

**RESOLUTION NO. 2056**

**A RESOLUTION OF THE CITY OF WILSONVILLE AUTHORIZING THE MAYOR TO ENTER INTO SEGMENT 2 OF THE WILSONVILLE-SHERWOOD EXISTING KINSMAN ROAD WATER TRANSMISSION LINE AGREEMENT FROM WILSONVILLE ROAD TO BARBER STREET WITH THE CITY OF SHERWOOD.**

WHEREAS, Wilsonville and Sherwood each desire to construct transmission line facilities to supply water from the Willamette River Water Treatment Plant in Wilsonville, Oregon ("WRWTP") to their respective service areas and to provide water redundancy for their respective systems;

WHEREAS, the City of Wilsonville and the City of Sherwood desire to enter into the Agreement for the acquisition by Sherwood of an equal ownership interest and subsequent operation and maintenance of the Existing Kinsman Road Transmission Line for the purpose of supplying water to current and future customers of the parties;

WHEREAS this Agreement is intended to provide for the acquisition by Sherwood from Wilsonville of an equal ownership interest in one of these transmission line facility segments;

WHEREAS, it is necessary to enter into this intergovernmental cooperative agreement through ORS Chapter 190 to provide for the purchase of an undivided interest and maintenance and operation of the Existing Kinsman Road Transmission Line;

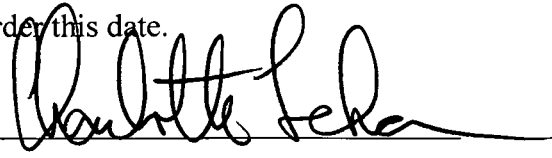
WHEREAS the City of Wilsonville and the City of Sherwood have the authority to enter into this Agreement pursuant to their applicable charter, principal acts, and Oregon Revised Statutes Sections 190.003 through 190.030; and

WHEREAS, this resolution authorizes the Mayor to execute Segment 2 of the Wilsonville-Sherwood Existing Kinsman Road Water Transmission Line Agreement from Wilsonville Road to Barber Street;

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

1. That the City Council does hereby approve and authorize the Mayor to execute Segment 2 of the Wilsonville-Sherwood existing Kinsman Road Water Transmission Line Agreement from Wilsonville Road to Barber Street between the City of Wilsonville and the City of Sherwood, a copy of which is marked Exhibit "1" and attached hereto and incorporated herein.
2. The City of Sherwood shall pay the City of Wilsonville the sum of \$598,769.00 for an undivided fifty percent (50%) interest in the existing Kinsman Road Water Transmission Line.
3. This resolution is effective upon adoption.

ADOPTED by the Wilsonville City Council at a regular meeting thereof this 18<sup>th</sup> day of June, 2007, and filed with the Wilsonville City Recorder this date.

  
CHARLOTTE LEHAN, Mayor

ATTEST:

  
SANDRA C. KING, City Recorder

SUMMARY OF VOTES:

Mayor Lehan	Yes
Councilor Kirk	Yes
Councilor Knapp	Yes
Councilor Ripple	Yes
Councilor Núñez	Excused

**EXHIBIT 1**

**Segment 2, WILSONVILLE-SHERWOOD EXISTING KINSMAN ROAD  
WATER TRANSMISSION LINE AGREEMENT  
FROM WILSONVILLE ROAD TO BARBER STREET**

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2007 between the City of Wilsonville, Oregon, a municipal corporation of the State of Oregon ("Wilsonville"), and the City of Sherwood, also a municipal corporation of the State of Oregon ("Sherwood").

**RECITALS**

The parties agree upon the following recitals:

A. Wilsonville and Sherwood each desire to construct transmission line facilities to supply water from the Willamette River Water Treatment Plant in Wilsonville, Oregon ("WRWTP") to their respective service areas and to provide water system redundancy for their respective systems. This Agreement is intended to provide for the acquisition by Sherwood from Wilsonville of an equal ownership interest in one of these transmission line facility segments, and its subsequent joint operation and maintenance, consisting of approximately 2,537 linear feet (lf) of 48-inch diameter pipe, already constructed and in place along SW Kinsman Road from the intersection of SW Kinsman Road and SW Wilsonville Road to the intersection of SW Kinsman Road and SW Barber Street. The transmission line is more particularly described in Exhibit A, identified therein as Segment 2, attached hereto and incorporated by reference, and is hereinafter referred to as "the Existing Kinsman Road Transmission Line." The parties will contemporaneously execute other agreements for other segments of jointly-owned transmission facilities.

B. The parties desire to enter into this Agreement for the acquisition by Sherwood of an equal ownership interest and subsequent operation and maintenance of the Existing Kinsman Road Transmission Line for the purpose of supplying water to the current and future customers of the parties.

C. It is recognized by the parties that it is necessary to enter into this intergovernmental cooperative agreement through ORS Chapter 190 to provide for the purchase of an undivided interest and maintenance and operation of the Existing Kinsman Road Transmission Line.

D. The parties have the authority to enter into this Agreement pursuant to their applicable charter, principal acts, and Oregon Revised Statutes Sections 190.003 through 190.030.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, the parties agree as follows:

1. DURATION

The duration of this Agreement shall be perpetual unless otherwise agreed to by the parties.

2. OWNERSHIP, MAINTENANCE, AND OPERATION OF THE EXISTING KINSMAN ROAD TRANSMISSION LINE

2.1 *Ownership.* The Existing Kinsman Road Transmission Line has a total as built demand capacity of 40 mgd. It is more particularly described in Exhibit "A" attached hereto and incorporated herein by reference. Each party shall be entitled to a 20 mgd capacity share thereof. Each party shall have a 50 percent ownership share of the transmission line as tenants in common. The respective capacity use of the parties will be metered by appropriate metering facilities. The physical location of meters, their operational characteristics, and an operational metering protocol shall be agreed to by the parties.

2.2 *Purchase Costs.* Sherwood purchases from Wilsonville an undivided 50 percent interest in the Existing Kinsman Road Transmission Line for the sum of \$598,769.00. The parties agree that this sum is the product of the purchase price methodology set forth in Exhibit B, attached hereto and incorporated herein by reference.

2.3 *Easements.* Wilsonville and Sherwood hereby agree to execute and deliver to the other a permanent easement to lay, replace, maintain, and use the Existing Kinsman Road Transmission Line for the purposes intended by this Agreement.

2.4 *Operation and Maintenance Responsibilities.* Unless otherwise agreed to by the parties in writing, Wilsonville shall have the responsibility for operation and maintenance of the Existing Kinsman Road Transmission Line. The actual, direct, out-of-pocket expenses of operation and maintenance of the Existing Kinsman Road Transmission Line together with an allowance as may be agreed upon by the parties for general or administrative expenses shall be billed to the parties monthly in proportion to their ownership interests reflected in paragraph 3.1. Wilsonville shall exercise due diligence in effecting its operation and maintenance responsibilities under this Agreement. Any non-emergency maintenance project or event in excess of \$50,000.00 in total, individual costs will require the coordination and consent of Sherwood. This amount shall be adjusted annually to conform with the Engineering News Record (ENR) Construction Cost Index (CCI) for Seattle. In any event, Wilsonville shall give reasonable notice to Sherwood of any proposed operation or maintenance activities which could impact Sherwood water quality or quantity. Wilsonville shall insure that all flow meters are maintained properly and calibrated at least annually. Wilsonville shall be responsible for the reading of meters subject to the terms of the metering protocol referenced in Section 3.1 of this Agreement. Subject to shut-downs for emergencies, announced scheduled repairs, or precautionary shut-down to allow upstream spills in the Willamette to flow past the WRWTP, Wilsonville shall operate its water system in a manner which will allow Sherwood to receive its ownership capacity share in keeping with the prior daily notification by Sherwood to Wilsonville of capacity needs at an adequate hydraulic grade.

2.4.1 Wilsonville shall be responsible for the control and supervision of all activities of the Existing Kinsman Road Transmission Line and shall prepare and submit to the parties financial activity reports of the Existing Kinsman Road Transmission Line not less than annually and prepare such other reports and information as the parties may require.

2.4.2 Sherwood acknowledges that it knows Tualatin Valley Water District (TVWD) has certain prior contract rights to operate and maintain the WRWTP based on certain future events and Wilsonville's responsibilities for operation and maintenance would cease upon the occurrence of those events. In that event, Sherwood is responsible to contract for operation and maintenance with TVWD as to producing for Sherwood a share of its capacity needs and at an adequate hydraulic grade.

2.5 *Transmission of Water to Third Parties.* Neither party shall permit use of the Existing Kinsman Road Transmission Line for the purpose of transmitting water to any person other than Wilsonville or Sherwood retail or wholesale customers unless both parties so agree previously in writing. Any revenues derived from transmission of water through the Existing Kinsman Road Transmission Line on behalf of entities other than Wilsonville or Sherwood customers shall be paid to the parties in proportion to their ownership interests in capacity used by a third party in the Existing Kinsman Road Transmission Line as reflected in paragraph 2.1.

2.6 *Budget.* Wilsonville shall annually prepare and adopt a budget for the Existing Kinsman Road Transmission Line and distribute the same to each party not later than 150 days prior to commencement of the next fiscal year. Annually, and 150 days prior to the commencement of each party's fiscal year, Wilsonville shall prepare a forecast of anticipated costs for the Existing Kinsman Road Transmission Line for that ensuing fiscal year, and each party shall contribute its share of this amount in proportion to its ownership interest in the Existing Kinsman Road Transmission Line as reflected in paragraph 2.1.

2.6.5 *Non-Emergency Major Repair or Replacement.* Wilsonville shall monitor the overall condition of the transmission line and facilities and shall schedule any non-emergency major repair or replacement and the projected annual expenditure for the cost of the repair or replacement five years in advance of such major repair or replacement.

2.7 *Approvals.* All approvals of either Wilsonville or Sherwood in this Agreement shall be made by the City Manager or the City Manager's authorized designee.

2.8 *Leasing of Supply Capacity.* Each party shall have the right to lease from the other party such unused capacity of its capacity share of the Existing Kinsman Road Transmission Line Project as the party with the unused capacity may determine in its sole discretion to be reasonably available and prudent to be leased to the other party. The compensation to the leasing party shall be fairly and equitably agreed upon by the parties.

2.9 *Overuse of Supply Facility.* Wilsonville and Sherwood shall each use the Existing Kinsman Road Transmission Line Project facilities in a manner consistent with prudent water utility practices and to minimize interference with each other's use of its respective share of capacity to meet its demand. Unless caused by system operation conditions not caused by the overusing party, any overuse of 10 percent or greater by either Wilsonville or Sherwood for two consecutive years or for three out of five consecutive years, shall result in the overusing party compensating the other party at a lease rate that will be fairly and equitably agreed upon by the parties.

2.9.5 *Right of First Offer.* Wilsonville and Sherwood agree not to sell, transfer, exchange, grant an option to purchase, lease, or otherwise dispose of its undivided interest in the

Existing Kinsman Road Transmission Line Project facilities, without first offering the remaining owner in writing ("Notice of Intent to Transfer") on the terms and conditions set forth in this section. This right of first offer shall be perpetual unless it expires by its terms, or the parties mutually agree to its termination. This right of first offer shall run with and burden each owner's undivided interest in the Existing Kinsman Road Transmission Line Project facilities, the owner, owner successors and assigns, and shall run for the benefit of the other owner and its successors and assigns. When an owner receives the notice of intent to transfer, it shall have the prior and preferential right to purchase the undivided interest in the Existing Kinsman Road Transmission Line Project of the transferring party. The notice should disclose the terms and conditions of the transferring owners of the offer of any third party to sell to it, in order to give the other owner fair opportunity to purchase. Such disclosure may be provided as confidential as allowed by law. The purchase price shall be the price agreed to by the parties or the appraised fair market value of the undivided interest in the Existing Kinsman Road Transmission Line Project facilities. The receiving owner shall give notice of its exercise of the right to purchase within 60 days after receipt of the written notice of intent to transfer from the transferring owner declaring the property surplus and offering to sell to the receiving owner. If the receiving owner fails to timely give written notice to the transferring owner of the exercise of its rights to purchase the offered, undivided interest in Existing Kinsman Road Transmission Line Project, then the transferring owner shall be entitled to sell, transfer or assign the undivided interest in the Existing Kinsman Road Transmission Line Project to a third party, at such price, and on such terms and conditions as are acceptable to it, provided such terms and conditions are not inconsistent with the aforementioned notice of intent to transfer of the opportunity to purchase.

### 3. AMENDMENT

This Agreement may be amended if both parties concur in the proposed amendment by an agreement, signed by authorized representatives of each party.

### 4. GENERAL PROVISIONS

4.1 *Instruments of Further Assurance.* From time to time, at the request of either party, each party shall, without further consideration, execute and deliver such further instruments and shall take such further action as may be reasonably required to fully effectuate the purposes of this Agreement.

4.2 *Merger Clause.* This Agreement embodies the entire agreement and understanding between the parties hereto with respect to the Existing Kinsman Road Transmission Line and supersedes all previous agreements and understandings relating to the Existing Kinsman Road Transmission Line.

4.3 *Assignment.* Neither party shall have the right to assign its interest in this Agreement (or any portion thereof), without the prior written consent of the other party.

4.4 *Severability.* In case any one or more of the provisions contained in this Agreement shall be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

4.5 *Counterparts.* This Agreement may be executed in any number of counterparts and by the parties or separate counterparts, any one of which shall constitute an agreement between and among the parties.

4.6 *Notices.* Any notice herein required or permitted to be given shall be given in writing, shall be effective when actually received, and may be given by hand delivery or by United States mail, first class postage prepaid, addressed to the parties as follows:

If to Wilsonville: Arlene Loble, City Manager  
City of Wilsonville  
29799 SW Town Center Loop E.  
Wilsonville, OR 97070

If to Sherwood: Ross Schultz, City Manager  
City of Sherwood  
22560 SW Pine  
Sherwood, OR 97140-7851

4.7 *Mutual Indemnification.* Wilsonville shall indemnify Sherwood as may be allowed under law, for any and all claims by third parties against Sherwood arising out of the negligence or intentional acts of Wilsonville, its employees, agents, or contractors. Sherwood shall indemnify Wilsonville as may be allowed under law, for any and all claims by third parties arising out of the negligence or intentional acts of Sherwood, its employees, agents, or contractors.

IN WITNESS WHEREOF, the parties have, pursuant to official action of their respective governing bodies, duly authorizing the same, cause their respective officers to execute this instrument on their behalf.

CITY OF WILSONVILLE  
an Oregon municipal corporation

CITY OF SHERWOOD  
an Oregon municipal corporation

By: \_\_\_\_\_  
Charlotte Lehan, Mayor

By: \_\_\_\_\_  
Keith Mays, Mayor

By: \_\_\_\_\_  
City Recorder

By: \_\_\_\_\_  
City Recorder

APPROVED AS TO FORM:

APPROVED AS TO FORM:

Attest: \_\_\_\_\_  
City Attorney

Attest: \_\_\_\_\_  
City Attorney

F:\Sherwood\Comm.Dev\Wilsonville WT Line\Section 2, Kinsman Agreement 05-21-07

Page - 5 WATER TRANSMISSION LINE AGREEMENT

**Exhibit B**

**Sherwood Reimbursement to the City of Wilsonville for the Waterline on  
Kinsman between Wilsonville Road and Barber**

4/25/2007

**Background**

48 inch line from WV Rd to Barber

Capacity shared equally

Cost include pipe purchase, construction, design, inspection and city administration-

Cost

\$1,148,359

Completed- Sep 2003

**Methodology: Reconstrion cost new less depreciation (RCNLD)**

Share of construction at 50%

\$574,179

Change in Seattle area CCI to get RCN (est. to Mar 2007) Sep 2003-

7641.70, Est. Mar 2007-8568

1.121

Depreciation for cathodic protected line 50 year straight line

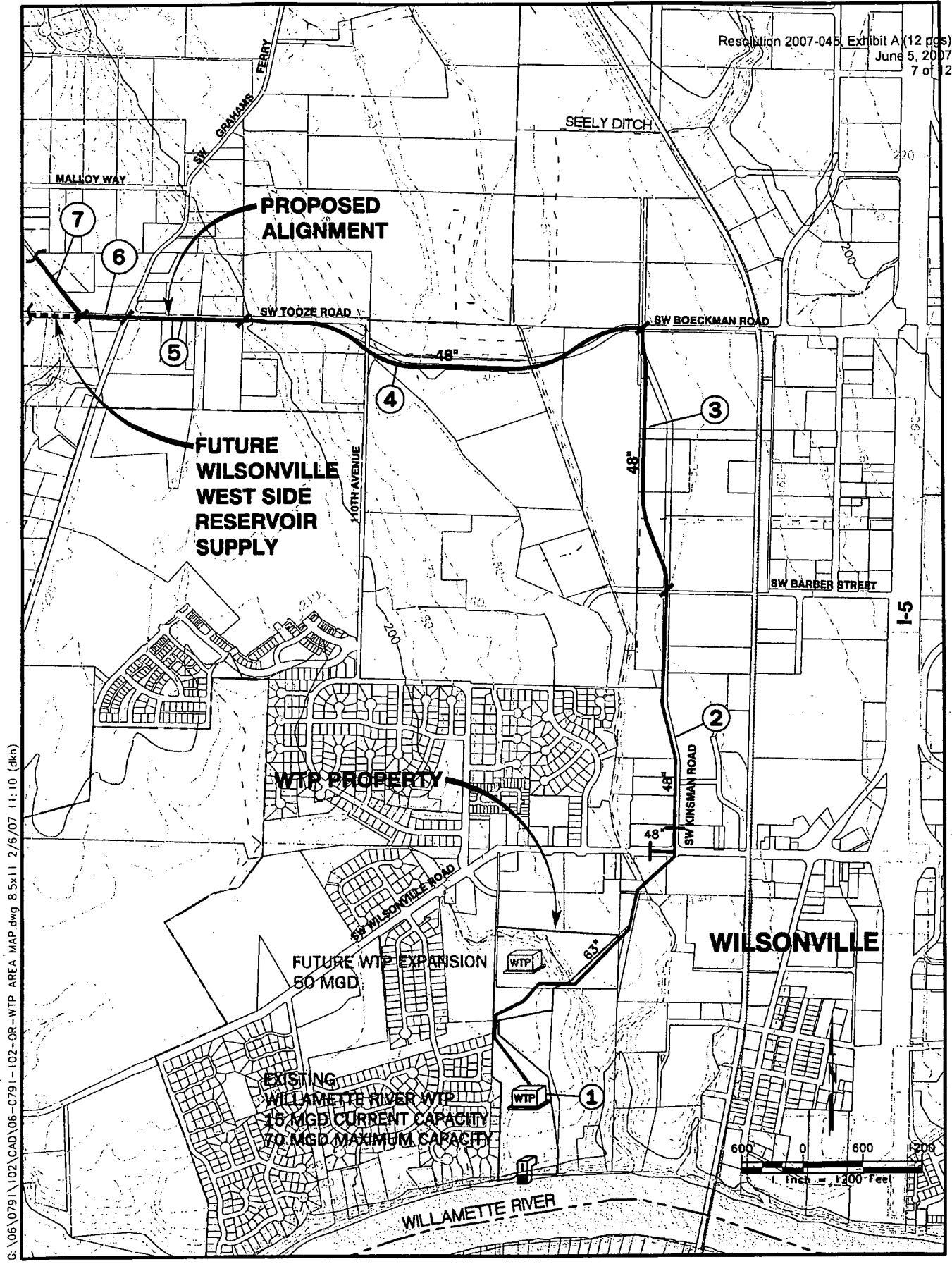
0.930

**Total reimbursement**

**\$598,769**



Resolution 2007-045 Exhibit A (12 pgs)  
June 5, 2007  
7 of 12



G:\06\0791\102\CAD\06-0791-102-OR-WTP AREA MAP.dwg 8.5x11 2/6/07 11:10 (dkh)



City of  
**WILSONVILLE**  
in OREGON

**CITY OF WILSONVILLE**  
**SW KINSMAN ROAD WATERLINE**  
**AND ROADWAY IMPROVEMENTS**

**MAY 2002**

**GENERAL INDEX OF DRAWINGS**

**GENERAL**

- G-1 - COVER/TITLE SHEET
- G-2 - SYMBOLS AND LEGEND
- G-3 - ABBREVIATIONS
- G-4 - GENERAL AND EROSION CONTROL NOTES
- G-5 - TRAFFIC SIGNING AND DETOUR PLAN

**WATER**

- W-1 - WATER - PLAN AND PROFILE STA W0+00 TO STA W5+40
- W-2 - WATER - PLAN AND PROFILE STA W5+40 TO STA W12+30
- W-3 - WATER - PLAN AND PROFILE STA W12+30 TO STA W19+20
- W-4 - WATER - PLAN AND PROFILE STA W19+20 TO STA W25+20
- W-5 - 14" WATERLINE CONNECTION AND DETAILS
- W-6 - PRV AND METER VAULT PLAN AND SECTIONS
- W-7 - 3" COMBINATION AIR VALVE AND MANWAY VAULT DETAILS
- W-8 - WATERLINE STANDARD DETAILS
- W-9 - WATERLINE CITY STANDARD DETAILS
- W-10 - CORROSION CONTROL DETAILS

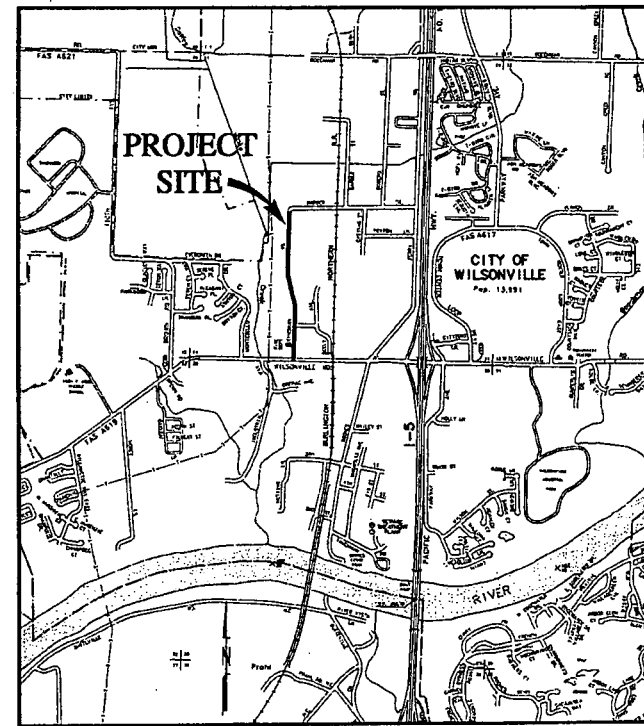
**ROAD**

- RD-1 - PLAN AND PROFILE STA R0+00 TO STA R5+40
- RD-2 - PLAN AND PROFILE STA R5+40 TO STA R12+30
- RD-3 - PLAN AND PROFILE STA R12+30 TO STA R19+20
- RD-4 - PLAN AND PROFILE STA R19+20 TO STA R25+80
- RD-5 - PCC PAVEMENT SECTIONS AND DETAILS
- RD-6 - PCC JOINT DETAILS
- RD-7 - STORM DRAINAGE DETAILS
- RD-8 - MISCELLANEOUS STREET DETAILS
- RD-9 - STRIPING AND DETECTOR LOOP PLAN
- RD-10 - STRIPING AND DETECTOR LOOP NOTES AND DETAILS

**RECORD DRAWINGS**

THIS DRAWING IS FOR RECORD PURPOSES ONLY, AND HAS BEEN PREPARED BASED IN PART ON INFORMATION PROVIDED BY OTHERS RELATIVE TO REPORTED CONSTRUCTED CONDITIONS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, MURRAY, SMITH & ASSOCIATES, INC. MAKES NO ASSURANCES, STATED OR IMPLIED, AS TO THE ACCURACY OF THIS DRAWING. THOSE RELYING ON THIS RECORD DRAWING FOR ANY PURPOSE ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY. CONTRACT MODIFICATION INFORMATION, FABRICATOR'S SHOP DRAWINGS AND OTHER PROJECT SUBMITTAL INFORMATION PROVIDED BY THE CONTRACTOR WHICH FURTHER CLARIFY DETAILS OF CONSTRUCTION MAY BE ON FILE. SEE ORIGINAL CONTRACT DRAWINGS FOR ENGINEER'S SEAL AND SIGNATURES.

VERSION 4.0 12-9-97



**VICINITY MAP**  
SCALE: 1"=1000'



**Murray, Smith & Associates, Inc.**  
**Engineers/Planners**

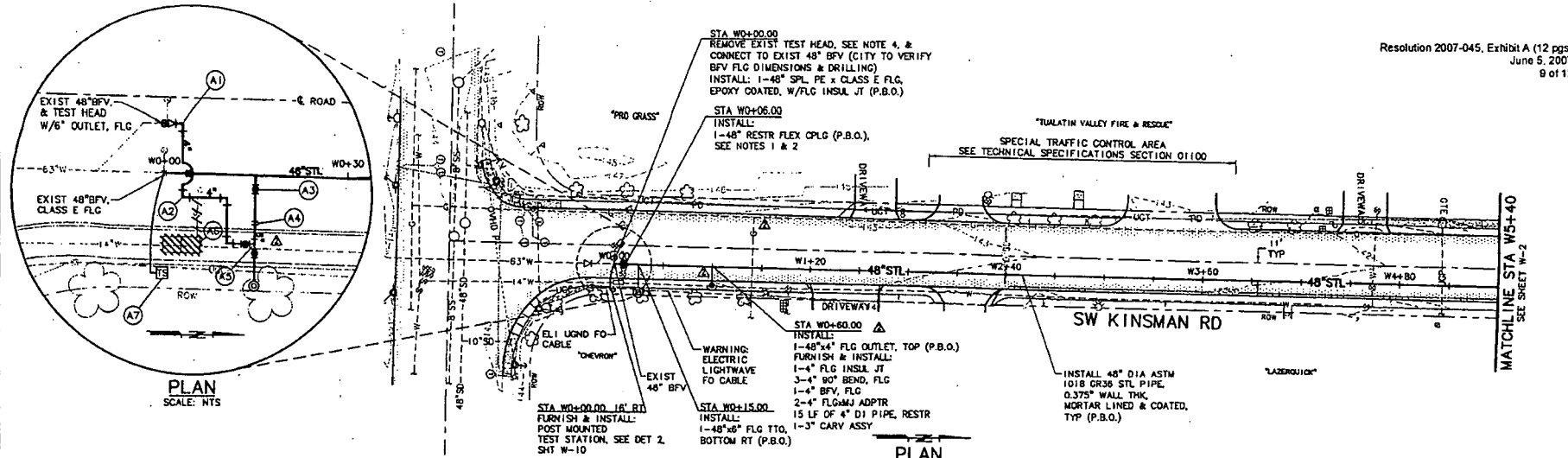
121 S.W. Salmon, Suite 900    PHONE 503-225-9010  
Portland, Oregon 97204    FAX 503-225-9022

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01-0546.210

13972

Exhibit A, Pg. 2



PLAN  
SCALE: NTS

PLAN  
SCALE: 1"=30'

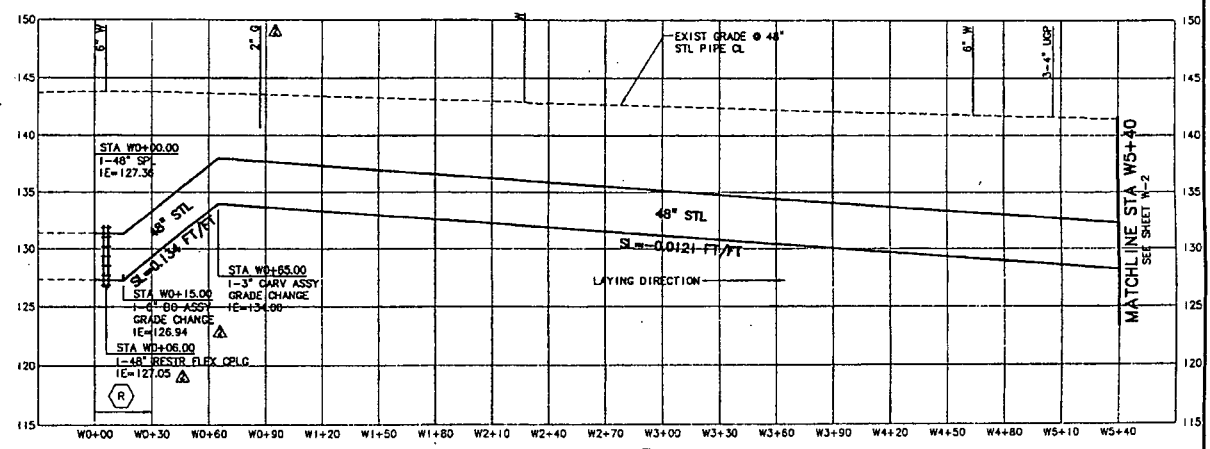
MATCHLINE STA W5+40  
SEE SHEET W-2

**MATERIAL LIST**

- (A1) FURNISH & INSTALL:  
1-6" FLG INSUL JT  
1-6"x4" ROOF, FLO&M  
40 LF 4" DI PIPE  
1-4" 90° BEND, M.I. ROLLED UP  
1-4" 90° BEND, M.I. ROLLED DOWN  
ROUTE 4" PIPE OVER 48" STL. MAINTAIN  
MIN 1 FT CLR BTWN DI & 48" STL PIPE
- (A2) FURNISH & INSTALL:  
1-4" 90° BEND, M.I. ROLLED HORIZ
- (A3) FURNISH & INSTALL:  
1-6" CV, FLG  
1-6" ADPTR, M.I. FLG  
15 LF 6" DI PIPE
- (A4) FURNISH & INSTALL:  
1-6" 90° BEND, M.I. ROLLED UP  
1-6" 90° BEND, M.I. ROLLED HORIZ
- (A5) FURNISH & INSTALL:  
1-6" 90° BEND, M.I. ROLLED UP  
1-6" 90° BEND, M.I. ROLLED HORIZ
- (A6) COMPLETELY REMOVE EXIST PRV VAULT &  
PRV ASSY DISCONNECT PRV ASSY FROM  
14" WATERLINE & INSTALL 2" BRASS  
PLUG. REMOVE EXIST 6" BO ASSY, 6" CV,  
6" PIPING & ASSOCIATED VALVE BOXES  
CONNECTED TO 48" TEST HEAD
- (A7) FURNISH & INSTALL:  
20 LF 3" PVC CONDUIT  
1-POST MOUNTED TEST STATION

**NOTES**

1. FOR RESTRAINED FLEXIBLE COUPLING, PROVIDE ADEQUATE SPACE BETWEEN HARNESS LUG AND COUPLING TO ALLOW COUPLING TO SLIDE CLEAR OF PIPE JOINT. SPOOL MUST BE REMOVABLE.
2. FOR RESTRAINED FLEXIBLE COUPLING, DOUBLE NUT ALL HARNESS TIE BOLTS AND TIGHTEN AGAINST HARNESS LUG PLATE.
3. P.B.O. = MATERIALS PROVIDED BY ANOTHER CONTRACT. SEE GENERAL NOTE 27.
4. CONTRACTOR TO REMOVE EXISTING 48-INCH TEST HEAD CONNECTED TO EXISTING 48-INCH BUTTERFLY VALVE (STA 0+00), STORE AND REINSTALL AT STA W25+20.00.
5. ALL PIPE AND FITTINGS SUPPLIED BY CONTRACTOR TO BE RESTRAINED DUCTILE IRON, UNLESS OTHERWISE SHOWN.
6. CATHODIC PROTECTION POST VERIFIED TEST STATION LOCATIONS TO BE FIELD VERIFIED BY ENGINEER.



PROFILE  
SCALE: 1"=30' HORIZ, 1"=5' VERT

MATCHLINE STA W5+40  
SEE SHEET W-2

F:\CAD\01\0546\210\DRW\01-0546-210-06-PLAN-ROWING WATER-10 STA 5+40 Jun/28/2003 12:08:44

NO.	DATE	BY	REVISION
1	12-21-02	DES	RECORD DRAWING
2	11-02-02	DES	ADDENDA #1, #2, #3

NOTICE	TIP
DESIGNED	HCM/BAH/OKH
DRAWN	PHS
CHECKED	

**RECORD DRAWING**  
SEE DISCLAIMER SHEET 1.  
VERSION 4.1  
12-9-97

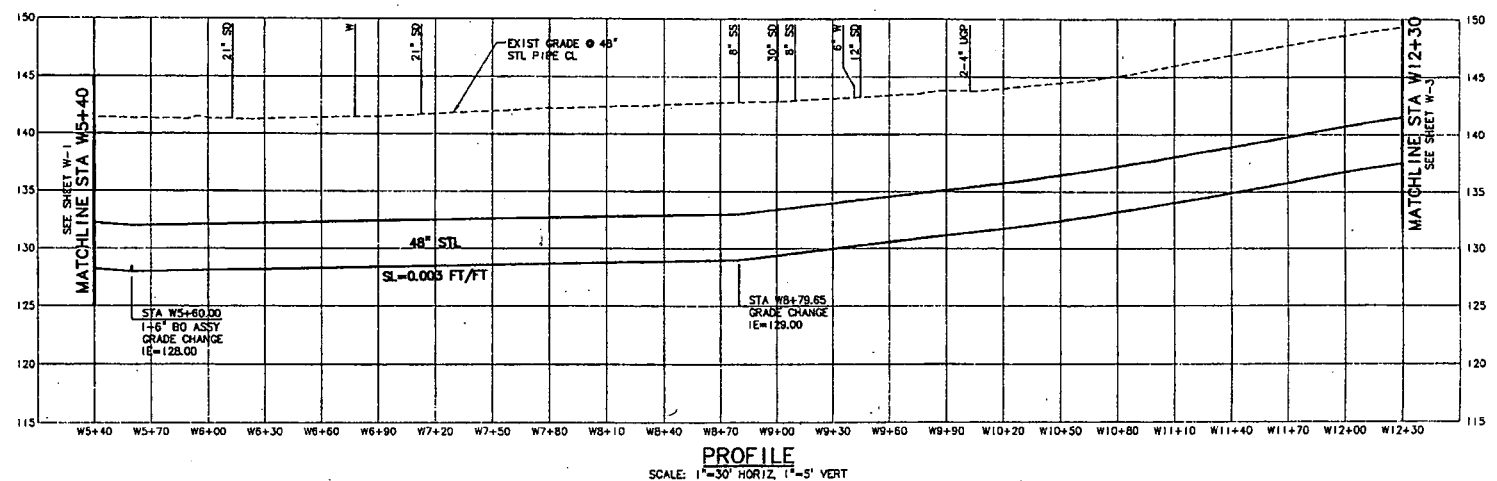
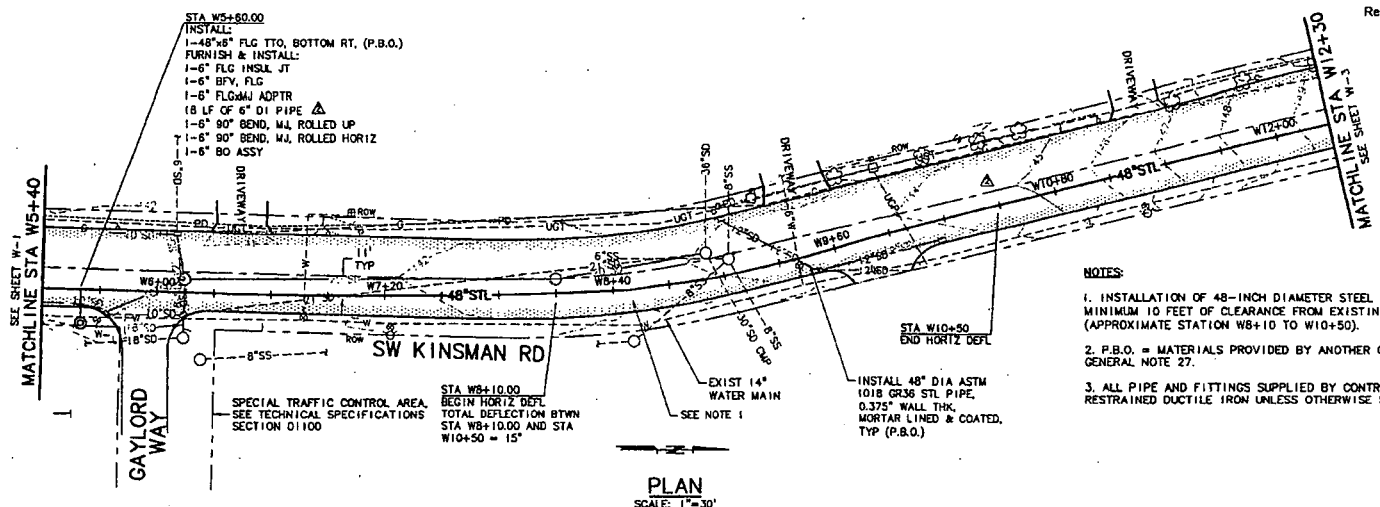
**MSA** Murray, Smith & Associates, Inc.  
Engineers/Planners  
121 S.E. Salmon, Suite 800  
Portland, Oregon 97204  
Phone 503-225-9919  
Fax 503-225-9022

City of **WILSONVILLE** in OREGON  
**SW KINSMAN ROAD WATERLINE AND ROADWAY IMPROVEMENTS**

**KINSMAN ROAD WATER - PLAN AND PROFILE**  
**STA W0+00 TO STA W5+40**  
PROJECT NO.: 01-0546.210 SCALE: AS SHOWN DATE: MAY 2002  
SHEET **W-1** 6 of 25

Exhibit A, Pg. 3

239712



F:\CAD\01\0545\210\000\01-0545-210-00-PLAN-R.DWG WATER-TO STA 12+30 Jun/28/2003 12:09:44

NO.	DATE	BY	REVISION
17-31-02		ES	RECORD DRAWING

NOTICE  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

TPB DESIGNED  
HOM/BAH/DKH  
DRAWN  
PVS  
CHECKED

**RECORD DRAWING**  
SEE DISCLAIMER, SHEET 1.  
VERSION 4.1  
12-9-97

**MSA** Murray, Smith & Associates, Inc.  
Engineers/Planners  
121 S.W. Selma, Suite 800  
Portland, Oregon 97204  
Phone 503-225-9010  
Fax 503-225-8022

City of **WILSONVILLE** in OREGON  
**SW KINSMAN ROAD WATERLINE AND ROADWAY IMPROVEMENTS**

**KINSMAN ROAD WATER - PLAN AND PROFILE**  
**STA W5+40 TO STA W12+30**  
PROJECT NO.: 01-0544.210 SCALE: AS SHOWN DATE: MAY 2002

SHEET  
**W-2**  
7 of 25

Exhibit A, Pg. 4

2399R

**NOTES:**

1. P.B.O. = MATERIALS PROVIDED BY ANOTHER CONTRACTOR. SEE GENERAL NOTE 27.
2. ALL PIPE AND FITTINGS SUPPLIED BY CONTRACTOR TO BE RESTRAINED DUCTILE IRON UNLESS OTHERWISE SHOWN.
3. MAINTAIN MINIMUM 2% SLOPE UP (W) ON 18" DI PIPE.
4. PROVIDE MINIMUM 1 FOOT CLEARANCE BETWEEN 18" PIPE, EXISTING GAS AND POWER UTILITIES. PROVIDE POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE. SEE GENERAL NOTE 11.
5. APPROXIMATE IE GAS=146.0. CONTRACTOR TO POTHOLE AND VERIFY EXACT DEPTH AND LOCATION PRIOR TO CONSTRUCTION OF 18" PIPE AND BLOWOFF ASSEMBLY.

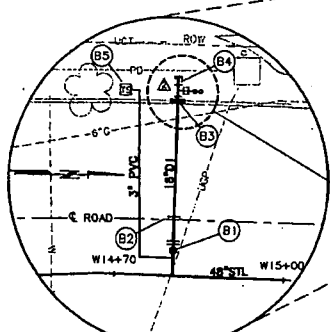
STA W13+68.72  
 INSTALL:  
 1-48"x30" FLG OUTLET, TOP (P.B.O.)  
 1-30" BLIND FLG W/4" FLG CONNECTION, OC.  
 EPOXY COATED (P.B.O.)  
 FURNISH & INSTALL:  
 1-MANWAY VAULT ASSY, SEE SHT W-7  
 1-4" 90° BEND, MJ  
 25 LF 4" DI PIPE  
 1-3" CARY ASSY

STA W14+80.35  
 INSTALL:  
 1-48"x18" FLG OUTLET, LT. (P.B.O.)

STA W17+85.00

INSTALL:  
 1-48"x6" FLG TPO, BOTTOM, (P.B.O.)  
 FURNISH & INSTALL:  
 1-6" FLG INSL JT  
 1-6" BFV, FLG  
 1-6" FLOWJ ADPTR  
 14 LF OF 6" DI PIPE  
 1-6" 90° BEND, MJ, ROLLED UP  
 1-6" BO ASSY

Resolution 2007-045, Exhibit A (12 pgs)  
 June 5, 2007  
 11 of 12



**PLAN**  
 SCALE: NTS

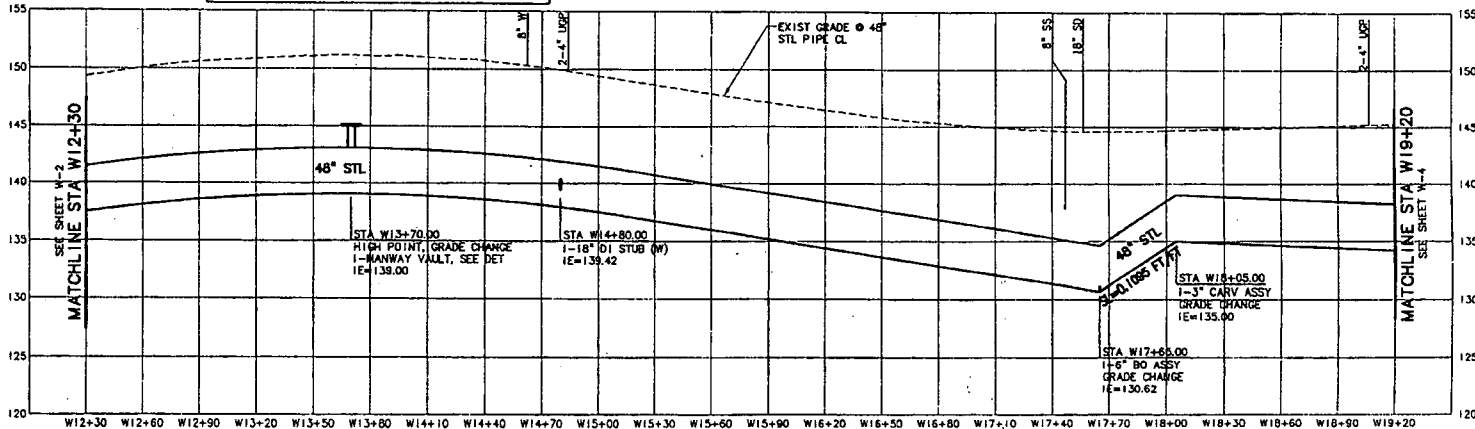
**NOTES (CONT):**

6. IMPORTANT INFORMATION FOR FUTURE CONNECTIONS TO EXIST 18" DI PIPING AT (B4) TO MAINTAIN ADEQUATE CATHODIC PROTECTION, ANY FUTURE EXTENSION OF THE 18" DI PIPING MUST BE ELECTRICALLY ISOLATED FROM THE EXISTING 18" DI PIPING. PROVIDE AN INSULATING COUPLING JOINT AT THIS LOCATION.

**PLAN**  
 SCALE: 1"=30'

**MATERIAL LIST**

- (B1) STA W14+80.00  
 FURNISH & INSTALL:  
 1-18" INSL FLG OF  
 1-18" BFV, FLG  
 1-18" FLOWJ ADPTR  
 1-18" 45° BEND, MJ, ROLLED UP,  
 IE=140.00  
 40 LF 18" DI PIPE
- (B2) 1-18" 45° BEND, MJ, ROLLED  
 HORIZ, IE=143.50
- (B3) 1-STRADDLE THRUST BLOCK  
 1-18"x6" TEE, MJ  
 1-6" CAP, MJ  
 1-2" BO ASSY
- (B4) 1-18" CAP, MJ, IE=144.08  
 SEE NOTE 6
- (B5) STA W14+72.00, 33LT  
 FURNISH & INSTALL:  
 50 LF OF 3" PVC CONDUIT  
 1-POST MOUNTED TEST  
 STATION, SEE DET 2, SHT W-10



**PROFILE**  
 SCALE: 1"=30' HORIZ, 1"=5' VERT

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NO.	DATE	BY	REVISION
12-31-02		DES	RECORD DRAWING

NOTICE	TPD DESIGNED	RECORD DRAWING
0 1/2"	HCM/BAH/DKH	SEE DISCLAIMER SHEET 1.
IF THIS BAR DOES NOT MEASURE UPON DRAWING IF NOT TO SCALE	DHS CHECKED	VERSION 4.1 12-9-97

**RECORD DRAWING**  
 SEE DISCLAIMER SHEET 1.  
 VERSION 4.1  
 12-9-97

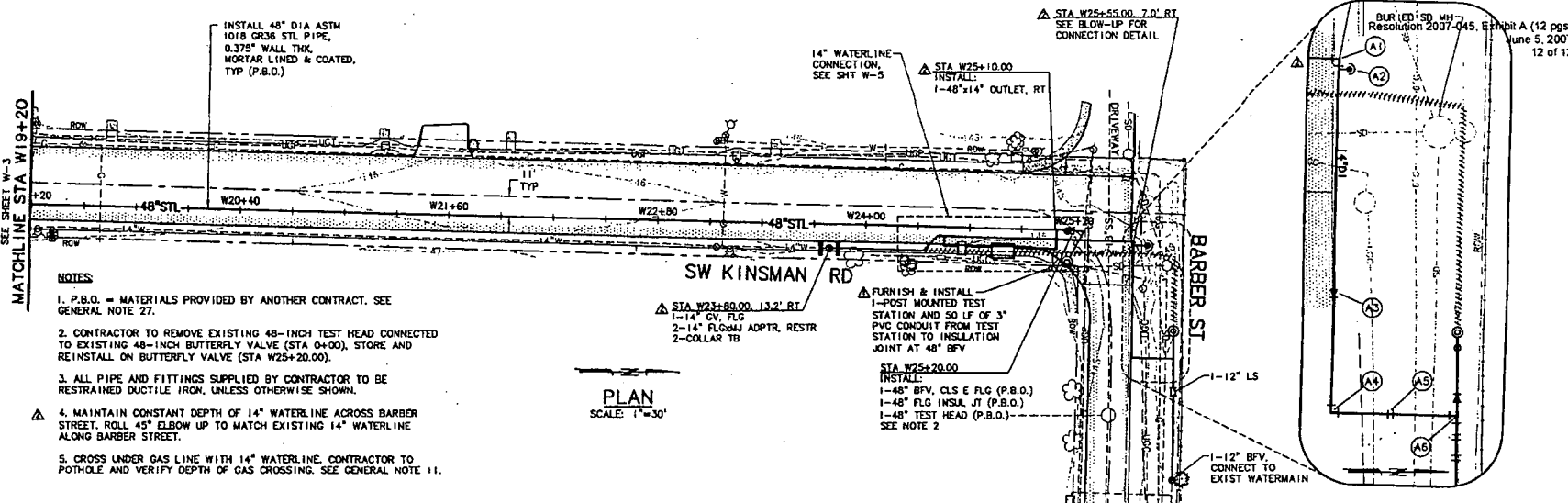
**MSA** Murray, Smith & Associates, Inc.  
 Engineers/Planners  
 121 S.E. Salmon, Suite 900  
 Portland, Oregon 97204  
 Phone 503-225-0010  
 Fax 503-225-9022

City of **WILSONVILLE** IN OREGON  
**SW KINSMAN ROAD WATERLINE AND ROADWAY IMPROVEMENTS**

**KINSMAN ROAD**  
**WATER - PLAN AND PROFILE**  
**STA W12+30 TO STA W19+20**  
 PROJECT NO. 01-0546.210 SCALE: AS SHOWN DATE: MAY 2002  
 SHEET **W-3**  
 8 of 25

Exhibit A, Pg. 5

13992

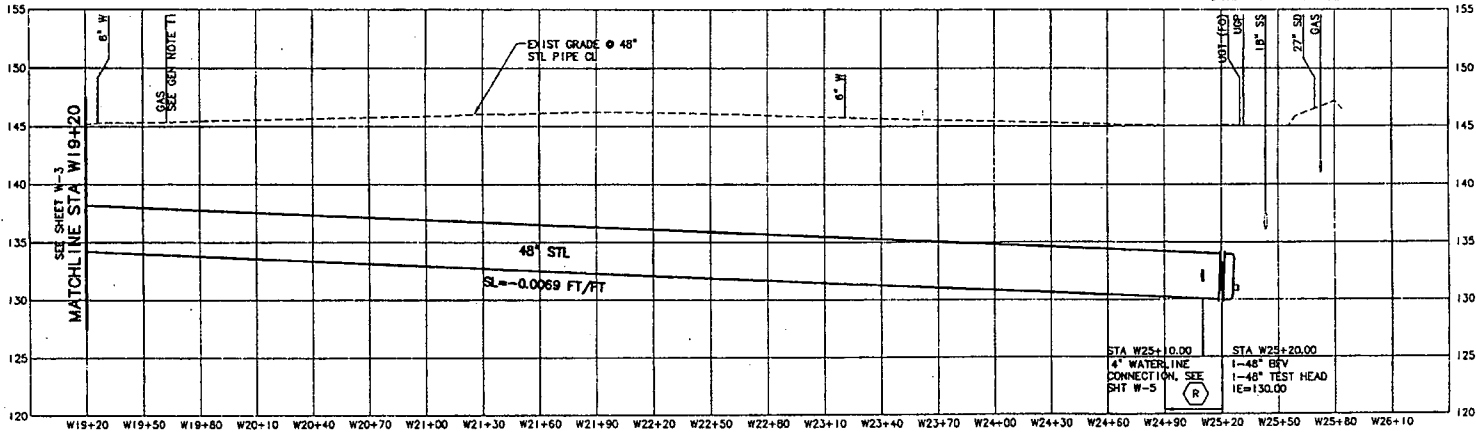


- NOTES**
1. P.B.O. = MATERIALS PROVIDED BY ANOTHER CONTRACT. SEE GENERAL NOTE 27.
  2. CONTRACTOR TO REMOVE EXISTING 48-INCH TEST HEAD CONNECTED TO EXISTING 48-INCH BUTTERFLY VALVE (STA 0+00), STORE AND REINSTALL ON BUTTERFLY VALVE (STA W25+20.00).
  3. ALL PIPE AND FITTINGS SUPPLIED BY CONTRACTOR TO BE RESTRAINED DUCTILE IRON, UNLESS OTHERWISE SHOWN.
  4. MAINTAIN CONSTANT DEPTH OF 14" WATERLINE ACROSS BARBER STREET. ROLL 45° ELBOW UP TO MATCH EXISTING 14" WATERLINE ALONG BARBER STREET.
  5. CROSS UNDER GAS LINE WITH 14" WATERLINE. CONTRACTOR TO POTHOLE AND VERIFY DEPTH OF GAS CROSSING. SEE GENERAL NOTE 11.

**PLAN**  
SCALE: 1"=30'

**PLAN**  
SCALE: NTS

- KEY NOTES**
- (A1) 1-14" 90° BEND, M.I. IE=141.0
  - (A2) 1-2" CARV ASSY, IE=141.3
  - (A3) 1-14"x12" ROCR
  - (A4) 1-12" 90° BEND, ROLL DOWN = 45°, IE=141.0
  - (A5) 1-12" 45° BEND, ROLL HORIZONTAL, IE=137.0
  - (A6) 1-12"x12" TEE, IE=137.0
  - 1-12" 45° BEND, ROLL UP
  - 1-12" 45° BEND, ROLL DOWN
  - 1-12"x6" ROCR
  - 1-6" CV
  - 1-6" 90 ASSY



**PROFILE**  
SCALE: 1"=30' HORIZ, 1"=5' VERT

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NO.	DATE	BY	REVISION
112-31-02			RECORD DRAWING
111-02-02			ADDENDA #1, #2, #3

**NOTICE**

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

TPB DESIGNED  
MCM/BAH/DRH  
DRAWN  
PHS  
CHECKED

**RECORD DRAWING**  
SEE DISCLAIMER, SHEET 1.  
VERSION 4.1  
12-8-97

**MSA** Murray, Smith & Associates, Inc.  
Engineers/Planners

121 S.E. Salinas, Suite 908  
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City of **WILSONVILLE** in OREGON

**SW KINSMAN ROAD WATERLINE AND ROADWAY IMPROVEMENTS**

**KINSMAN ROAD WATER - PLAN AND PROFILE**  
**STA W19+20 TO STA W25+20**

PROJECT NO.: 01-0546.210 SCALE: AS SHOWN DATE: MAY 2002

SHEET **W-4**  
9 of 25

Exhibit A, Pg. 6

2372