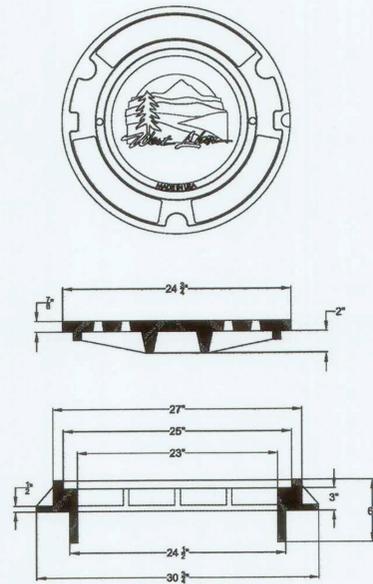


THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



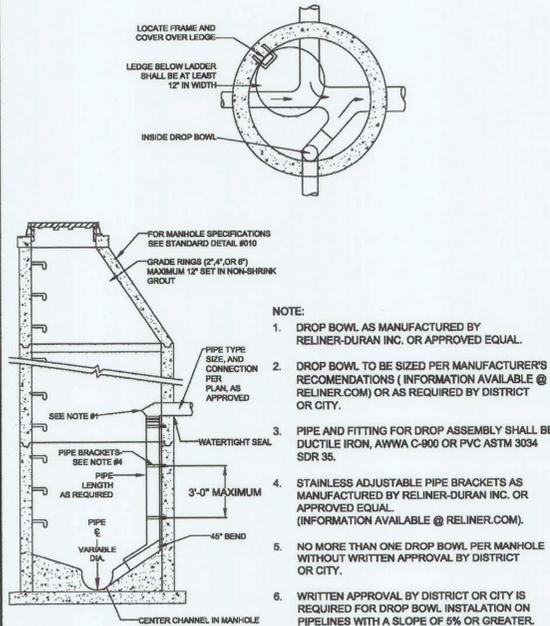
- NOTE:
- COVER AND FRAME TO BE MACHINED FOR TRUE BEARING
 - MATERIAL SHALL BE GRAY CAST IRON A.S.T.M. A-48 CLASS 30
 - 2 HOLE LID FOR SANITARY SEWER
 - 16 HOLE LID FOR STORM SEWER

**SUBURBAN MANHOLE
FRAME AND COVER
3" DEPTH**

DATE:	2010
DRAWING NO.	WL-300
FILE NO.	



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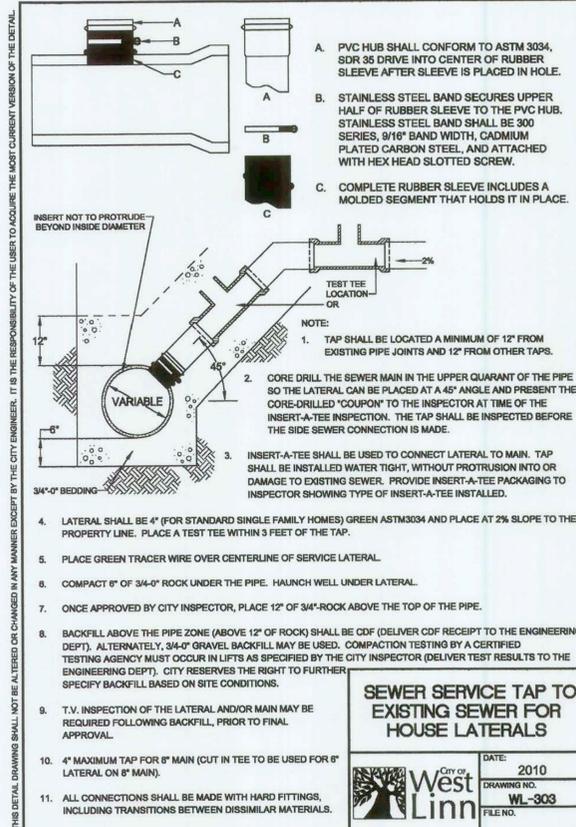
- NOTE:
- DROP BOWL AS MANUFACTURED BY RELINER-DURAN INC. OR APPROVED EQUAL.
 - DROP BOWL TO BE SIZED PER MANUFACTURER'S RECOMMENDATIONS (INFORMATION AVAILABLE @ RELINER.COM) OR AS REQUIRED BY DISTRICT OR CITY.
 - PIPE AND FITTING FOR DROP ASSEMBLY SHALL BE: DUCTILE IRON, AWWA C-900 OR PVC ASTM 3034 SDR 35.
 - STAINLESS ADJUSTABLE PIPE BRACKETS AS MANUFACTURED BY RELINER-DURAN INC. OR APPROVED EQUAL. (INFORMATION AVAILABLE @ RELINER.COM).
 - NO MORE THAN ONE DROP BOWL PER MANHOLE WITHOUT WRITTEN APPROVAL BY DISTRICT OR CITY.
 - WRITTEN APPROVAL BY DISTRICT OR CITY IS REQUIRED FOR DROP BOWL INSTALLATION ON PIPELINES WITH A SLOPE OF 5% OR GREATER.

**INSIDE DROP MANHOLE
CONNECTION FOR SANITARY
SEWER PRIVATE SERVICE**

DATE:	2010
DRAWING NO.	WL-302
FILE NO.	



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- PVC HUB SHALL CONFORM TO ASTM 3034, SDR 35 DRIVE INTO CENTER OF RUBBER SLEEVE AFTER SLEEVE IS PLACED IN HOLE.
- STAINLESS STEEL BAND SECURES UPPER HALF OF RUBBER SLEEVE TO THE PVC HUB. STAINLESS STEEL BAND SHALL BE 300 SERIES, 9/16" BAND WIDTH, CADMIUM PLATED CARBON STEEL, AND ATTACHED WITH HEX HEAD SLOTTED SCREW.
- COMPLETE RUBBER SLEEVE INCLUDES A MOLDED SEGMENT THAT HOLDS IT IN PLACE.

- NOTE:
- TAP SHALL BE LOCATED A MINIMUM OF 12" FROM EXISTING PIPE JOINTS AND 12" FROM OTHER TAPS.
 - CORE DRILL THE SEWER MAIN IN THE UPPER QUADRANT OF THE PIPE SO THE LATERAL CAN BE PLACED AT A 45° ANGLE AND PRESENT THE CORE-DRILLED "COUPON" TO THE INSPECTOR AT TIME OF THE INSERT-A-TEE INSPECTION. THE TAP SHALL BE INSPECTED BEFORE THE SIDE SEWER CONNECTION IS MADE.
 - INSERT-A-TEE SHALL BE USED TO CONNECT LATERAL TO MAIN. TAP SHALL BE INSTALLED WATER TIGHT, WITHOUT PROTRUSION INTO OR DAMAGE TO EXISTING SEWER. PROVIDE INSERT-A-TEE PACKAGING TO INSPECTOR SHOWING TYPE OF INSERT-A-TEE INSTALLED.
 - LATERAL SHALL BE 4" (FOR STANDARD SINGLE FAMILY HOMES) GREEN ASTM3034 AND PLACE AT 2% SLOPE TO THE PROPERTY LINE. PLACE A TEST TEE WITHIN 3 FEET OF THE TAP.
 - PLACE GREEN TRACER WIRE OVER CENTERLINE OF SERVICE LATERAL.
 - COMPACT 8" OF 3/4" ROCK UNDER THE PIPE. HAUNCH WELL UNDER LATERAL.
 - ONCE APPROVED BY CITY INSPECTOR, PLACE 12" OF 3/4" ROCK ABOVE THE TOP OF THE PIPE.
 - BACKFILL ABOVE THE PIPE ZONE (ABOVE 12" OF ROCK) SHALL BE CDF (DELIVER CDF RECEIPT TO THE ENGINEERING DEPT). ALTERNATELY, 3/4" GRAVEL BACKFILL MAY BE USED. COMPACTION TESTING BY A CERTIFIED TESTING AGENCY MUST OCCUR IN LIFTS AS SPECIFIED BY THE CITY INSPECTOR (DELIVER TEST RESULTS TO THE ENGINEERING DEPT). CITY RESERVES THE RIGHT TO FURTHER SPECIFY BACKFILL BASED ON SITE CONDITIONS.
 - T.V. INSPECTION OF THE LATERAL AND/OR MAIN MAY BE REQUIRED FOLLOWING BACKFILL, PRIOR TO FINAL APPROVAL.
 - 4" MAXIMUM TAP FOR 8" MAIN (CUT IN TEE TO BE USED FOR 8" LATERAL ON 8" MAIN).
 - ALL CONNECTIONS SHALL BE MADE WITH HARD FITTINGS, INCLUDING TRANSITIONS BETWEEN DISSIMILAR MATERIALS.

**SEWER SERVICE TAP TO
EXISTING SEWER FOR
HOUSE LATERALS**

DATE:	2010
DRAWING NO.	WL-303
FILE NO.	

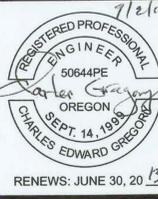


APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code compliance.
DATE: 8-11 BY: *[Signature]* ENGINEERING
DATE: 9-1 BY: *[Signature]* PLANNING



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THE SAUNDERS COMPANY



J.T. SMITH
companies



Teresa's Vineyard
Public Improvements
Sub-07-02/NDW-07-02/VAR-07-01
West Linn, Oregon

REV	DATE	SUMMARY
1	8/5/11	Client/Agency Comments

Project #: 9130 Drawn: CL
CITY OF WEST LINN
STANDARD PLANS
AND DETAILS
SANITARY SEWER
Date: April 15, 2011

C6.3