.

(9) Revise electrical supply to bubbler air compressors, lighting and pilot devices in dry-well to assure independent continuous operation of compressors, ventilator and receptacles and lighting. Provide new feeds from PNL ISCP to the dry-well ventilator, lighting and receptacle circuits.

SPECIFICATIONS

- (3) ton capacity.
- (10) Replace existing electric chain hoist with a new chain hoist rated for three
 - a. Provide new motorized trolley with pad-mount for hoist.
 - b. 480V, 3 phase power with pendant control
 - c. 50' lift chain w/swivel hook (46' actual lift)
 - d. Weatherized construction
 - e. Chain bucket (may require custom fabrication)
 - f. Shall be budgit, yale, or approved equal.
 - (11) Existing exterior lighting on crane rail to be relamped and local switch and switch cover replaced. Remove all existing utility power receptacles above grade. Abandon all wet-well lighting. Place one (1) GFI duplex outlet on outside and one (1) GFI quad outlet on inside of new panel ISCP.
 - (12) Provide stainless steel conduit support strut and straps. Cap or seal all abandoned conduits and unused structure penetrations.
 - (13) Underground conduit may be schedule 40 PVC rigid. All risers and above ground conduits shall be PVC coated rigid galvanized steel (PVC-RGS) conduit. All transitions into structures or above grade shall be PVC-RGS.
 - (14) Label all enclosures and devices with engraved phonocic nameplates that specify the Equipment Serial Number, Equipment Description and Source of Power. Submit proposed nameplate schedule for review by the owner.
 - (15) All cables and wires are to be labeled with machine printed permanent nylon or tyvex labels securely attached bearing the from/to address of the cable assembly or wire.
 - (16) The new Utility Power Panel PS-1S1 is to have a typed panel circuit schedule.
 - (17) All equipment and materials for this project are to be of new manufacture.
 - (18) Miscellaneous associated demolition and relocation work.
 - (19) Performance of field testing.

END OF SECTION

SPECIFICATIONS

SECTION 16010 ELECTRICAL GENERAL

SECTION 1.00 GENERAL

1.01 DESCRIPTION OF WORK

A. The work consists of furnishing all labor, materials, services, tools and other equipment necessary for the construction, installation, connection and testing of all electrical work for this project as shown on the drawings or specified herein.

B. The work includes revising the transformer and control location as well as replacement of specific electrical and mechanical apparatus at the City of Newberg Wastewater Treatment Plant Influent Pump Station. In addition, modifications to wiring are needed to improve operational reliability and safety.

1.02 RELATED SECTIONS

A. Section 16100 - Basic Materials and Methods

1.03 INTENT OF DRAWINGS AND SPECIFICATIONS

A. Riser and other diagrams are schematic only and shall not be used for obtaining quantities.

B. The electrical drawings do not show complete details of the site conditions. The Contractor shall check actual conditions.

1.04 COORDINATION OF WORK

A. The Contractor shall plan work in coordination with the City of Newberg. Power outages for only one half of the Influent Pump Station shall be limited to fifteen (15) minutes and scheduled in advance with City's project manager.

B. The Contractor shall schedule and coordinate operations, shall make all necessary temporary connections, and shall perform any other work necessary to ensure continuous plant operation.

C. The Contractor shall work continuously during critical connections and changeovers, as required to prevent interruption of sewage inflow at no additional cost to the Owner.

D. Contractor is responsible to provide any and all temporary power and/or control connections required to maintain plant flows.

E. The Contractor shall field verify all dimensions of equipment to be installed or provided by others so that correct clearances and connections may be made between the work installed by the Contractor and equipment installed or provided by others.

SPECIFICATIONS

F. The Contractor shall arrange all conduit runs so that they do not interfere with duct work, structural members, etc.

G. All working measurements shall be taken from the sites, checked with those shown on the drawings, and if they conflict, reported to the Engineer at once, and before proceeding with the work. Should the Contractor fail to comply with this procedure, they shall alter the work at the Contractor's own expense as directed by the Engineer.

H. No extra payments will be allowed where obstructions in the work of other trades, or work under this Contract requires offsets to conduit runs.

I. The Contractor is responsible for all alterations in the work to accommodate equipment differing in dimensions or other characteristics from that shown or specified.

J. Original construction drawings and project drawings have been prepared by the City of Newberg for Contractor use in preparing estimates. Contractors are advised to use these materials as guides for their own investigation and measurement of the facility and the requirements for new conduit and equipment.

K. Contractors should visit the site to become familiar with and satisfy Bidder as to the general, local and site conditions that may affect cost, progress, performance or furnishing of the work.

L. Arrangements for inspection of the facility can be arranged by contacting Jadene Torrent, Utility Engineer, City of Newberg, 503/554-8881.

1.05 SUPERVISION

A. Contractor will have a designated employee on-site whenever work is being performed and otherwise readily available by telephone during normal business hours for the purpose of communication and transmittal of documents regarding the performance of the work under the Contract, any extensions or modifications, or rework thereof.

B. Project schedule, equipment submittals, shop drawings and construction details will be provided to the City for review and acceptance prior to Contractor's purchase or commencement of work.

C. Weekly project meetings will be scheduled for the duration of the project. The Contractor's on-site representative will be required to attend all regular or ad hoc project meetings.

D. Upon completion of the Contract the Contractor shall provide all required Operation and Maintenance Manuals as specified in Section 4.0.

1.06 CODES

A. Work shall conform to the National Electrical Code (NEC), State codes and other

SPECIFICATIONS

applicable codes, even though not specifically mentioned for each item. These shall be regarded as the minimum standard of quality of materials and workmanship.

1.07 WORKMANSHIP

A. All work shall be performed by personnel skilled in the particular trade.

B. The Engineer shall be the sole judge as to whether or not the finished work is satisfactory; and if in the Engineer's judgment any material or equipment has not been properly installed or finished, the Contractor shall replace the material or equipment whenever required, and reinstall it in a manner entirely satisfactory to the Engineer without any increase in cost to the Owner.

1.08 PERMITS, FEES AND SERVICE CHARGES

A. The Contractor shall obtain all permits and pay all fees.

1.09 CONTRACTOR'S USE OF PREMISES

A. Contractor shall limit their use of the premises for work and storage and allow for:

- (1) Work by other Contractors/subcontractors,
- (2) Owner occupancy, and
- (3) Uninterrupted operation of existing adjacent facilities.

B. Coordinate use of premises under direction of Owner.

C. Contractor assumes full responsibility for the protection and safekeeping of products and materials Contractor has stored on or off of the site.

D. Contractor shall move any stored products, or materials, under Contractor's responsibility, which interfere with operations of Owner or separate Contractor/subcontractor.

E. Contractor shall obtain and pay for the use of any additional storage or work areas if needed for Contractor operations.

F. Contractor shall confine all materials storage, equipment storage and employee and subcontractor parking to Owner designated areas. Contractor shall not store materials or equipment, nor shall employees of the Contractor or subcontractor's park automobiles on public streets, in the Owner's parking lots, or in the parking and storage areas designated for use by other contractors.

G. Contractor shall restore any areas used for materials storage, trailers, offices, equipment storage, or employee and subcontractor parking to their original condition or better.

SPECIFICATIONS

SECTION 2.00 PRODUCTS

2.01 MATERIALS

- A. See subsequent electrical sections and the drawings for specified materials.

2.02 PORTABLE OR DETACHABLE PARTS

A. The Contractor shall retain in Contractor's possession and shall be responsible for all portable and detachable parts or portions of installations such as fuses, key locks, adaptors, blocking chips, and inserts until completion of their work.

B. These parts shall be delivered to the Engineer and an itemized receipt obtained. This receipt together with two (2) copies of the final inspection certificate shall be attached to the Contractor's request for final payment.

C. All equipment shall be demonstrated to operate in accordance with the requirements of this specification and the manufacturer's recommendations.

SECTION 3.00 EXECUTION

3.01 SUPPORT BACKING

A. Provide any necessary backing required to properly support all fixtures and equipment installed under this Contract.

3.02 CUTTING, PATCHING AND FRAMING

A. The Contractor shall determine in advance the locations and sizes of all sleeves, chases, and openings necessary for the proper installation of this work.

B. Whenever practical, inserts or sleeves shall be installed prior to convening work. Cutting and patching shall be held to a minimum. All required holes in concrete construction shall be made with a core drill and patched with non-shrink grout.

C. Cutting, fitting repairing and finishing of carpentry work, metal work, or concrete work, and the like, which may be required for this work shall be done by craftsmen skilled in their respective trades. When cutting is required, it shall be done in such a manner as not to weaken walls, partitions, or floors; and holes required to be cut in floors must be drilled without breaking out around the holes.

SPECIFICATIONS

3.03 TESTS

A. The Contractor shall furnish all labor, material, instruments and tools to make all connections for testing of the electrical and instrumentation installation. All equipment shall be demonstrated as operating properly prior to the acceptance of the work. All protective devices shall be operative during testing of equipment. The tests shall be made under the supervision of the Engineer. All deficiencies or unsatisfactory conditions as determined by the Engineer or inspecting authorities shall be corrected by the Contractor in a satisfactory manner at their own expense.

B. After visual inspection of joints and connections and the application of tape and other insulating materials, all sections of the entire wiring system shall be thoroughly tested for shorts and grounds. A log of results for each circuit shall be kept by the Contractor and presented to the Engineer.

C. A phase rotation check shall be made to demonstrate that all power receptacles, service feeders, and main power feeders have the same A-B-C phase rotation and ground relationships.

D. Insulation resistance measurements of each circuit shall be made with loads connected and contractors, if any, blocked closed to give complete circuits. Insulation resistance of complete circuit shall be measured from the circuit breaker load terminals with the breaker open. A log of completed results shall be prepared by the Contractor and presented to the Engineer. Values of resistance shall be ten (10) megohms or greater.

SECTION 4.00 OPERATION AND MAINTENANCE MANUALS

4.01 GENERAL

A. Submission of Operation and Maintenance Manuals is applicable but not necessarily limited to:

1. Major equipment.
2. Equipment used with electrical motor loads of 1/6 HP nameplate or greater.
3. Specialized equipment including valves and instrumentation and control system components for HVAC and process systems such as meters, recorders, and transmitters.

4.02 LAYOUT

A. Submit three copies of Operation and Maintenance Manuals:

B. Submit Operation and Maintenance Manuals printed on 8-1/2" x 11" size heavy first quality paper with standard three-hole punching and bound in stiff hinged binder constructed as a three-ring style. Provide binders with titles on front and on spine of binder. Tab each section of manuals for easy reference with plastic-coated dividers. Provide index for each manual. Provide plastic sheet lifters prior to first page and following last page.

SPECIFICATIONS

C. Reduce drawings or diagrams bound in manuals to an 8-1/2" x 11" or 11" x 17" size. However, where reduction is not practical to ensure readability, fold larger drawings separately and place in vinyl envelopes which are bound into the binder. Identify vinyl envelopes with drawing numbers.

D. Provide CADDFILE versions of all vendor or Contractor generated drawings in AutoCad 12 readable format.

4.03 DESCRIPTION

A. Prepare Operation and Maintenance Manuals to include, but are not necessarily limited to, the following detailed information, as applicable:

1. Equipment function, normal operating characteristics, limiting operations.
2. Assembly, disassembly, installation, alignment, adjustment, and checking instructions.
3. Operating instructions for start-up, routine and normal operation, regulation and control, shutdown, and emergency conditions.
4. Lubrication and maintenance instructions.
5. Guide to "troubleshooting."
6. Parts list and predicted life of parts subject to wear.
7. Outline, cross-section, and assembly drawings; engineering data; and electrical diagrams, including elementary diagrams, wiring diagrams, connection diagrams, word description of wiring diagrams and interconnection diagrams.
8. Test data and performance curves.
9. A list of recommended spare parts with a price list and a list of spare parts provided under these specifications.
10. Copies of installation instructions, parts lists or other documents packed with equipment when delivered.
11. Instrumentation or tag numbers relating the equipment back to the Contract Documents.
12. For equipment items involving components or subunits, an Equipment Record Sheet for each operating component or subunit is required.

END OF SECTION

SPECIFICATIONS

SECTION 16100 BASIC MATERIALS AND METHODS

SECTION 1.00 GENERAL

1.01 DESCRIPTION OF WORK

A. The work consists of furnishing all labor, materials and equipment required for electrical work shown on the drawings and as further described in these specifications.

1.02 RELATED SECTIONS

Section 16010 - Electrical General

1.03 INTENT OF DRAWINGS AND SPECIFICATIONS

A. The drawings are partly diagrammatic and do not necessarily show the physical arrangements of the conduit and equipment unless specifically dimensioned. Diagrams are schematic only and shall not be used for obtaining quantities or lineal runs of conduit.

1.04 EXCAVATION AND BACKFILL

A. Perform all necessary excavation for buried conduits and conductors.

B. No backfilling shall be done until all direct burial cables, conduits and penetrations to be covered have been inspected and approved.

1.05 RECORD DRAWINGS

A. At the completion of construction, the Contractor shall provide one set of marked "as-builts" drawings to the Engineer showing the location of buried conduits and all changes or deviations from the original drawings.

SECTION 2.00 PRODUCTS

2.01 QUALITY OF MATERIALS

A. All Contract materials shall be new, of proven quality, without imperfections and blemishes. All material not specifically detailed in this specification required to accomplish the completion of this Contract shall be of compatible quality to the items specified and be approved by the Engineer. All materials shall be products of manufacturers regularly engaged in production of such equipment and shall be of the manufacturer's latest design. Where two (2) or more units of the same classes of equipment are required, these units shall be of the same manufacturer. All material and

SPECIFICATIONS

equipment shall be per NEMA, ANSI, IEEE or ICEA Standards as applicable, except as modified by these specifications. All material shall be UL labeled as applicable.

2.02 RACEWAYS

- A. All raceways shall be UL approved for the application.
- B. Rigid steel conduit: Provide zinc-coated rigid steel conduit conforming to Federal Specification WW-C-581.
- C. PVC Coated Rigid Galvanized Steel Conduit: Rigid galvanized steel conduit with external PVC coating approximately .040" thick coating: conform to NEMA RNI-1974, Type A. Provide fittings with PVC coating as above.
- D. Flexible metallic conduit: Provide liquid tight flexible conduit, zinc-coated steel core, extruded gray PVC cover, UL approved, Sealtite type "UA" or Liqueatite type "LA", or equal. Where permitted by local inspection authority, sizes larger than 3-inch shall be Sealtite type "EF", or Liqueatite type "LT", or equal.
- E. Rigid PVC conduit: Provide rigid polyvinyl chloride (PVC) conduit, schedule 40, UL listed for concrete encased, direct burial underground, and exposed use. Rigid PVC conduit, including couplings, elbows and nipples, shall conform to the requirements of the latest edition of Federal Specification WW-C-1094 and NEC.

2.03 CONDUIT FITTINGS

- A. Provide conduit fittings as follows unless otherwise noted or detailed. Catalog numbers shown are RACO/Appleton Electric Company unless otherwise noted. Similar products of other manufacturers are equally acceptable.

Rigid Conduit Insulating Bushings	-Series 1400//Series BBU
Rigid Conduit Set Screw Fittings	-3010-3022, 3102-3116//Series SRNTC and SNTCC.
Flexible Metallic Conduit Fittings	-Pylets (Pyle-National)//Unilets.
Expansion Joints	-Adalet Type STR//OZ Type AX or TX.

2.04 PULL BOXES

- A. Provide code gauge stainless steel pull boxes rated NEMA 4X as shown on the drawings. Provide removable screw cover on the largest access side of the box unless otherwise detailed. Where cast boxes are indicated or specified, provide conduit entrances with threaded hubs. Provide stainless steel screws at all exterior and damp locations. Where pull boxes are required but not shown, provide pull boxes as specified above sized per NEC requirements.

SPECIFICATIONS

2.05 CONDUCTORS

A. This specification covers all conductors not specified in other sections. All conductors and cable shall conform to UL, Federal Specification J-C-30, or ICEA as applicable. Provide new cable manufactured within one year of installation.

B. 600 volt power, lighting and control cable: Provide stranded copper conductors unless otherwise specified, conforming to Federal Specification J-C-30. For cable type TW or THW, provide insulation conforming to Federal Specification J-C-30, for types THHN or THWN, provide insulation conforming to UL-83. For type RHW and RHH, provide insulation conforming to ICEA S-19081. For type XHHW, provide insulation conforming to ICEA S-66-524. Provide neoprene jacket on RHW-RR type cables in accordance with ICEA S-19-81 specifications.

C. Minimum conductor size: Provide No. 12 AWG minimum branch circuit wire size. Provide No. 14 AWG control circuits unless otherwise specified or required by over-current protection. Provide smaller conductor sizes for specified application where shown on the drawings.

SECTION 3.00 EXECUTION

3.01 CONDUIT INSTALLATION

A. Conduit buried in earth: Install raceways to provide not less than 30 inches cover to finished grade. Pitch to drain away from building; there shall be no trapped runs. Grade trenches and place pipe bedding material to provide uniform trench bottom for raceway support. Buried raceway shall be Schedule 40 PVC as specified.

B. All exposed conduit and conduit installed in the dry well shall be PVC coated rigid galvanized steel conduit. All wall penetrations and stub-outs above grade shall be PVC coated rigid galvanized steel.

(1) Provide flexible metallic conduit connections at all motors and transformers plus other equipment connections subject to vibration. Utilize suitable fittings, keep route neat, at nominal right angles and in conformance with equipment lines.

C. Exposed conduit shall be run in straight lines parallel to column lines, walls or beams. Where conduit is grouped, the bends and fittings shall be installed to present an orderly appearance. Unnecessary bending or crossing shall be avoided.

D. Supports for exposed conduit runs shall be furnished and installed within three (3) feet of each box. Supports shall be secured by means of expansion inserts in concrete.

E. Conduit and fittings shall be properly protected during the construction period against mechanical injury from any cause. Conduit which extends out of floors, walls or slabs shall be boxed or otherwise protected and ends shall be capped with metal pipe plugs.

SPECIFICATIONS

F. Rigid conduit joints and connections shall be made thoroughly watertight and rustproof by means of thread compound which will not insulate the joint. Each threaded joint shall be thoroughly cleaned to remove all the cutting oil before the compound is applied. Running threads will not be allowed. Erickson couplings may be used in dry and exposed locations provided that in wet or exposed locations, they are installed with fixed threaded connection at the top of vertical runs.

G. Size: Use raceways no smaller than 3/4 inch except that 1/2 inch or larger may be used for switch legs; and control circuit wiring specified to be No. 14 wire.

H. Provide stainless steel conduit support strut and straps.

I. Cap or seal all abandoned conduits and unused structure penetrations.

3.02 WIRE AND CABLE INSTALLATION

A. Conduit shall be thoroughly cleaned of all foreign material just prior to pulling the wire or cable. Lubricants shall be compounds specifically prepared for cable pulling and shall not contain petroleum or other products which will affect cable insulation. Lubrications shall be UL approved.

B. Splicing of conductors No. 8 AWG or smaller shall be by pre-insulated spring-pressure connectors, such as "Scotchlok" Types Y, R and B, Ideal "Wingnut" or equal. All uninsulated splices, joints and free ends of conductors shall be covered with rubber and friction tape or high-dielectric strength, plastic tape.

C. Terminal strips in panels shall be identified throughout the equipment utilizing unique numbering systems.

D. Wires terminating on terminal strips shall be tagged with the designation of the terminal strip and the number of the terminal to which they are connected. Wires shall be numbered with nylon or tyvek wire markers at all accessible locations.

E. Wiring diagrams shall show the terminal strips, terminals, and their identifying designations.

F. Installation: Keep all conductors within the allowable tension limits during installation. Lubricants for wire pulling, if used, shall be approved for the insulation and raceway material. Observe cable manufacturer's and industry standard cable bending radius recommendations. Underground conductors shall be pulled from manhole to manhole on equipment.

SPECIFICATIONS

3.03 EQUIPMENT INSTALLATION

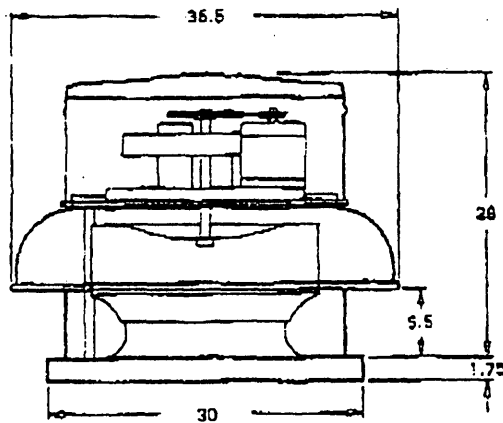
A. Boxes and cabinets shall be installed on the surface level and plumb and affixed to the surface with expansion inserts in concrete and machine screws to tapped holes in metal surfaces.

B. Interconnections between equipment shall be made per manufacturer's wiring diagrams. All wiring shall be clearly labeled and external connections in control panel and remote cabinet brought out to terminal blocks.

MANUFACTURER EQUIPMENT

**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999



GB Belt Drive Centrifugal Roof Exhauster

Standard Construction Features

- A NEMA 1 disconnect switch (Only available on ODP and TE motors)
- Birdgreen • Aluminum curb cap with prepunched mounting hole
- Ball bearing motors • Shock mounts • Corrosion resistant fasteners
- Adjustable motor pulley • Adjustable motor plate • Fan shaft mounted in ball bearing pillow blocks • Static resistant belts.

Options & Accessories Selected

- CSA Approval
- Gravity Damper WD-100 18x18

NOTES : All dimensions shown are in units of inches.

DIMENSIONS

Damper Size (in)	Roof Opening (in)	Approximate Weight (Lb)
18 x 18	20.5 x 20.5	101

PERFORMANCE

Qty.	Model	Volume (CFM)	SP (in WC)	FRPM	Power (BHP)	Motor Information			
						Hp	VIC/P	Enclosure	RPM
1	GB-180-4	1650	0.375	634	0.17	1/4	115/50/1	Open Drip Proof	1725

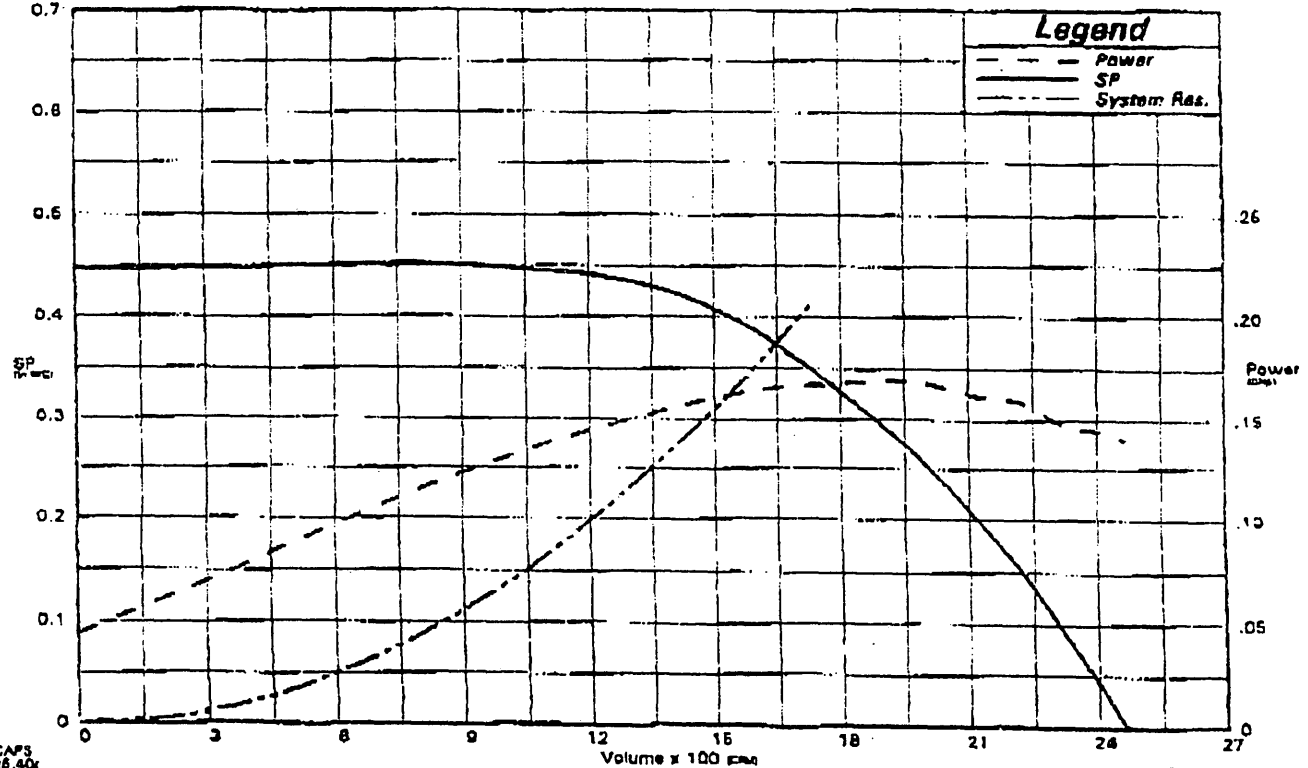
SOUND

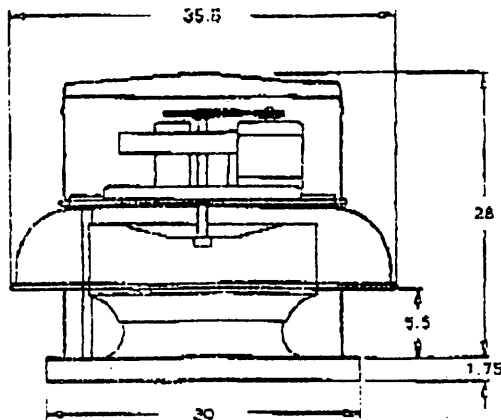
Inlet Sound Power by Octave Band								LWA	dBA	Sones
63	125	250	500	1000	2000	4000	8000			
63	73	62	55	55	51	46	38	62	50	5.9

AIR DENSITY

Elevation (Ft)	Airstream Temp. (F)
0	70

LWA - A weighted sound power level, based on ANSI S1.4. dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 feet. Sones calculated using AMCA 301 at 5 feet.





GB Belt Drive Centrifugal Roof Exhauster

Standard Construction Features

- A NEMA 1 disconnect switch (Only available on ODP and TE motors) with factory installed wiring from the motor to the disconnect box
- Birdscreen • Aluminum curb cap with prepunched mounting hole
- Ball bearing motors • Shock mounts • Corrosion resistant fasteners
- Adjustable motor pulley • Adjustable motor plate • Fan shaft mounted in ball bearing pillow blocks • Static resistant ports

Options & Accessories Selected

- CSA Approval
- Gravity Damper WD-100 18x18

NOTES : All dimensions shown are in units of inches.

DIMENSIONS

Damper Size (in)	Roof Opening (in)	Approximate Weight (Lb)
18 x 18	20.5 x 20.5	101

PERFORMANCE

Qty.	Model	Volume (CFM)	SP (in WC)	FRPM	Power (BHP)	Motor Information			
						Hp	V/C/P	Enclosure	RPM
2	GB-200-5	3251	0.375	734	0.46	1/2	230/60/1	Open Drip Proof	1725/660

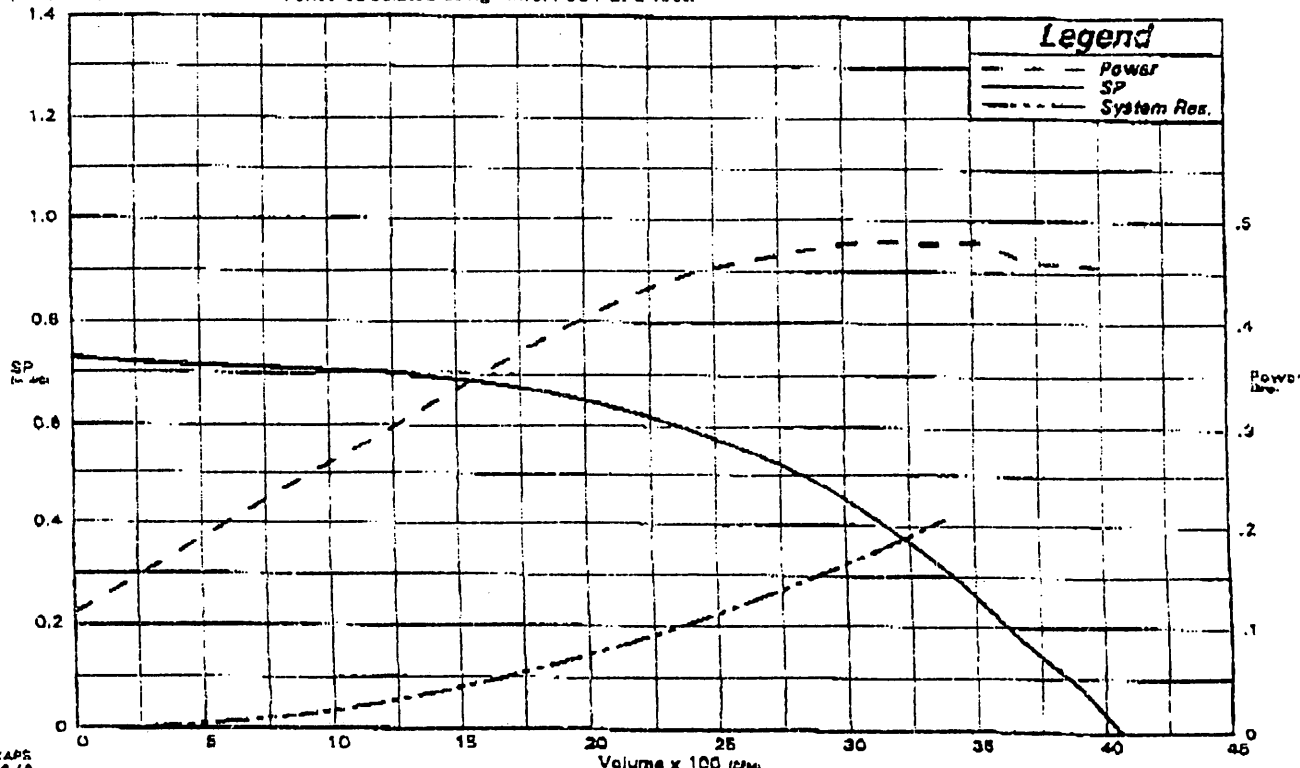
SOUND

Inlet Sound Power by Octave Band								LWA	dBA	Sones
63	125	250	500	1000	2000	4000	8000			
76	79	72	67	60	50	55	48	70	58	9.8

AIR DENSITY

Elevation (Ft)	Airstream Temp. (F)
0	70

LWA - A weighted sound power level, based on ANSI S1.4. dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 feet. Sones calculated using AMCA 301 at 5 feet.



CAPS
v6.10

Revision No. 01.1.01
TOTAL P.03

02 / CENEY

Controlled Environment Vault Cable Seal

For Cable Penetrations of Underground Vaults

Type FSCS-45-CEV

Type FSCS-55-CEV

Cable Sealing Assembly

Use:

- To seal cable penetration of controlled environment vaults
- For use as a future use fitting

Features:

- Cast for durability
- Integral water barrier
- Seals tightened with standard 1/2" wrench
- Easy, craft friendly installation
- Hub with NPT thread
- Withstands 60 ft. head of water pressure without leakage
- Fitting four ways accessible for retrofitting

Materials/Finish:

Sealing Grommet: low compression modulus neoprene
Hex Head Bolts: zinc plated steel
Pressure Discs: steel, PVC coated

Optional Materials/Finish

Pressure Discs - stainless steel, PVC coated
Bolts - galvanized or stainless steel
Sealing grommets available for many sizes of varying sizes

To Order Specify:

- Catalog Number
- Number of Cables
- Maximum Diameter of cable cables (see table)
- Optional Materials (if required)

Cable Sealing Assembly

Consists of:

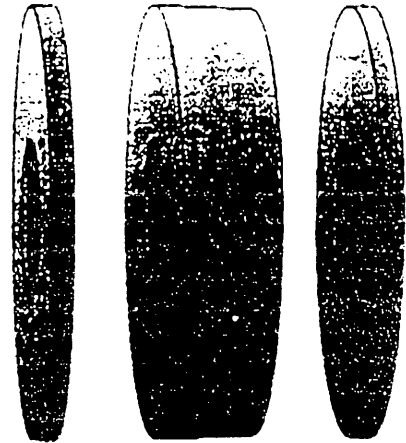
- Two pressure discs drilled to size
- One sealing grommet to fit cable O.D.

Grommet Characteristics:

Neoprene sealing grommets are molded & drilled to accommodate cable outside diameters. The neoprene is specifically compounded for the following very desirable operating characteristics:

1. Low compression modulus (the grommet stays in the hole, doesn't move with low potential forces)
2. Very low compression set (maintain seal over extended period without having to re-tighten)
3. Anti-siphon (no tendency to withdraw or pull out when attached)
4. Low temperature resistance (usable at low temperatures)
5. Non-flammable (will not support combustion)
6. An explosion/shock explosion proof

NOTE: These fittings are intended as replacement and future use devices. They are not for repair.



Cable Sealing Assembly

Catalog Number	Max. Diameter of Cable Permitted - inches				Max. No. Cables
	1 Cable	2 Cables	3 Cables	4 Cables	
FSCS-45-CEV	1.00	1.40	1.70	2.00	4
FSCS-55-CEV	1.00	1.40	1.70	2.00	4

WENCO DISTRIBUTION
3126 KATHRYN ST.
P.O. BOX 722
ALBANY, OR 97321

Recommended inspections

Condition of	Action
Monitoring equipment (to be checked often)	Follow the instructions for monitoring equipment. Note! The Pt 100 transducer may not be connected to a higher voltage than 2.5V. Check: — signals and tripping function. — that relays, lamps, fuses and connections are intact. — that the resistance between 1 and 2 is approximately 1.5 kΩ and it changes to approximately 330 Ω if liquid enters the stator casing. — that the resistance between terminals 3 and 4 is approximately 110 Ω and it increases at higher temperature. — that the circuit between 5 and 6 is closed. The values apply at room temperature (20°C, 68°F). The resistance increases at higher turbine temperature. The position of the leads is shown by the wiring diagram under "Electrical connections". Replace defective equipment.

MONITORING EQUIPMENT

Note! The pump/turbine is equipped with a new type of monitoring equipment. This enclosure replaces all information about monitoring equipment under the following chapters; product description, connection and recommended inspections.

A Speed governor

A speed governor of the inductive transducer type is built into the junction box.

The speed governor equipment trips the generator on overspeed.

B Stator winding temperature

3 thermal switches are incorporated in the coil ends of the stator winding. The contacts open at 155°C (310°F) $\pm 5\%$.

C Temperature of lower bearing

There is a platinum transducer (Pt 100) at the lower bearing for monitoring the bearing temperature.

Resistance at T_{R-1} 20°C (68°F) = 108 Ω $\pm 2\%$.

NOTE! The Pt 100 transducer may not be connected to a higher voltage than 2.5V.

D Leakage in the stator casing

In the lower part of the stator casing there is a detector.

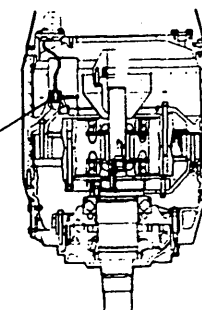
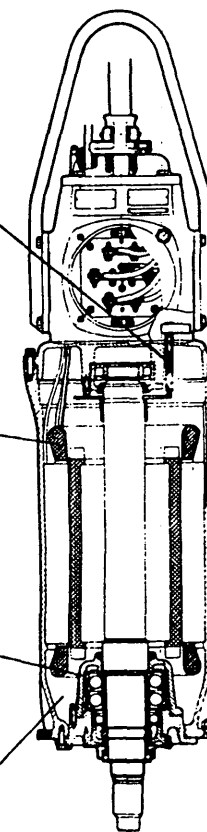
The resistance of the detector changes if liquid penetrates into the stator casing.

Normal resistance $\approx 1.5k\Omega$
Activating alarm resistance $\approx 330\Omega$.

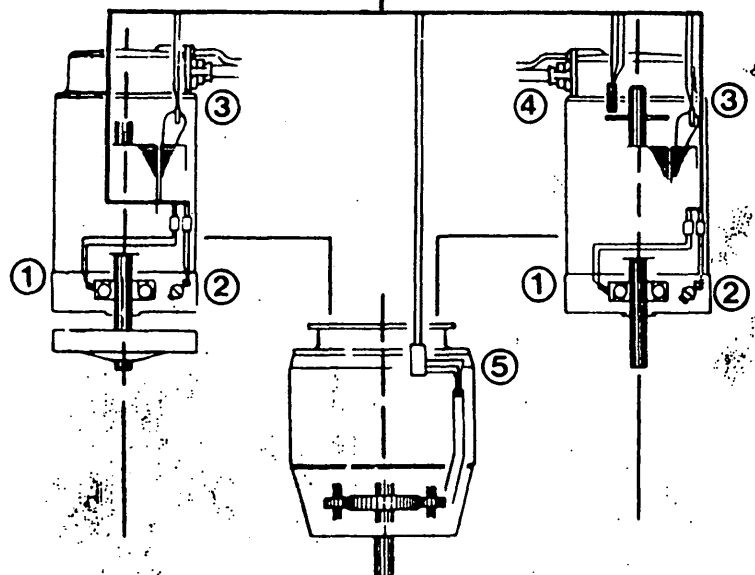
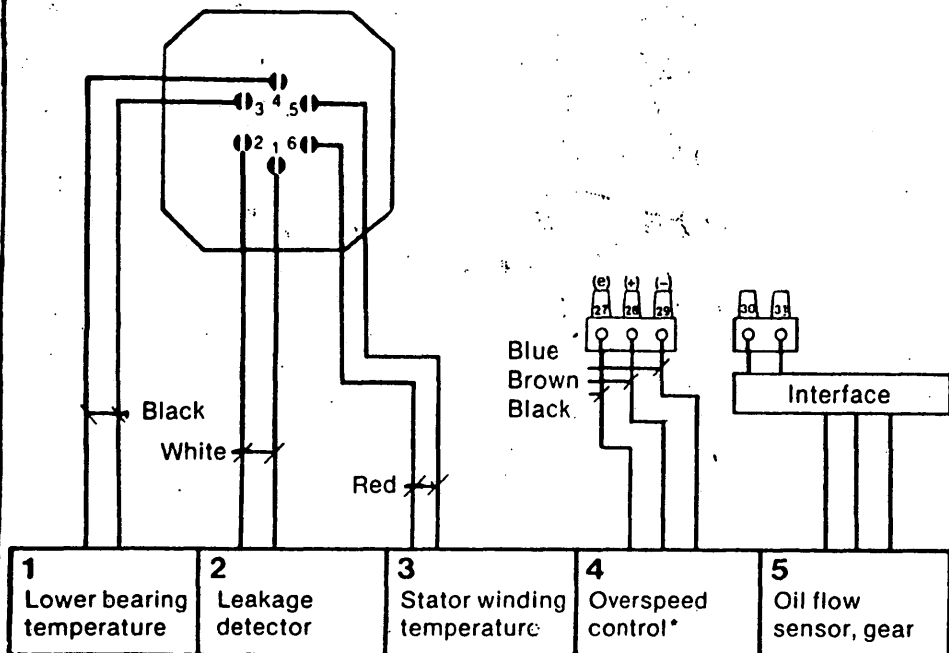
E Oil circulation

An oil flow governor is installed in the upper part of the gearbox. When the turbine is running, oil is pumped via the oil flow governor.

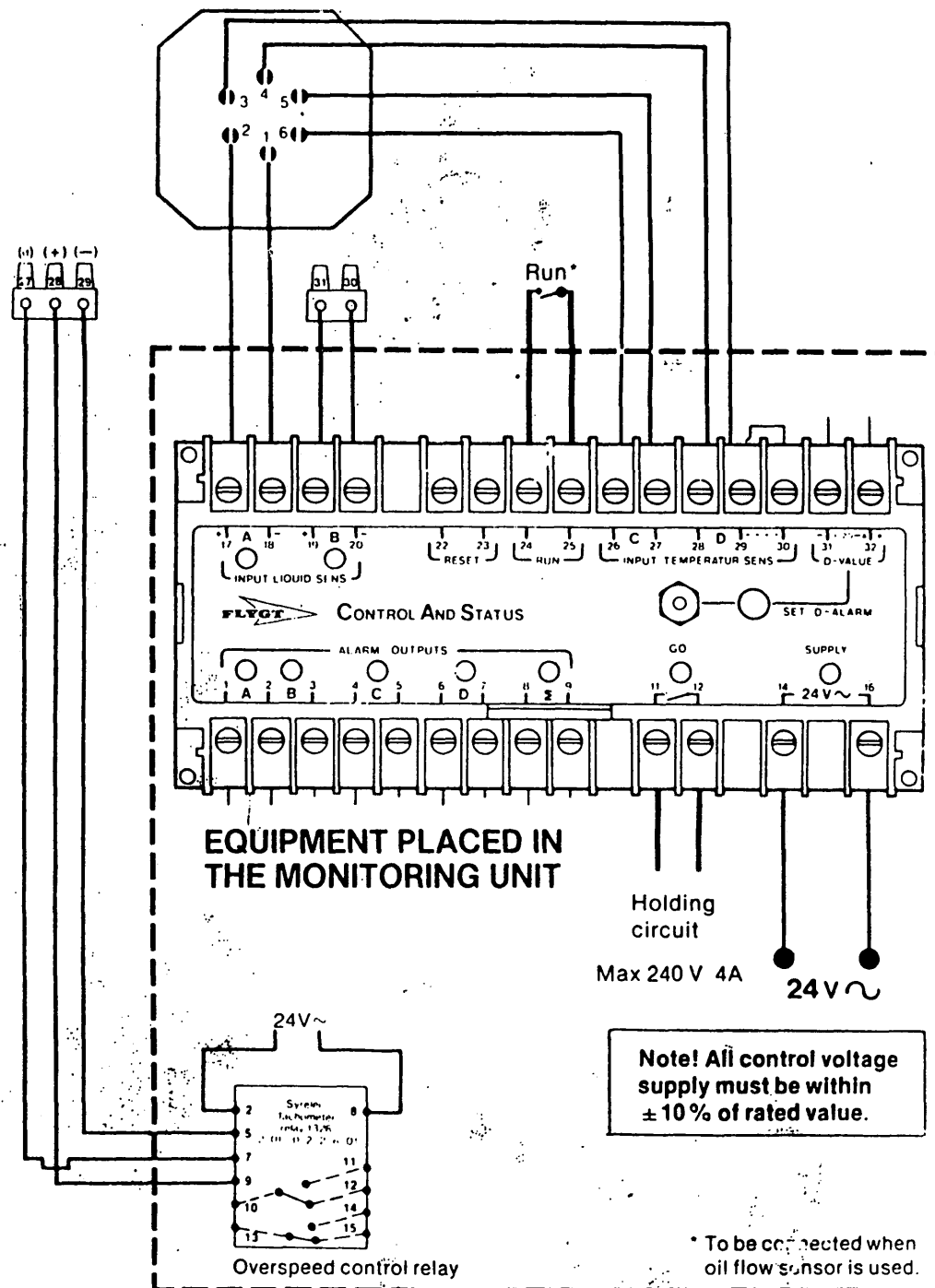
If the oil flow is too small, the turbine is automatically shut off.



CONNECTING THE MONITORING EQUIPMENT



* Turbines only



* To be connected when oil flow sensor is used.

ELECTRICAL CONNECTIONS

The monitoring unit is designed to be installed in a control panel. The unit can be mounted either on a 35 mm symmetric DIN rail, or directly on a mounting plate. The drawing on page 5 shows the positioning of the drill holes for mounting on a flat surface.

The electrical connections shall be made in accordance with the electrical diagram (see also the top of the unit).

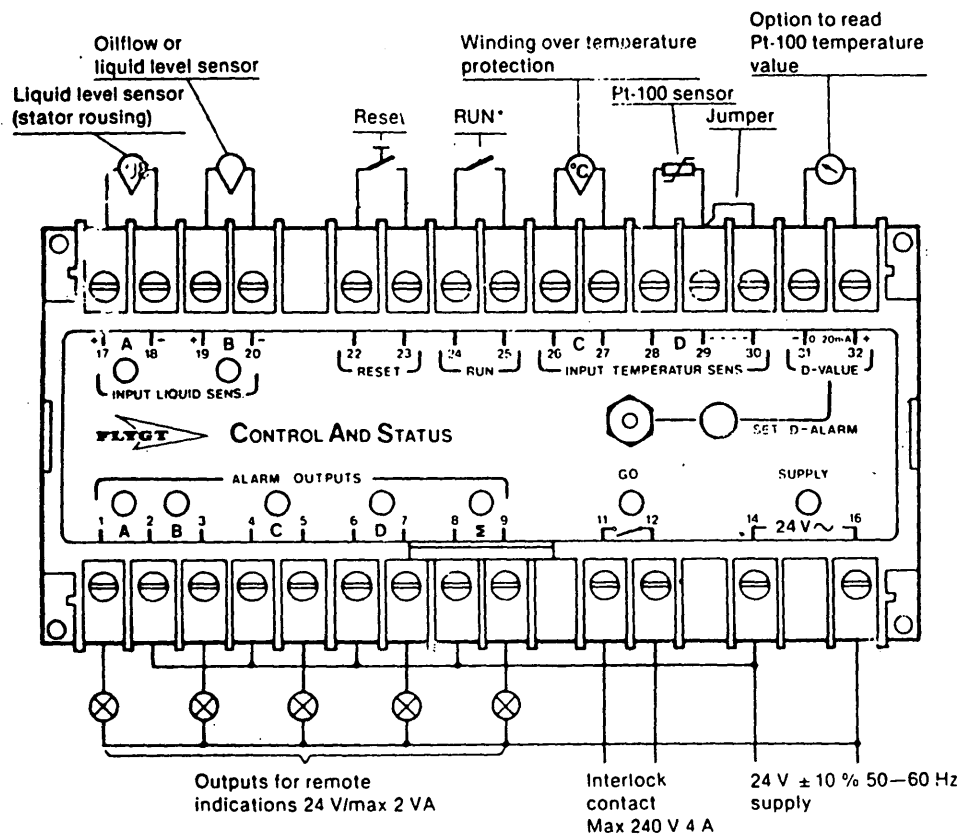
Connect a 24 VAC power source to terminals 14 and 16. Connect a normally open spring switch for reset after alarm between terminals 22 and 23.

Connect the starter's interlock circuit between terminals 11 and 12 so that the pump/turbine is shut off when an alarm is issued.

Connect 29 and 30 with a jumper, except when a 3-lead system for compensation for the resistance of the sensor leads is used.

Check before start that all leads are connected to the right terminals and that the screws are tightened.

Disconnect all connections with voltages higher than 24 V before working on the unit.



* To be connected only when oil pressure is monitored

TECHNICAL DATA

Supply voltage	24 V $\pm$ 10 % 50—60 Hz
Power consumption	Ca 5 VA
Dimensions mm (in)	(B $\times$ H $\times$ D) 150 $\times$ 70 $\times$ 112 (5.9 $\times$ 2.75 $\times$ 4.4)
Temperature range	0°C — + 50°C (32°F — 122°F). Max 80 %

Channel A

Voltage to detector	12 V
Alarm	20 mA $> I < 40$ mA
Output alarm	Solid state relay 24 VAC 100 mA

Channel B

Voltage to detector	12 V
Alarm	20 mA $> I < 30$ mA
Output alarm	Solid state relay 24 VAC 100 mA

Channel C

Alarm	$R \geq 3$ k Ω
Output alarm	Solid state relay 24 VAC 100 mA
Reset	Manual when $R < 900$ Ω

Channel D

Alarm	$R > R_{set}$
Output alarm	Solid state relay 24 VAC 100 mA
Output	0—20 mA range 50°C—150°C (122°F—302°F) (0.2 mA/°C $\pm$ 2.5 %)

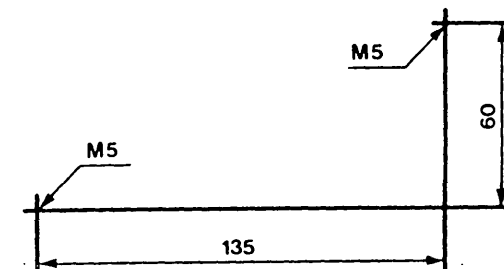
Σ -alarm

Alarm	Activated by alarm from each individual
Output alarm	Solid state relay 24 VAC 100 mA.

Interlock

Alarm	Activated by alarm and supply failure
Function	Normally closed
Breaking capacity	240 V 4 A at $\cos \varphi = 1$

Drilling instruction



SECTION	MODEL	C-3311
6	3311	
SUPERSEDES	ISSUED	
2/88	6/90	Electrical Data

MOTOR DATA

RATED OUTPUT POWER HP (KW)	MOTOR DRIVE UNIT (Motor no.)	Ø	VOLTS NOM.	FULL LOAD AMPS	LOCKED ROTOR AMPS	LOCKED ROTOR KVA	LOCKED ROTOR CODE LETTER KVA/HP	RATED INPUT POWER KW	POLES/RPM
134 (100)	820 & 841FM	3	230 460 575	326.0 163.0 130.0	1996.0 998.0 798.0	794.0	G	109	8/890
177 (132)	820 & 841FM	3	460 575	213.0 170.0	1187.0 950.0	945.0	F	142	8/890
200 (150)	820 & 841FM	3	460 575	246.0 197.0	1545.0 1236.0	1229.0	G	161	8/890
248 (185)	820 & 841FM	3	460 575	287.0 230.0	1780.0 1424.0	1417.0	G	201	5/1190
328 (245)	860 & 881FM	3	460 575	385.0 308.0	2390.0 1912.0	1901.0	G	264	6/1185

Pump Motor HP	EFFICIENCY			POWER FACTOR		
	100% LOAD	75% LOAD	50% LOAD	100% LOAD	75% LOAD	50% LOAD
134	92.0	92.0	90.5	0.84	0.79	0.70
177	92.0	92.0	91.5	0.84	0.81	0.73
200	93.0	93.2	92.3	0.82	0.75	0.67
248	92.0	92.0	91.5	0.88	0.86	0.80
328	93.0	93.0	92.5	0.96	0.82	0.74

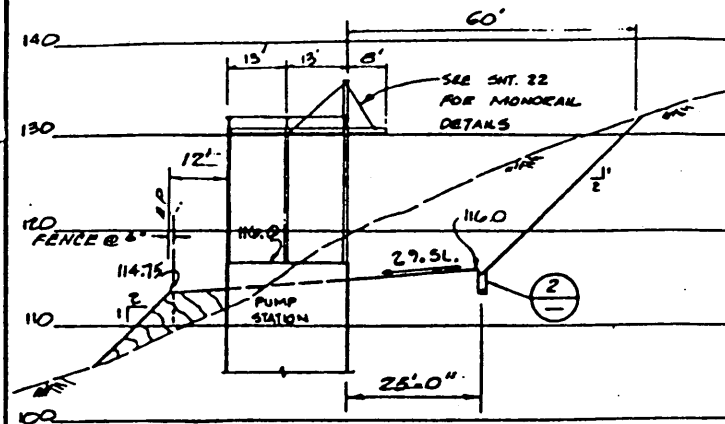
CABLE DATA

HP	VOLTS	MAX. LENGTH FT.	CABLE SIZE	NOMINAL DIA.	CONDUCTORS (IN ONE CABLE)
134	230	250	(2) 4 G 70	47mm (1.85")	(3) 70 (PWR) (1) 70 (GND)
134	460 575	500 785	(1) 4 G 70		
177	460 575	550 855	(2) 4 G 70	47mm (1.85")	(3) 70 (PWR) (1) 70 (GND)
200	460 575	540 850			
248	460 575	460 730			
328	460	500	(2) 4 G 95	58mm (2.2")	(3) 95 (PWR) (1) 95 (GND)
328	575	790	(2) 4 G 70	47mm (1.85")	(3) 70 (PWR) (1) 70 (GND)
134, 177, 200, 248 & 328	—	Pilot Cable	(1) 7G 1.5	16mm (0.63")	(3) 1.5 (CTRL) (1) 1.5 (GND)

FACILITY AS-BUILTS

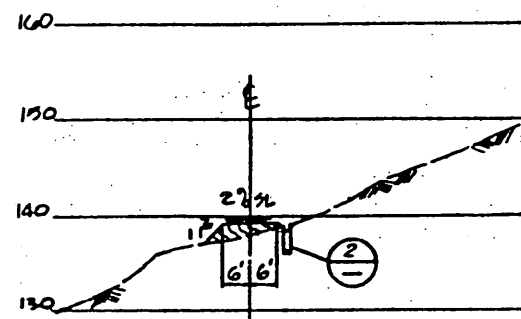
**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999



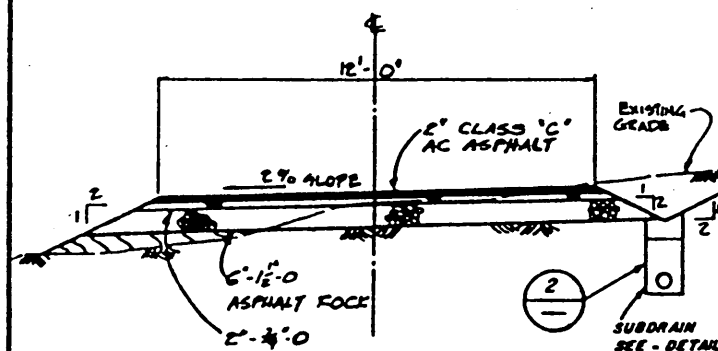
STA 3+25

SCALE:
HORIZ. 1"=20'
VERT. 1"=10'



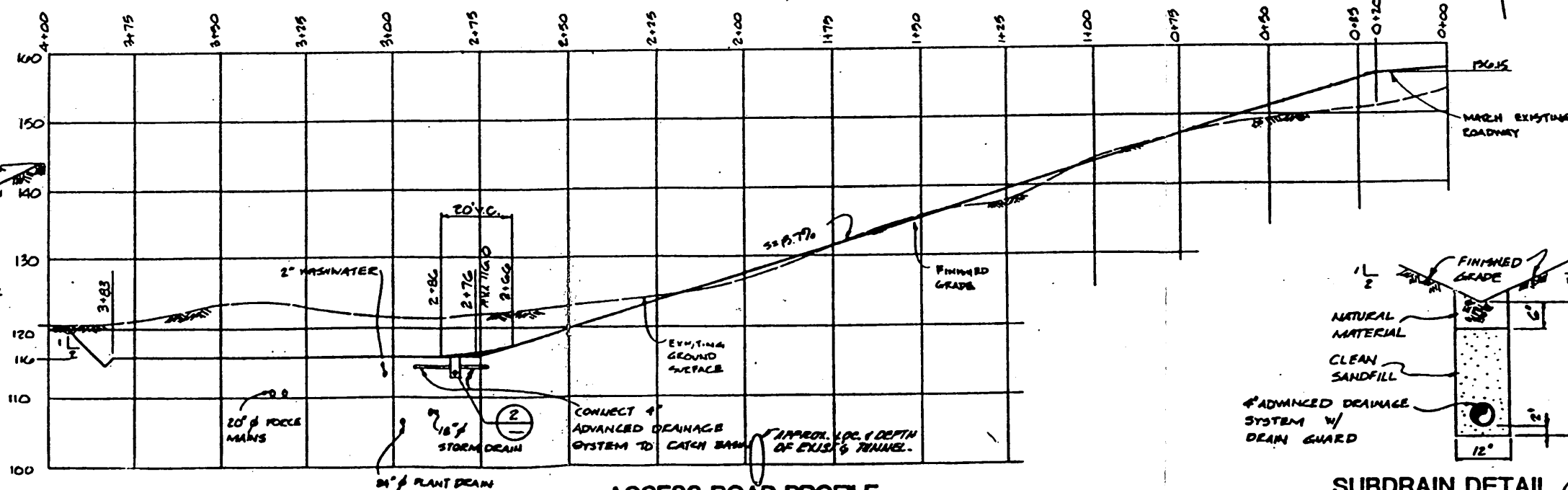
STA 1+25

SCALE:
HORIZ. 1"=20'
VERT. 1"=10'



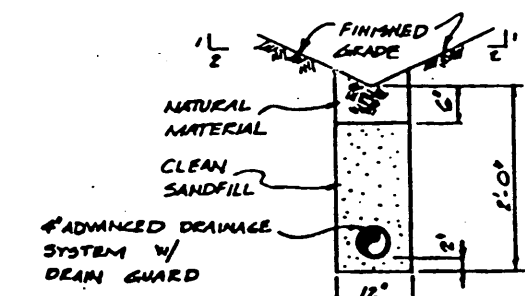
TYPICAL ROAD SECTION

SCALE: 3/8"=1'-0"



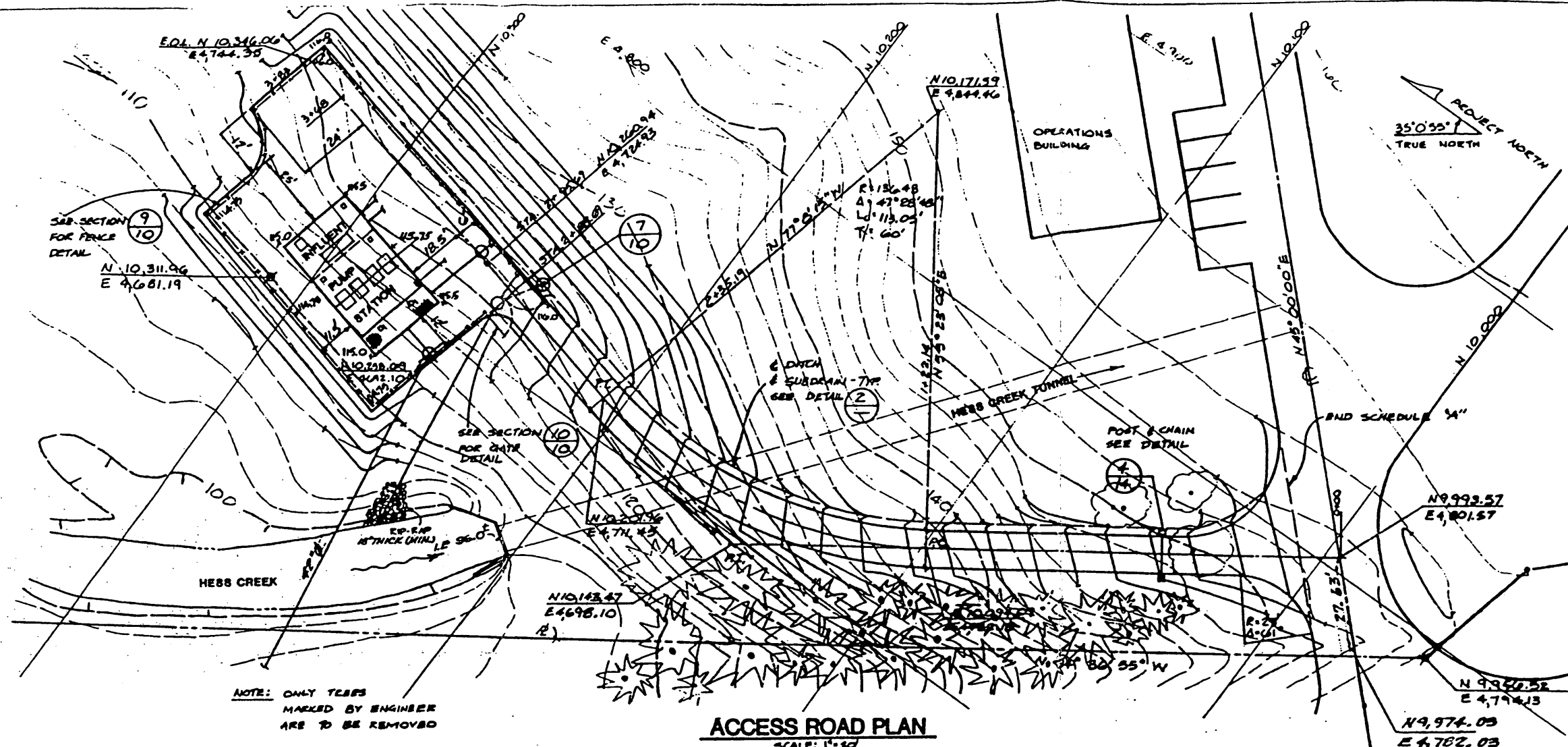
ACCESS ROAD PROFILE

SCALE: 1"=20' HORIZ.
1"=10' VERT.



SUBDRAIN DETAIL

SCALE: 1"=12"



ACCESS ROAD PLAN

SCALE: 1"=20'

KCM

Kramer, Chin & Mayo, Inc.
10 SW Ash Street
Portland, Oregon 97204

DATE 1/26/85	DESIGNED BY HLM
SCALE NOTED	DRAWN BY HLM
	CHECKED BY JUL
	APPROVED BY M.S.

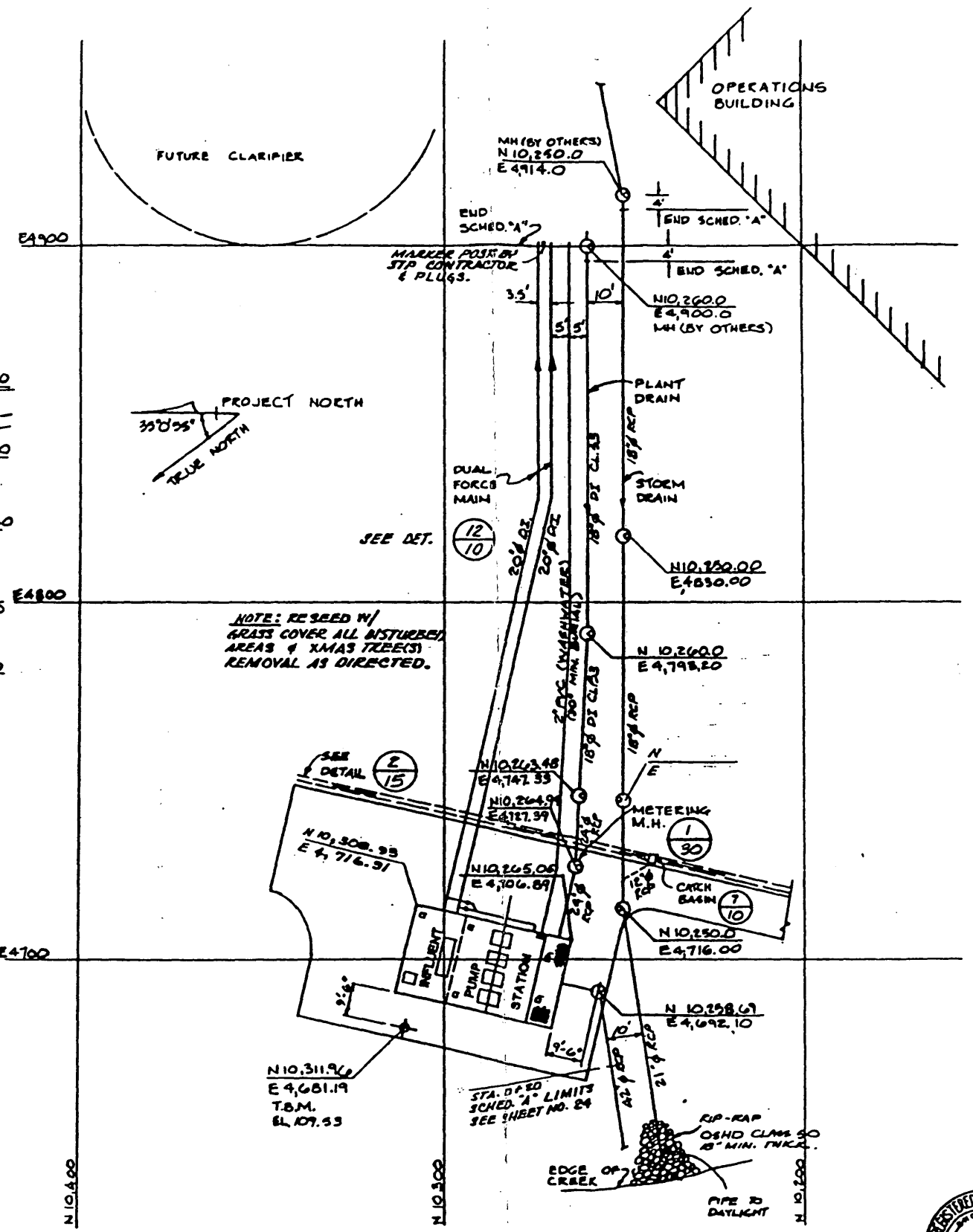
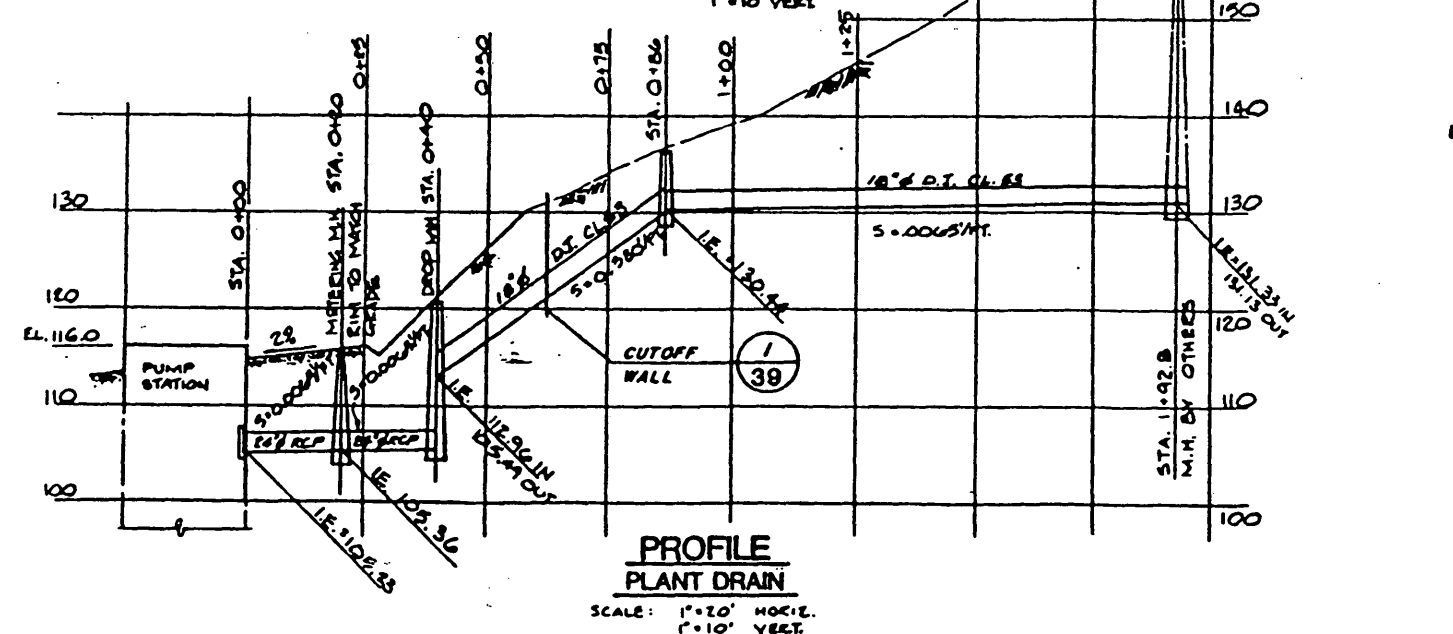
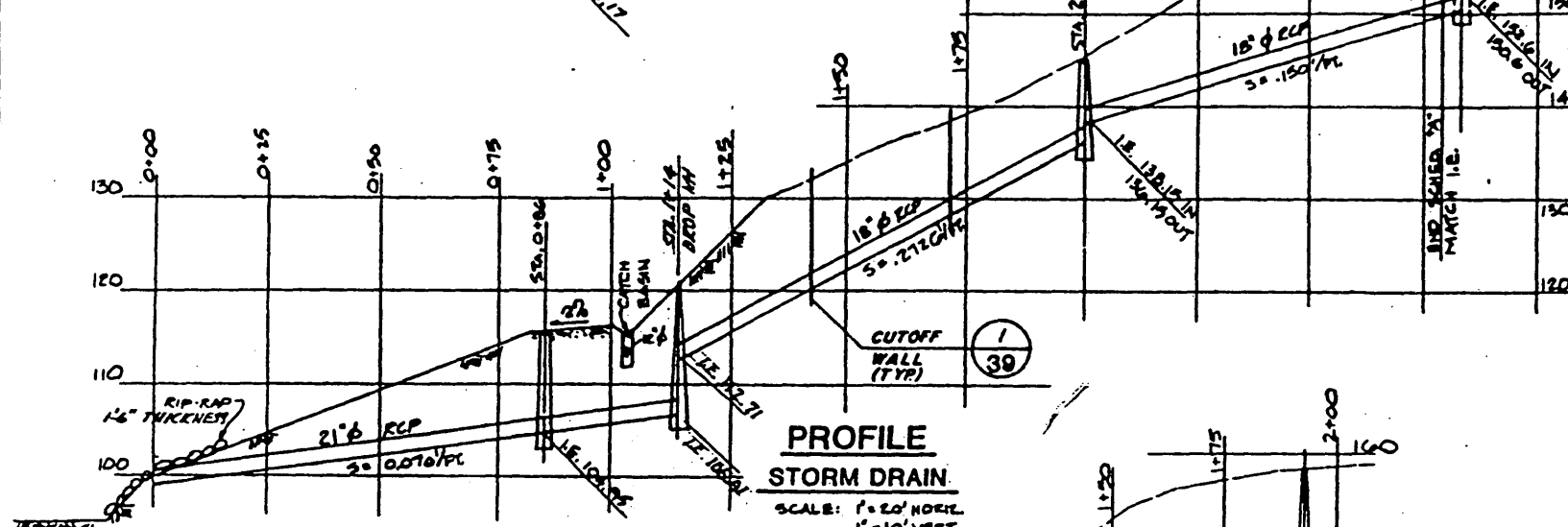
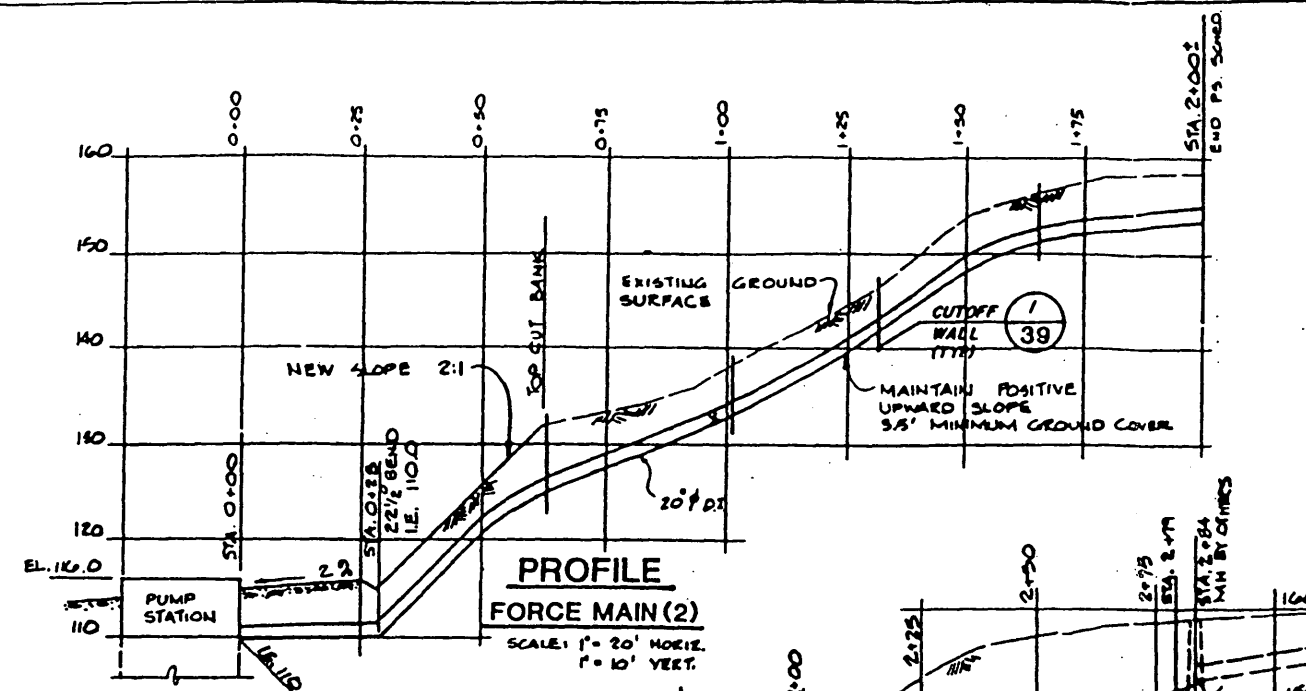


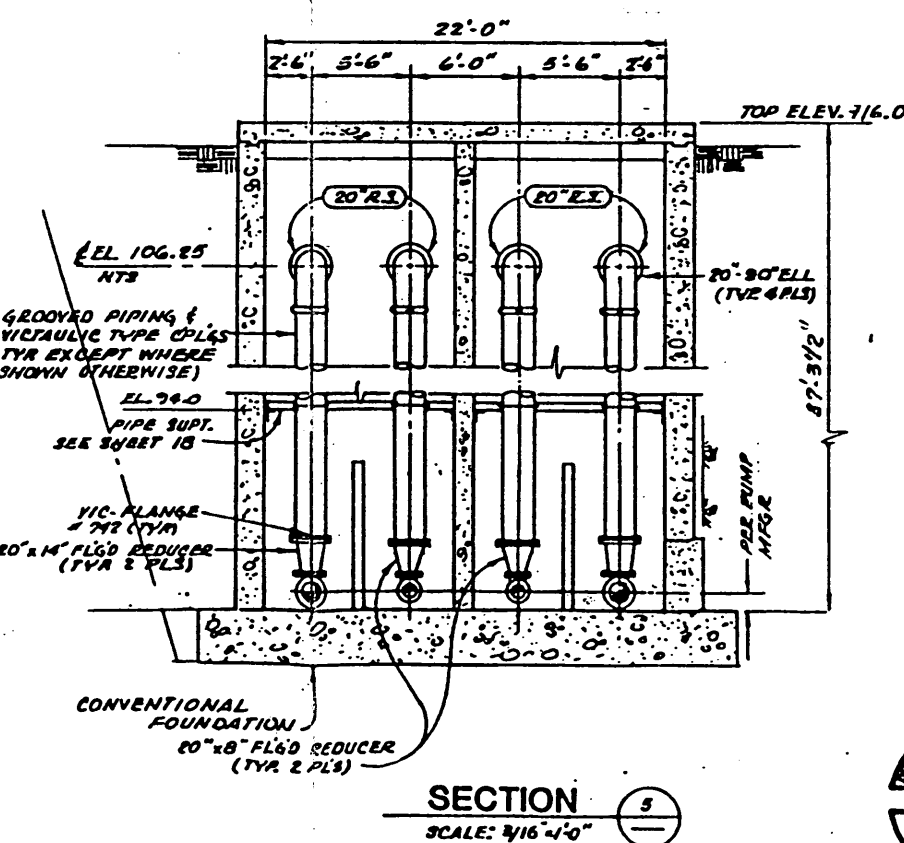
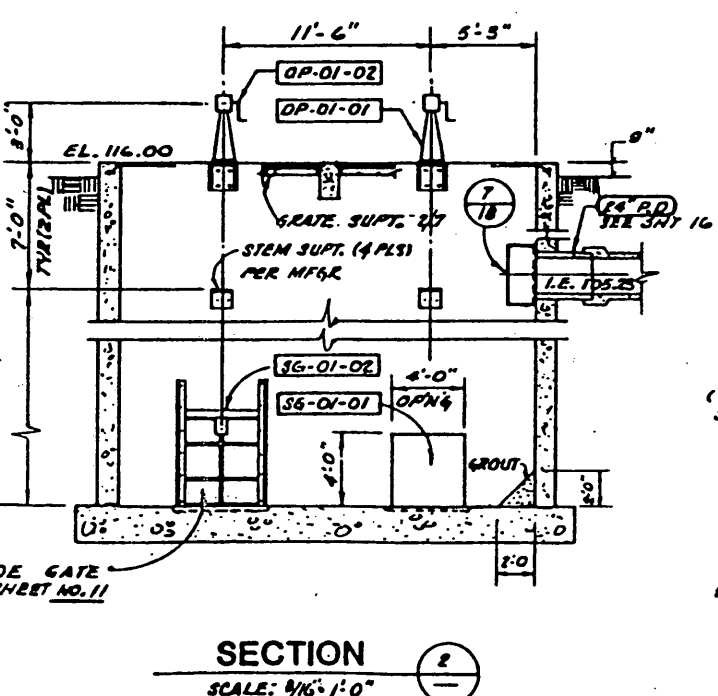
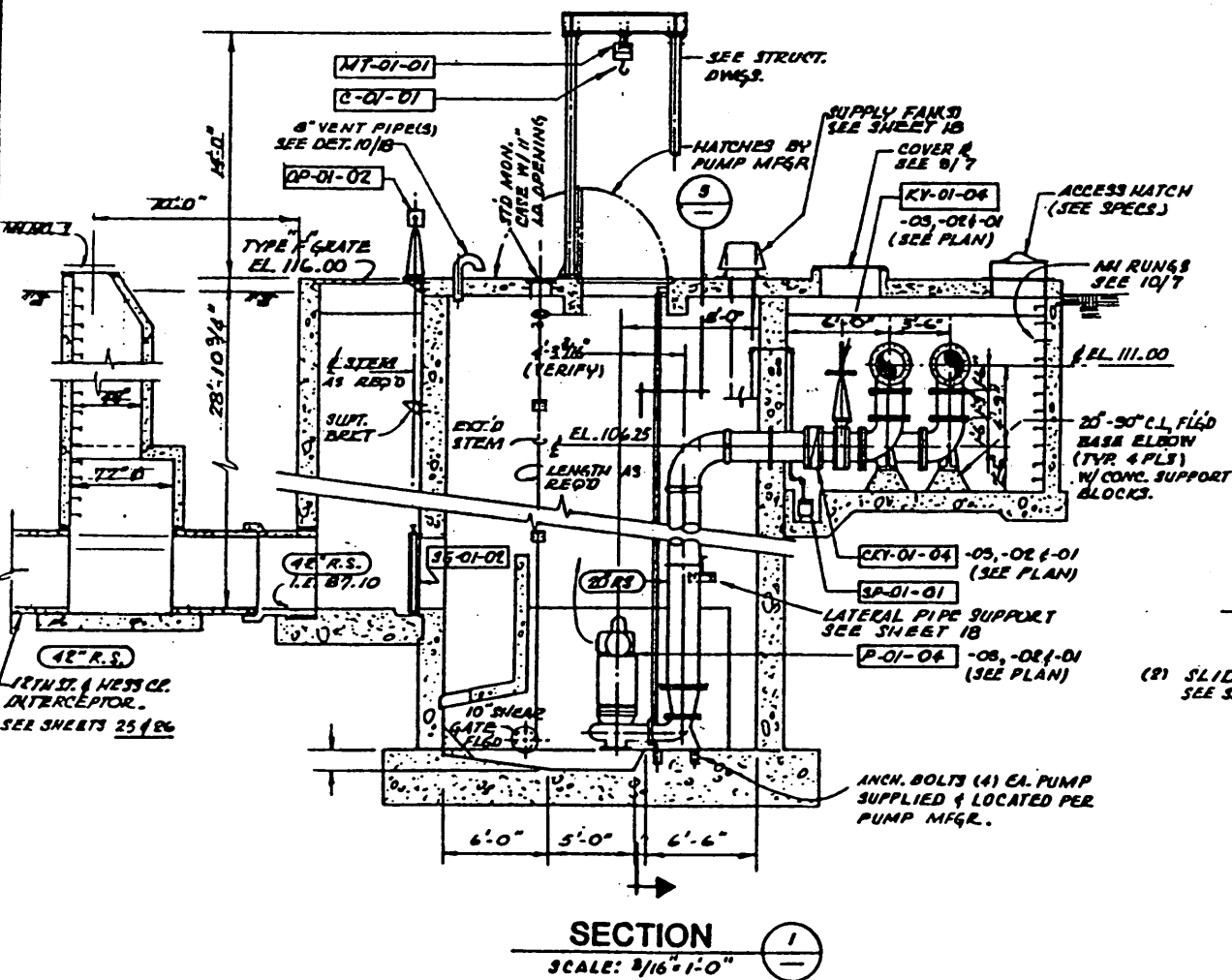
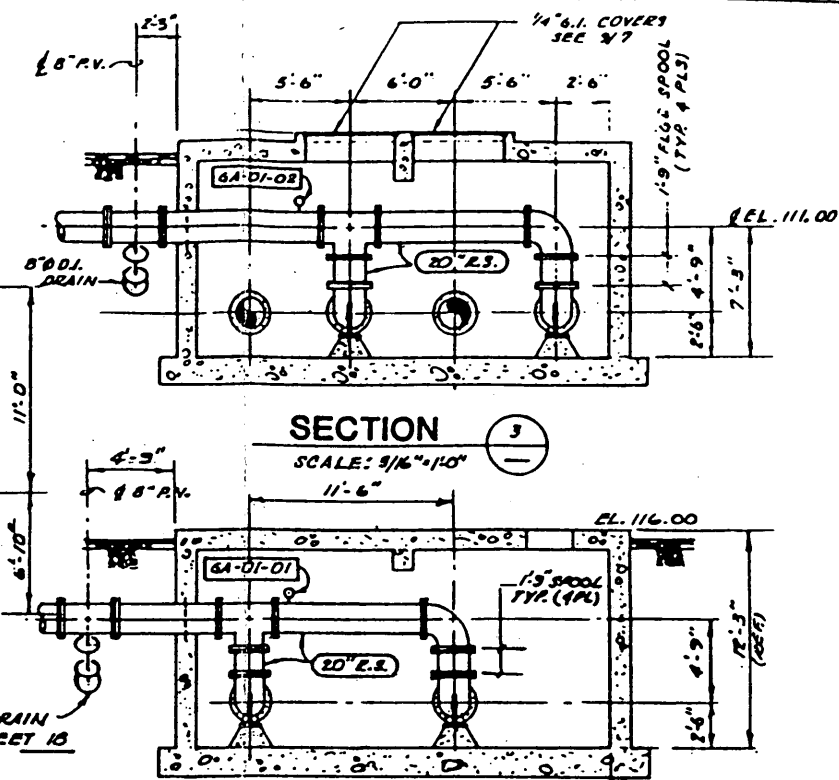
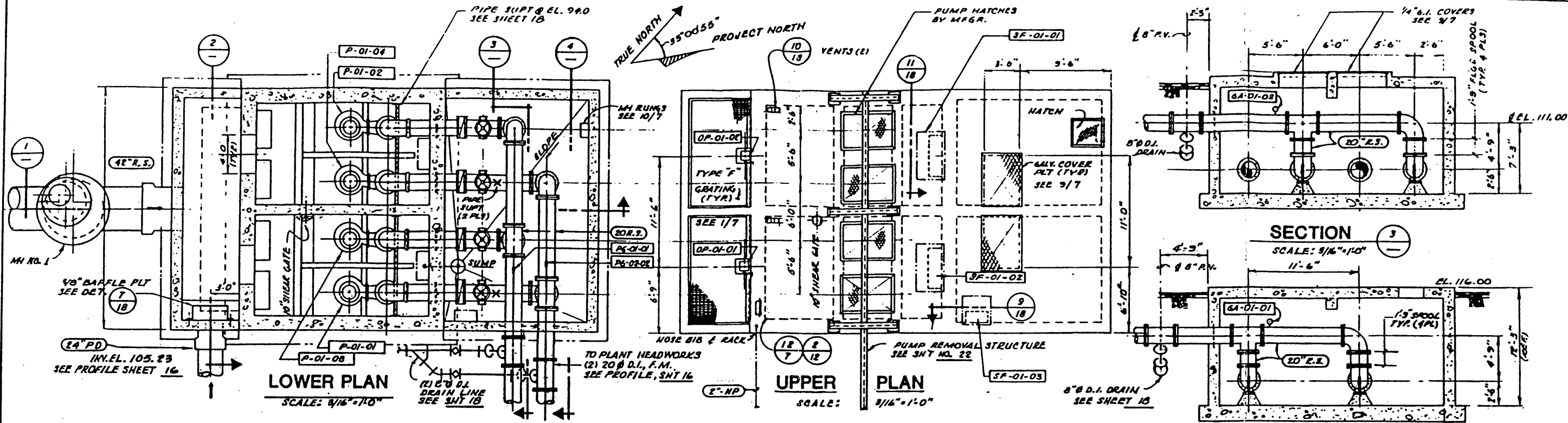
REVISIONS

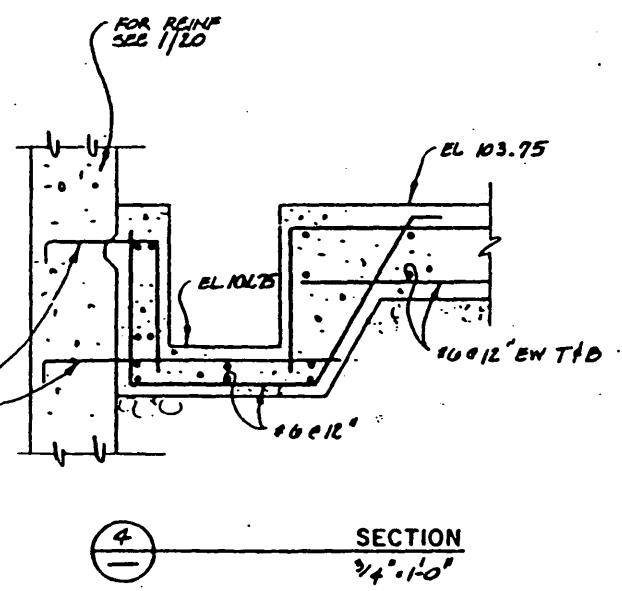
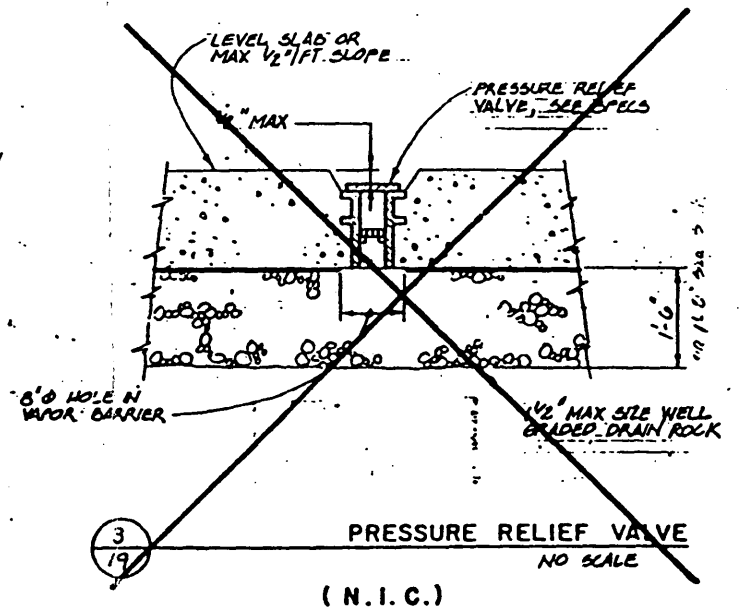
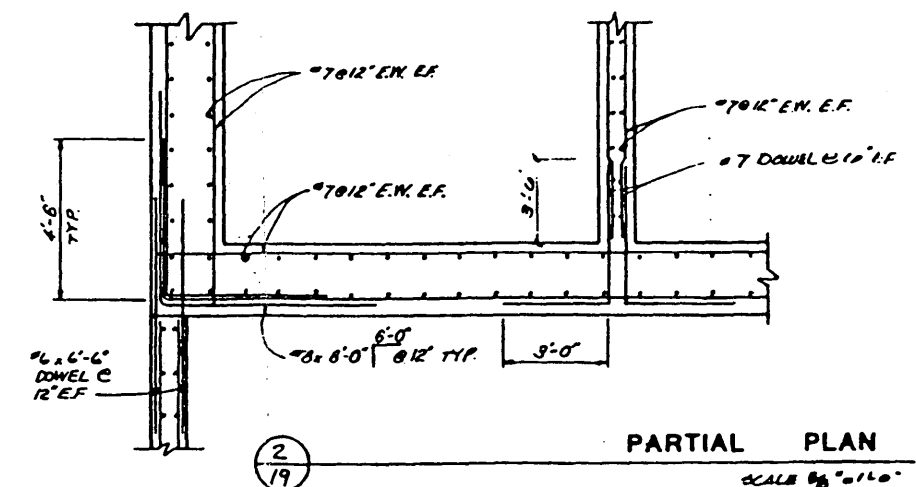
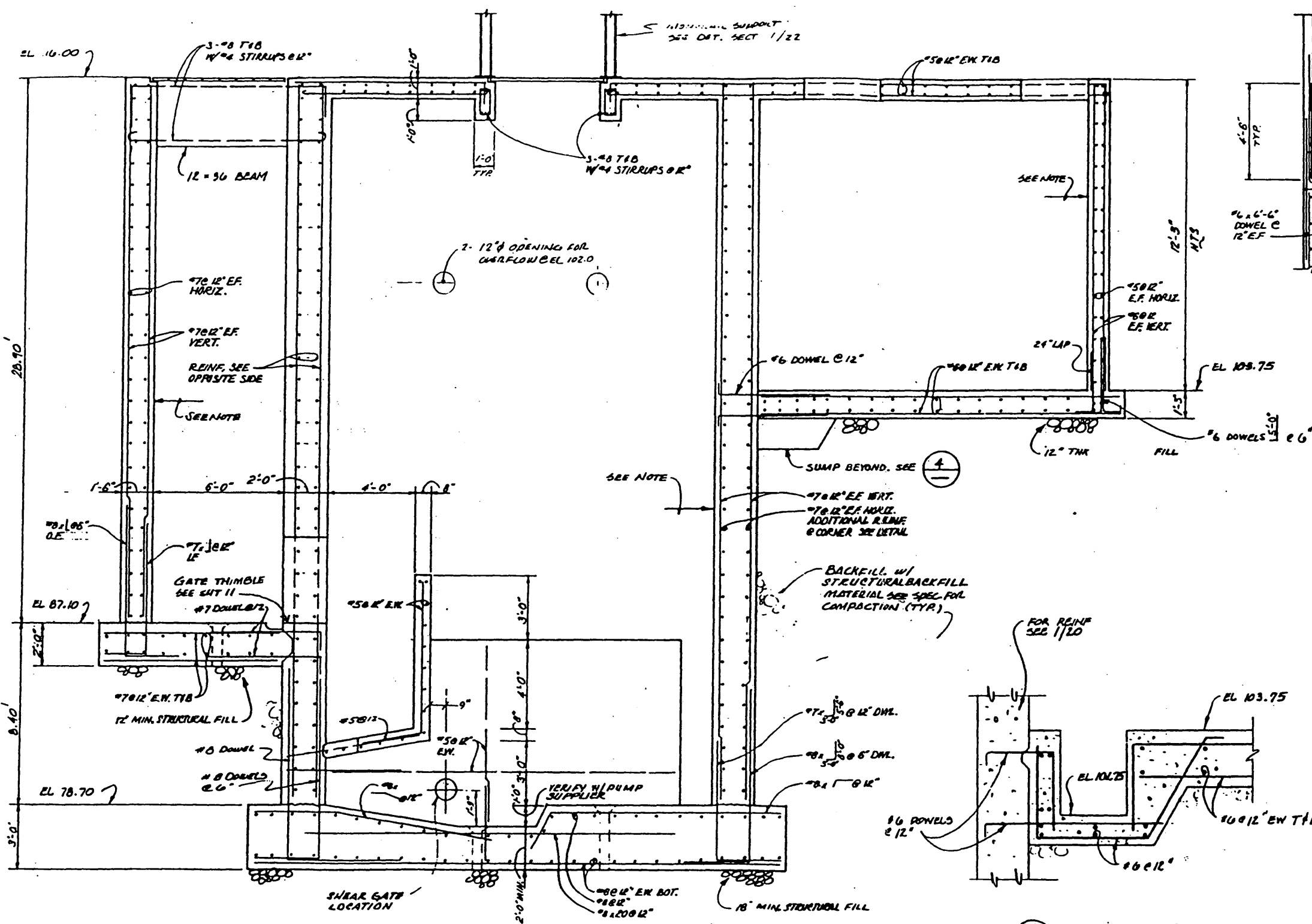
Newberg Sewerage System Improvements

SCHEDULE "A" HESS CREEK INFLUENT WASTEWATER PUMPING STATION
PUMP STATION GRADING PLAN, ROADWAY & CROSS SECTIONS

Drawing number
A - 102
Sheet number
15 of 43



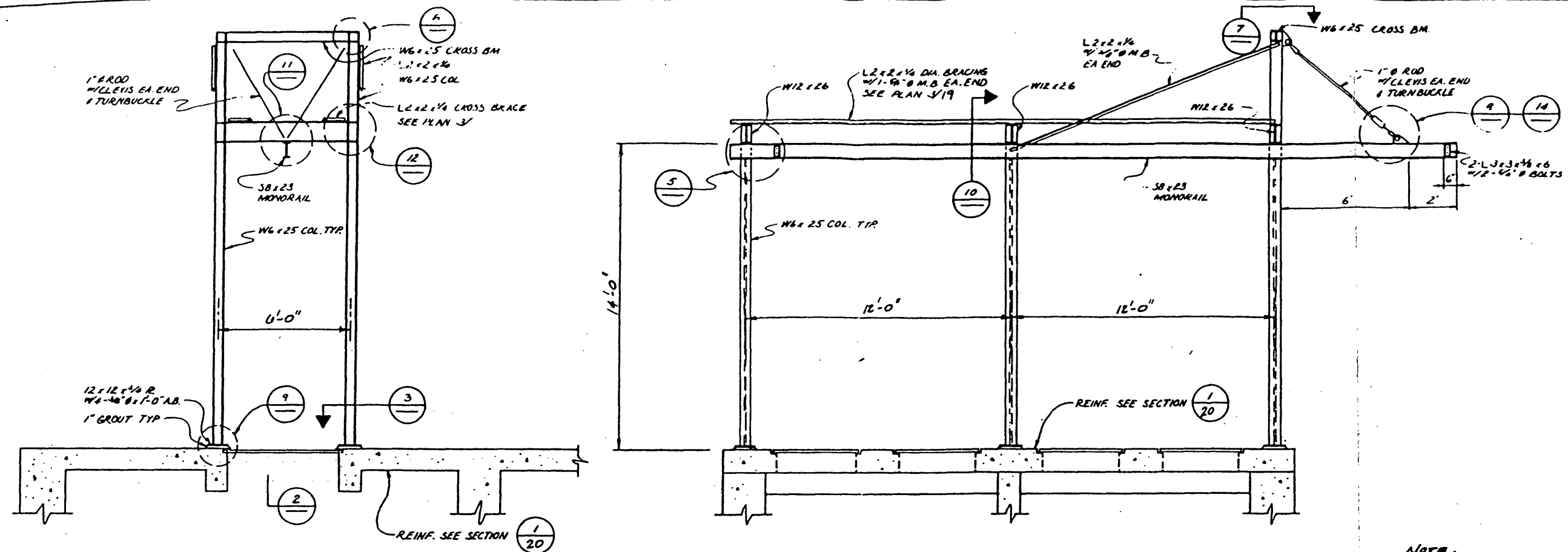




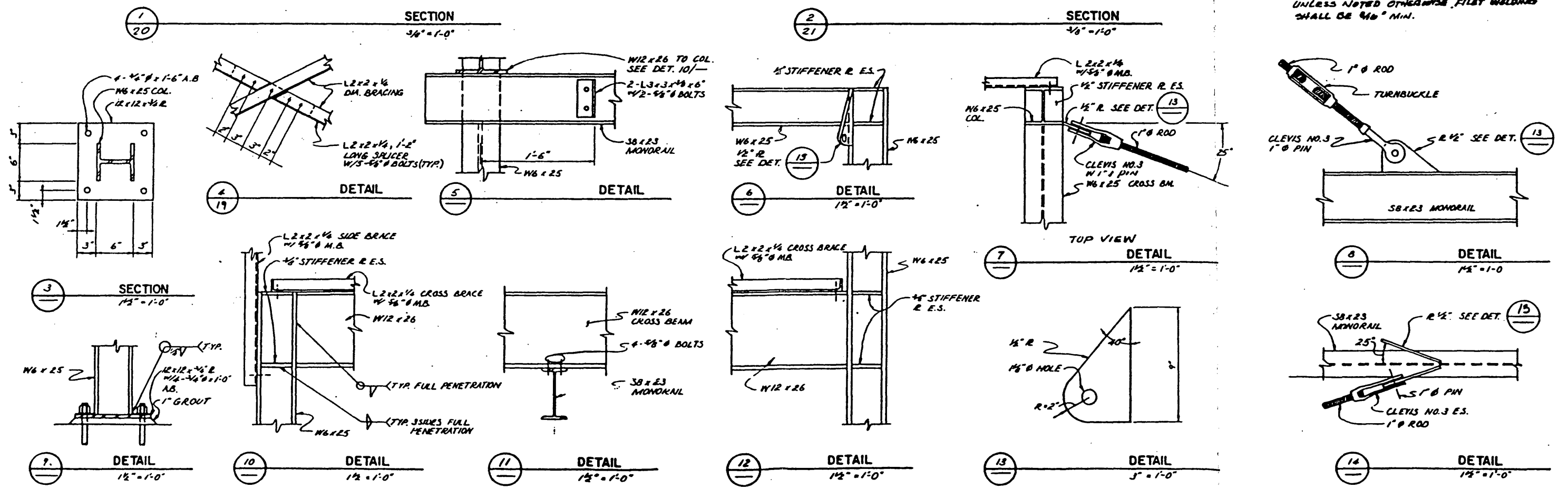
SECTION 1/19
3/4" = 1'-0"

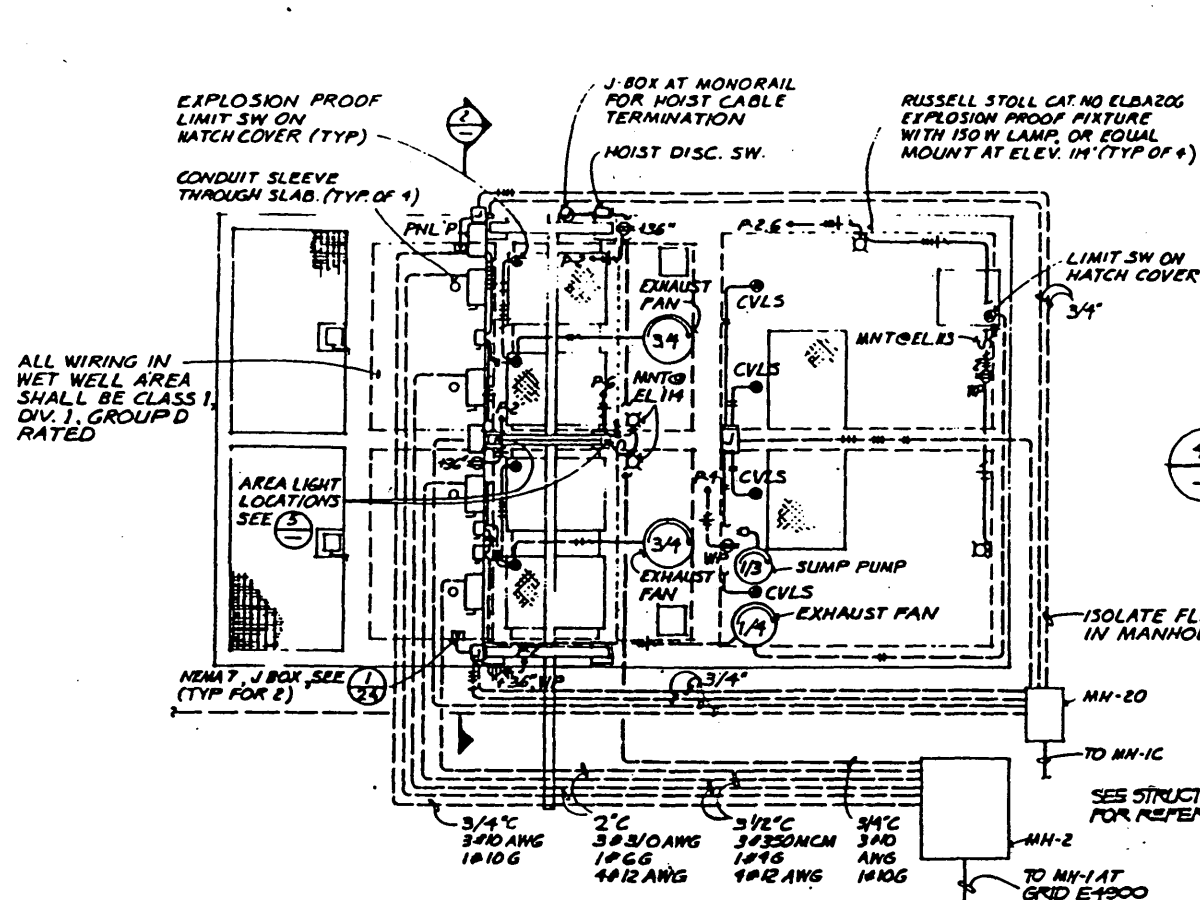
- NOTE:
1. PROVIDE TEMPORARY SHORING DURING BACKFILLING @ OUTSIDE FACE.
 2. SEE MECH. DED. FOR PIPE PENETRATION & OPENING.





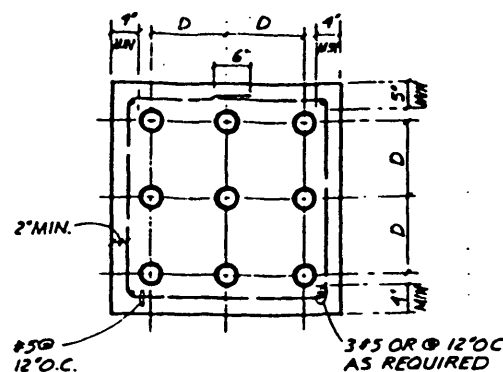
NOTE: UNLESS NOTED OTHERWISE, FIRST WELDING SHALL BE 1/8" MIN.



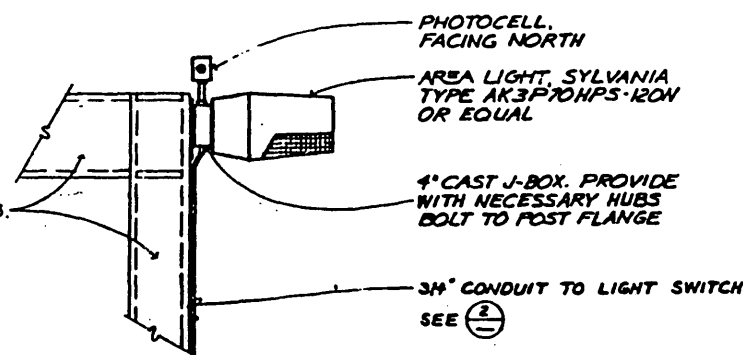


PLAN - ELECTRICAL
SCALE: 3/16" = 1'-0"

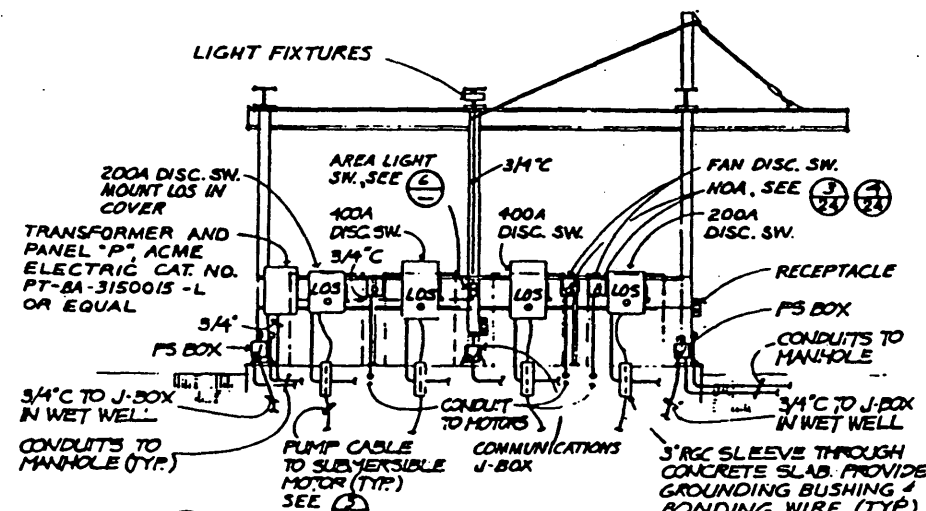
NOTE: PROVIDE WIRE TO MANHOLES ONLY. PROVIDE 10' SPARE FOR EACH CONDUCTOR IN MANHOLES FOR FUTURE SPLICING



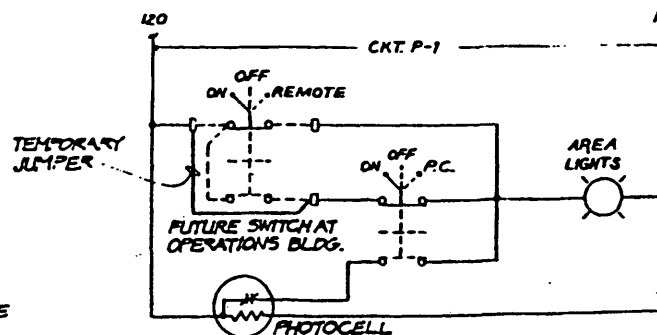
TYPICAL UNDERGROUND CONDUIT DETAIL
NTS



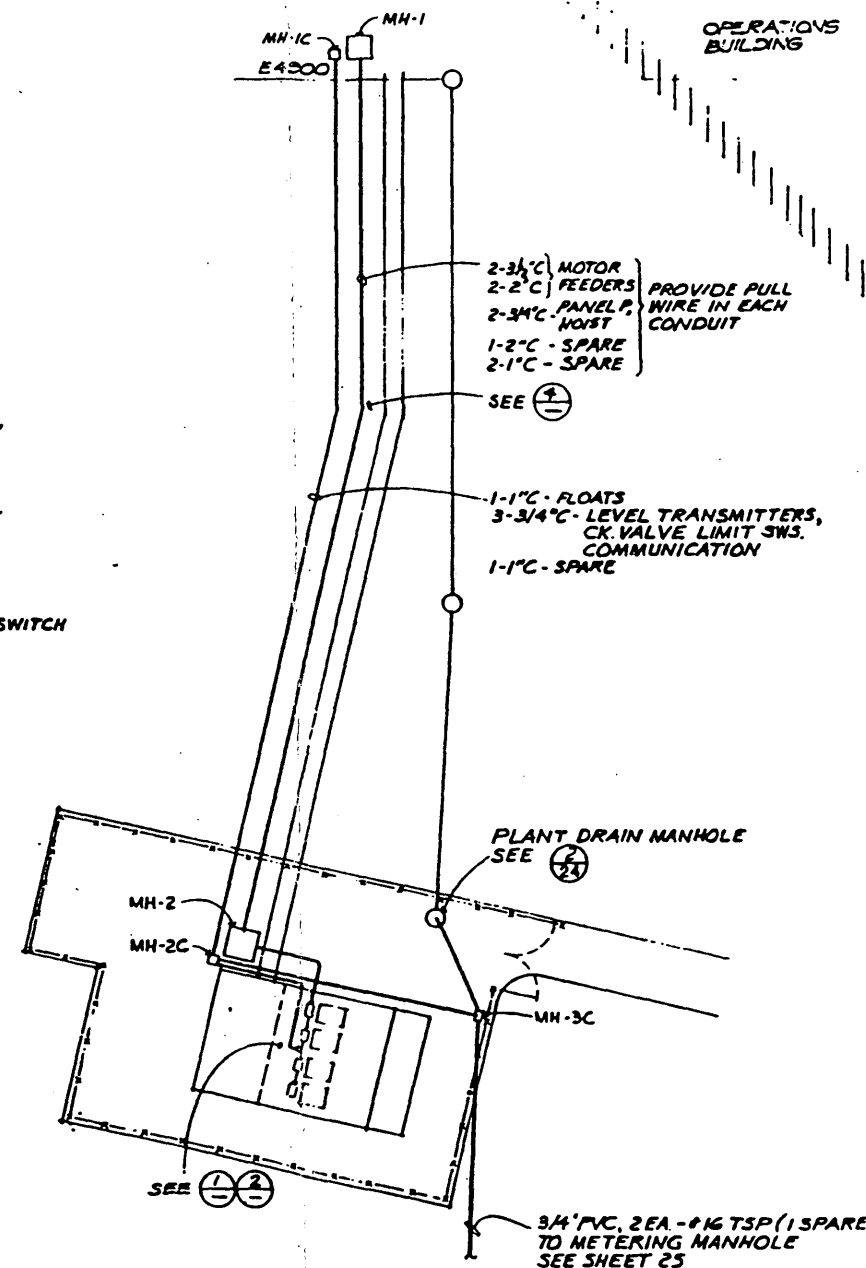
AREA LIGHT DETAIL
NTS



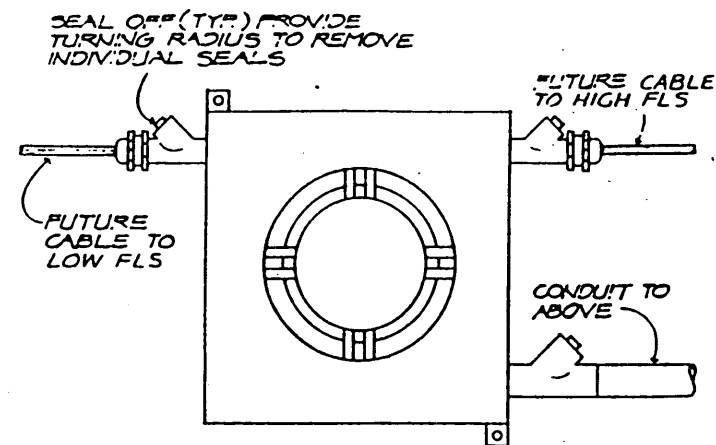
SECTION
NTS



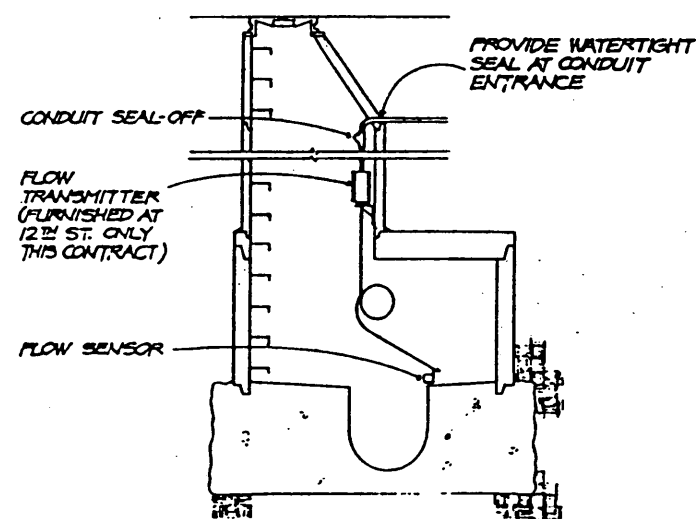
LIGHTING CONTROL SCHEMATIC
NTS



SITE PLAN - ELECTRICAL
SCALE: 1" = 20'



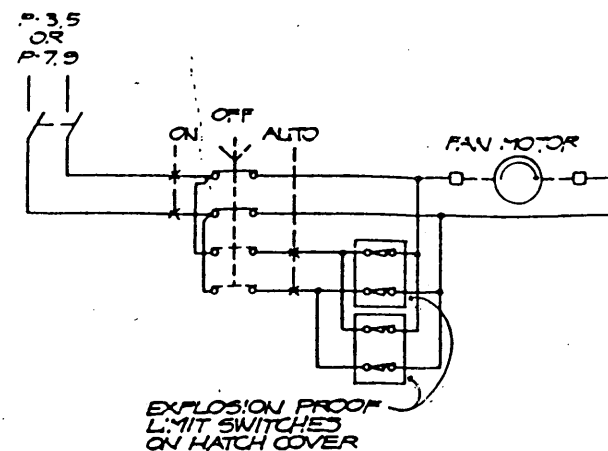
1
24
NEMA 7 J-BOX DETAIL
NTS



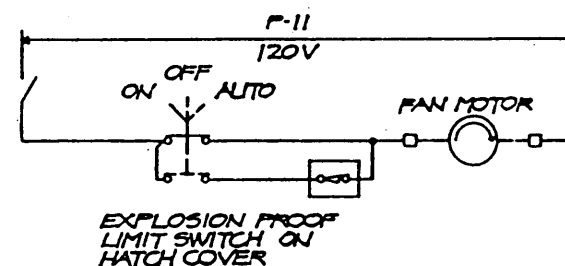
2
23 & 32
METERING MANHOLE ELEVATION
NTS

NOTE

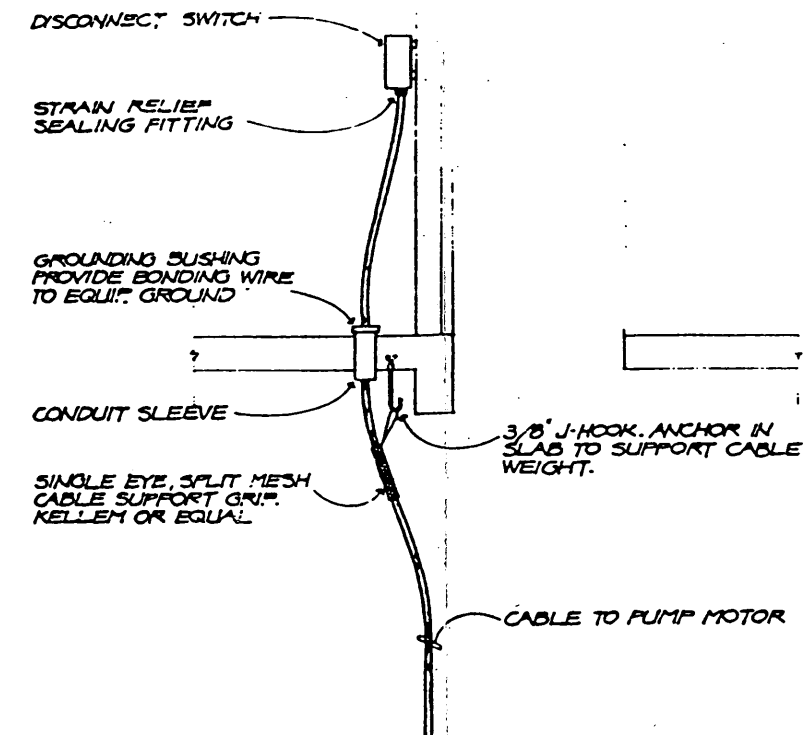
- 1 @ PS. PLANT DRAIN LINE
- 1 @ 12TH ST. INTERCEPTOR
- 1 @ HESS CREEK INTERCEPTOR



3
23
FAN CONTROL SCHEMATIC (TYP. OF 2)
NTS



4
23
VAULT FAN CONTROL SCHEMATIC
NTS



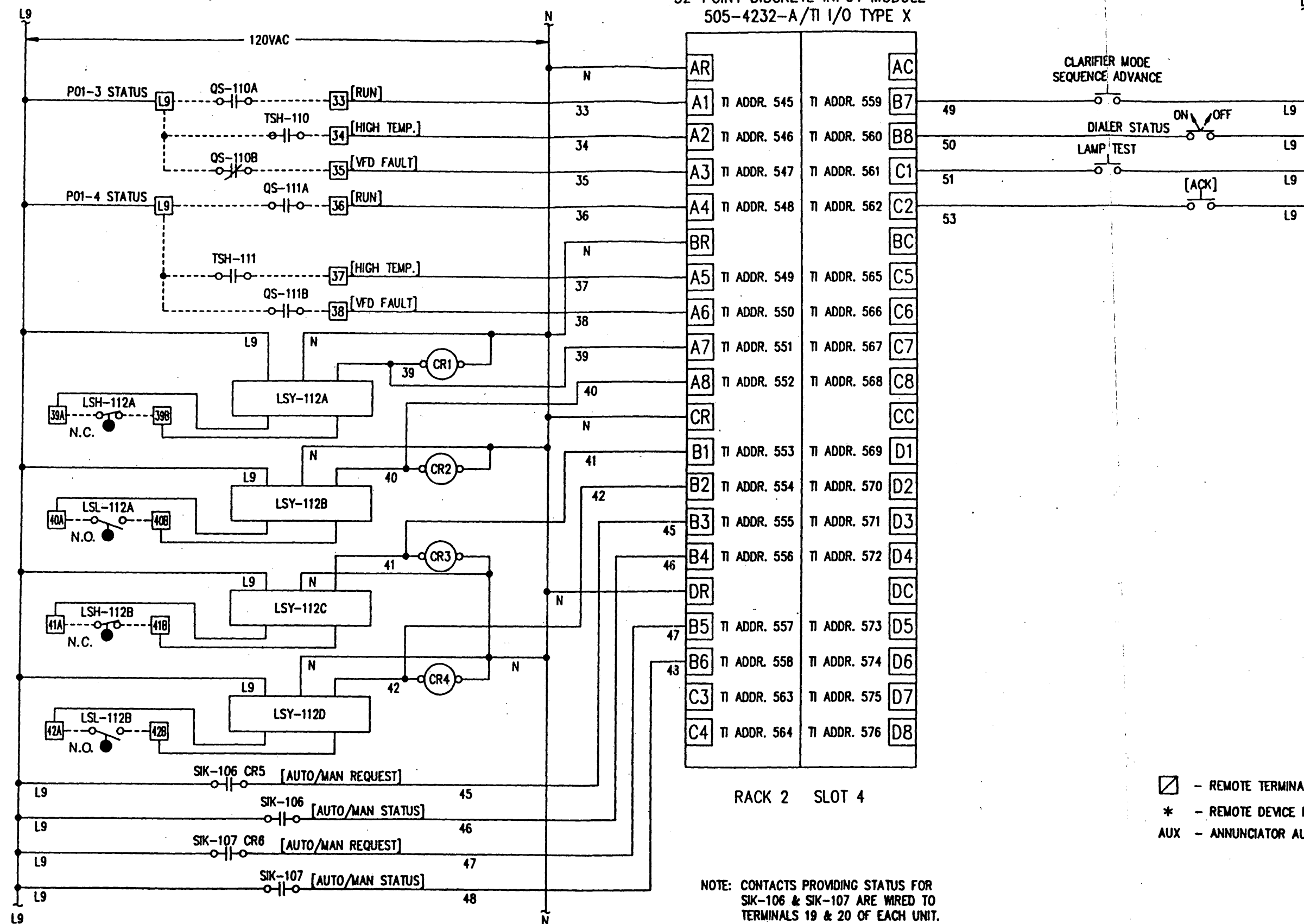
5
24
CABLE SUPPORT DETAIL
NTS

PANEL.....P		BUS.....100 A		VOLTAGE.....120/208, 3 PH, 4W	
FEEDER.....SEE POWER RISEN MAIN BREAKER: 50 A				MOUNTING.....SURFACE	
CIRCUIT NO	CIRCUIT DESCRIPTION	POLES/AMPS	WATTS	PHASE	WATTS
1	AREA LIGHTS	1-20	200	A	600 1-20
2	WET WELL FAN 01	2-20	630	B	600 1-20
3	WET WELL FAN 01	2-20	630	C	600 1-20
7	WET WELL FAN 02	2-20	630	A	0 1-20
9	WET WELL FAN 02	2-20	630	B	0 1-20
11	VALVE VAULT FAN	1-20	700	C	0 1-20
CIRCUIT NO	CIRCUIT DESCRIPTION	POLES/AMPS	WATTS	PHASE	WATTS
1	AREA RECEPTACLES	1			
4	PUMP PUMP	4			
6	WET WELL LIGHTS	6			
8	SPARE	8			
10	SPARE	10			
12	SPARE	12			

CONNECTED LOAD		TOTAL LOAD		NOTES	
LOAD PER PHASE (WATTS)	A	1630	A	1630	1. ACME ELECTRIC CO.
	B	2320	B	2320	CAT NO PP-BA-1124013-L
	C	2120	C	2320	OR EQUAL
LOAD PER PHASE (AMPS)	A	13.58	A	19.33	2.
	B	21.00	B	21.74	3.
	C	17.75	C	19.48	4.
TOTAL LOAD (KW)		6.38		6.81	5.
SPARE CAPACITY		16.00	.63	DATE: 10/21/04	

RAW ENGINEERING INC.
6223 S. W. Canyon Court
Portland, Oregon 97221
Phone: 503/257-5476

32-POINT DISCRETE INPUT MODULE 505-4232-A/TI I/O TYPE X



- - REMOTE TERMINAL BLOCK
- * - REMOTE DEVICE FURNISHED BY OTHERS
- AUX - ANNUNCIATOR AUXILIARY CONTACT

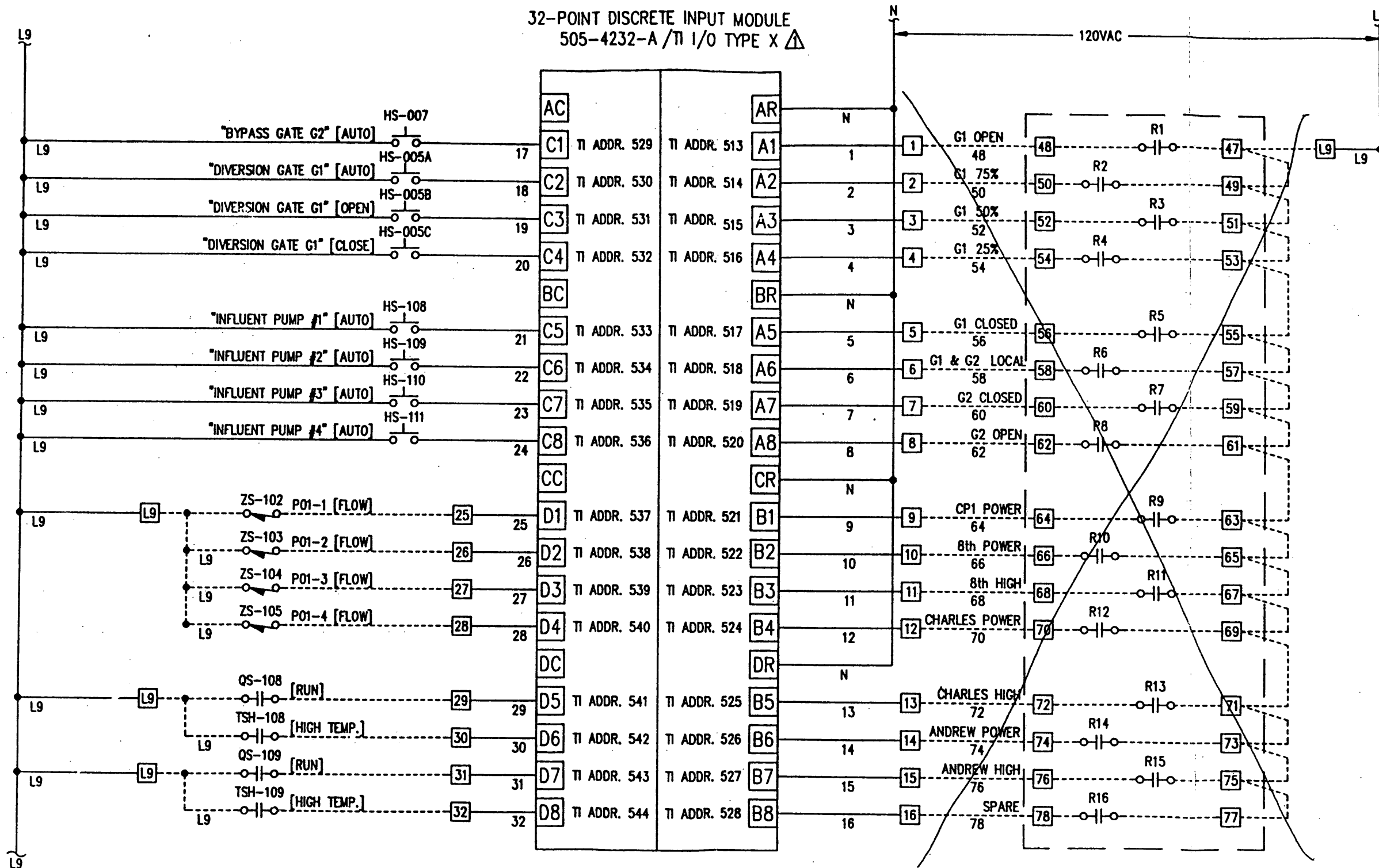
NOTE: CONTACTS PROVIDING STATUS FOR
SIK-106 & SIK-107 ARE WIRED TO
TERMINALS 19 & 20 OF EACH UNIT.

RACK 2 SLOT 4

1/9/97				Des. TB	Proj. NEWBERG WASTEWATER TREATMENT PLANT	PLANT CONTROL PANEL		uniPAC		Date
1				Dm. CJD		CONTROL SCHEMATIC DIAGRAM		UNITED PACIFIC CONTROLS, INC.		8/22/96
AS BUILT				CJD Ck.	Engr. HDR ENGINEERING			410 N.E. 14th P.O. Box 4423 Portland, Oregon 97209		Dwg. No.
Revision				By App.						3496S6

CAD FILE: 3496S6I

32-POINT DISCRETE INPUT MODULE
505-4232-A / TI I/O TYPE X Δ



RACK 2 SLOT 3

NOTE: R1-R16 ARE CONTACTS FROM OWNER
FURNISHED TELEMETRY EQUIPMENT

12/97	2	AS BUILT	Des. TB
11/4/96	Δ	REVISION PER ENGINEER	CJD Dm. CJD
Date	No.	Revision	CJD Ch. <i>[Signature]</i>
			By App. <i>[Signature]</i>

Proj. NEWBERG WASTEWATER TREATMENT PLANT
Engr. HDR ENGINEERING

PLANT CONTROL PANEL
CONTROL SCHEMATIC DIAGRAM

uniPAC
UNITED PACIFIC CONTROLS, INC.
410 N.W. 14th P.O. Box 4423 Portland, Oregon 97209

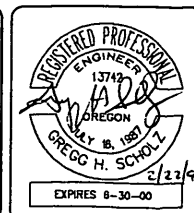
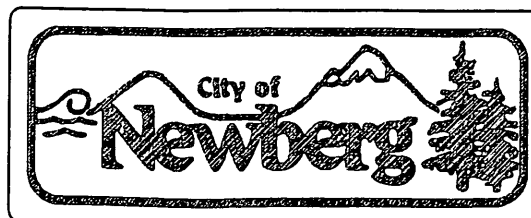
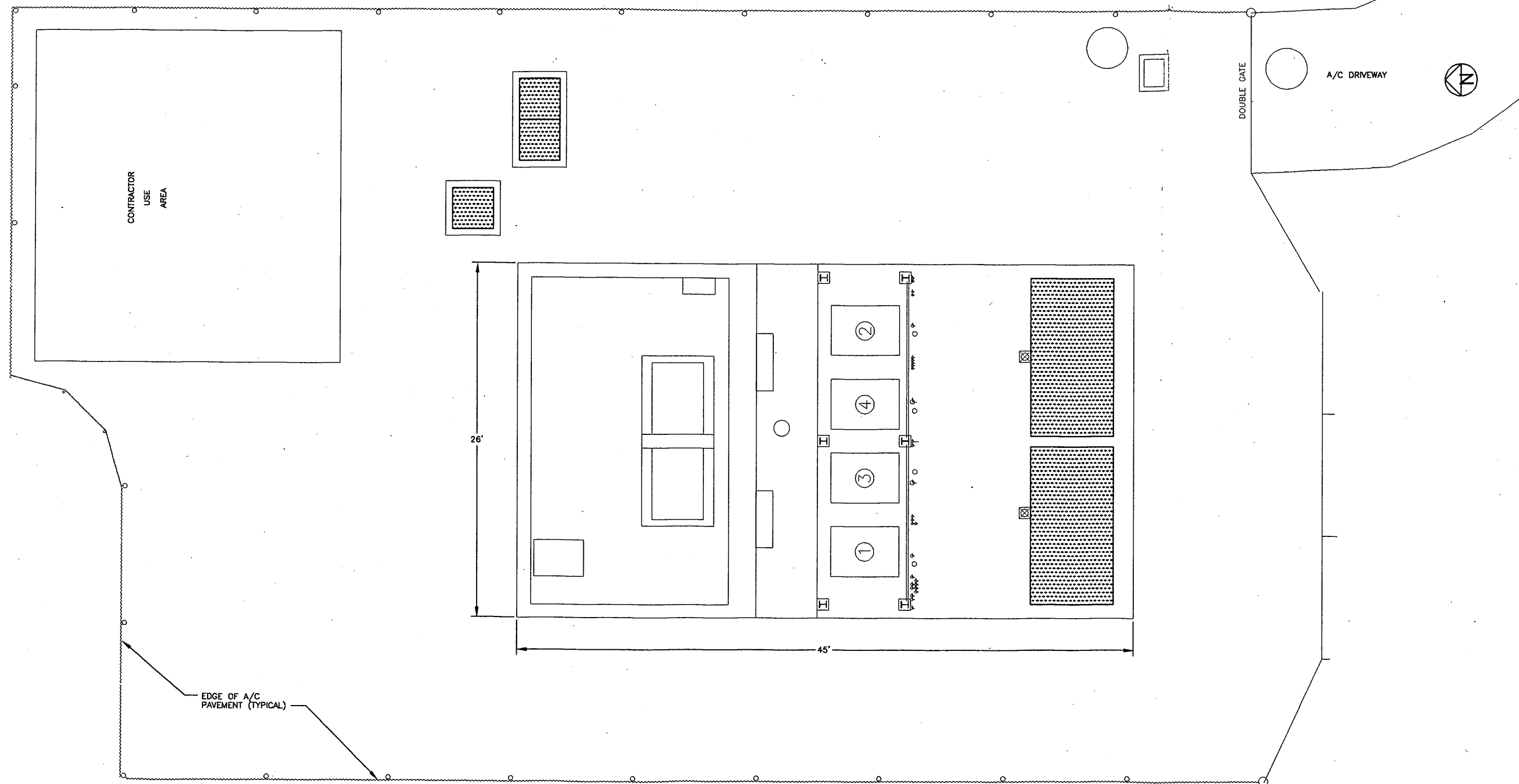
Date
8/22/96
Dwg. No.
3496S5

CAD FILE: 3496 S31

PROJECT DRAWINGS

**ELECTRICAL RENOVATION OF
WASTEWATER TREATMENT PLANT
INFLUENT PUMP STATION**

FEBRUARY 1999



REV	DATE	DESCRIPTION	BY

R&W
ENGINEERING, INC.
Engineering Integrated Solutions
9400 SW Swin-Hall Hwy
Suite 220
Bend, Oregon 97005
Phone: (503) 252-6000
Fax: (503) 252-1422
E-mail: rwen@rwceng.com

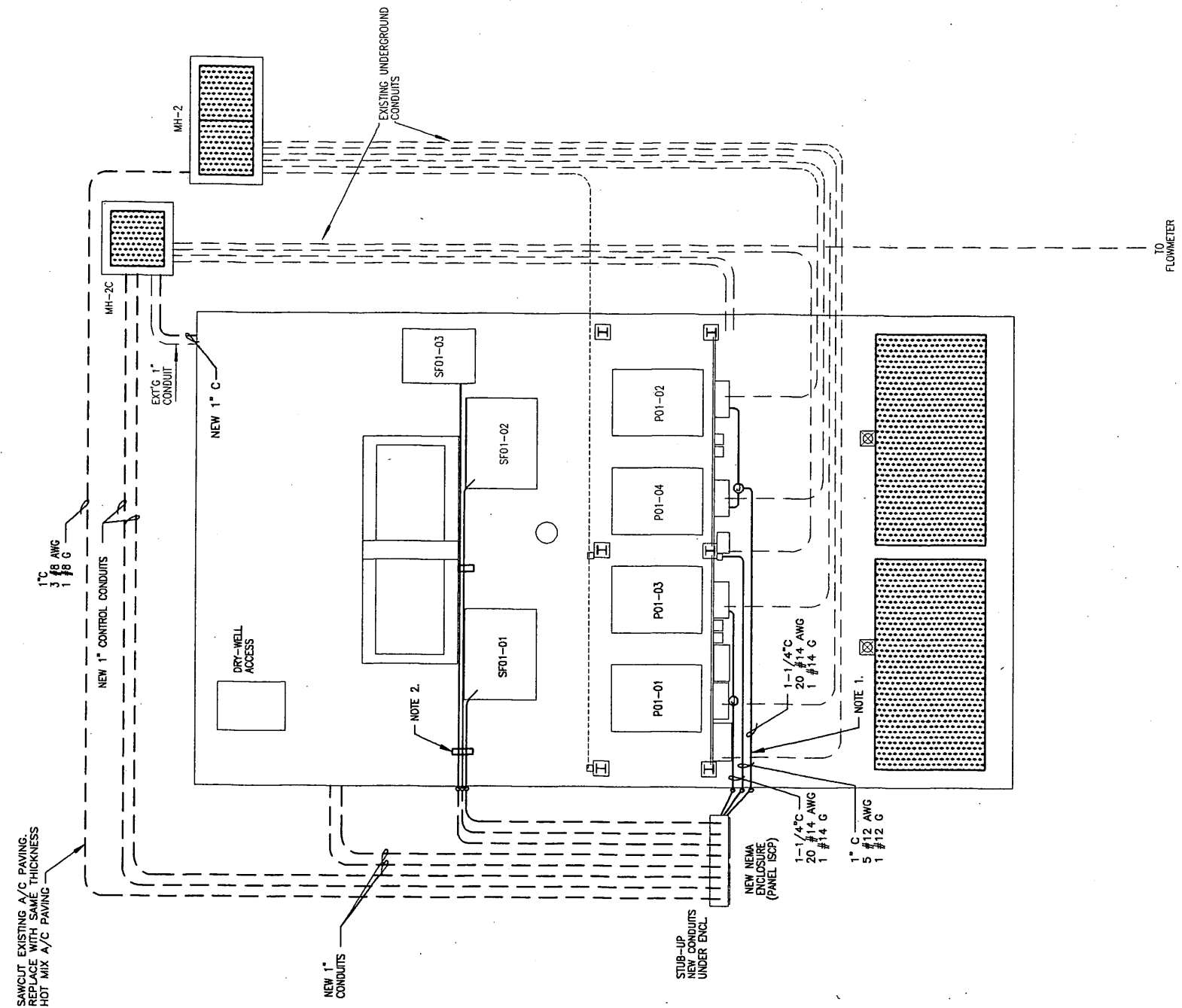
PROJECT NUMBER
278-008-001

CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

SITE PLAN

278-008-001/E001

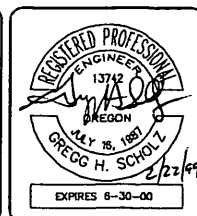
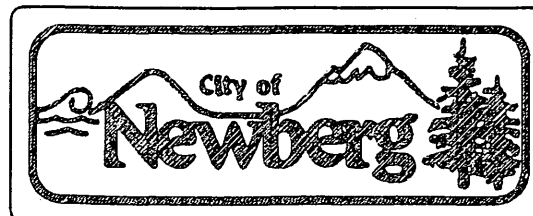
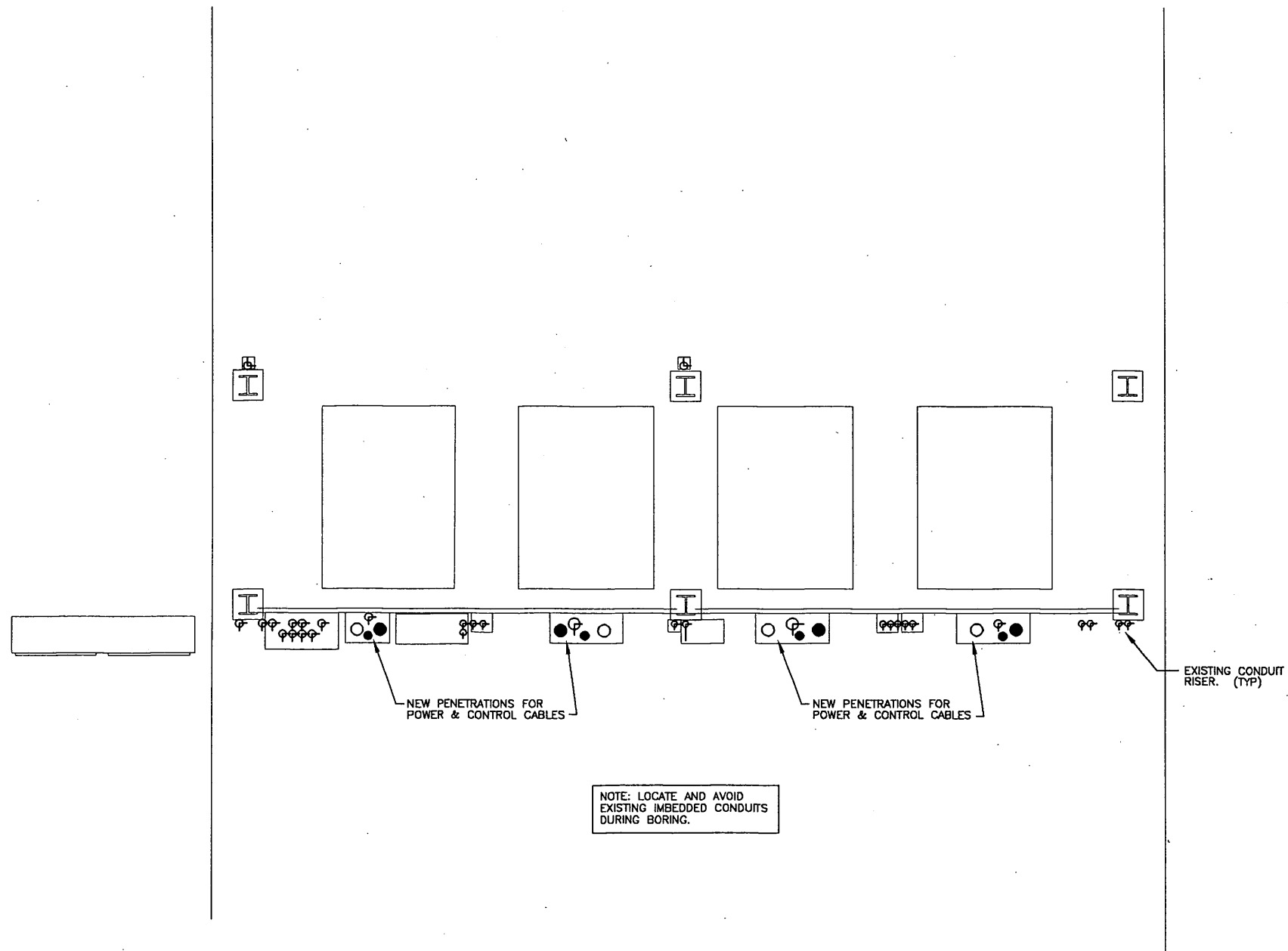
DES	GHS
DRN	SMB
CHK	GHS
DATE	02/18/88
DRAWING NO.	E1
SHEET	1 OF 8



LEGEND

- * CONDUIT CONCEALED IN WALL OR ABOVE CEILING IN FINISHED AREAS, EXPOSED IN PROCESS AND EQUIPMENT AREAS.
- * NOTE:
ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO.12 CONDUCTORS IN CONDUIT. RUNS MARKED WITH CROSS-HATCHES INDICATE NUMBER OF NO.12 WIRE. LARGER GAUGES ARE SHOWN. REVERSE SLANT INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO ELECTRICAL SPECIFICATIONS AND APPLICABLE CODE. LONG CROSS HATCH INDICATES NEUTRAL.
- JUNCTION BOX
- GROUND CONNECTION PER NEC ARTICLE 250
- TRANSFORMER
- MOTOR STARTER CONTACTOR, NEMA SIZE RATING SHOWN
- THERMAL MAGNETIC CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING SHOWN
- THERMAL MAGNETIC CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING SHOWN.
- FUSE, AMPERE RATING SHOWN.
- DRAWING NOTE
- WALL MOUNTED LIGHT FIXTURE
- MAJOR ELECTRICAL DISTRIBUTION OR MOTOR CONTROL AS INDICATED
- DUPLEX RECEPTACLE-NORMAL, GROUND FAULT INTERRUPTING
- CONNECTION TO SPECIAL EQUIPMENT OR OUTLET AS SHOWN
- DISCONNECT SWITCH

- ### NOTES
1. INSTALL NEW PVC-RGS CONDUIT UNDER NEW DISCONNECT SWITCHES. PROVIDE FRAMING AS REQUIRED.
 2. PROVIDE SSTL SUPPORTS FOR CONDUIT ABOVE SLAB. CONDUIT TO BE PVC-RGS.



REV	DATE	DESCRIPTION	BY

R&W
ENGINEERING, INC.
Engineering Integrated Solutions
3400 SW Burt-Heidi Hwy
Suite 250
Bend, Oregon 97005
Phone: (503) 292-6000
FAX: (503) 292-1422
E-mail: rweg@rweg.com

PROJECT NUMBER
278-008-001

CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

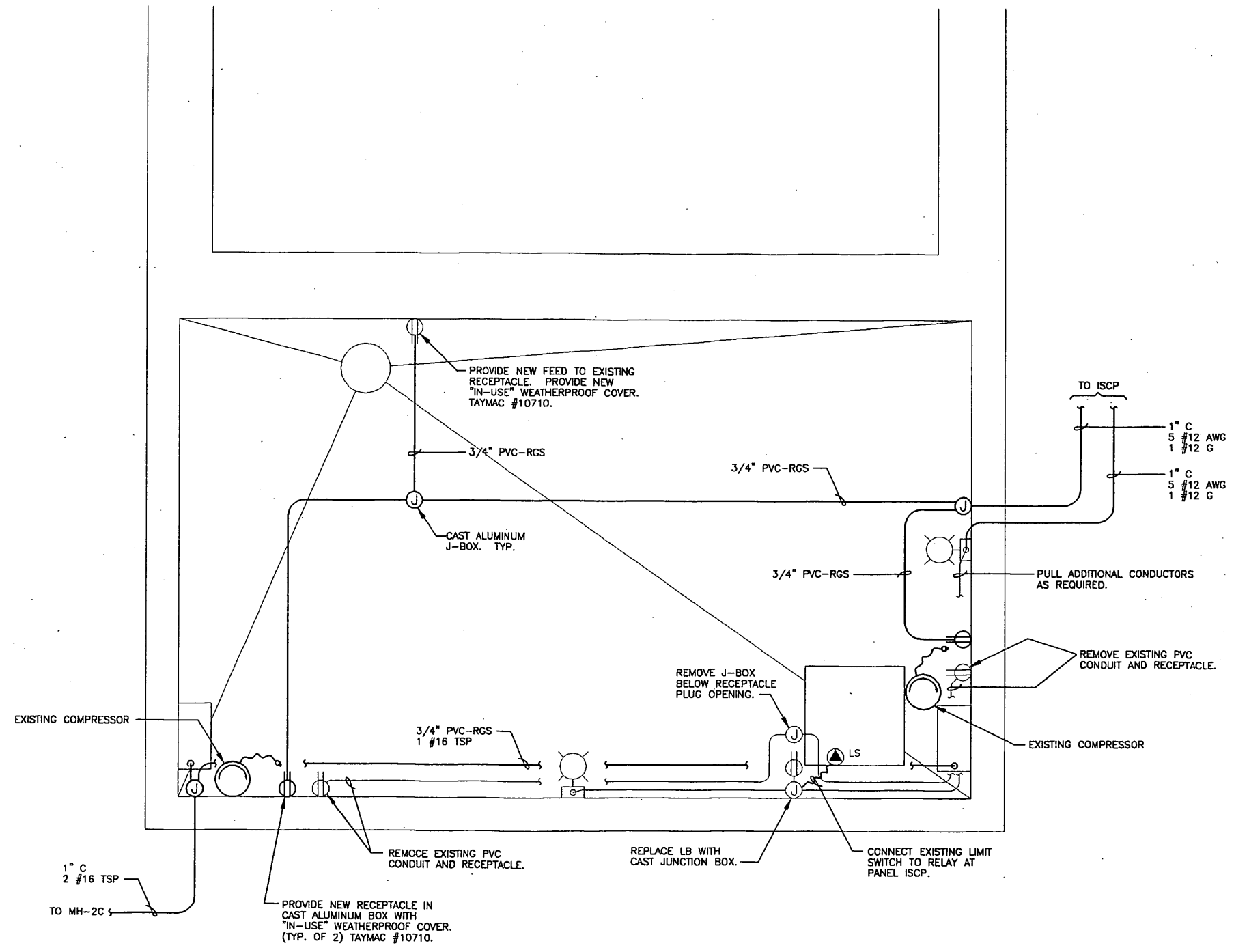
UNDERGROUND CONDUIT STUB-UPS AND
THROUGH STRUCTURE PENETRATIONS

278-008-001/E004

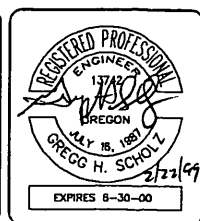
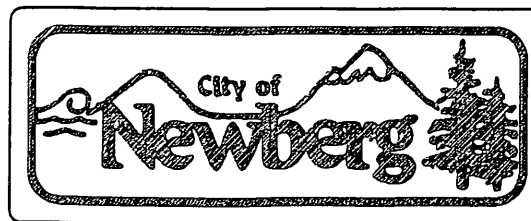
DES	GHS
DRN	SMB
CHK	GHS
DATE	02/18/88

DRAWING NO.
E4

SHEET 4 OF 8



DRY-WELL PLAN
SCALE: 1/4"=1'-0"



REV	DATE	DESCRIPTION	BY

R&W
ENGINEERING, INC.
Engineering Integrated Solutions
9400 SW Birch-Hadley Hwy
Suite 250
Beaverton, Oregon 97005
Phone: (503) 592-6000
Fax: (503) 292-1422
E-mail: rtweng@tweng.com

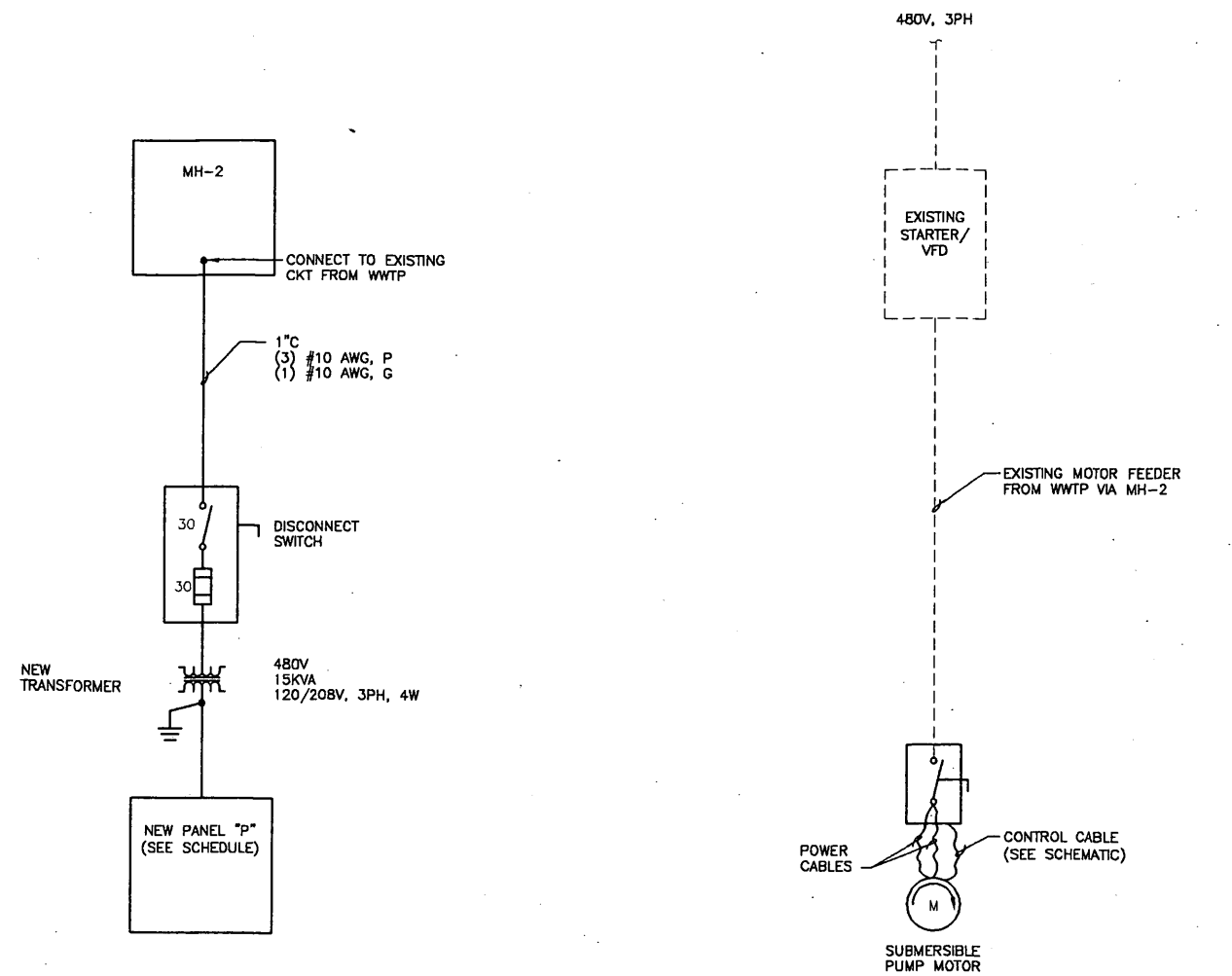
PROJECT NUMBER
278-008-001

CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

DRY WELL PLAN

278-008-001/E005

DES	GHS
DRN	SMB
CHK	GHS
DATE	02/18/88
DRAWING NO.	E5
SHEET	5 OF 8

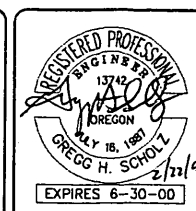
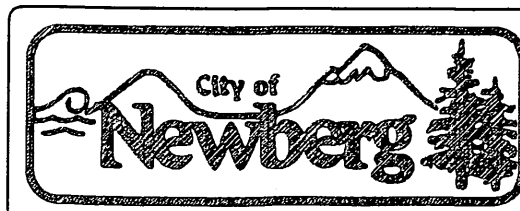


ONE-LINE DIAGRAM
SCALE: NONE

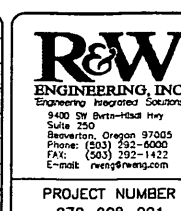
TYPICAL PUMP CONNECTION DIAGRAM
SCALE: NONE

PANEL: P		BUS: 100 A		VOLTAGE: 120/208V, 3PH, 4 WIRE				
FEEDER: SEE POWER RISER		MAIN BRKR: 60 A		MOUNTING: SURFACE				
CKT NO.	CIRCUIT DESCRIPTION	CKT BREAKER POLES/AMPS	LOAD Volt-Amps	PHASE	LOAD Volt-Amps	CKT BREAKER POLES/AMPS	CIRCUIT DESCRIPTION	CKT NO.
1	WET WELL FAN 1	2-20	830	A	830	2-20	WET WELL FAN 2	2
3			830	B	830			4
5	DRY WELL FAN	1-20	700	C	150	1-20	COMPRESSOR 1	6
7	AREA LIGHTS	1-20	200	A	150	1-20	COMPRESSOR 2	8
9	RECEPTACLES	1-20	360	B	200	1-20	DRY WELL LIGHTS	10
11	CONTROL POWER	1-20	100	C	860	1-20	DRY WELL SUMP	12
13	SPARE	1-20	0	A	180	1-20	DRY WELL RECEPTACLE	14
15	SPARE	1-20	0	B	0	1-20	SPARE	16
17	SPACE	1-	0	C	0	1-20	SPARE	18

CONNECTED LOAD		TOTAL LOAD		NOTES.....
LOAD PER PHASE (VA)	A= 2190 B= 2220 C= 1810	A= 2397 B= 2427 C= 2017		1.
LOAD PER PHASE (AMPS)	A= 18.25 B= 18.50 C= 15.08	A= 19.98 B= 20.23 C= 16.81		2.
TOTAL LOAD (KVA)	6.22	6.84		3.
SPARE CAPACITY	10.00%	0.62	DATE 19-Feb-99	4.



REV	DATE	DESCRIPTION	BY

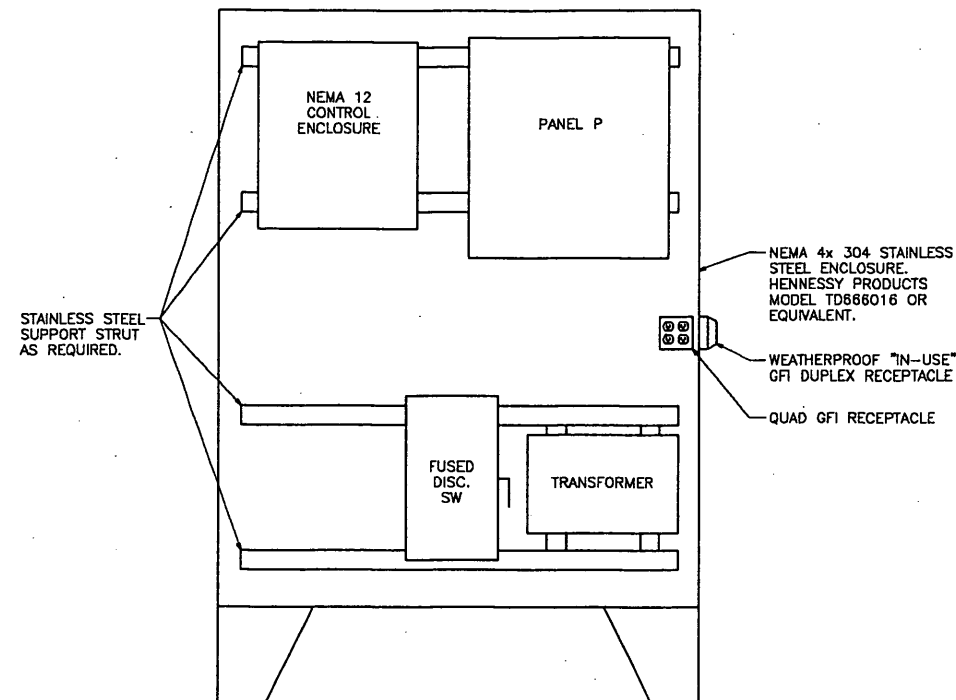


CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

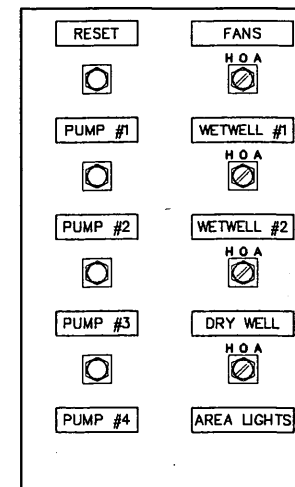
ONE-LINE DIAGRAM / PANEL SCHEDULE
AND PUMP CONNECTION DIAGRAM

278-008-001/E006

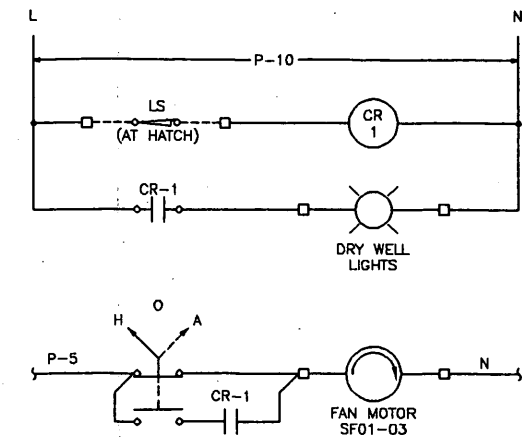
DES	GHS
DRN	MLB
CHK	GHS
DATE	02/19/99
DRAWING NO.	E6
SHEET	6 OF 8



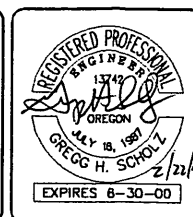
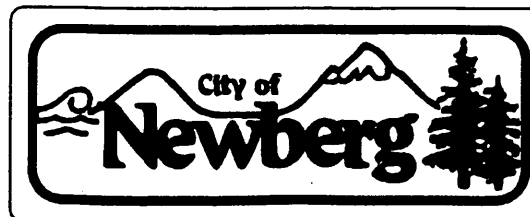
ISCP ELEVATION
SCALE: NONE



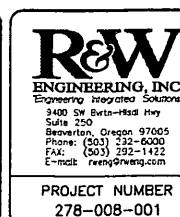
CONTROL ENCLOSURE LAYOUT
SCALE: NONE



DRY WELL CONTROL DIAGRAM
SCALE: NONE



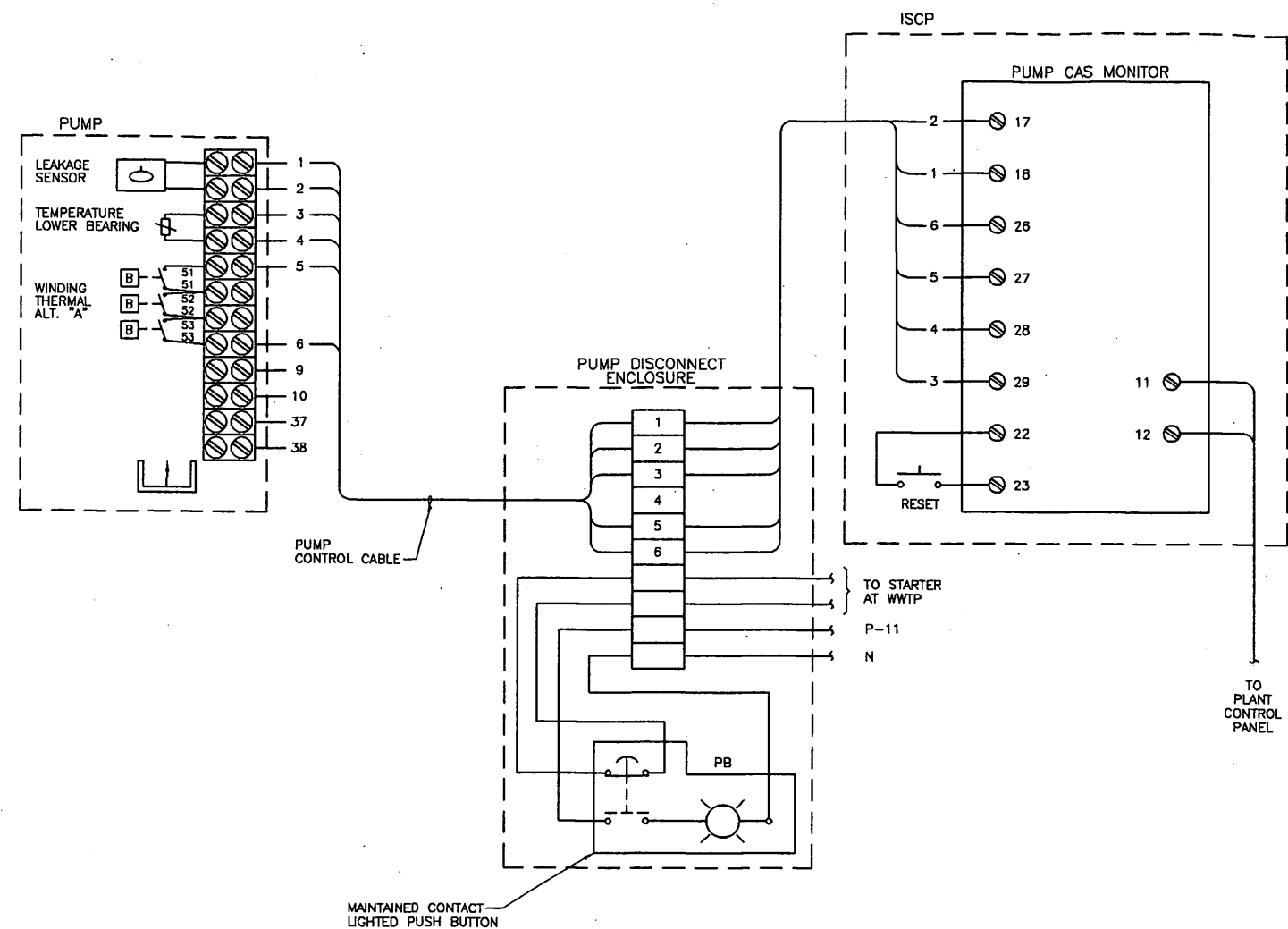
REV	DATE	DESCRIPTION	BY



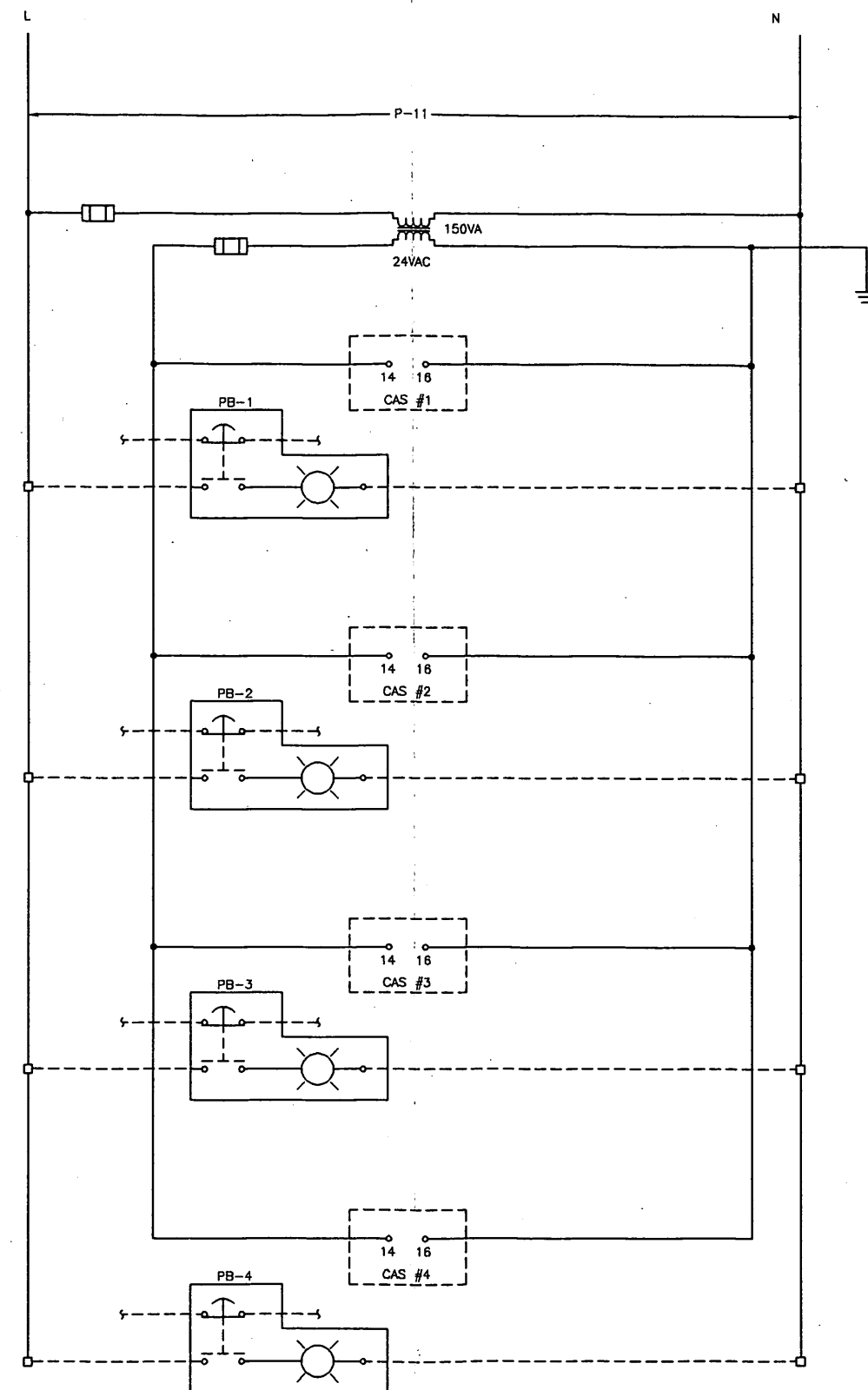
CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

ENDCLOSURE LAYOUTS AND
DRYWELL CONTROL DIAGRAM

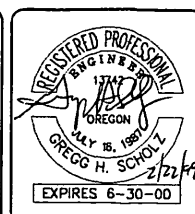
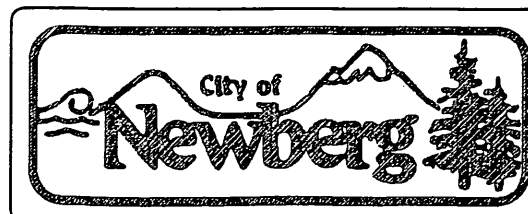
278-008-001/E007	
DES	GHS
DRN	SMB
CHK	GHS
DATE	02/18/88
DRAWING NO.	
E7	
SHEET	7 OF 8



TYPICAL PUMP CONTROL DIAGRAM
SCALE: NONE



CONTROL POWER SCHEMATIC
SCALE: NONE



REV	DATE	DESCRIPTION	BY



CITY OF NEWBERG
INFLUENT PUMP STATION W.W.T.P.

PUMP CONTROL DIAGRAM
AND CONTROL POWER SCHEMATIC

PROJECT NUMBER
278-008-001

DES	GHS
DRN	MLB
CHK	GHS
DATE	02/19/99
DRAWING NO.	E8
SHEET	8 OF 8