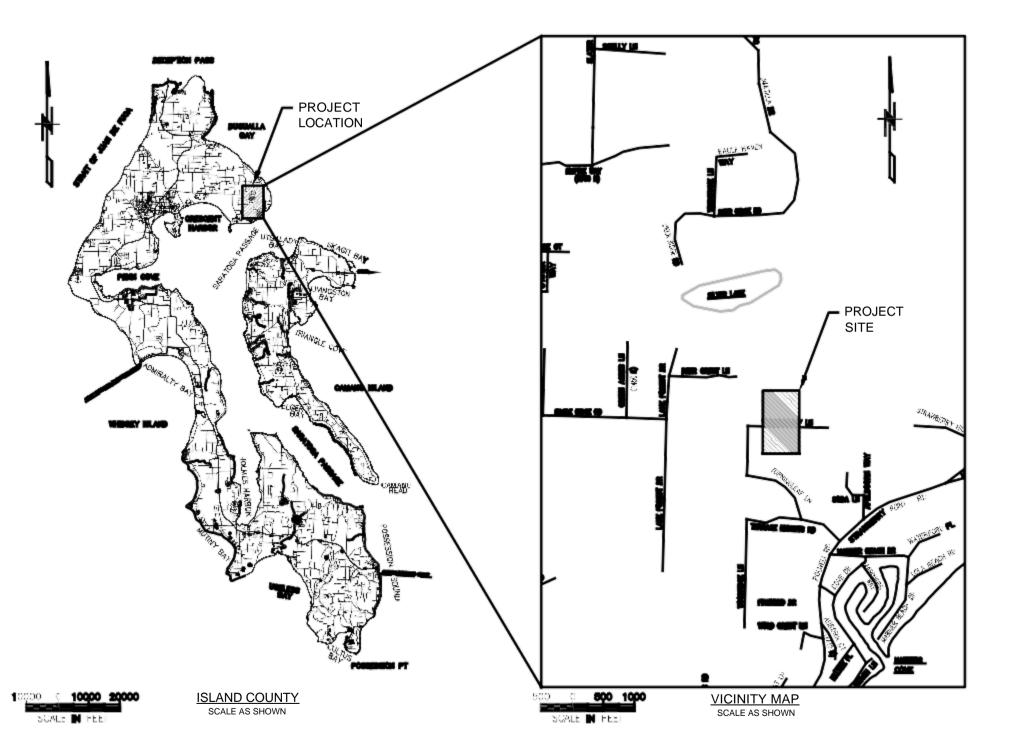
ARDUINNE RESIDENCE WATER LINE EXTENSION SILVER LAKE WATER SYSTEM ISLAND COUNTY, WA



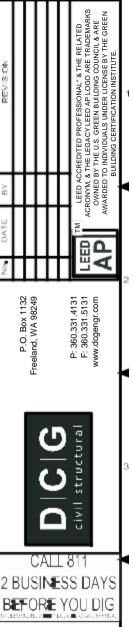
PROJECT INFORMATION:

APPLICANT: VICTORIA ARDUINNE 1385 EAGLE RIDGE RD OAK HARBOR, WA 98277

CIVIL ENGINEER:
DAVIDO CONSULTING GROUP, INC
ROBERT L BENNION, P.E.
P.O. BOX 1132
FREELAND, WA 98249
PH: 360.331.4131

OPERATOR:
WATER & WASTEWATER SERVICES
KELLY WYNN
14263 CALHOUN RD
MOUNT VERNON, WA 98273
PH: 360 466 4443 y 201

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ASE MAP/TOPOGRAPHY PROVIDED BY THERS. DOG CANNOT BE HELD LIABLE FOR ACCURACY, CONTRACTOR SHALL LELD VERIFY GRADES, UTILITIES, & ALL THER EX FEATURES & CONDITIONS. IF ONDITIONS ARE NOT AS SHOWN &OR PLANS CANNOT BE CONSTRUCTED AS SHOWN, CONTACT DOG PRIOR TO CONSTRUCTION.

ER & WASTEWATER SERVICES, INC.
ES CALHOUN RD, MT VERNON, WA
FR LAKE - DEVELOPER EXTENSION
INGLEAF LN, OAK HARBOR, WA 9822

PROJ. MANAĞE	R:	RLB	Γ
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CAD FILE NUMBER: P:/CLIENTS:WATER/SILVER LAKE WATER SY'STEMPROLECTS/DEVELOPER EXTENSIONS LAST MODIFIED BY: ROBERT - SAVE DATE: 6/25/2021 9:15 AM - SHEET SET: ### - ORIGINAL SHEET SIZE: ---- AUTOCAD VERSION: CIVIL 3D 2013 THE CONTRACTOR SHALL GIVE WATER & WASTEWATER SERVICES (360-466-4443) A MINIMUM OF72 HOURS NOTICE OF ANY PLANNED CONNECTION TO AN EXISTING PIPELINE. THIS INCLUDES LIVE TAPS. NOTICE IS REQUIRED SO ANY DISRUPTIONS TO EXISTING SERVICES CAN BE SCHEDULED. THE CONTRACTOR SHALL NOTIFY CUSTOMERS INVOLVED OR AFFECTED OF THE WATER SERVICE INTERRUPTION 24 HOURS IN ADVANCE OF THE INTERRUPTION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SCHEDULE WATER MAIN CONSTRUCTION WITH A MINIMUM INTERRUPTION OF WATER SERVICE.

IN CERTAIN SITUATIONS, THE WATER COMPANY MAY DICTATE SCHEDULING OF WATER MAIN SHUTDOWNS SO AS NOT TO IMPOSE UNNECESSARY SHUTDOWNS DURING SPECIFIC PERIODS TO EXISTING CUSTOMERS

ALL WATER MAINS SHALL BE PVC SCH 80 (2" OR LESS), PVC C900, OR DI CLASS 52 PIPE AS SPECIFIED ON THE PLANS. HIGH DENSITY POLYETHYLENE (HDPE) PIPE SDR 9 MAY BE USED IN PLACE OF PVC SPECIFIED ON PLANS. HDPE PIPE SHALL BE BLACK PE 4710, MADE OF NEW RESINS, AND MEETING THEREQUIREMENTS OF ASTM D3350 CELL CLASSIFICATION OF PE445574C/E, TYPE II, GRADE PE47, AS WELL AS: ASTMF714, AWWA C901, AND AWWA C906. PROVISIONS FOR PIPE EXPANSION MUST BE ACCOUNTED FOR WHEN INSTALLING

WATER MAIN FITTINGS SHALL DUCTILE IRON. DUCTILE IRON FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C153 AND JOINTS SHALL MEET THE REQUIREMENTS OF AWWA C111. DUCTILE IRON FITTINGS SHALL BE CEMENT MORTAR LINED, MEETING THE REQUIREMENTS OF AWWA C104. GASKETS FOR FLATFACED OR RAISED FACED FLANGES SHALL BE 1/8-INCH THICK NEOPRENE HAVING A DUROMETER OF 60 PLUS OR MINUS 5 OR 1/16-CLOTH INSERTED. DUCTILE IRON PIPE SHALL BE INSTALLED WITH POLYETHYLENE SHEATHING FOR CORROSION PROTECTION. THE TYPE, MATERIAL, AND IDENTIFICATION MARK FOR BOLTS AND NUTS SHALL BE PROVIDED BOLTS NUTS AND WASHERS LISED FOR SECURING FITTINGS SHALL BE OF SIMILAR MATERIALS. STEEL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A307 OR ASTM F568 FOR CARBON STEEL OR ASTM F593 OR ASTM F738 FOR STAINLESS STEEL. NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563 OR ASTM A563 FOR CARBON STEEL OR ASTM F594 OR ASTM F836 FOR STAINLESS STEEL. IRON BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A536, GRADE 65-45-12.

ALL NON-METALLIC PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12 TO 18 INCHES UNDER THE FINAL GROUND SURFACE, NO BREAKS OR SPLICES WILL BE ALLOWED. A CONTINUOUS LOOP SHALL BE PLACED FROM THE MAIN LINE TO THE METER BOX AND BACK TO THE MAIN LINE, THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE, METAL CORE OR BACKING WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, INSTALL 14 GAUGE COATED COPPER WIRE, TAPED TO THE TOP OF PIPE, BROUGHT UP AND TIED OFF AT VALVE BODY.

THE MINIMUM COVER FOR ALL WATER MAINS FROM TOP OF PIPE TO FINISH GRADE SHALL BE 36 INCHES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ALL VALVES AND FITTINGS SHALL BE DUCTILE IRON WITH ANSI FLANGES OR MECHANICAL JOINT ENDS. ALL EXISTING VALVES SHALL BE OPERATED BY WATER COMPANY PERSONNEL. VALVE BOXES SHALL BE

INSTALLED ON ALL BURIED VALVES. THE BOX SHALL BE OF CAST IRON, TWO-PIECE SLIP TYPE, 5-1/4 INCH SHAFT, WITH A BASE CORRESPONDING TO THE SIZE OF THE VALVE. THE COVER SHALL HAVE THE WORD "WATER" CAST IN IT. THE VALVE BOX SHALL BE TYLER UNION 6855 SERIES OR EQUAL APPROVED BY THI WATER COMPANY. THE COVER SHALL BE A TYLER UNION STANDARD DROP LID 145325 OREQUAL APPROVED BY THE WATER COMPANY.

GATE VALVES, 6 INCH TO 12 INCH. THE DESIGN, MATERIALS AND WORKMANSHIP OF ALL GATE VALVES SHALL CONFORM TO, OR EXCEED THE REQUIREMENTS OF AWWA C515 LATEST REVISION, GATES VALVES SHALL BE RESILIENT SEAT NON-RISING STEM (NRS) WITH TWO INTERNAL O-RING STEM SEALS. GATE VALVES SHALL BE MUELLER A-2361. GATE VALVES SHALL BE USED ON ALL 6 TO 12 INCH LINES.

VALVE BOX. ALL VALVES SHALL HAVE A STANDARD CAST IRON WATER VALVE BOX SET TO GRADE. IF VALVES ARE NOT SET IN PAVED AREA, A 3 FOOT BY 3 FOOT BY 4 INCH CONCRETE OR ASPHALT PAD SHALL BE SET AROUND EACH VALVE BOX AT FINISHED GRADE. IN AREAS WHERE VALVE BOX FALLS IN ROAD SHOULDER THE DITCH AND SHOULDER SHALL BE GRADED BEFORE PLACING ASPHALT OR CONCRETE PAD.

VALVE MARKER POST. VALVE MARKER POSTS SHALL BE 4 INCH X 4 INCH REINFORCED CONCRETE OR SCHEDULE 40 STEEL POSTS 5 FEET LONG, WITH 2 FOOT MINIMUM BURY, STAMPED WITH "W" AND DISTANCE TO VALVE. POST SHALL BE PAINTED WITH 1 BASE COAT AND 2 COATS BLUE OIL BASE ENAMEL.

EROSION AND SEDIMENTATION CONTROL (ESC) NOTES:

- THE CONTRACTOR SHALL MEET ISLAND COUNTY STANDARDS AND REQUIREMENTS BY USING APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) FOR EROSION AND SEDIMENTATION CONTROL
- FROSION ON- AND OFF-SITE DURING AND AFTER CONSTRUCTION THE CONTRACTOR SHALL MINIMIZE EROSION AND SEDIMENTATION ON-SITE AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE FROM EROSION DUE TO INCREASES IN THE VELOCITY AND PEAK FLOW RATE OF STORM WATER RUNOFF FROM THE SITE
- THE SITE THROUGH MEASURES SUCH AS MULCHING, MATTING, COVERING, SILT FENCES, SEDIMENT TRAPS, SETTLING PONDS AND PROTECTIVE BERMS USING THE FOLLOWING BMPS: FILTER FENCE, STRAW BALE BARRIER, BRUSH BARRIER, GRAVEL FILTER BERM, SEDIMENT TRAP, TEMPORARY SEDIMENT POND, PRESERVING NATURAL VEGETATION, AND/OR BUFFER ZONES. TRANSPORT OF SEDIMENT ONTO PAVED SURFACES SHALL BE MINIMIZED, AND IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE PAVED SURFACE SHALL BE CLEANED AT THE END OF EACH DAY IN ACCORDANCE WITH BMPS IN THE DRAINAGE MANUAL, OR APPROVED BY THE DIRECTOR
- STABILIZING EXPOSED SOIL. THE CONTRACTOR SHALL PREVENT ON-SITE EROSION BY STABILIZING ALL SOILS THAT ARE TEMPORARILY EXPOSED AND NOT BEING ACTIVELY WORKED, THROUGH SUCH METHODS AS THE INSTALLATION OF SEEDING, MULCHING, MATTING AND COVERING. CONTRACTOR
- DENUDED AREAS SHALL BE STABILIZED AND SOIL STOCKPILES AS ESTABLISHED IN THE DRAINAGE MANITAL
- RECOMMENDED INLET PROTECTION ALTERNATIVES ARE TRIANGULAR SILT DIKES; BIOLOGS; EXERTS (FOSS ENVIRONMENTAL); DANDY BAGS; AND, STRAW WATTLES.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS.
- INTO A SEDIMENT-RETENTION BMP
- CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL BMPS TO ASSURE THEIR CONTINUED PERFORMANCE.

- MATERIALS (LE STRUCTURAL REMAINS HISTORIC ARTIFACTS OR PREHISTORIC ARTIFACTS) ALL WORK SHALL CEASE AND THE WASHINGTON STATE ARCHAEOLOGIST AT THE DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION (DAHP), THE INTERESTED TRIBES (SWINOMISH AND TULIP TRIBES) AND THE RURAL DEVELOPMENT STATE ENVIRONMENTAL COORDINATOR (RD SEC)
- IF HUMAN REMAINS ARE UNCOVERED, ALL WORK SHALL CEASE IMMEDIATELY IN ACCORDANCE WITH THE NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT OF 1990 (NAGPRA) AND WASHINGTON STATE STATUTES RCW 27.44. THE AREA AROUND THE DISCOVERY SHALLBE SECURED AND THE ISLAND COUNTY ENFORCEMENT AGENCY AND THE RD SEC SHALL BE NOTIFIED IMMEDIATELY. THE RD SEC SHALL NOTIFY THE STATE ARCHEOLOGIST AT DAHP WITHOUT DELAY.

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY THE WATER COMPANY A MINIMUM OF 24 HOURS PRIOR TO STARTING ANY
- THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY LOCATE CENTER AT 1-800-424-5555 AT LEAST
- THE CONTRACTOR SHALL PROTECT IN PLACE, ALL UTILITIES, STRUCTURES AND FEATURES, WHETHER OR NOT SHOWN ON THESE PLANS. ANY DAMAGE TO EXISTING UTILITIES OR FEATURES SHALL BEREPAIRED AT
- LOCATIONS OF EXISTING FEATURES AND UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCE OF CONSTRUCTION.
- ALL WORK SHALL CONFORM TO CURRENT APPROVED STANDARD PLANS AND WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP ACCURATE AS-BUILT DRAWINGS AND DELIVER THIS INFORMATION TO THE WATER COMPANY FOR PREPARATION OF AS-BUILT DRAWINGS
- WATER MAINS TO SHALL BE PROPERLY DISINFECTED, FLUSHED, AND HAVE A SATISFACTORY

BACTERIOGICAL TEST RESULTS FOR A WATER SAMPLE COLLECTED FROM THE PIPE

- UTILITY SERVICE INTERRUPTIONS SHALL NOT EXCEED TWO HOURS.
- 24 HOUR NOTICE SHALL BE PROVIDED TO ALL PROPERTY OWNERS/OCCUPANTS OF ANY UTILITY SERVICE OR ACCESS INTERRUPTIONS
- ONE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON COUNTY ROADS. ROAD CLOSURES WILL NOT BE ALLOWED LINESS EXPRESSLY AUTHORIZED AND APPROVED BY ISLAND COUNTY
- PROPER SIGNAGE AND FLAGGERS ARE REQUIRED PER THE MUTCD. FLAGGERS SHALL HAVE CURRENT CARDS INDICATING THAT THEY ARE QUALIFIED TO PERFORM THE REQUIRED TRAFFIC CONTROL
- ACCESS TO PRIVATE PROPERTY SHALL BE RESTORED DAILY
- STREETS SHALL BE SWEPT DAILY OR AS NEEDED.









/ER LAKE - DEVELOPER EXTENS IINGLEAF LN, OAK HARBOR, WA 9 GENERAL NOTES & LEGEND SILVER LAKE WATER SYSTEM WATER & WASTEWATER SERVICES

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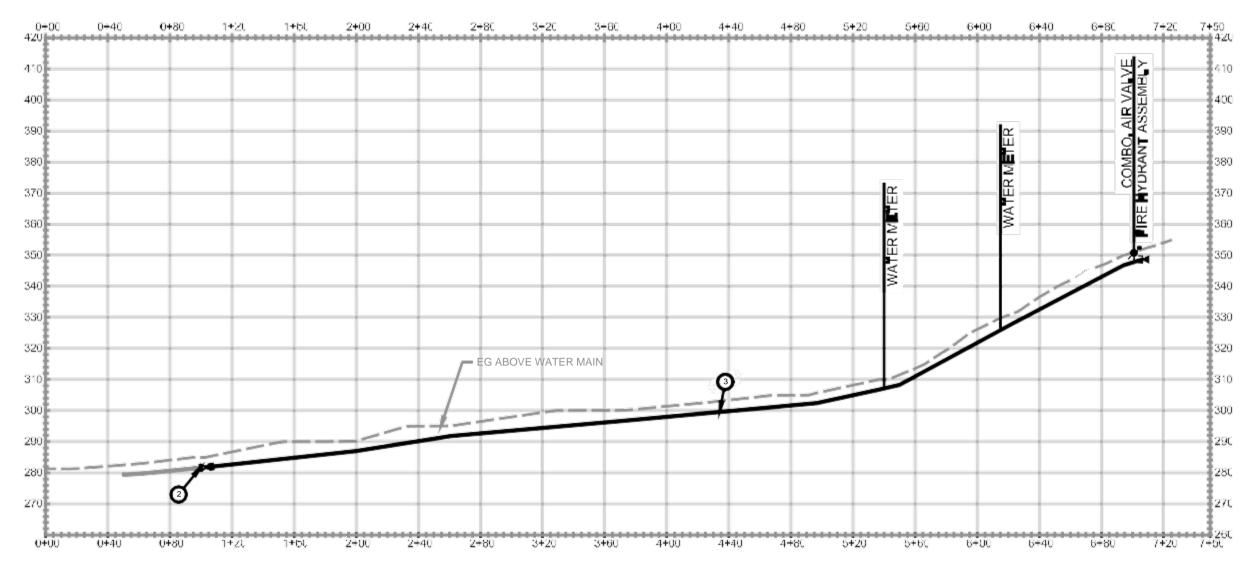
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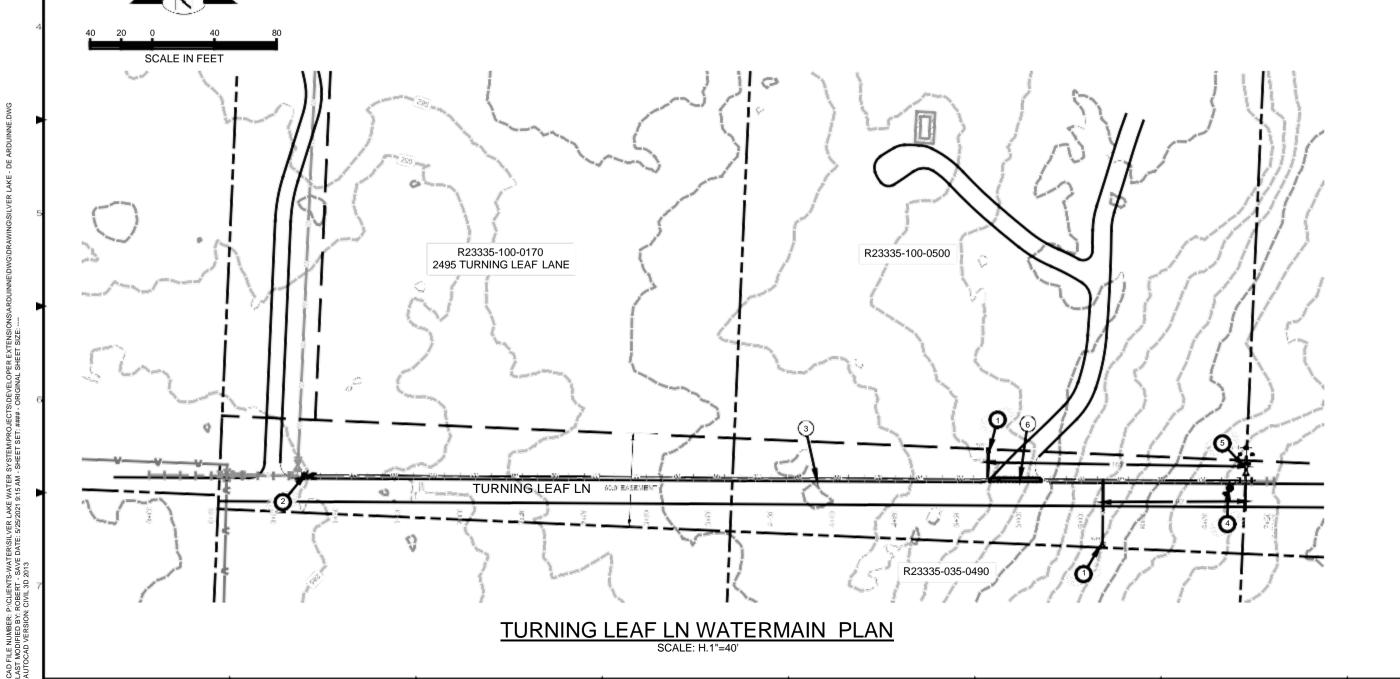
TRANSPORT OF SEDIMENT. THE CONTRACTOR SHALL PREVENT THE TRANSPORT OF SEDIMENT FROM

- SHALL APPLY ONE OR MORE OF THE FOLLOWING TEMPORARY ESC BMPS: TEMP SEEDING. MULCHING AND MATTING, CLEAR PLASTIC COVERING, AND/OR DUST CONTROL
- STORM DRAIN INLETS SHALL BE PROTECTED LISING BMP STORM DRAIN INLET PROTECTION THE
- NO MORE THAN THREE HUNDRED (300) FEET OF TRENCH MAY REMAIN OPEN AT ONE TIME
- DISCHARGE FROM DEWATERING DEVICES. WATER FROM A DEWATERING DEVICE SHALL DISCHARGE
- MAINTENANCE AND REPAIR OF EROSION AND SEDIMENTATION CONTROL MEASURES. THE
- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION.

IF EARTH DISTURBING ACTIVITIES DURING PROJECT CONSTRUCTION UNCOVER CULTURAL SHALL BE NOTIFIED IMMEDIATELY.



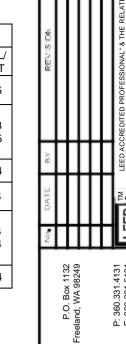
TURNING LEAF LN WATERMAIN PROFILE SCALE: H.1"=40'; V.1"=20'



	KEY NOTES	
KEY	DESCRIPTION	DETAIL/ SHEET
①	NEW SINGLE 1" SERVICE CONNECTION WITH 3/4" METER METER	H/C05
(2)	CONNECT TO EX 6" TEE REMOVE EXISTING CAP (1) 6" GATE VALVE (FLxMJ) CONCRETE THRUST BLOCK	C/C03 G/C05
(3)	598 LF 6" PVC C900	A/C04
4	(1) COMBINATION AIR RELEASE/VACUUM VALVE	F/C04
(5)	(1) 6" TEE (MJXFL) (1) FIRE HYDRANT ASSEMBLY (1) 6" CAP CONCRETE THRUST BLOCKS	B/C04 D/C04
6	9 SY DRIVEWAY REPAIR. MATCH EX SURFACE	A/C04

GENERAL NOTES:

- 1. THE WATER LINES ARE SHOW SCHEMATICALLY AND LENGTHS ARE APPROXIMATE. ALL LENGTHS MUST BE VERIFIED BY THE CONTRACTOR.
- 2. DUE TO THE INCONSISTENCY OF THE GIS DATA FOR THE GROUND SURFACE THE AIR RELEASE VALVE AND BLOW-OFF VALVES ARE SHOWN AT THE ANTICIPATED LOCATIONS. CONTRACTOR IS TO PROVIDE AIR RELEASE VALVES PER DETAIL F/C04 AT REGIONAL HIGH POINTS AND BLOW-OFFS PER DETAIL I/C05 AT REGIONAL LOW POINTS.
- 3. UNDERGROUND UTILITES ARE NOT SHOWN. OBTAIN A UTILITY LOCATE AND ADJUST WATERLINE LAYOUT AS NEEDED TO AVOID UTILITIES.



P: 360.331.4131 F: 360.331.5131 www.dcgengr.com



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SILVER LAKE WATER SYSTEM
WATER & WASTEWATER SERVICES, INC.
14263 CALHOUN RD, MT VERNON, WA
SILVER LAKE - DEVELOPER EXTENSION
TURNINGLEAF LN, OAK HARBOR, WA 98227
SITE PLAN & PROFILE

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OJ. MANAĞER:	RLB	
SEGNED DY:	RLB	ı
AWN BY:	SD/RB	ı
ECKED BY:	RLB	ı

5/25/2021

C03

