

2. ALL CONSTRUCTION REQUIRES A PERMIT PRIOR TO COMMENCEMENT AND BEFORE

BACKFILL. 3. SEWER LATERALS SHALL BE LAID IN A STRAIGHT LINE BETWEEN BENDS. CHANGES

IN LINE AND GRADE SHALL BE 1/16 BEND (22 1/2°) OR WYE. 4. SEWER LATERALS SHALL BE LAID AT A MINIMUM GRADE OF 2% (1/4" PER FOOT) AND MAXIMUM GRADE OF 100% (1' PER FOOT) UNLESS PRIOR APPROVAL IN

5. DOWNSPOUTS AND AREA DRAINS SHALL NOT BE CONNECTED TO THE SEWER

WRITING IS OBTAINED FROM THE DISTRICT ENGINEER.

6. CLEANOUTS ARE REQUIRED FOR LATERALS EXCEEDING 100 FT. AT ANY BEND EXCEEDING 1/8" BEND (45") AND WITHIN (10) FT. OF A BUILDING FOUNDATION. 7. PROVIDE A MINIMUM 2 FOOT WIDE COMPACTED PIPE BASE UNDER WYES INSTALLED

8. PIPE AND FITTINGS SHALL BE ASTM D 3034 SDR35 PVC MATERIAL THROUGHOUT.

9. PLACE A NEW 2 X 4 (UTILITY GRADE OR BETTER) SERVICE CONNECTION MARKER AND A MAGNETIC TAPE MARKER AT THE END OF THE SIDE SEWER SERVICE STUB.

INSPECTED AND APPROVED THE INSTALLATION.

11. SIDE SEWER CONNECTION TO EXISTING DISTRICT SEWER SHALL BE WITH USE OF A MECHANICAL SADDLE JOINT, BOLT ON THE RUBBER COMPRESSION GASKET SEAL AREA, AND WITH A 45 DEGREE ANGLE INPUT TO ALLOW ENTRY TO BE IN THE DIRECTION OF FLOW.

12. CUT AN OVAL HOLE IN THE DISTRICT MAIN OF SUFFICIENT SIZE TO ACCEPT THE SIDE SEWER SERVICE PIPE AT A 45 DEGREE ANGLE OF ATTACK. THE INTERIOR OF THE DISTRICT MAIN AS SEEN FROM THE INTERIOR WILL SHOW

13. PERMIT REQUIRED FROM THE CITY OF PORT ORCHARD PRIOR TO ANY WORK IN RIGHT-OF-WAY.

14. CALL UTILITY LOCATE PRIOR TO EXCAVATION.

15. SAWCUT & REMOVE ASPHALT AS REQUIRED TO MAKE CONNECTION TO SANITARY SEWER LINE. PROVIDE TEMPORARY ASPHALT PATCH UNTIL PERMANENT PATCH IS COMPLETED.

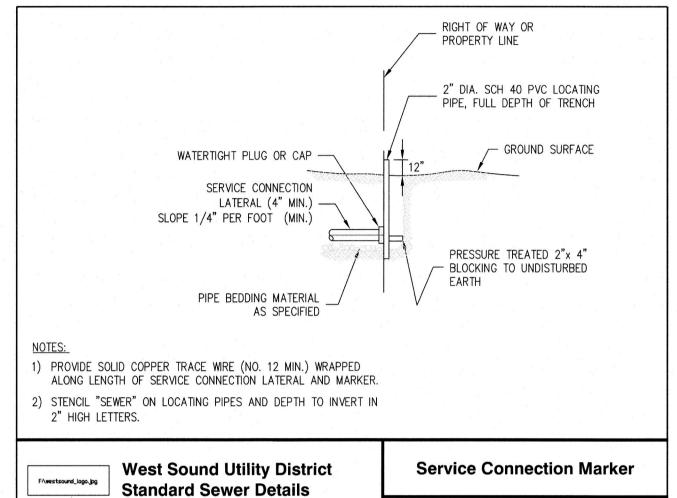
16. PROVIDE TRAFFIC CONTROL AS REQUIRED TO COMPLETE WORK WITHIN R.O.W.

OR TRAVELLED AREAS.

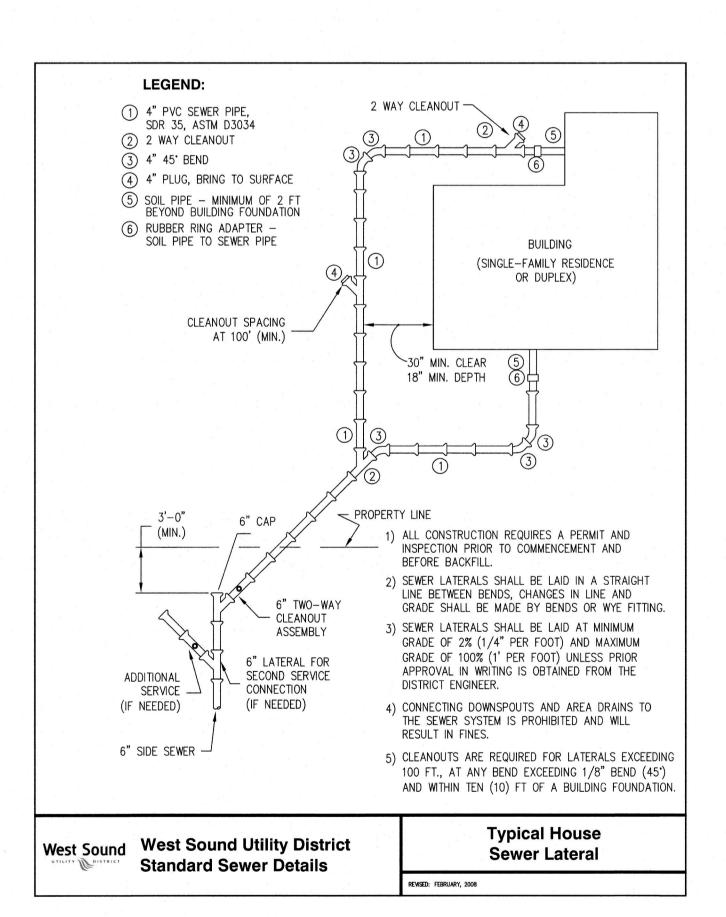
NOTE

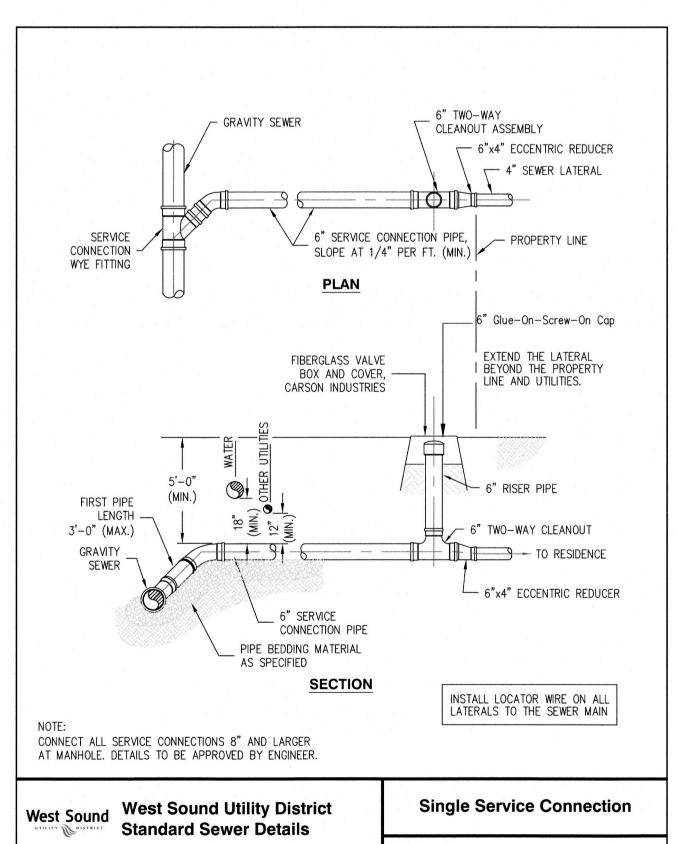
THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

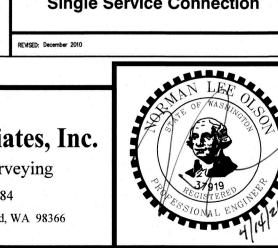
CALL 48 HOURS BEFORE YOU DIG 811

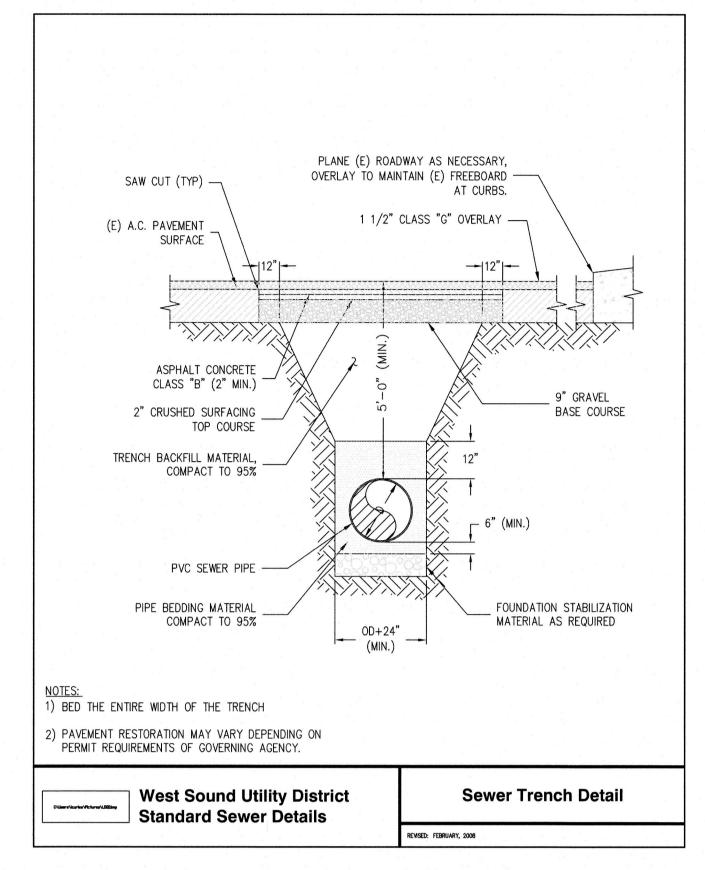


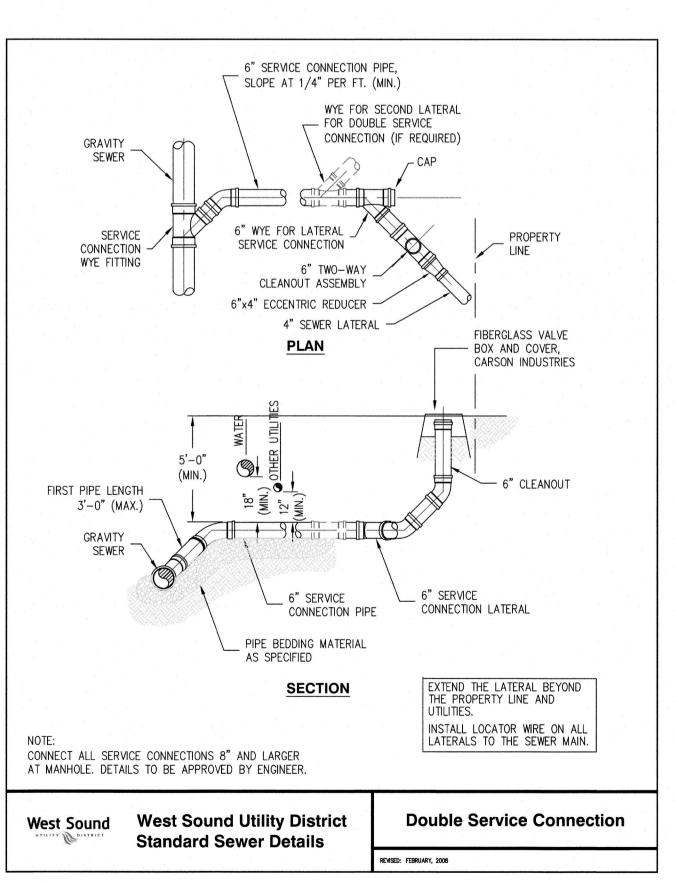
REVISED: FEBRUARY, 2008

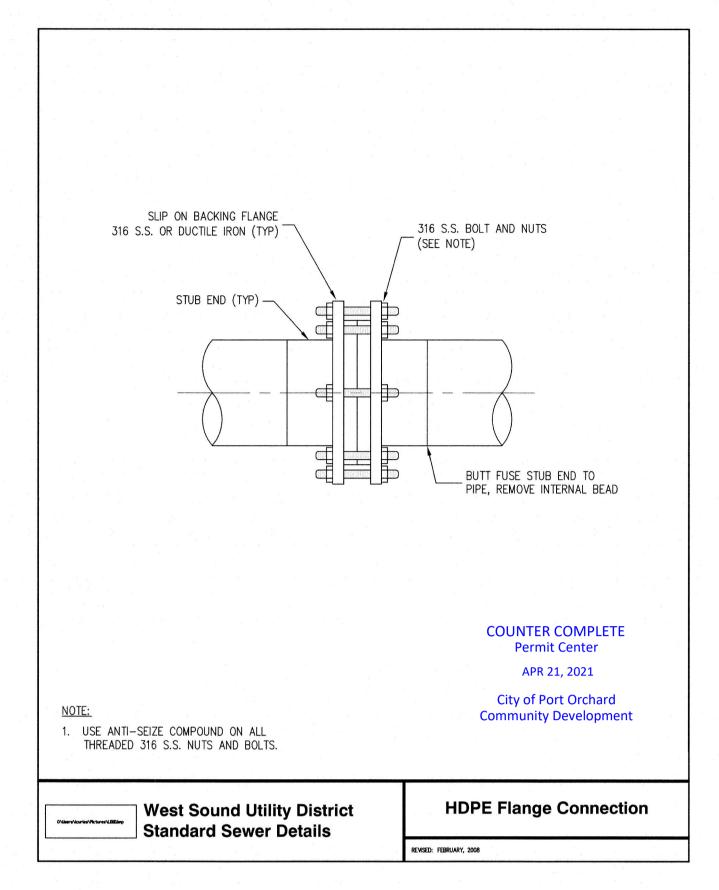


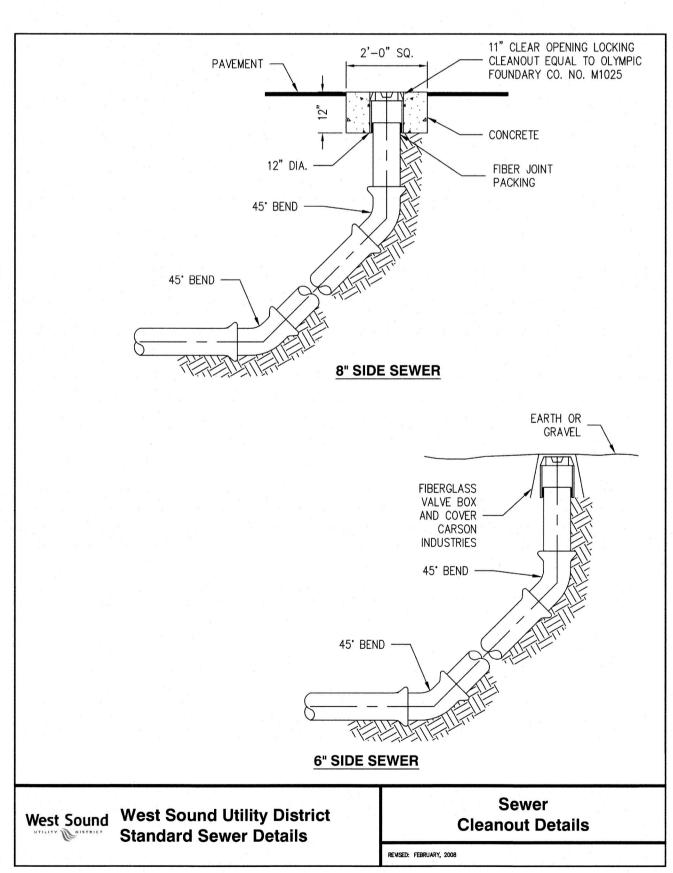












	W 60		REVISIONS		BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	RHL	2/21
				DRAWN	JAT	2/21
				CHECKED	NLOII	2/21
				APPROVED		
μ	* 1			ACCEPTED		

N.L. Olson & Associates, Inc.

Engineering, Planning and Surveying (360) 895-2350 or (360) 876-2284 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

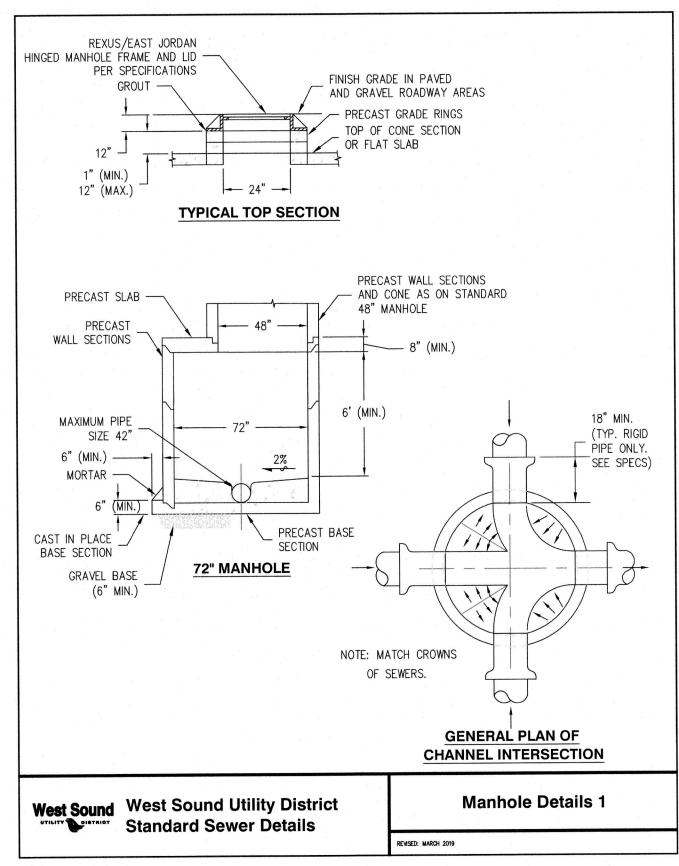


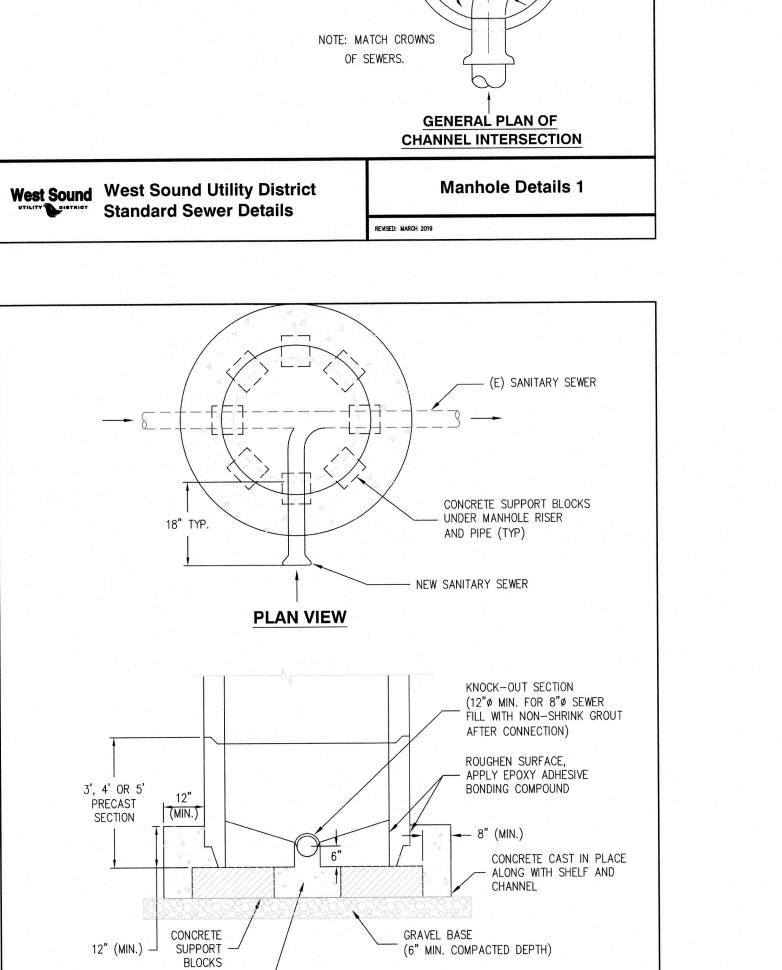
SEWER NOTES & DETAILS

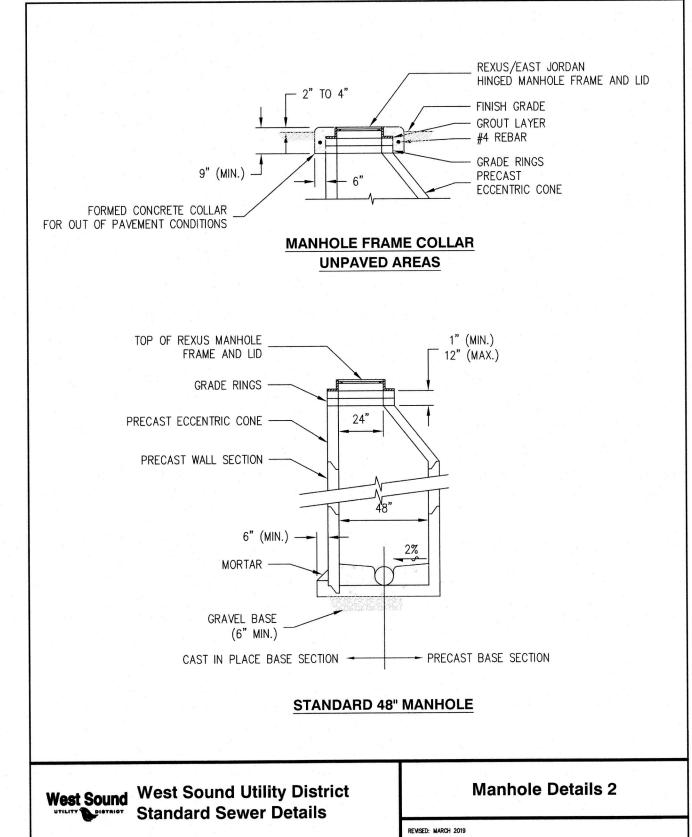
BRIDGE VIEW TRAIL APARTMENTS - HAROLD DR SE

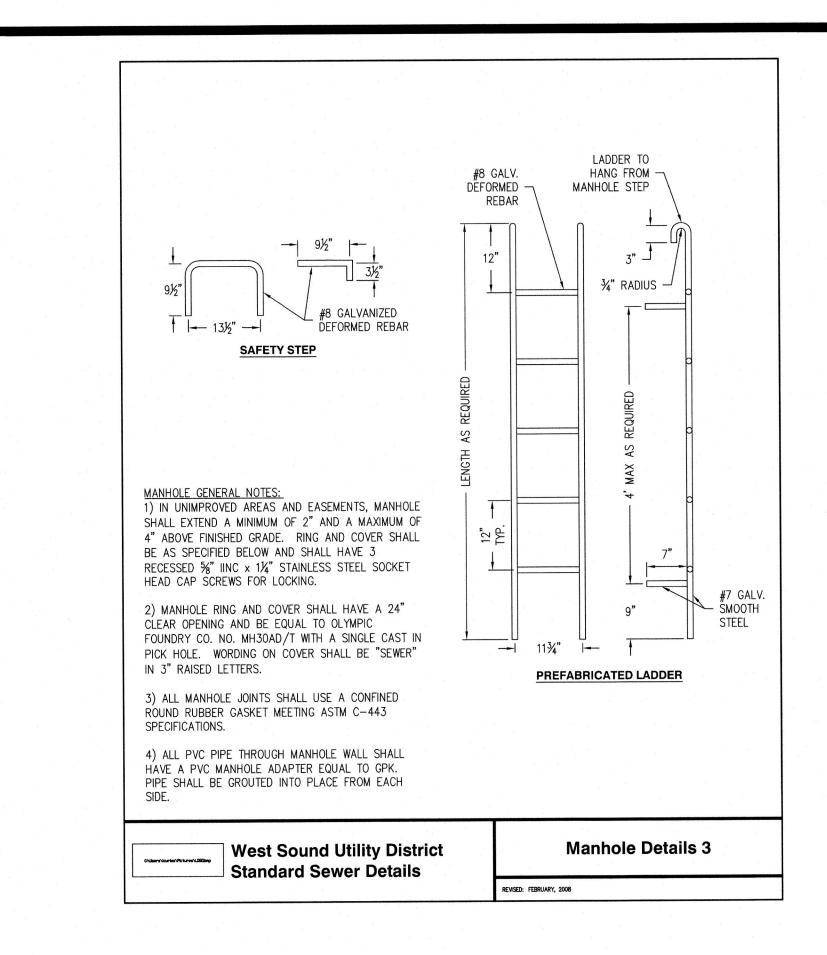
Portion of the Southeast Quarter of Section 35, Township 24 North, Range 1 East, W.M. in Kitsap County, Washington **Harbor Custom Development, Inc.**

SCALE: N.T.S. DATE: March 12, 2021 Attn: Sterling Griffin DRAWING NUMBER 11505 Burnham Dr. Suite 301 11331 Gig Harbor, WA 98332 SHEET C7.2









COUNTER COMPLETE
Permit Center

APR 21, 2021

City of Port Orchard
Community Development

NOTE

THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

CALL 48 HOURS BEFORE YOU DIG 811

2 2				8		
			REVISIONS		BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	RHL	2/21
				DRAWN	JAT	2/21
				CHECKED	NLOII	2/21
		- E		APPROVED		, 1
				ACCEPTED	2	

Typical Saddle Manhole

CAST IN PLACE CONCRETE SHELF -

AND CHANNEL

West Sound Utility District Standard Sewer Details

MANHOLE SECTION

Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



SEWER DETAILS

BRIDGE VIEW TRAIL APARTMENTS - HAROLD DR SE

Portion of the Southeast Quarter of Section 35, Township 24 North, Range 1 East, W.M. in Kitsap County, Washington

FOR:	
	Harbor Custom Development, Inc.
	Attn: Sterling Griffin

Attn: Sterling Griffin
11505 Burnham Dr. Suite 301
Gig Harbor, WA 98332

SHEET C7.3

- 2. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE WEST SOUND UTILITY DISTRICT STANDARDS.
- 3. ALL PIPE SHALL BE DUCTILE IRON CL. 52 UNLESS OTHERWISE SHOWN.
- 4. ALL PIPE AND FITTINGS NOT TO BE DISINFECTED IN PLACE SHALL BE SWABBED WITH 200 PPM CHLORINE SOLUTION PRIOR TO INSTALLATION.
- 5. AFTER DISINFECTION OF THE WATERMAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO NEAREST OPERATING SANITARY SEWER.
- 6. WATERMAIN SHUT-OFF SHALL BE COORDINATED WITH WEST SOUND UTILITY DISTRICT OPERATIONS CREW FOR PREFERRED TIMING DURING FLOW CONTROL CONDITIONS. (360-876-2545)
- 7. LOCATIONS OF EXISTING UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. ACTUAL UTILITY LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- B. DEFLECT THE WATERMAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FEET MINIMUM COVER AND 12 INCHES MINIMUM VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED.
- 9. THE WATERMAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED AND COMPACTED IN CUIT AND FILL AREAS.
- 10. TRENCH BACKFILL AND SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
- 11. ALL FITTINGS SHALL BE BLOCKED PER STANDARDS DETAIL UNLESS OTHERWISE SPECIFIED.
- 12. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKERS' EXPOSURE TO ASBESTOS MATERIALS BE AT OR BELOW THE LIMIT PRESCRIBED IN WAC 296-62-07705. PER STATE STANDARDS/REQUIREMENTS.
- 13. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
- 14. BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE FILTER FABRIC FOR ALL DOWNHILL STORM DRAIN INLETS AND CATCH BASINS. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL FILTER FABRIC AND REPLACE AS NECESSARY.
- 15. WHEN CROSSING A SANITARY SEWER OR FORCE MAIN THE WATER MAIN SHALL BE INSTALLED A MINIMUM OF TWO FEET ABOVE THE SEWER LINE WITH JOINTS A MINIMUM OF FIVE FEET FROM THE SEWER LINE ON EACH SIDE. CONTROLLED DENSITY FILL SHALL BE PLACED OVER THE SEWER LINE.
- 16. PRIOR TO ABANDONING ANY WATER INFRASTRUCTURE, A LETTER FROM CITY OF PORT ORCHARD REQUIRED ACKNOWLEDGING THAT WEST SOUND UTILITY DISTRICT DOES NOT BEAR RESPONSIBILITY FOR ANY ABANDONED INFRASTRUCTURE.

WATER SYSTEM SPECIFICATIONS

ALL WORK AND MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE DEVELOPER'S EXTENSION MANUAL AS PREPARED AND PROVIDED BY THE WEST SOUND UTILITY DISTRICT.

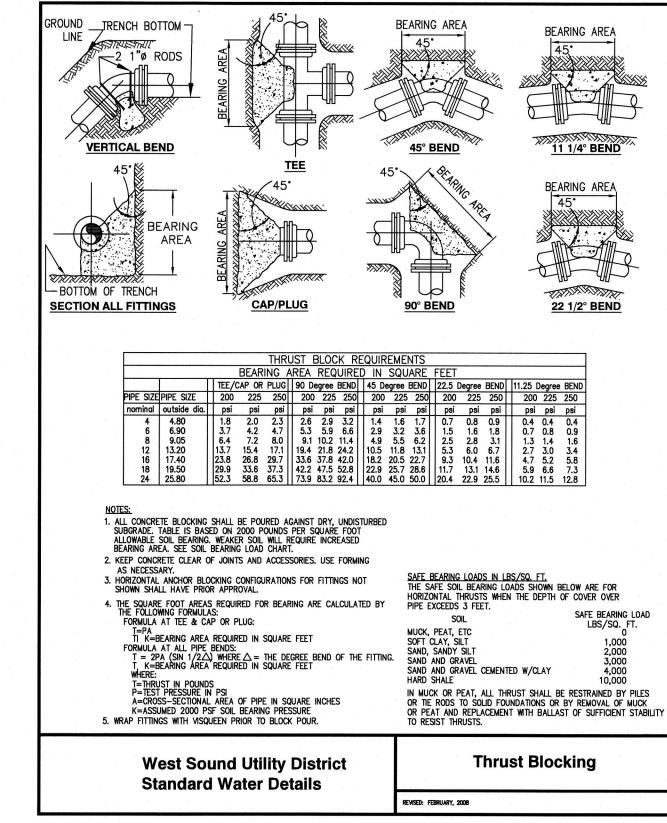
- 1. ALL PIPE TO BE CLASS 52 DUCTILE IRON, UNLESS OTHERWISE INDICATED ON THE PLAN.
- 2. ALL SERVICES TO BE WIDE STRAP SADDLES (ROMAC OR EQUAL)
- 3. USE DEFLECTIONS AT PIPE JOINTS TO MAINTAIN ALIGNMENT IN CURVES AND JOGS.
- 4. METER TO BE SUPPLIED AND INSTALLED BY DISTRICT.
- 5. DOUBLE CHECK VALVE ASSEMBLIES TO BE INSTALLED BY CERTIFIED INSTALLER.

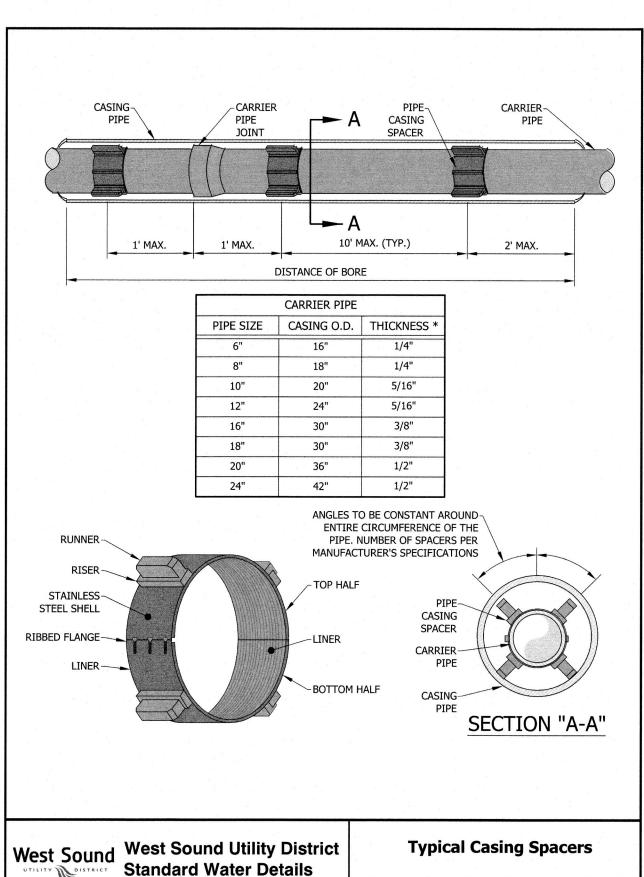
NOTE: WATER LINE TO BE INSTALLED WITH A MINIMUM OF 3'-0" COVER ACCORDING TO ROADWAY PROFILE.

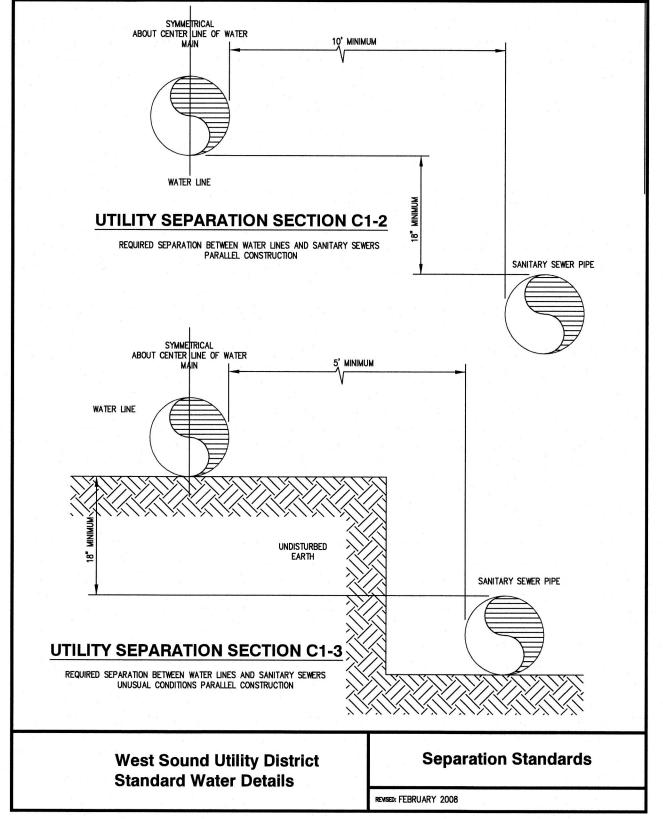
NOTE

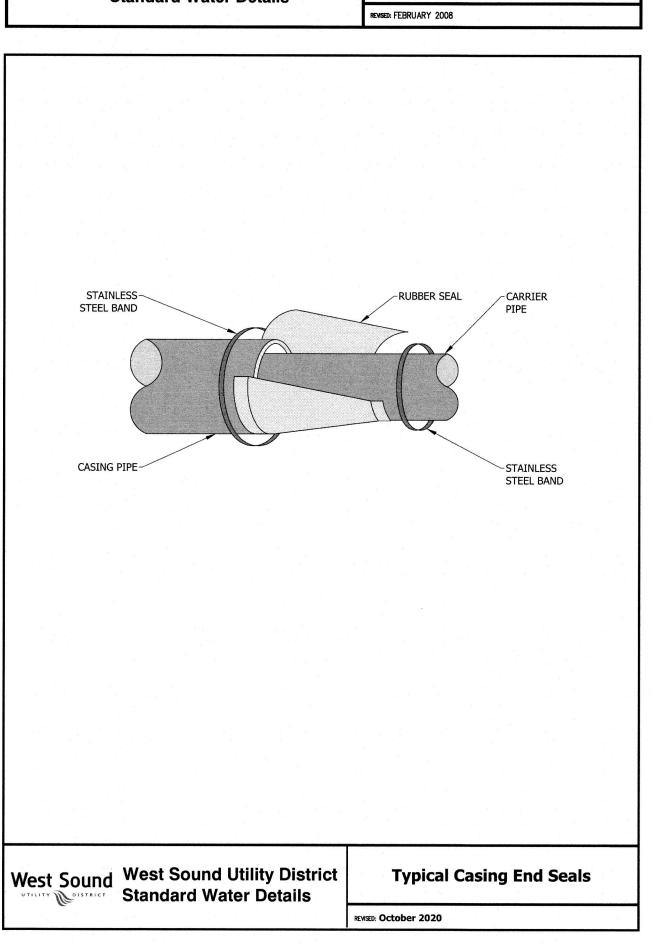
THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

CALL 48 HOURS
BEFORE YOU DIG
811





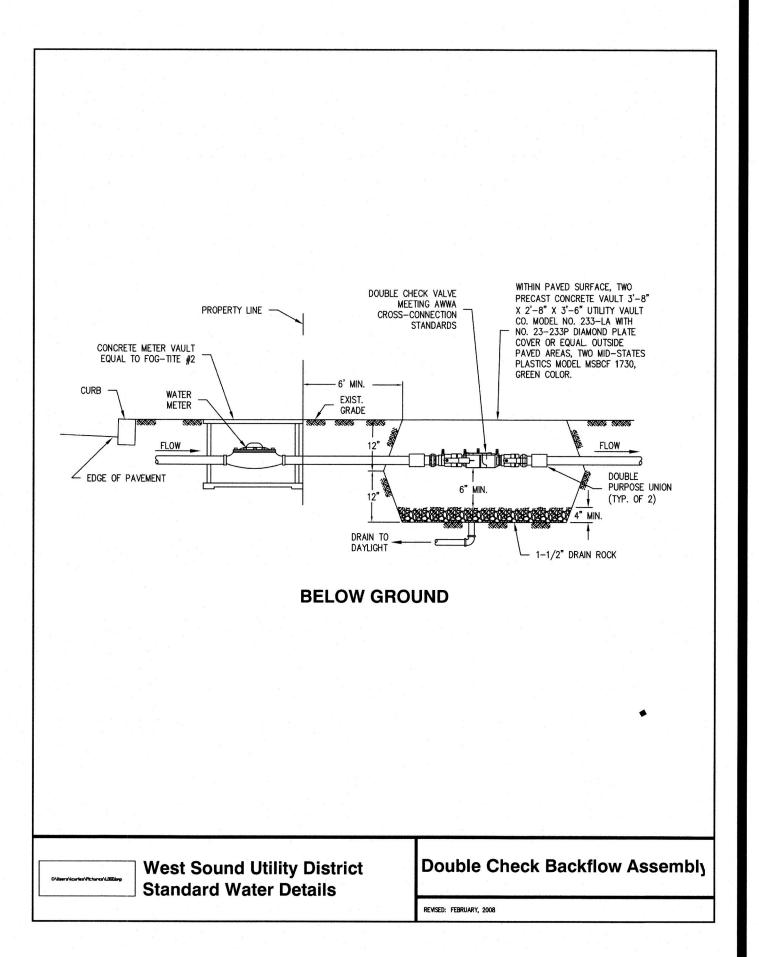




COUNTER COMPLETE
Permit Center

APR 21, 2021

City of Port Orchard
Community Development



REVISIONS					BY	DATE	
NO.	DATE	BY	DESCRIPTION	DESIGNED	RHL	2/21	1 .
-				DRAWN	JAT	2/21	
	a a			CHECKED	NLOII	2/21	
B.,	N			APPROVED	150		
				ACCEPTED			

N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284

2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



REMSED: October 2020

WATER NOTES & DETAILS

BRIDGE VIEW TRAIL APARTMENTS - HAROLD DR SE

Portion of the Southeast Quarter of Section 35, Township 24 North, Range 1 East, W.M. in Kitsap County, Washington FOR:

Harbor Custom Development, Inc.

Attn: Sterling Griffin 11505 Burnham Dr. Suite 301 Gig Harbor, WA 98332 SCALE: N.T.S.

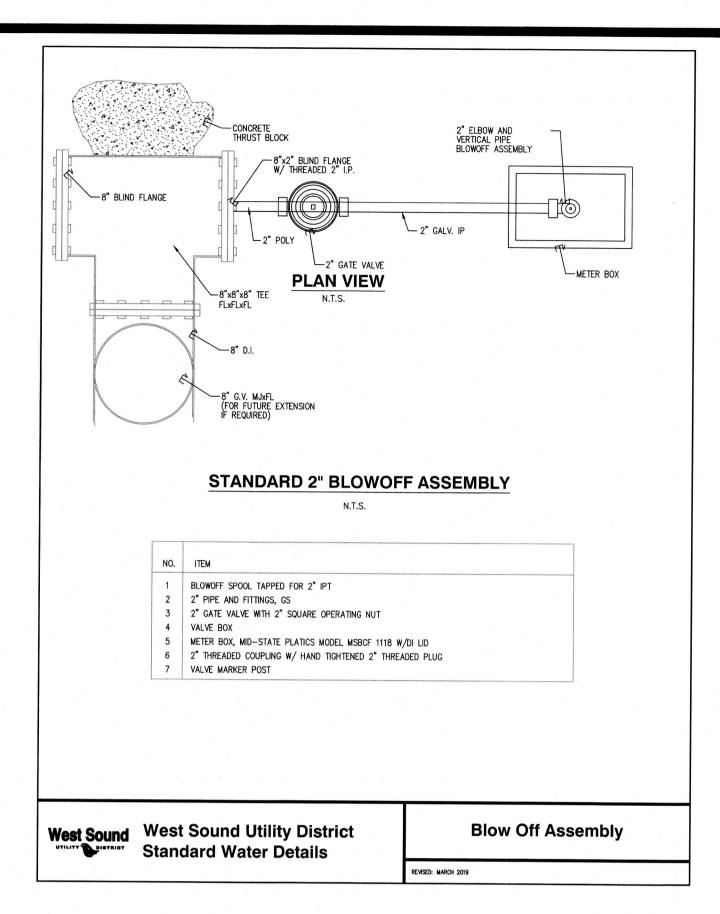
DATE: March 12, 2021

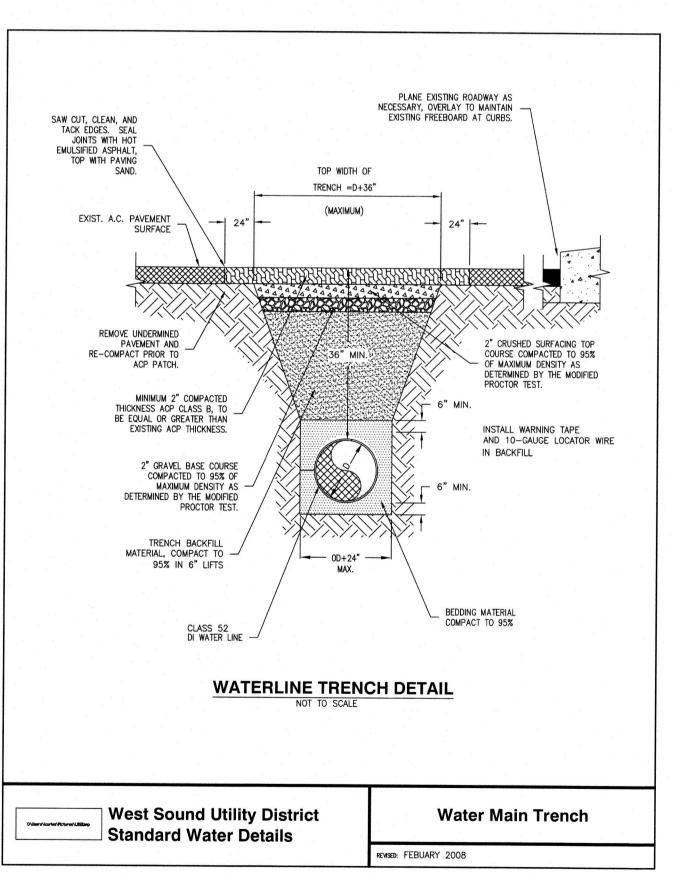
DRAWING NUMBER

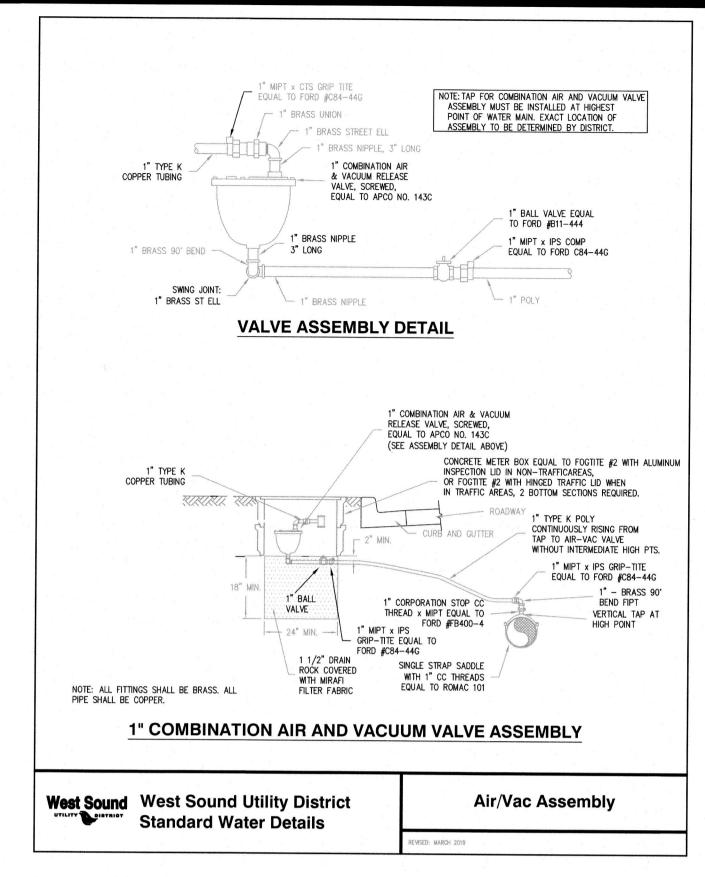
11331

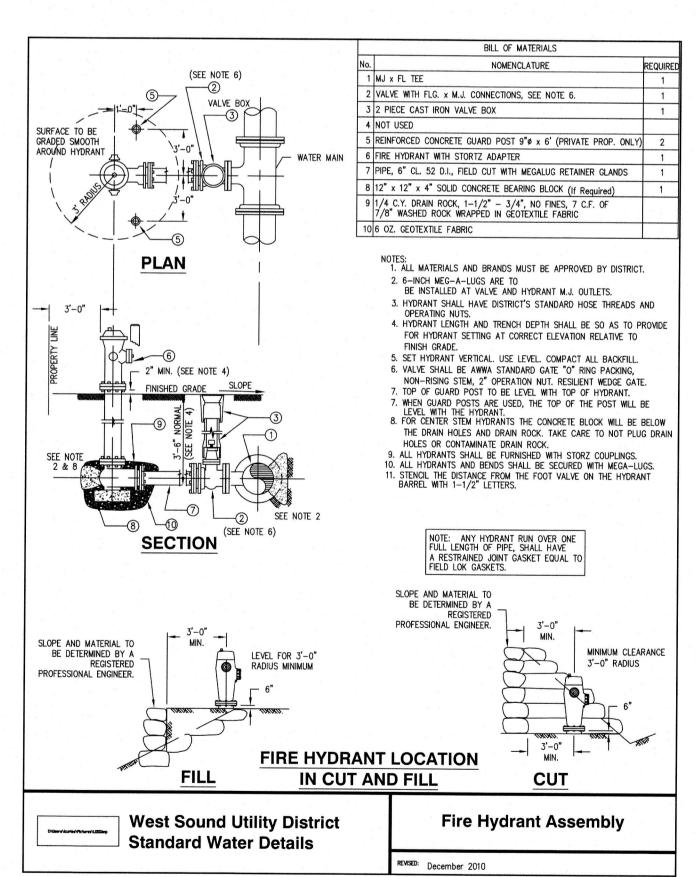
SHEET C7.4

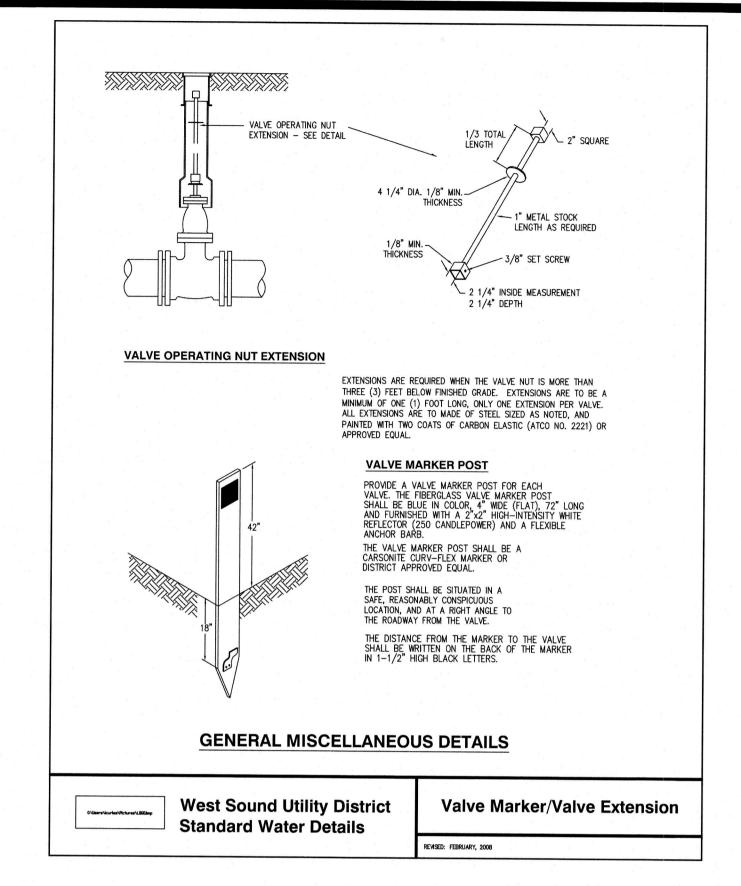


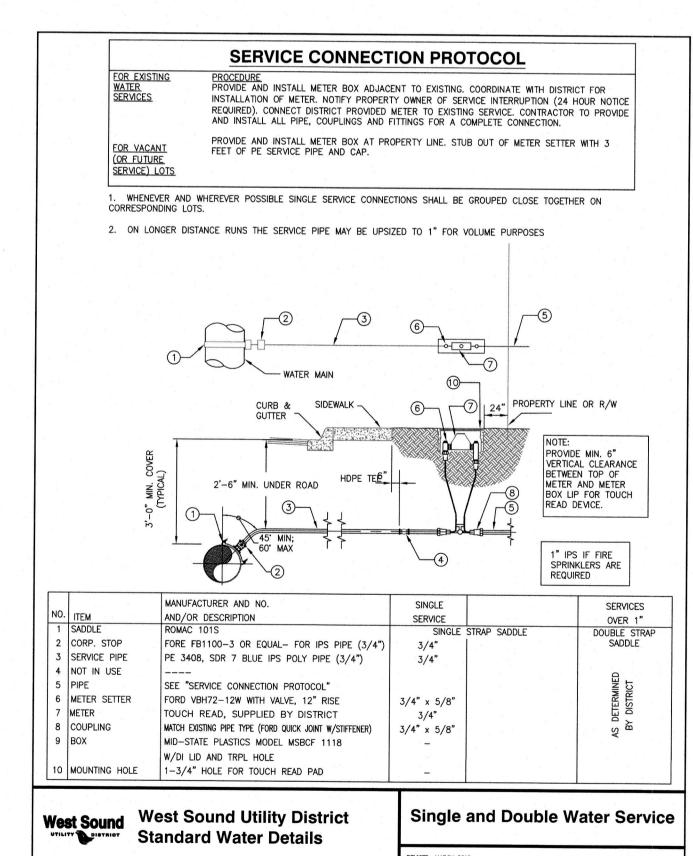












COUNTER COMPLETE
Permit Center

APR 21, 2021

City of Port Orchard
Community Development

NOTE

THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

CALL 48 HOURS BEFORE YOU DIG 811

				3.3	-		
	# # H		REVISIONS	0 4	BY	DATE	
NO.	DATE	BY	DESCRIPTION	DESIGNED	RHL	2/21	1 .
				DRAWN	JAT	2/21	
				CHECKED	NLOII	2/21	
	P			APPROVED			W Y
	2 = a			ACCEPTED			v e

N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284

2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



WATER DETAILS

BRIDGE VIEW TRAIL APARTMENTS - HAROLD DR SE

Portion of the Southeast Quarter of Section 35, Township 24 North, Range 1 East, W.M. in Kitsap County, Washington

FOR:				
	Harbor Custom	Develop	oment,	Inc.
	Attn: Sterling Griffin	_		

Attn: Sterling Griffin
11505 Burnham Dr. Suite 301
Gig Harbor, WA 98332