



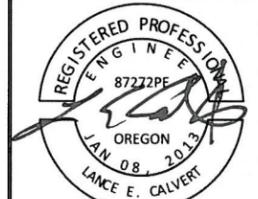
BID DOCUMENTS

CITY OF WEST LINN PW-14-15

2015 WATERLINE PROJECTS



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041



EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

PW-14-15
2015 WATERLINE PROJECTS

Cover Sheet

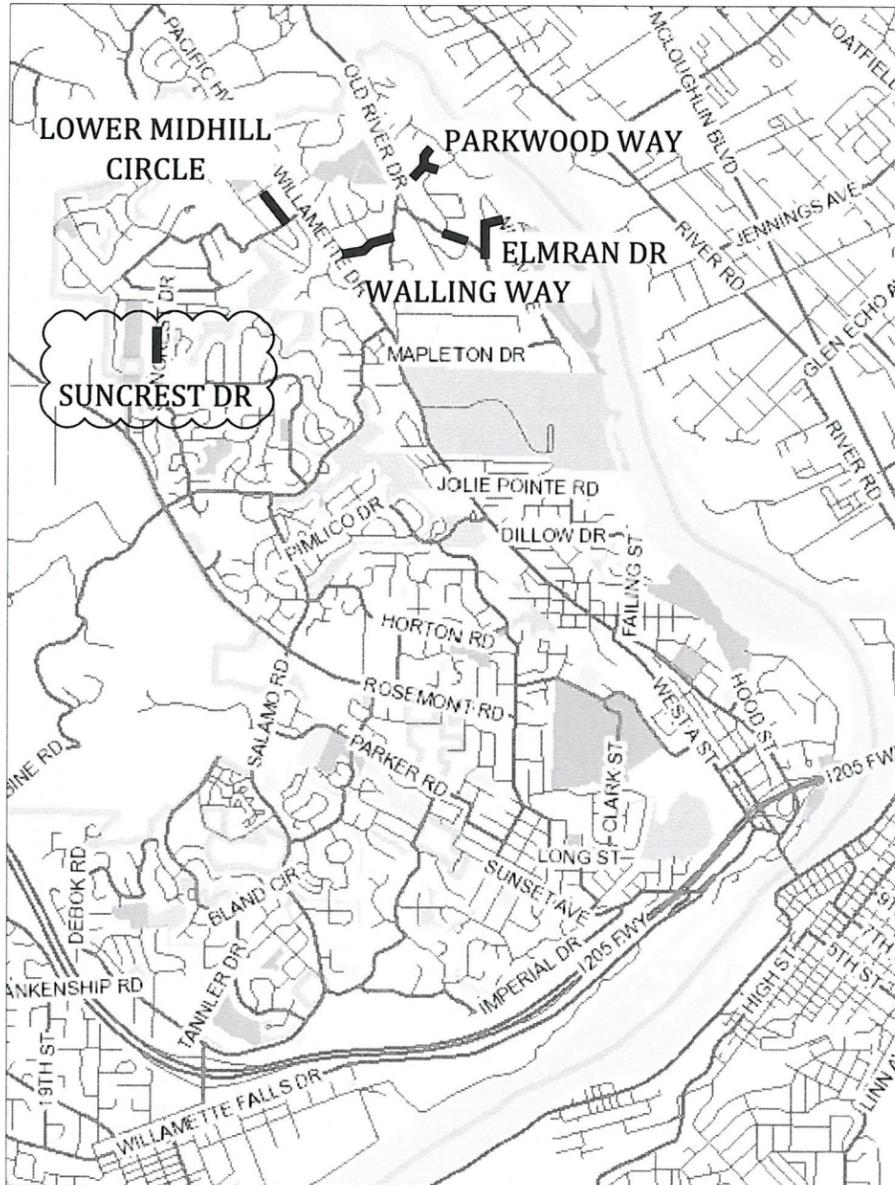
PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 1/20/2015

REVISION

DATE	DESCRIPTION
01/20/2014	ADD SUNCREST

COVER SHEET

CS



WATERLINE IMPROVEMENT SHEET INDEX	
SHEET NO.	SHEET TITLE
CS	COVER SHEET
GN	GENERAL NOTES
QS	QUANTITY SHEET
A1	LOWER MIDHILL CIRCLE
A2	PARKWOOD PLACE
A3	CALAROGA DR
A4	ELMRAN DRIVE (CALAROGA TO GLEN TERR.)
A5	ELMRAN DRIVE (CEDAROAK TO NIXON AVE)
A6	WALLING WAY
A7	SUNCREST DR
SD	STANDARD DETAILS

LEGEND

- NEW WATER MAIN
- EXISTING WATER LINE
- ABANDON WATER LINE
- SANITARY SEWER LINE
- STORM LINE
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW WATER METER & BOX
- NEW REDUCER
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT TO BE ABANDONED
- EXISTING WATER VALVE TO BE ABANDONED

UTILITY PROVIDERS

WATER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
STORM:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
SEWER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
POWER:	PGE	BOBBIE DANIELSON	503-742-8483
STREET LIGHTS:	PGE	LORI SWANSON	503-742-8322
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOBMILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

LOCATION MAP

GENERAL NOTE

All work within the public right-of-way shall conform to the current ODOT Oregon Standard Specifications for Construction

GIS BASE MAP INFORMATION

Data Source: West Linn GIS
OGIC Disclaimer: This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



Know what's below.
Call before you dig.

ATTENTION

Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).



CITY OF WEST LINN

PW-14-15

2015 WATERLINE PROJECTS

GENERAL NOTES:

1. All construction shall conform to the latest City of West Linn Public Works Standard Construction Specifications and Standard Drawings. The ODOT Standard Specifications for Construction 2015 will apply for measurement and payment.
2. This set of plans has been reviewed for compliance with City of West Linn requirements prior to issuance for construction. However such review shall not prevent the City Engineer from requiring correction of errors or omissions in plans found to be in violation of any law or ordinance.
3. The City Engineer does not warrant any quantities shown on these plans.
4. The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5501. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
5. Any approved set of plans must be available on the job site at all times. The contractor's representative (capable of communicating with the City's representatives) shall be on the job at all times the work is being pursued.
6. The Contractor is responsible to provide emergency telephone numbers to the City of West Linn at time of receiving Project Notice to Proceed and have personnel available 24-hours a day to respond to emergencies. If the City is required to respond and make emergency repairs on behalf of the Contractor, the Contractor is responsible to reimburse the City for all costs incurred.
7. It is understood that there will be interfering utilities, service laterals, and other underground pipes, drains or structures encountered on underground projects that are not shown or are shown incorrectly on the plans and/or have not been previously discovered in the field. Contractor agrees this is a normal and usual occurrence in the construction of underground IMPROVEMENT. Furthermore, bidders understand and agree that work in some cases must be done in close proximity to said utilities and underground pipes, drains, and structures which may require a change in operations and may cause sloughing of the trench, additional traffic control, additional pavement and backfill costs, and time. The contractor agrees that a reasonable number of these occurrences are usual and ordinary on underground projects and are reflected in the bid and plan of operation.
8. It is the responsibility of the contractor to obtain any and all other permits and meet any requirements set forth by other agencies or utilities which have jurisdiction at the contractors expense.

WATER NOTES:

1. Water and sanitary sewer line crossings shall conform with the Oregon Administrative Regulation 333-061-0050(9).
2. The existing water lines to be taken out of service are marked on the drawings. These lines are to remain in service until the new lines are properly installed and tested, and water services have been connected. Approval from the City Engineer shall be obtained before any line is abandoned. The existing lines shall then be abandoned and their actual location and abandoned designation recorded on all record drawings. Unless called for otherwise, the abandoned lines will remain in the ground. The ends of all pipes which are abandoned shall be plugged with concrete or other methods approved by the City Engineer.
3. The contractor shall remove all existing valve boxes, meter boxes, hydrants and other fittings required to properly perform the scope of work, or as shown in the drawings. All such materials shall be transported to an area designated by the City and stockpiled. Materials shall be removed and handled in such a manner which will prevent damage. All other existing valves, meters and hydrants not used in the new system or not specified for removal will be removed by the city after the new system is in operation. Salvaged material shall remain the property of the City.
4. The abandoned existing pipe is to remain in the ground, unless otherwise specified. The contractor shall apply black bag the same day to all existing hydrants when permanently disconnected from service.
5. When working with asbestos cement (AC) pipe, the contractor shall take all precautions necessary to reduce airborne asbestos during construction. See technical provision #1.
6. Pipe bedding, trench backfill, and surfacing are incidental to pipe.
7. It is the responsibility of the contractor to schedule water and sewer testing with the City inspector, per West Linn Standards.
8. City to provide and install water meter and customer valve once the new water main is in service.
9. All work behind the water meter must be performed by a licensed plumber in the City of West Linn and the State of Oregon.
10. The plans identify the general location of existing and proposed service lines only, actual locations and types of existing material require field verification and coordination with property owner and the City.

TRAFFIC CONTROL GENERAL NOTES:

1. No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
2. The Contractor shall provide traffic control plan for City Approval
3. Traffic control shall conform to the ODOT Temporary Traffic Control Handbook and MUTCD. The Contractor shall submit a Traffic Control Plan to the City of West Linn Engineering Division for review and acceptance a minimum of 48-hours prior to construction. A copy of the accepted Traffic Control Plan must remain on the job site at all times.
4. Maintain vehicular, bicycle, pedestrian and emergency vehicle access to area homes throughout construction.

CONSTRUCTION NOTES:

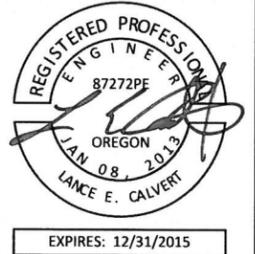
1. Contractor shall provide erosion control best management practices per City of West Linn Standards. Provide catch basin protection and continual sweeping so that no mud, sediment, or rock is left on the streets, with no additional compensation.
2. The contractor is responsible for all construction surveying and construction staking for the project with no additional compensation.
3. Location of hydrants and water meters shall be determined in the field by City of West Linn prior to construction.
4. Drain abandoned pipes and plug watertight. Plug abandoned pipes with gasketed mechanical plugs or grout seals, as directed.
5. All new water main and services shall be tested and approved prior to connection. All tests to follow West Linn Standard Section 403.
6. Water used for construction must be filled at the designated tanker fill site located next to 1970 8th Ave. - No hydrant meters will be provided
7. Contractor shall provide ingress and egress to residential driveways with limited delay.
8. Working Hours: 7:00 AM - 5:00 PM Monday - Friday
9:00 AM - 5:00 PM Saturday - Sunday & Holidays

ADDITIONAL NOTES:

1. Contractor shall be responsible for all construction surveying and construction staking. Final grades as determined by City Engineer.
2. Asphalt concrete pavement repair shall include aggregate base backfill/removal as necessary for meeting final grade.
3. All existing asphalt/concrete shall be sawcut for removals with no additional compensation.



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CONTRACTOR

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ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

PW-14-15
2015 WATERLINE PROJECTS

GENERAL NOTES

PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 12/31/2014

REVISION	
DATE	DESCRIPTION

GENERAL NOTES

GN

Item	ODOT Specification #	Description of material and/or services	Lower Midhill Circle	Parkwood	Calaroga	Elmran	Elrman 2	Walling Way	Addendum: Suncrest	Total	With Addendum Total	Unit
1	00210.90	Mobilization								1	1	LS
2	00225.90(a)(2)	Temporary Protection and Direction of Traffic								1	1	LS
3	00280.90(a)	Erosion Control								1	1	LS
4	00495.90	Trench Resurfacing	250	265	200	145	380	300		1540	1540	SY
5	01140.90(e)	6 Inch Connection to 6 Inch Existing Main						1		1	1	LS
6	01140.90(e)	8 Inch Connection to 6 Inch Existing Main	2	1	1			1		5	5	EA
7	01140.90(e)	8 Inch Connection to 8 Inch Existing Main				2	2		1	4	5	EA
8	01140.90(e)	12 Inch Connection to 8 Inch Existing Main							1	0	1	EA
9	01140.90(e)	12 Inch Connection to 12 Inch Existing Main							1	0	1	EA
10	01140.90(b)	12 Inch Potable Water Pipe, Fittings and Couplings with Restrained Joints and Class B Backfill							200	0	200	Feet
11	01140.90(a)	12 Inch Potable Water Pipe, Fittings and Couplings with Class B Backfill							480	0	480	Feet
12	01140.90(b)	8 Inch Potable Water Pipe, Fittings and Couplings with Restrained Joints and Class B Backfill	130	260	345	315	545	200	40	1795	1835	Feet
13	01140.90(a)	8 Inch Potable Water Pipe, Fittings and Couplings with Class B Backfill	620	50	260	120	470	300		1820	1820	Feet
14	01140.90(b)	6 Inch Potable Water Pipe, Fittings and Couplings with Restrained Joints and Class B Backfill	12	25			10	405		452	452	Feet
15	01140.90(b)	4 Inch Potable Water Pipe, Fittings and Couplings with Restrained Joints and Class B Backfill		295			115			410	410	Feet
16	01140.90(a)	4 Inch Potable Water Pipe, Fittings and Couplings with Class B Backfill		170						170	170	Feet
17	01140.90(d)	Blowoff Assembly, 2 Inch, WL-404A		2			1			3	3	EA
18	01150.90(a)	12 Inch Gate Valve							2	0	2	EA
19	01150.90(a)	8 Inch Gate Valve	1	2	1		2	2	1	8	9	EA
20	01150.90(a)	6 Inch Gate Valve						1		1	1	EA
21	01150.90(a)	4 Inch Gate Valve		2						2	2	EA
22	01150.90(g)	8 Inch Tapping Sleeve and 8 Inch Valve Assembly						1		1	1	EA
23	01150.90(g)	6 Inch Tapping Sleeve and 4 Inch Valve Assembly					1			1	1	EA
24	01140	2-inch Plug of Existing Tap at 6-inch AC Water Main		1						1	1	EA
25	01140	8-inch Plug of Existing Cross							1	0	1	EA
26	01140	6-inch Plug of Existing Tee					1	1		2	2	EA
27	01160.90(a)	Fire Hydrant Assemblies, WL-401	1	1			2	1		5	5	EA
28	01170.90(a)	1 Inch Water Service Connections	16	9	8	8	14	11	12	66	78	EA
29		Connect New Water Service line to Existing Service Line	16	9	8	8	14	11	12	66	78	EA
30		Construction Survey Work								1	1	LS



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CONTRACTOR
 NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

PW-14-15
 2015 WATERLINE PROJECTS
 QUANTITY SHEET

PROJECT NO.: PW-14-15
 DESIGNED BY: ELAIS
 DRAWN BY: NBRENNAN
 CHECKED BY: L CALVERT
 DATE: 1/21/2015

DATE	DESCRIPTION
01/20/2014	ADD SUNCREST QTY

QUANTITY SHEET
 QS



CITY OF WEST LINN
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 WEST LINN, OREGON 97068
 WWW.WESTLINNOREGON.GOV
 PHONE: (503) 722-5500
 FAX: (503) 656-4106

CONTRACTOR

NAME:
 ADDRESS:
 PHONE:
 FAX:

CONSTRUCTION NOTES

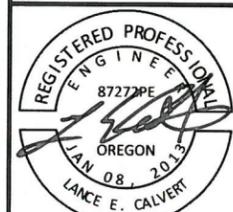
NO	DESCRIPTION	UNIT	QTY
8	8 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	130
	8 INCH DIP, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	620
6	6 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL (FIRE HYDRANT STUB OUT)	LF	12
8V	8 INCH GATE VALVE	EA	1
6R	6"X8" REDUCER FLGxFLG*	EA	2
86	8 INCH CONNECTION TO 6 INCH EXISTING MAIN	EA	2
H	FIRE HYDRANT ASSEMBLIES, WL-401	EA	1
M	1 INCH WATER SERVICE CONNECTIONS	EA	16

GENERAL CONSTRUCTION NOTES
 AC EXISTING 6-INCH ASBESTOS CEMENT
 WATERLINE TO BE ABANDONED IN PLACE
 V REMOVE EXISTING VALVES, SALVAGE TO
 CITY OF WEST LINN PUBLIC WORKS
 *"FITTINGS" CONVERTED TO EQUIVALENT PIPE
 LENGTH PER ODOT SPECIFICATION 1140.80 (a).
 INCLUDED IN TOTAL PIPE LENGTH

CITY OF WEST LINN
 2015 WATERLINE PROJECTS

LOWER MIDHILL CIRCLE
 FROM MARYLHURST DR TO DEAD END

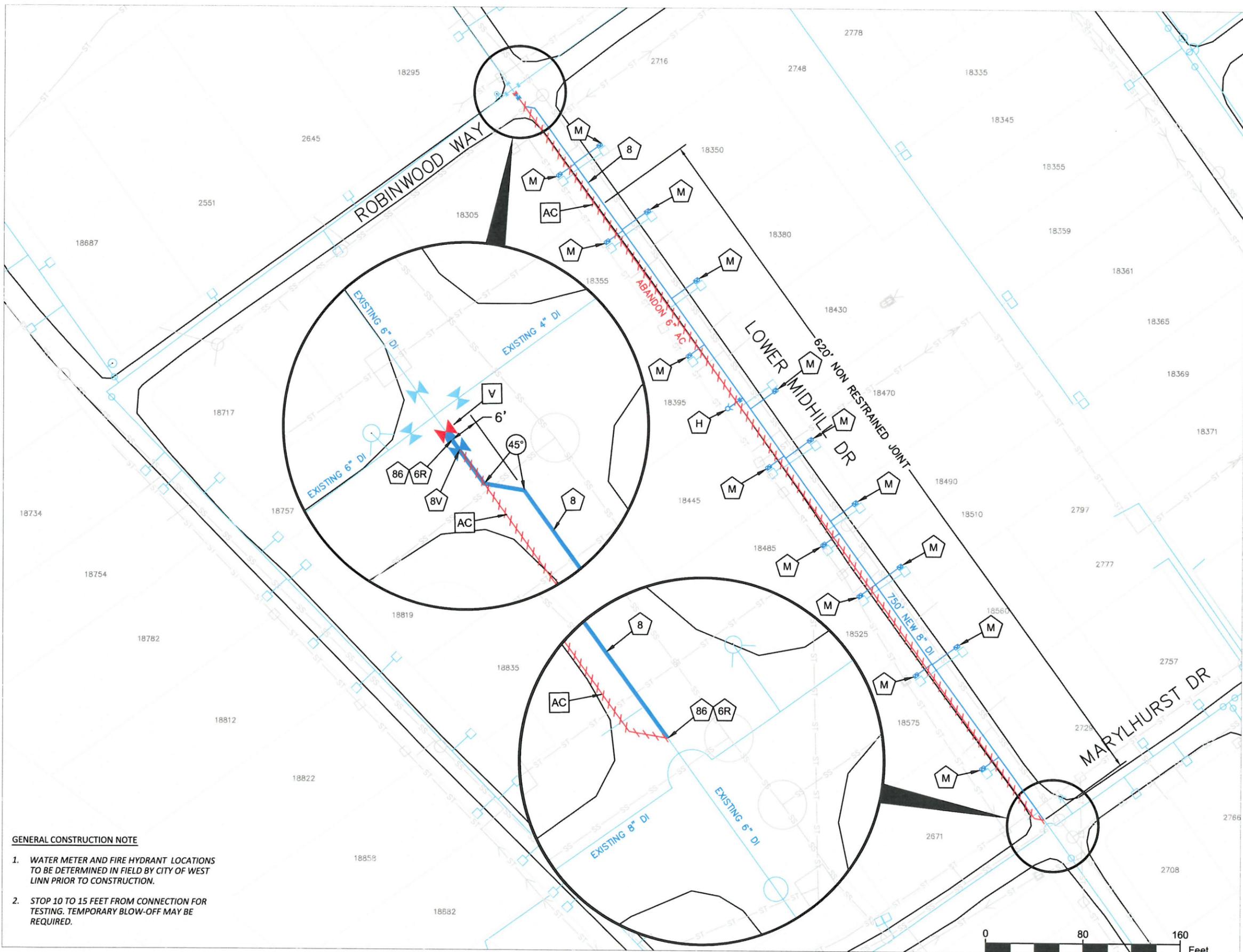
DATE	REVISION	DESCRIPTION



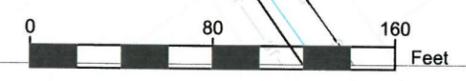
PROJECT NO.: PW-14-15
 DESIGNED BY: ELAIS
 DRAWN BY: NBRENNAN
 CHECKED BY: LCALVERT
 DATE: 12/31/2014
 SITE PLAN
 SCALE: 1" = 80'

EXPIRES: 12/31/2015

A1



- GENERAL CONSTRUCTION NOTE**
1. WATER METER AND FIRE HYDRANT LOCATIONS TO BE DETERMINED IN FIELD BY CITY OF WEST LINN PRIOR TO CONSTRUCTION.
 2. STOP 10 TO 15 FEET FROM CONNECTION FOR TESTING. TEMPORARY BLOW-OFF MAY BE REQUIRED.





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CONTRACTOR

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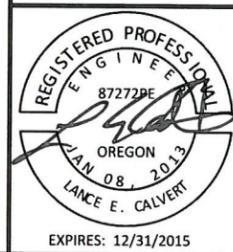
CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
8	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	260
6	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	50
6	6 INCH DIP, FITTINGS & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL (FIRE HYDRANT STUB OUT)	LF	25
4	4 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	295
4	4 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	170
BO	BLOWOFF ASSEMBLY, 2 INCH, WL-404A	EA	2
PG	2 INCH PLUG OFF OF TAP	EA	1
8C	8 INCH FLG CROSS*	EA	1
8T	8 INCH FLG TEE*	EA	1
4V	4 INCH GATE VALVE	EA	2
8V	8 INCH GATE VALVE	EA	2
6R	6"X8" REDUCER*	EA	2
4R	4"X8" REDUCER*	EA	2
86	8 INCH CONNECTION TO EXISTING 6 INCH MAIN	EA	1
H	FIRE HYDRANT ASSEMBLIES, WL-401	EA	1
M	1 INCH WATER SERVICE CONNECTIONS	EA	9
GL	GENERAL CONSTRUCTION NOTES EXISTING 1 1/2-2 INCH GL WATERLINE TO BE ABANDONED IN PLACE *"FITTINGS" CONVERTED TO EQUIVALENT PIPE LENGTH PER ODOT SPECIFICATION 1140.80 (a). INCLUDED IN TOTAL PIPE LENGTH		

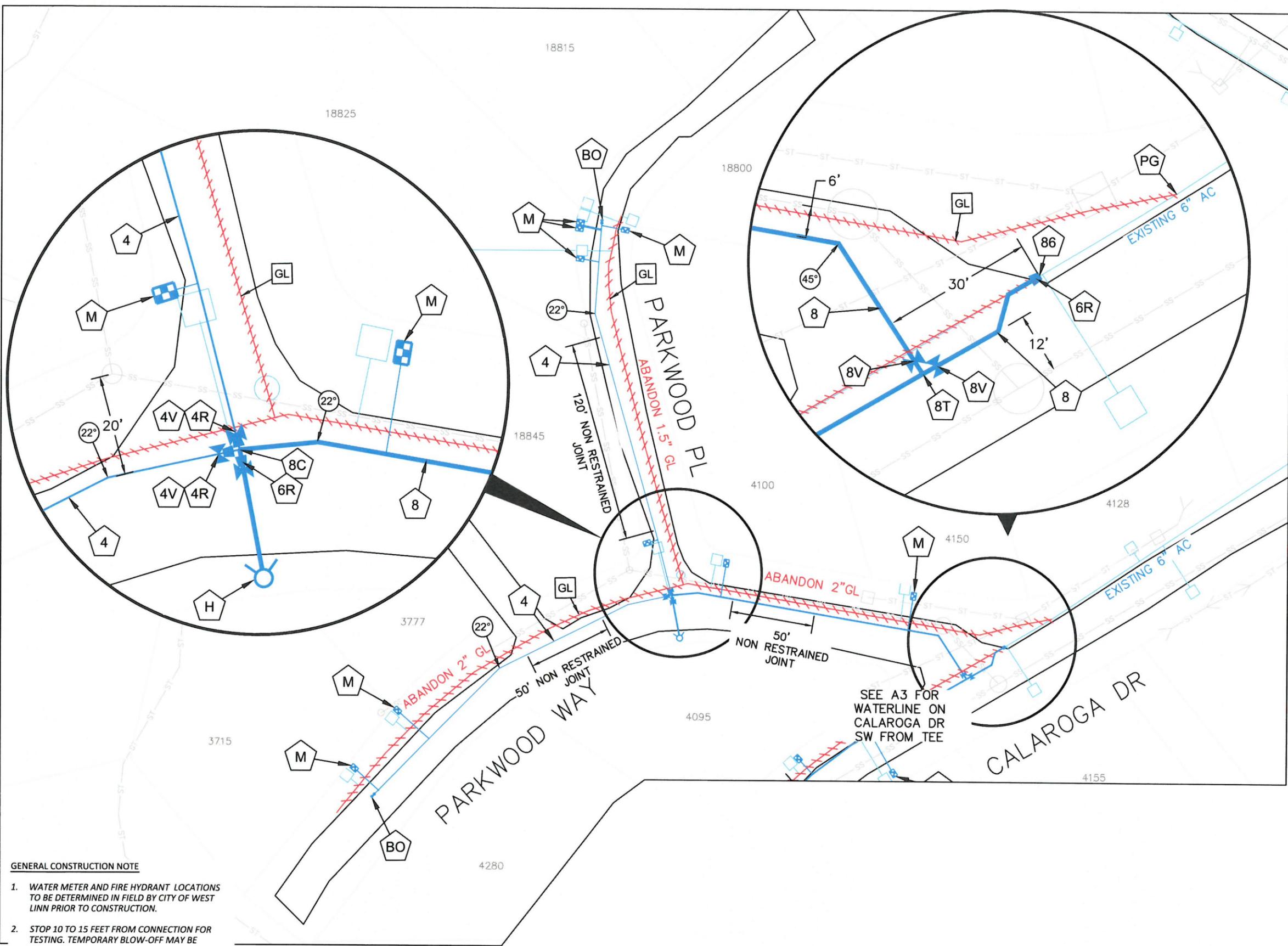
CITY OF WEST LINN
 2015 WATERLINE PROJECTS

PARK WOOD PLACE AND PARKWOOD WAY FROM CALAROGA DR TO DEAD END

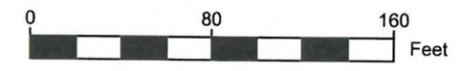
DATE	REVISION	DESCRIPTION



PROJECT NO.: PW-14-15
 DESIGNED BY: ELAIS
 DRAWN BY: NBRENNAN
 CHECKED BY: L CALVERT
 DATE: 12/31/2014
 SITE PLAN
 SCALE: 1" = 80'
A2



- GENERAL CONSTRUCTION NOTE
1. WATER METER AND FIRE HYDRANT LOCATIONS TO BE DETERMINED IN FIELD BY CITY OF WEST LINN PRIOR TO CONSTRUCTION.
 2. STOP 10 TO 15 FEET FROM CONNECTION FOR TESTING. TEMPORARY BLOW-OFF MAY BE REQUIRED.





West Linn

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PHONE: (503) 722-5500
FAX: (503) 656-4106

CONTRACTOR

NAME:
ADDRESS:
PHONE:
FAX:

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
8	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	345
	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	260
86	8 INCH CONNECTION TO EXISTING 6 INCH MAIN	EA	1
M	1 INCH WATER SERVICE CONNECTIONS	EA	8
6R	6"X8" REDUCER*	EA	1

GENERAL CONSTRUCTION NOTES

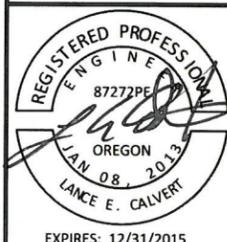
- V REMOVE EXISTING VALVES, SALVAGE TO CITY OF WEST LINN PUBLIC WORKS
- GL EXISTING 1 1/2" GL WATERLINE TO BE ABANDONED IN PLACE
- AC EXISTING 6-INCH ASBESTOS CEMENT WATERLINE TO BE ABANDONED IN PLACE

*"FITTINGS" CONVERTED TO EQUIVALENT PIPE LENGTH PER ODOT SPECIFICATION 1140.80 (a), INCLUDED IN TOTAL PIPE LENGTH

**CITY OF WEST LINN
2015 WATERLINE PROJECTS**

CALAROGA DR FROM
PARKWOOD PLACE TO CALAROGA DR

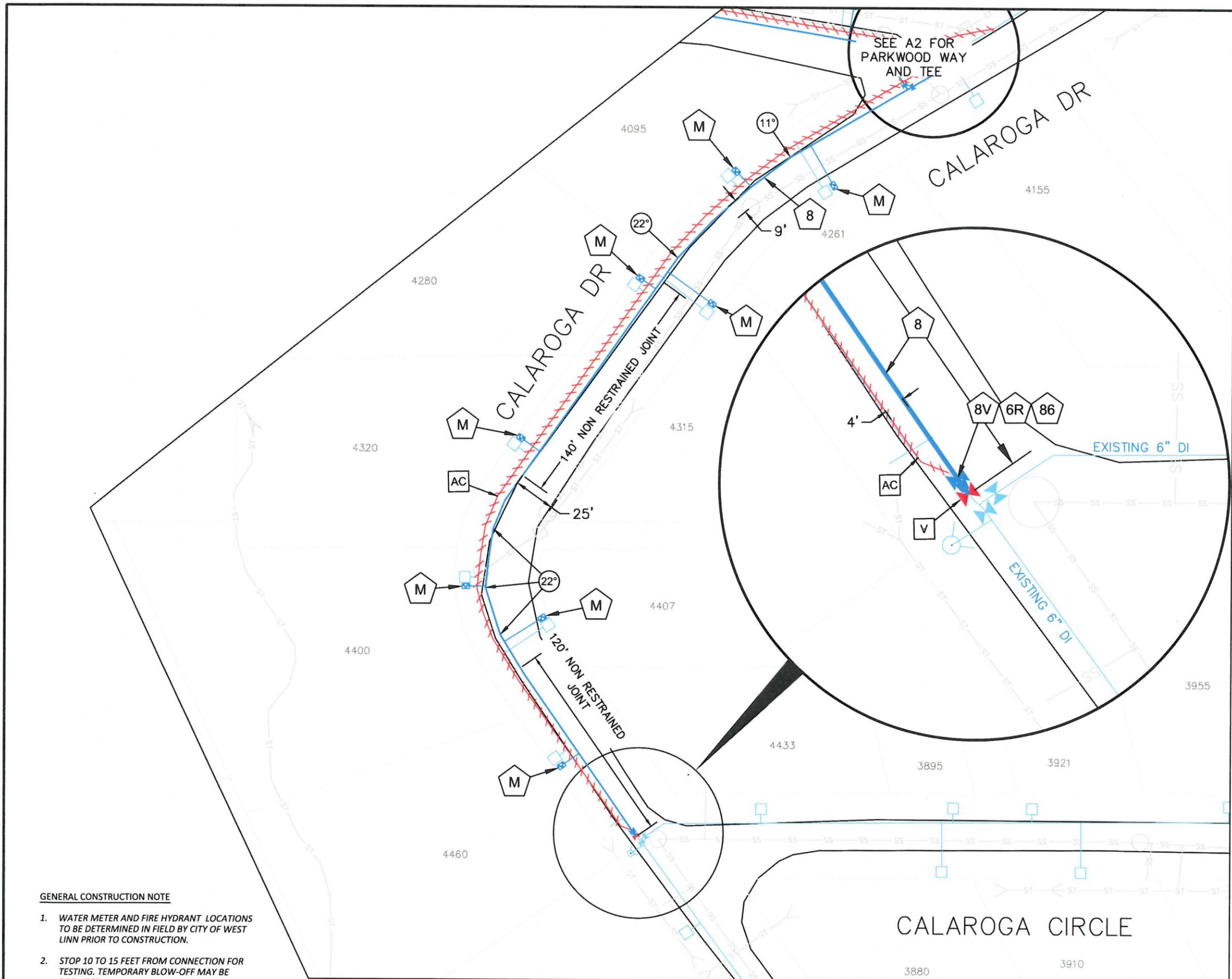
REVISION	
DATE	DESCRIPTION



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DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: L CALVERT
DATE: 12/31/2014

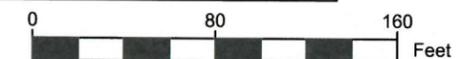
SITE PLAN
SCALE: 1" = 80'

A3



GENERAL CONSTRUCTION NOTE

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CONTRACTOR

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CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
8	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	315
	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	120
88	8 INCH CONNECTION TO EXISTING 8 INCH MAIN	EA	2
M	1 INCH WATER SERVICE CONNECTIONS	EA	8

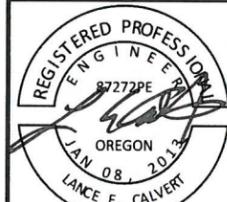
GENERAL CONSTRUCTION NOTES
AC EXISTING 6 INCH ASBESTOS CEMENT WATERLINE TO BE ABANDONED IN PLACE
PH POTHOLE TO DETERMINE ACTUAL LOCATION OF CONNECTION TO DUCTILE IRON

*"FITTINGS" CONVERTED TO EQUIVALENT PIPE LENGTH PER ODOT SPECIFICATION 1140.80 (a), INCLUDED IN TOTAL PIPE LENGTH

**CITY OF WEST LINN
2015 WATERLINE PROJECTS**

ELMRAN DR
FROM CALAROGA DR TO GLEN TERRACE

DATE	REVISION DESCRIPTION

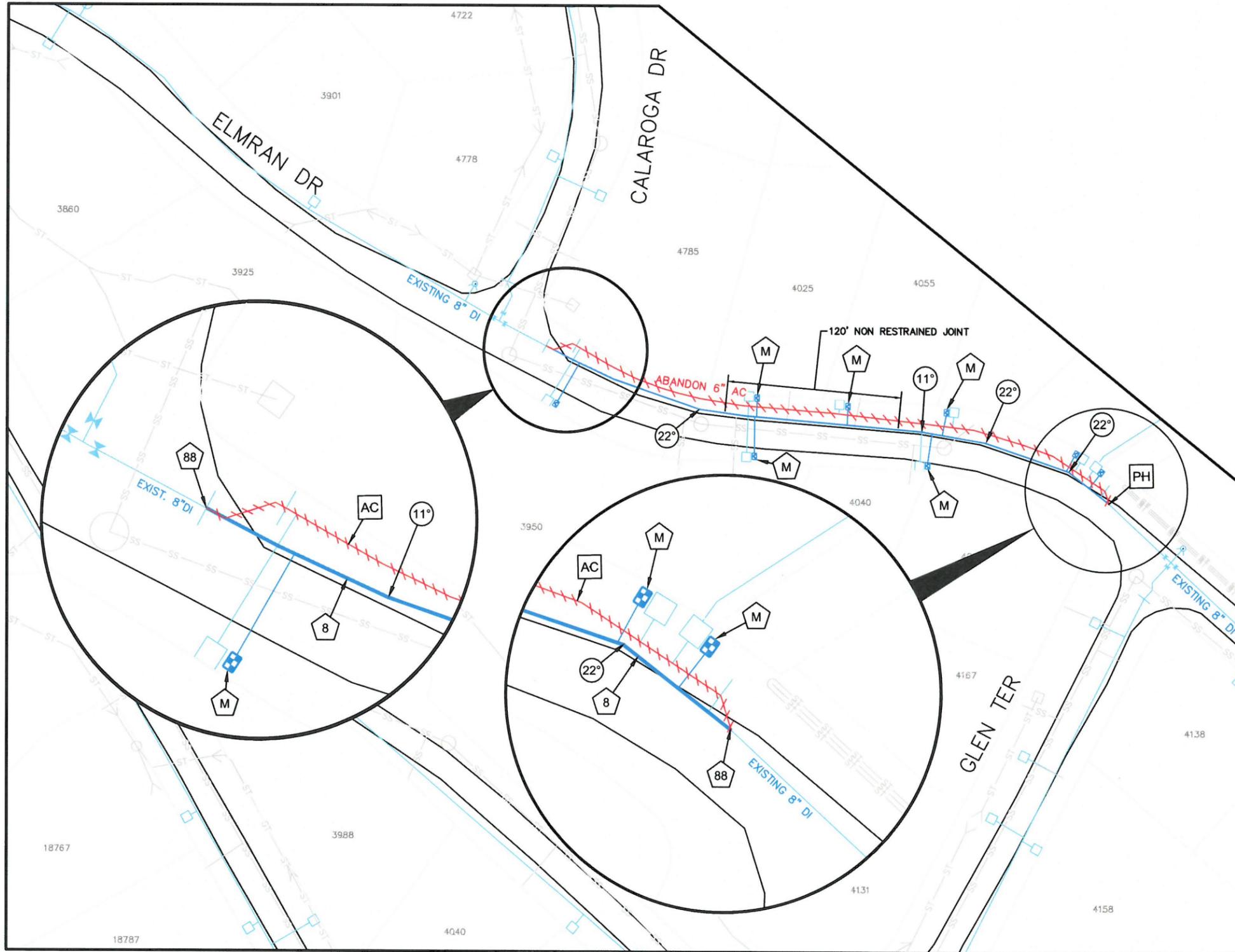


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DESIGNED BY: ELAIS
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CHECKED BY: LCALVERT
DATE: 12/31/2014

SITE PLAN
SCALE: 1" = 80'

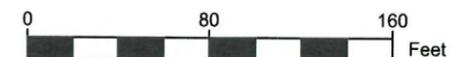
EXPIRES: 12/31/2015

A4



GENERAL CONSTRUCTION NOTE

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2. STOP 10 TO 15 FEET FROM CONNECTION FOR TESTING. TEMPORARY BLOW-OFF MAY BE REQUIRED.



GENERAL CONSTRUCTION NOTE

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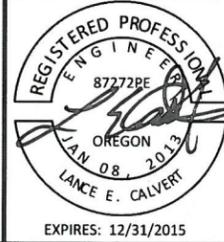
CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
66	6 INCH CONNECTION TO EXISTING 6 INCH MAIN	EA	1
86	8 INCH CONNECTION TO EXISTING 6 INCH MAIN	EA	1
8	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	200
8	8 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS CLASS B BACKFILL	LF	300
6	6 INCH DUCTILE IRON PIPE, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	390
8R	6"X8" REDUCER*	EA	3
8C	8" FLG CROSS*	EA	1
8V	8 INCH GATE VALVE	EA	2
6V	6 INCH GATE VALVE	EA	1
PG	PLUG 6 INCH AC PIPE AT 8 INCH MAIN	EA	1
88	8 INCH TAPPING SLEEVE AND 8 INCH VALVE ASSEMBLY	EA	1
H	FIRE HYDRANT ASSEMBLIES, WL-401	EA	1
M	1 INCH WATER SERVICE CONNECTIONS	EA	11

GENERAL CONSTRUCTION NOTES
 EXISTING 4 INCH CAST IRON WATERLINE TO BE ABANDONED IN PLACE
 EXISTING 6 INCH ASBESTOS CEMENT WATERLINE TO BE ABANDONED IN PLACE
 REMOVE EXISTING HYDRANTS, SALVAGE TO CITY OF WEST LINN PUBLIC WORKS
 REMOVE EXISTING VALVES, SALVAGE TO CITY OF WEST LINN PUBLIC WORKS
 *"FITTINGS" CONVERTED TO EQUIVALENT PIPE LENGTH PER ODOT SPECIFICATION 1140.80 (a). INCLUDED IN TOTAL PIPE LENGTH

**CITY OF WEST LINN
 2015 WATERLINE PROJECTS**

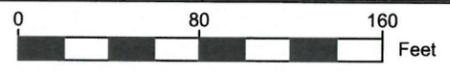
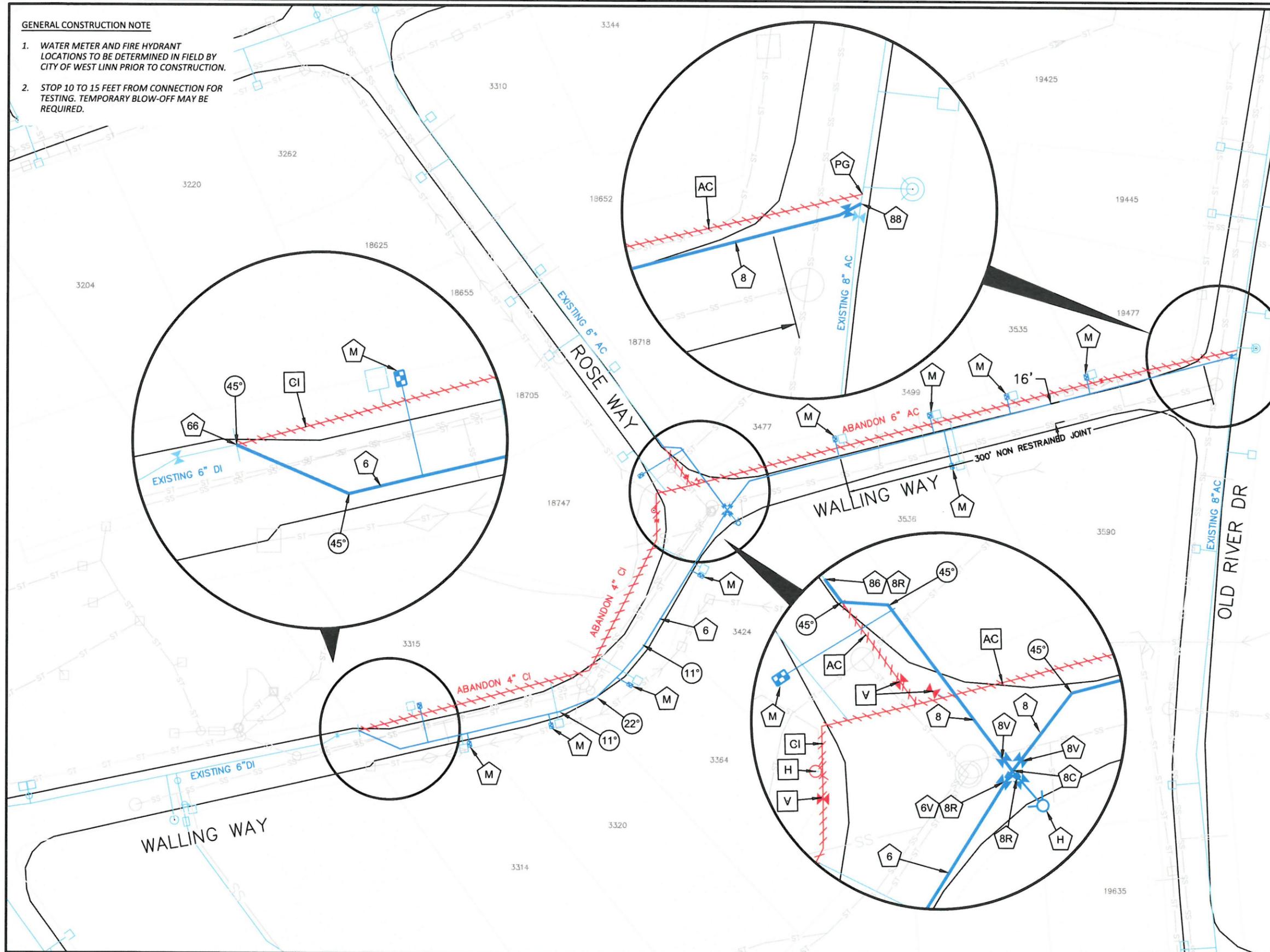
DATE	DESCRIPTION



PROJECT NO.: PW-14-15
 DESIGNED BY: ELAIS
 DRAWN BY: NBRENNAN
 CHECKED BY: L.CALVERT
 DATE: 12/31/2014

SITE PLAN
 SCALE: 1" = 80'

A6





CITY OF WEST LINN
 22500 SALAMO ROAD
 WEST LINN, OREGON 97068
 WWW.WESTLINNOREGON.GOV
 PHONE: (503) 722-5500
 FAX: (503) 656-4106

CONTRACTOR

NAME:
 ADDRESS:
 PHONE:
 FAX:

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
12	12 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	200
	12 INCH DIP, FITTINGS* & COUPLINGS W/ CLASS B BACKFILL	LF	480
8	8 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND CLASS B BACKFILL	LF	40
12V	12 INCH GATE VALVE	EA	2
8V	8 INCH GATE VALVE	EA	1
8R	12"x8" REDUCER FLGxFLG*	EA	1
12T	12"x12"x8" TEE. FLGxFLGxFLG*	EA	1
8P	INSTALL 8" PLUG	EA	1
128	12 INCH CONNECTION TO EXISTING 8 INCH MAIN	EA	1
88	8 INCH CONNECTION TO EXISTING 8 INCH MAIN	EA	1
12A	REMOVE EXISTING 12" PLUG CONNECT TO EXISTING 12" BUTTERFLY VALVE.	EA	1
M	1 INCH WATER SERVICE CONNECTIONS, WL-DETAIL 402.	EA	12
GENERAL CONSTRUCTION NOTES			
V	REMOVE EXISTING VALVES, SALVAGE TO CITY OF WEST LINN PUBLIC WORKS		
AC	EXISTING 8 INCH ASBESTOS CEMENT WATERLINE TO BE ABANDONED IN PLACE		
**"FITTINGS" CONVERTED TO EQUIVALENT PIPE LENGTH PER ODOT SPECIFICATION 1140.80 (a), INCLUDED IN TOTAL PIPE LENGTH			

CITY OF WEST LINN
 WATERLINE

SUNCREST DR
 FROM RIDGEBROOK DR TO RIDGEBROOK DR

REVISION

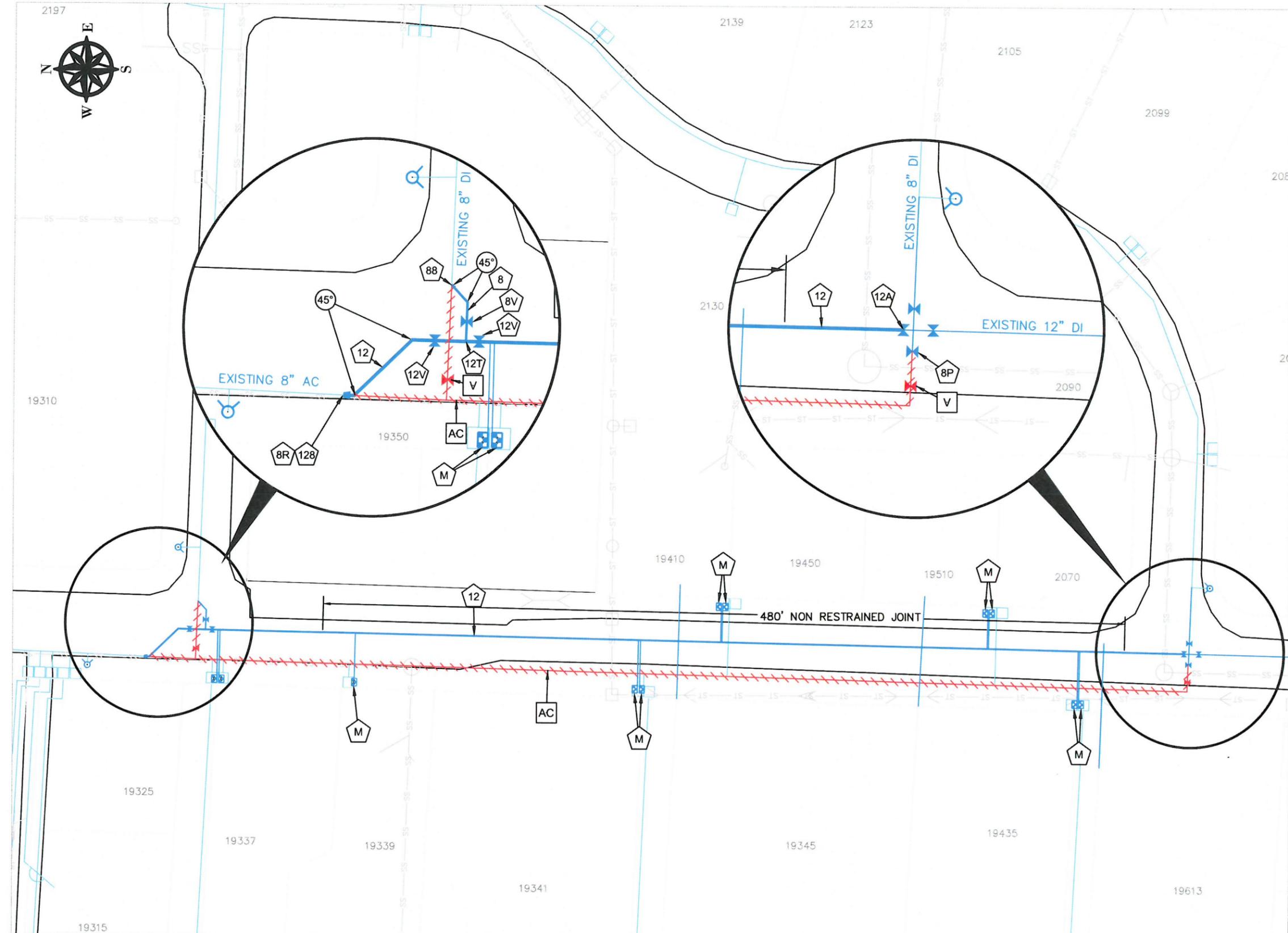
DATE	DESCRIPTION
01/20/2015	ADDED SHEET A7



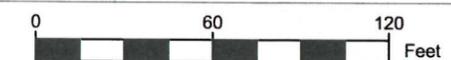
PROJECT NO.:
 DESIGNED BY: KLE
 DRAWN BY: NBRENNAN
 CHECKED BY: KLE
 DATE: 1/20/2015

SITE PLAN
 SCALE: 1" = 60' Horizontal

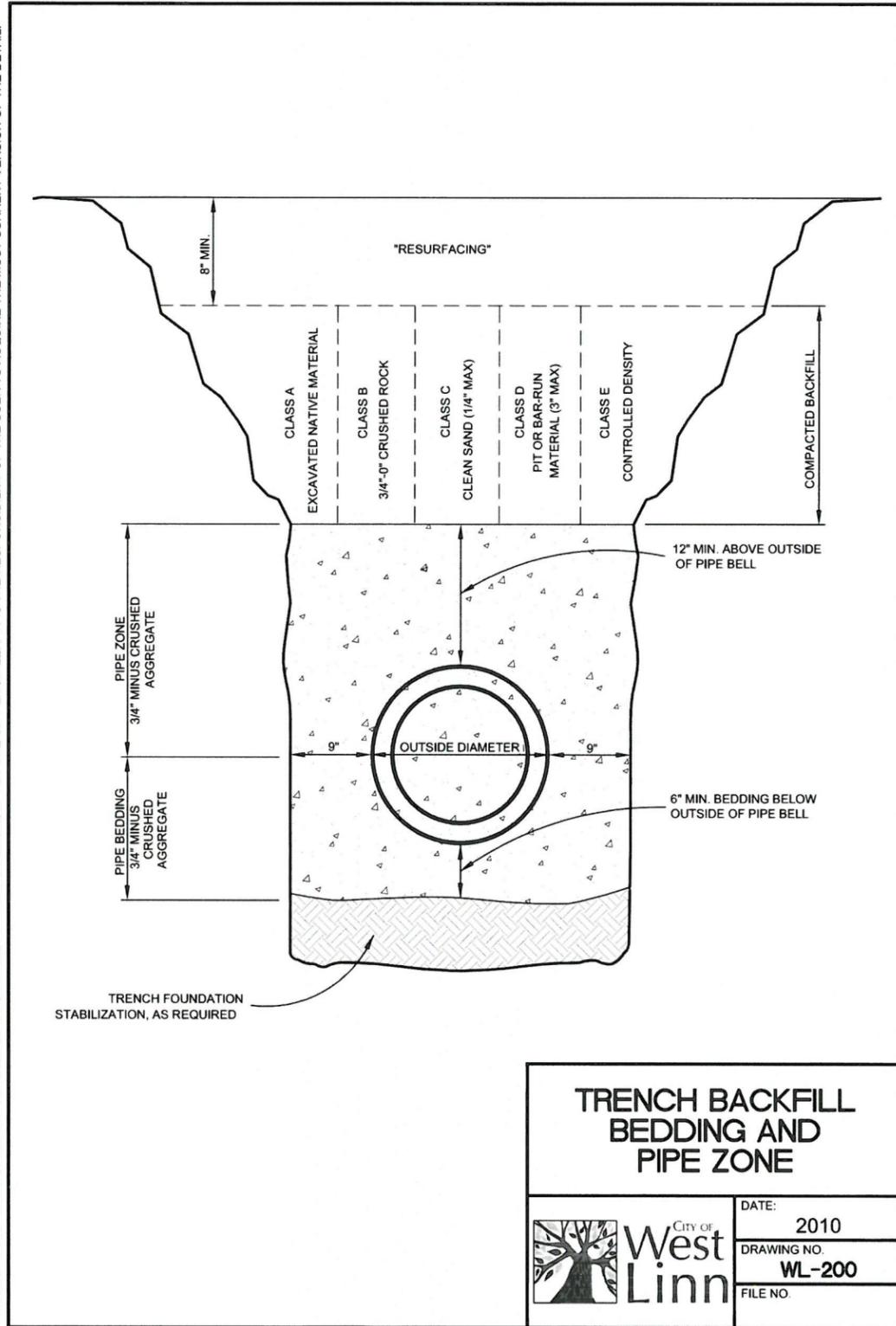
A7



19315
 GENERAL CONSTRUCTION NOTE
 WATER METER LOCATIONS TO BE DETERMINED IN FIELD BY CITY OF WEST LINN PRIOR TO CONSTRUCTION.



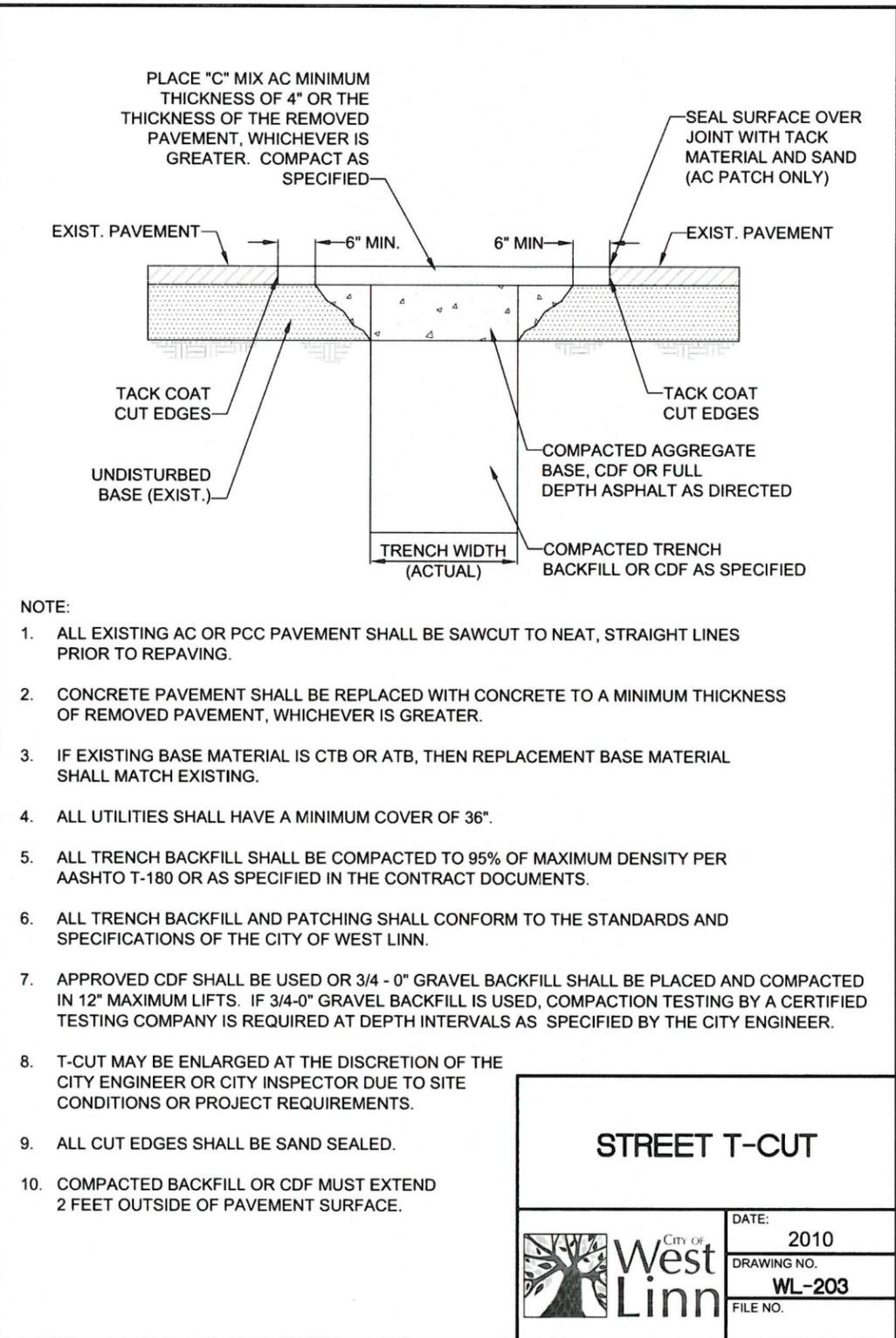
THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



**TRENCH BACKFILL
BEDDING AND
PIPE ZONE**

	DATE: 2010
	DRAWING NO. WL-200
	FILE NO.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



- NOTE:**
1. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT TO NEAT, STRAIGHT LINES PRIOR TO REPAVING.
 2. CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.
 3. IF EXISTING BASE MATERIAL IS CTB OR ATB, THEN REPLACEMENT BASE MATERIAL SHALL MATCH EXISTING.
 4. ALL UTILITIES SHALL HAVE A MINIMUM COVER OF 36".
 5. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180 OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
 6. ALL TRENCH BACKFILL AND PATCHING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF WEST LINN.
 7. APPROVED CDF SHALL BE USED OR 3/4 - 0" GRAVEL BACKFILL SHALL BE PLACED AND COMPACTED IN 12" MAXIMUM LIFTS. IF 3/4-0" GRAVEL BACKFILL IS USED, COMPACTION TESTING BY A CERTIFIED TESTING COMPANY IS REQUIRED AT DEPTH INTERVALS AS SPECIFIED BY THE CITY ENGINEER.
 8. T-CUT MAY BE ENLARGED AT THE DISCRETION OF THE CITY ENGINEER OR CITY INSPECTOR DUE TO SITE CONDITIONS OR PROJECT REQUIREMENTS.
 9. ALL CUT EDGES SHALL BE SAND SEALED.
 10. COMPACTED BACKFILL OR CDF MUST EXTEND 2 FEET OUTSIDE OF PAVEMENT SURFACE.

STREET T-CUT

	DATE: 2010
	DRAWING NO. WL-203
	FILE NO.



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CONTRACTOR

NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

PW-14-15
WATERLINE PROJECTS 2015

STANDARD DETAILS

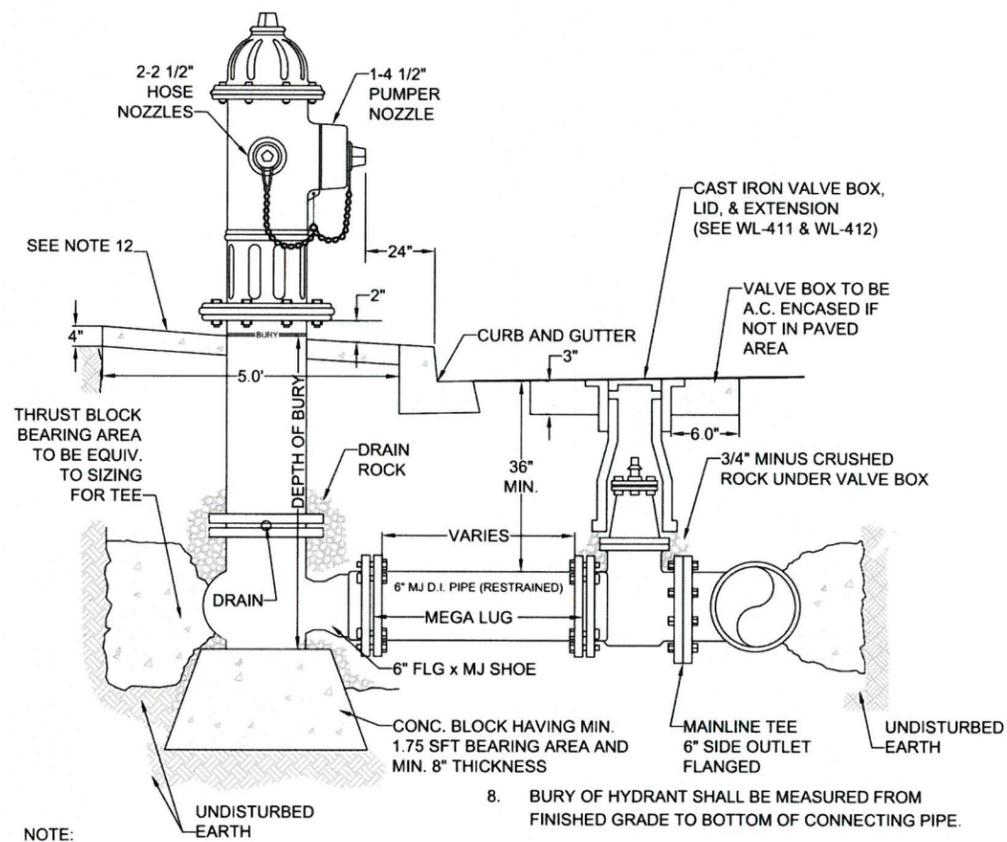
PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 12/23/2014

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS

SD1

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NOTE:

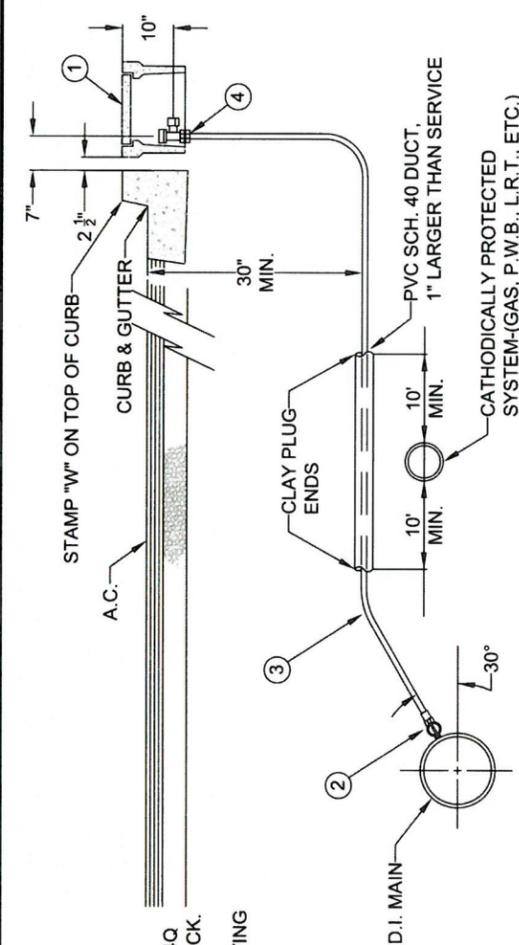
1. HYDRANT TO BE MUELLER CENTURION MDL A-423 ONLY WITH 1 1/2" OPER. NUTS OR CLOW MEDALLION F-2545.
2. HYDRANT COLOR TO BE MILLER EQUIP. ENAMEL 0 E 40 (SAFETY YELLOW).
3. JOINTS TO BE RESTRAINED BY 3/4" DIA. GALVANIZED STEEL RODS AND THRUST BLOCKS OR MEGALUGS AND THRUST BLOCKS.
4. ALL FITTINGS IN CONTACT W/CONCRETE SHALL BE WRAPPED IN PLASTIC, HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATIONAL.
5. MIN. 4 CFT OF 1 1/2" - 3/4" CLEAN DRAIN ROCK SHALL BE PLACED AROUND SHOE UP TO A MIN. OF 6" ABOVE DRAIN OUTLETS.
6. WHERE PLANTER STRIP EXISTS, HYDRANT SHALL BE PLACED SO THE FRONT PORT IS A MINIMUM OF 24" BEHIND THE FACE OF THE CURB.
7. WHERE INTEGRAL S/W & CURB EXISTS, HYDRANT SHALL BE PLACED AT BACK OF THE SIDEWALK, OR AS DIRECTED BY ENGINEER.
8. BURY OF HYDRANT SHALL BE MEASURED FROM FINISHED GRADE TO BOTTOM OF CONNECTING PIPE.
9. THRUST BLOCK AT FIRE HYDRANT TEE SHALL BE EQUIVALENT TO TEE PIPE SIZING (SEE WL-406).
10. HYDRANT VALVE SHALL BE MUELLER RESILIENT WEDGE GATE VALVE #A-2360-16 ONLY.
11. NO EXTENSIONS ALLOWED
12. HYDRANT SHALL HAVE A 5' x 5' x 4" THICK CONCRETE APRON. THERE SHALL BE 2" OF CLEARANCE BETWEEN THE TOP OF THE APRON AND THE BOTTOM OF THE FLANGED BOLT PATTERN OF THE HYDRANT.
13. CONCRETE SHALL BE COMMERCIAL MIXED WITH A BREAKING STRENGTH OF NOT LESS THAN 3000 PSI.

STANDARD FIRE HYDRANT ASSEMBLY



DATE: 2010
DRAWING NO. WL-401
FILE NO.

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MATERIAL:

1. BROOKS METER BOX, BODY NO. 37, LID AND COVER NO. 37-S.
2. MUELLER CORP. STOP NO. H-15008 OR FORD F1000-4Q CORP. STOP WITH OPERATING NUT AT 3 OR 9 O'CLOCK.
3. 1" SOFT TEMPER, TYPE "K" COPPER TUBING COMPLYING WITH ASTM B-88.
4. MUELLER ANGLE METER STOP NO. H-14258 (FORD NO. KV43-444W-Q).

NOTE:

1. MACHINE DRILLED AND TAPPED ONLY. NO HAND DRILLING IS ALLOWED.
2. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
3. ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY AASHTO T-180.
4. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
5. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.
6. TAPS INTO MAIN TO HAVE 18" SEPARATION ON CENTER MINIMUM.
7. ANGLE METER STOPS TO BE 18" FROM PROPERTY LINE AND NOT IN DRIVEWAY APPROACH.
8. METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.

STANDARD 1" WATER SERVICE



DATE: 2010
DRAWING NO. WL-402
FILE NO.



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CONTRACTOR
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ADDRESS: -N/A
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FAX: -N/A

**PW-14-15
WATERLINE PROJECTS 2015**

STANDARD DETAILS

PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 12/23/2014

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS

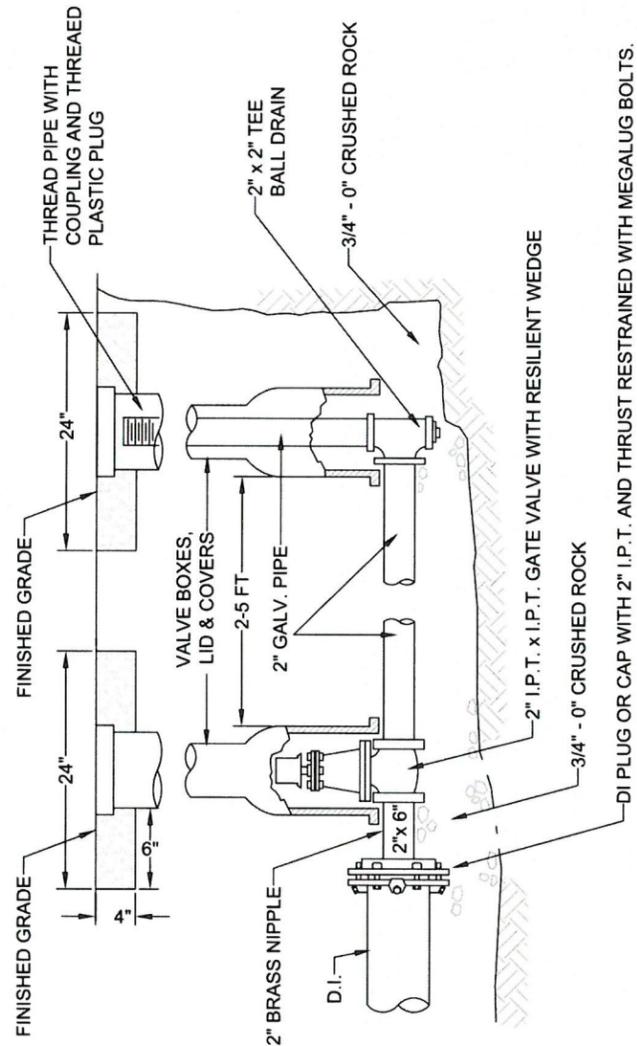
SD2

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NOTE:

1. VALVE BOX SHALL BE PER STANDARD DETAIL WL-411.
2. VALVE BOX TO BE CONCRETE ENCASED AS SHOWN, IF NOT IN PAVED AREA.
3. BLOW-OFF UNIT SHALL BE BACKFILLED WITH 3/4"-0" CRUSHED ROCK AND COMPACTED TO 95% OF MAXIMUM DENSITY DETERMINED BY AASHTO T-180.
4. PLACE BLOW-OFF STANDPIPE 3 FT. INSIDE R.O.W. LINE AT END OF STREET (2 FT FROM BARRICADE).

BLOW-OFF SIZES REQUIRED	
MAIN SIZE	BLOW-OFF SIZE
4" TO 6"	2"

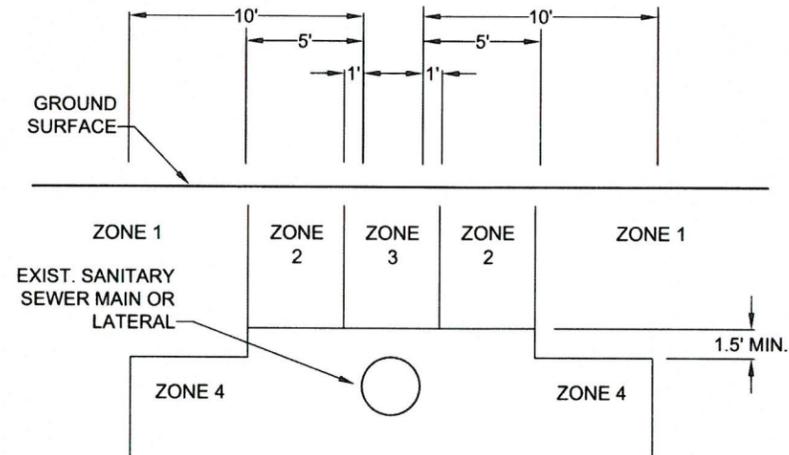


STANDARD 2" BLOW-OFF ASSEMBLY



DATE: 2010
DRAWING NO. WL-404A
FILE NO.

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- ZONE 1: ONLY CROSSING RESTRICTIONS APPLY
- ZONE 2: CASE-BY-CASE DETERMINATION
- ZONE 3: PARALLEL WATERLINE PROHIBITED
- ZONE 4: PARALLEL WATERLINE PROHIBITED

NOTE:

1. WHERE THE PROPOSED WATERLINE WILL BE INSTALLED PARALLEL TO AN EXISTING GRAVITY SANITARY SEWER MAIN OR LATERAL LINE, THE SEPARATION BETWEEN THE TWO SHALL BE AS INDICATED ABOVE.
2. CROSSINGS:
 - A. WHEREVER POSSIBLE, THE BOTTOM OF THE WATERLINE SHALL BE 1.5 FEET ABOVE THE TOP OF THE SEWER LINE, AND ONE FULL LENGTH OF WATERLINE SHALL BE CENTERED AT THE CROSSING.
 - B. WHERE IT IS NOT POSSIBLE FOR THE WATER LINE TO BE 1.5 FEET ABOVE THE SEWER LINE, OR THE WATERLINE PASSES UNDER THE SEWER LINE, THE EXISTING SEWER LINE SHALL BE EXPOSED FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, AND SHALL BE REPLACED WITH C-900 PVC WITH STRUCTURAL REQUIREMENT OF DR18 OR DR 25 OR CLASS 50 DUCTILE IRON PIPE AS APPROVED BY THE CITY ENGINEER, AND A LENGTH OF WATER PIPE SHALL BE CENTERED AT THE CROSSING, OR AS APPROVED BY THE CITY ENGINEER.

STANDARD SANITARY SEWER CROSSING



DATE: 2010
DRAWING NO. WL-409
FILE NO.



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CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

**PW-14-15
WATERLINE PROJECTS 2015**

STANDARD DETAILS

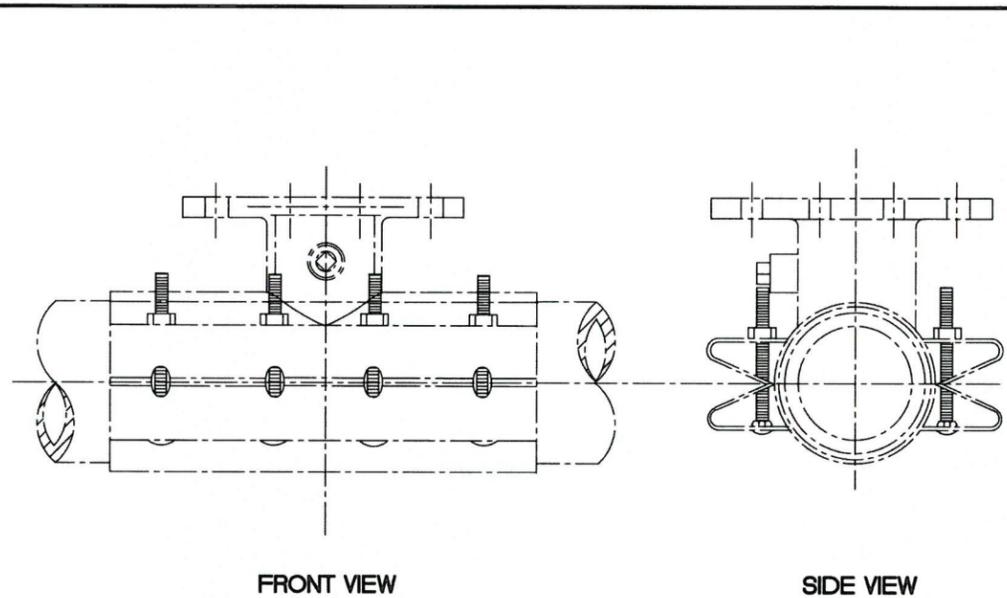
PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCAVERT
DATE: 12/23/2014

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS

SD3

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NOTE:

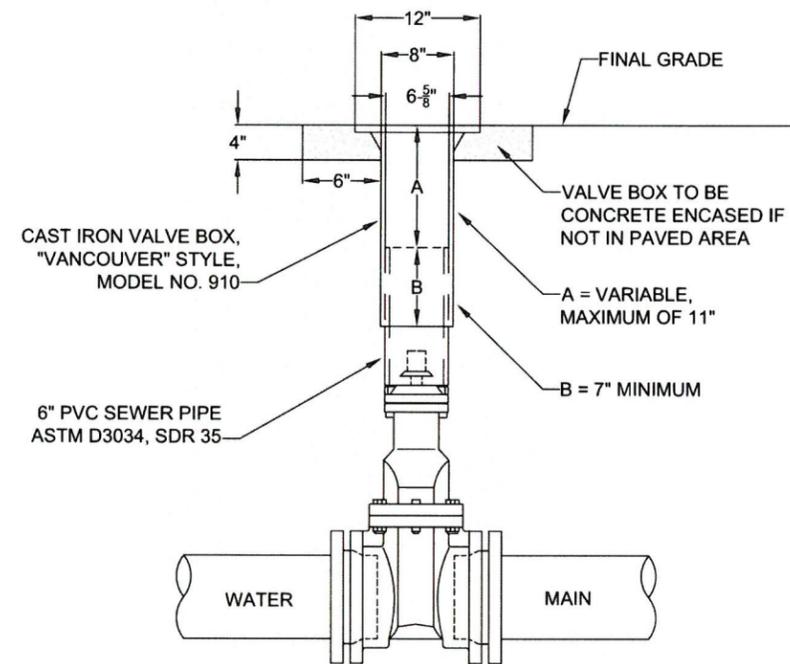
1. WATER MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE.
2. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP.
3. PRESSURE TEST AND TAP SHALL BE MADE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE.
4. PROPER TAPPING MACHINE SHALL BE USED TO MAKE TAP.
5. THRUST BLOCKING REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER OR PER DWG. WL-406.
6. TAP SHALL BE MADE NO CLOSER THAN 18 INCHES FROM THE NEAREST JOINT OR TAP.
7. SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL PLASTIC.
8. SLEEVES TO BE USED ARE JCM OR MUELLER STAINLESS STEEL TAPPING SLEEVES. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
9. SLEEVE SHALL BE AS LEVEL AS POSSIBLE.
10. ALL BOLTS SHALL HAVE NEVER SIEZE ON THREADS.

STANDARD WET TAP



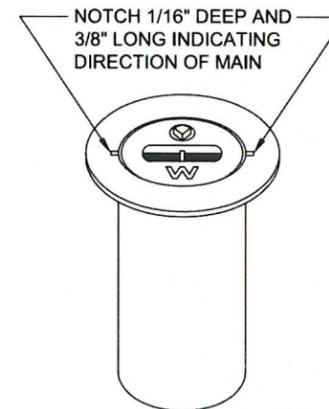
DATE: 2010
DRAWING NO. WL-410
FILE NO.

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NOTE:

1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. PVC SHALL BE ONE CONTINUOUS PIECE-NO BELLS OR COUPLERS.
4. ON VALVES 8" AND LARGER, PVC SHALL BE NOTCHED OVER VALVE PACKING BOLTS SO PVC SITS ON BONNET.



"VANCOUVER"
18" TALL VALVE BOX

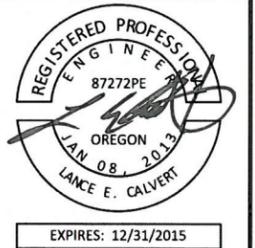
**STANDARD VALVE BOX
DETAIL**



DATE: 2010
DRAWING NO. WL-411
FILE NO.



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CONTRACTOR
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ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

**PW-14-15
WATERLINE PROJECTS 2015
STANDARD DETAILS**

PROJECT NO.: PW-14-15
DESIGNED BY: ELAIS
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 12/23/2014

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS
SD4