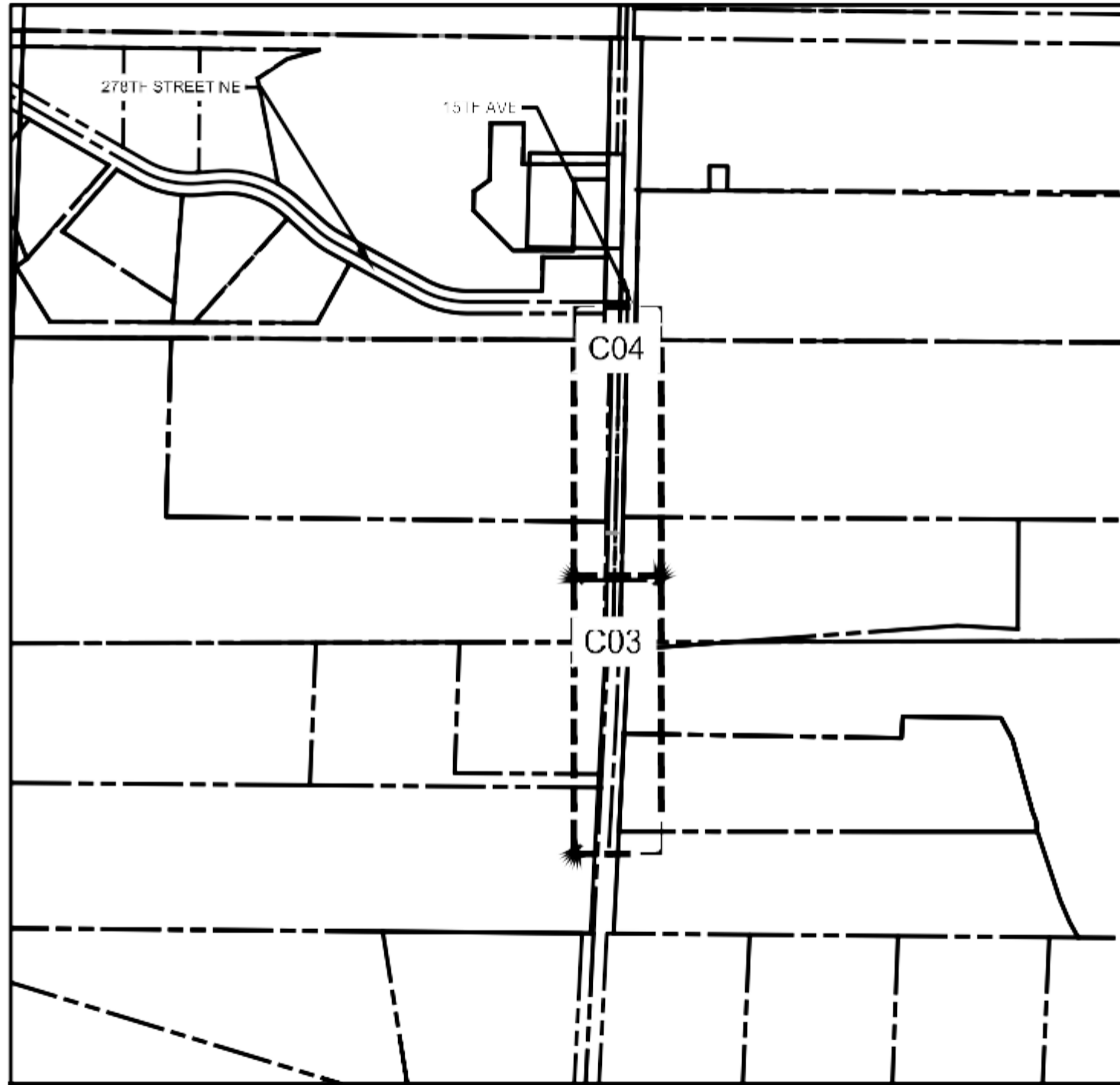


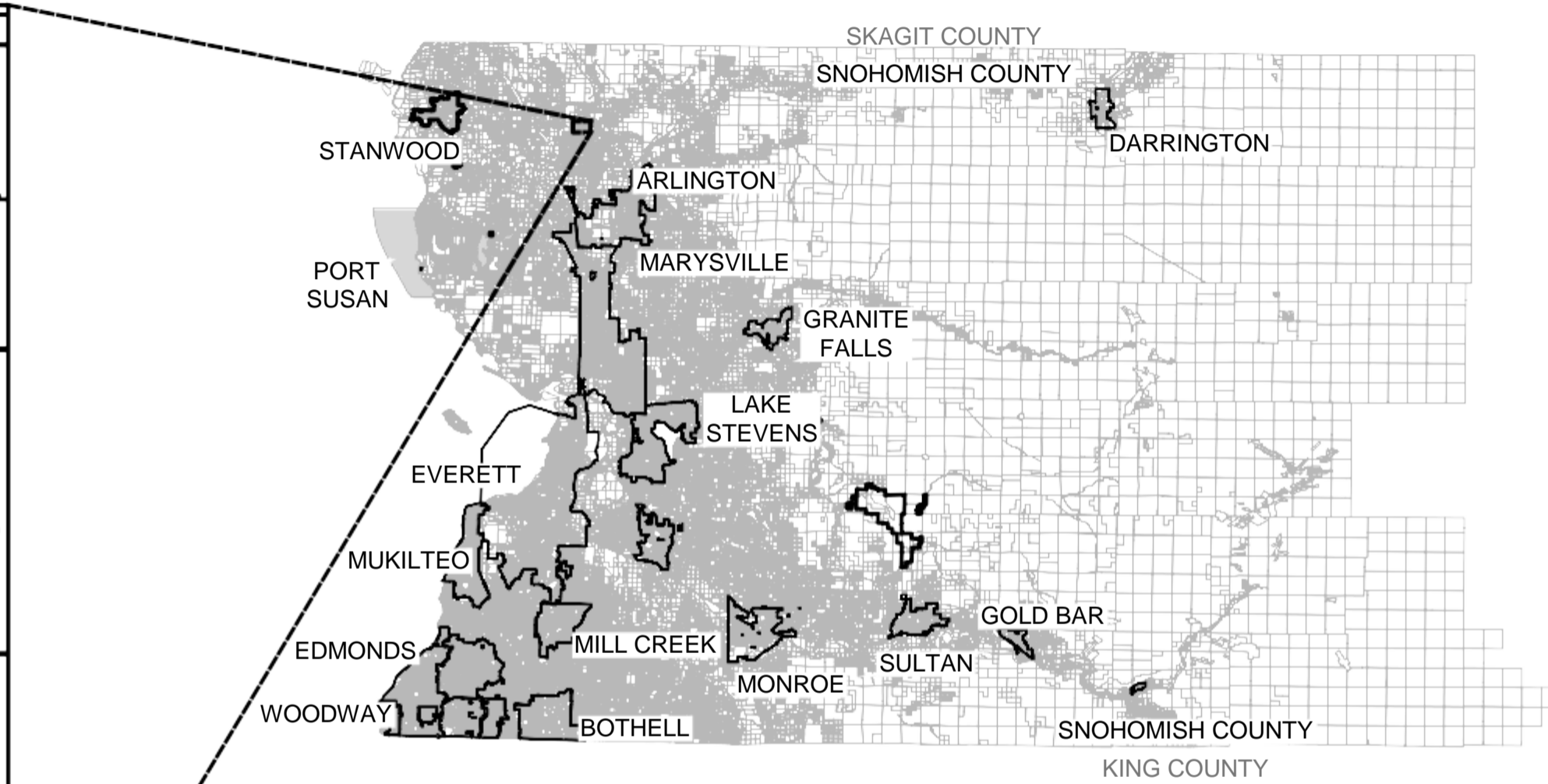
# TATOOSH WATER COMPANY RASMUSSEN/NEWELL - DEVELOPER EXTENSION ARLINGTON, WA

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER EXTENSION\DE RASMUSSEN\DRAWING\TATOOSH\WIDE\_RAS\_16.DWG LAST MODIFIED BY: JOSH - SAVE DATE: 6/26/2020 1:50 PM - SHEET SET: TATOOSH\_WIDE\_RAS - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES) AUTOCAD VERSION: CIVIL 3D 2015



1"=200'  
SCALE IN FEET

**KEY MAP**  
1"=200'



**SNOHOMISH COUNTY MAP**  
NOT TO SCALE

**PROJECT INFORMATION:**

**APPLICANT:**  
TATOOSH WATER COMPANY  
JERRY RASMUSSEN  
27618 15TH AVE NE  
ARLINGTON, WA 98223

JEFF NEWELL  
27615 15TH AVE NE  
ARLINGTON, WA 98223

**CIVIL ENGINEER:**  
JEFFREY M. TASOFF, P.E.  
DAVIDO CONSULTING GROUP, INC.  
2210 RIVERSIDE DRIVE SUITE 110  
MOUNT VERNON, WA 98273

**SURVEYOR:**  
THOMAS E. BARRY  
METRON AND ASSOCIATES INC  
307 N OLYMPIC AVE, SUITE 205  
ARLINGTON, WA 98223

**TAX PARCELS:**  
32051900100900  
32051900101200  
32051900402401  
32051900400200

SHEET INDEX	
SHEET	TITLE
C01	COVER SHEET
C02	NOTES
C03	PLAN & PROFILE - 15TH AVE NE
C04	PLAN & PROFILE - 15TH AVE NE
C05	DETAILS
C06	DETAILS

NO.	DATE	BY	REVISION

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BASE MAP TOPOGRAPHY PROVIDED BY OTHERS. DCG CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, & ALL OTHER EXISTING FEATURES & CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN & OR PLANS CANNOT BE CONSTRUCTED AS SHOWN, CONTACT DCG PRIOR TO CONSTRUCTION.

OWNER: JERRY RASMUSSEN  
27618 15TH AVE NE  
ARLINGTON, WA 98223

PROJECT: TATOOSH WATER  
RASMUSSEN/NEWELL - DEVELOPER EXTENSION

PROJ. MANAGER: JT  
DESIGNED BY: RLCEP  
DRAWN BY: JS  
CHECKED BY: JT

SCALE: AS SHOWN

DATE: 6/26/2020 REV: 1 SHEET: 1 OF 6

SHEET NUMBER: **C01**

LEED ACCREDITED PROFESSIONAL & THE RELATED ACRONYM & THE LEGACY LEED AP LOGO ARE TRADEMARKS AWARDED TO INDIVIDUALS UNDER LICENSE BY THE GREEN BUILDING CERTIFICATION INSTITUTE.

**LEED AP**

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER EXTENSION\DE RASMUSSEN\DRAWING\TATOOSH\WIDE\_RAS\_18.DWG LAST MODIFIED BY: JOSH.S - SAVE DATE 06/26/2020 12:50 PM - SHEET SET: TATOOSH\_WIDE\_RAS - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES) AUTOCAD VERSION: CIVIL 3D 2015

**WATER NOTES:**

REVISED 6/25/2020

- WATER MAINS, VALVES, FITTINGS, HYDRANTS, SERVICES, AND ALL OTHER COMPONENTS SHALL BE INSTALLED AND PRESSURE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, SECTION 7-09.
- THE CONTRACTOR SHALL GIVE THE TATOOSH WATER COMPANY AND WATER AND WASTEWATER SERVICES (360-466-4443) A MINIMUM OF 72 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 SYSTEM OPERATOR 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 3408 MADE OF NEW RESINS AND MEETING THE REQUIREMENTS OF ASTM D 3350 CELL CLASSIFICATION 345464C, ASTM F714, AWWA C901, AND AWWA C906. PROVISIONS FOR PIPE EXPANSION MUST BE ACCOUNTED FOR WHEN INSTALLING HDPE PIPING.
- WATER MAIN FITTINGS SHALL BE 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 FLAT FACED 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. THE TYPE, MATERIAL, AND IDENTIFICATION MARK FOR BOLTS AND NUTS SHALL BE PROVIDED. BOLTS, NUTS, AND WASHERS USED FOR SECURING FITTINGS SHALL BE OF SIMILAR MATERIALS. STEEL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A 307 OR ASTM F 568 FOR CARBON STEEL OR ASTM F 593 OR ASTM F 738 FOR STAINLESS STEEL. NUTS SHALL MEET THE REQUIREMENTS OF ASTM A 563 OR ASTM A 563 FOR CARBON STEEL OR ASTM F 594 OR ASTM F 836 FOR STAINLESS STEEL. IRON BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A 536, 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 THE WATER SYSTEM OPERATOR. 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 PIPE 6855 SERIES OR APPROVED EQUAL. THE COVER SHALL BE A TYLER PIPE STANDARD DROP LID 145325 OR APPROVED EQUAL.
- 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 C509-80 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-2360. 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 2 FOOT BY 2 FOOT BY 4 INCH CONCRETE 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.
- ALL FORM RELEASE AGENTS AND ADMIXTURES USED IN THE CONCRETE WORK MUST CONFORM TO NSF 60 REQUIREMENTS.

**EROSION AND SEDIMENTATION CONTROL (ESC) NOTES:**

- THE CONTRACTOR SHALL MEET SNOHOMISH COUNTY STANDARDS AND REQUIREMENTS BY USING APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION AND SEDIMENTATION CONTROL.
- EROSION 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.
- TRANSPORT OF SEDIMENT. THE CONTRACTOR SHALL PREVENT THE TRANSPORT OF SEDIMENT FROM 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 SHALL APPLY ONE OR MORE OF THE FOLLOWING TEMPORARY ESC BMPs: TEMP SEEDING, MULCHING AND MATTING, CLEAR PLASTIC COVERING, AND/OR DUST CONTROL.
- DENUDED AREAS SHALL BE STABILIZED AND SOIL STOCKPILES AS ESTABLISHED IN THE DRAINAGE MANUAL.
- STORM DRAIN INLETS SHALL BE PROTECTED USING BMP STORM DRAIN INLET PROTECTION. THE RECOMMENDED INLET PROTECTION ALTERNATIVES ARE TRIANGULAR SILT DIKES; BIOLOGS; EXERTS (FOSS ENVIRONMENTAL); DANDY BAGS; AND, STRAW WATTLES.
- NO MORE THAN THREE HUNDRED (300) FEET OF TRENCH MAY REMAIN OPEN AT ONE TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS.
- DISCHARGE FROM DEWATERING DEVICES. WATER FROM A DEWATERING DEVICE SHALL DISCHARGE INTO A SEDIMENT-RETENTION BMP.
- MAINTENANCE AND REPAIR OF EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL BMPs TO ASSURE THEIR CONTINUED PERFORMANCE.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION.

**UNANTICIPATED DISCOVERY PLAN:**

- IF EARTH DISTURBING ACTIVITIES DURING PROJECT CONSTRUCTION UNCOVER CULTURAL MATERIALS (I.E. 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) AND THE CULTURAL RESOURCES PROGRAM OF THE STILLAGUAMISH, SAUK-SUIATTLE, AND TULALIP TRIBE SHALL BE NOTIFIED IMMEDIATELY.
- 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 SHALL BE SECURED AND THE COUNTY CORONER AND THE STATE ARCHEOLOGIST AT DAHP SHALL BE NOTIFIED IMMEDIATELY. THE STATE ARCHEOLOGIST SHALL NOTIFY THE STILLAGUAMISH, SAUK-SUIATTLE, AND TULALIP TRIBES.
- CONSTRUCTION SHALL BE HALTED OR SHIFTED TO A NEW LOCATION PENDING THE NOTIFICATION PROCESS AND FURTHER INSTRUCTIONS ISSUED BY THE AGENCY AFTER CONSULTATION WITH THE STATE HISTORIC PRESERVATION OFFICE, STILLAGUAMISH, SAUK-SUIATTLE, AND TULALIP TRIBES, AND OTHER APPROPRIATE AUTHORITIES.

**GENERAL NOTES:**

- THE CONTRACTOR SHALL NOTIFY THE WATER SYSTEM OPERATOR A MINIMUM OF 24 HOURS PRIOR TO STARTING ANY WORK.
- THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY LOCATE CENTER AT 1-800-424-5555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 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 BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 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 CONTRACTOR.
- 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 OWNER FOR PREPARATION OF AS-BUILT DRAWINGS.
- WATER MAINS SHALL BE PROPERLY DISINFECTED, FLUSHED, AND HAVE A SATISFACTORY BACTERIOLOGICAL TEST RESULTS FROM A WATER SAMPLE COLLECTED FROM THE PIPE BEFORE ENTERING SERVICE.
- 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 UNLESS EXPRESSLY AUTHORIZED AND APPROVED BY SNOHOMISH 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 SWEEPED DAILY OR AS NEEDED.

**ENVIRONMENTAL NOTES:**

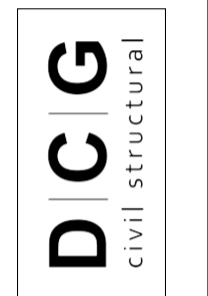
- EQUIPMENT MUST MEET CURRENT STATE OF WASHINGTON REGULATIONS FOR NOISE. NOISE PRODUCING EQUIPMENT WILL BE LOCATED IN ENCLOSURES WITH ACOUSTIC PANELS DESIGNED TO REDUCE NOISE.
- CONSTRUCTION ACTIVITIES WILL BE SCHEDULED TO REDUCE TRAFFIC, DUST AND NOISE IMPACTS IN RESIDENTIAL AREAS.
- THE APPLICANT SHALL OBTAIN ANY NECESSARY PERMITS FROM LOCAL AND OTHER GOVERNMENTAL AGENCIES.
- WORK IN PUBLIC RIGHT-OF-WAYS SHALL HAVE ALL NECESSARY PERMITS.
- WORK ON THIS PROJECT SHALL BE NO EARLIER THAN TWO HOURS AFTER SUNRISE AND NO LATER THAN TWO HOURS BEFORE SUNSET TO ACCOMMODATE LOCAL NESTING BALD EAGLES.

REVISION	BY	DATE	No.

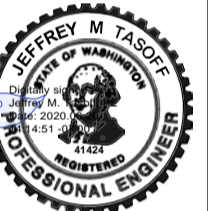
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OWNER: JERRY RASMUSSEN  
27618 15TH AVE NE  
ARLINGTON, WA 98223

PROJECT: TATOOSH WATER  
RASMUSSEN/NEWELL - DEVELOPER EXTENSION I

PROJ. MANAGER: JT  
DESIGNED BY: RLCEP  
DRAWN BY: JS  
CHECKED BY: JT

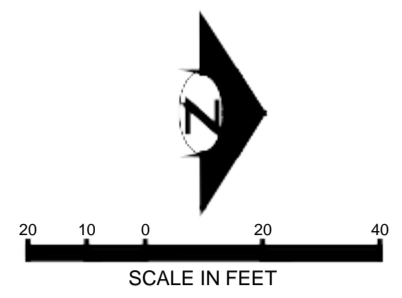
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DATE: 6/26/2020 REV: SHEET 2 OF 6

SHEET NUMBER

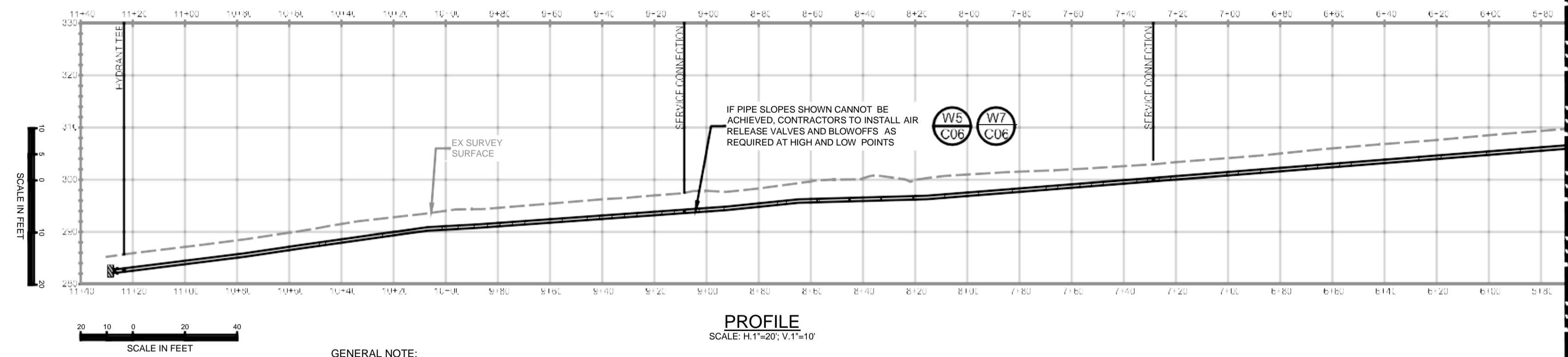
**C02**

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOO\DEVELOPER EXTENSION\DEVELOPER RASMUSSEN\DRAWING\TATOO\WATER\BASE - ORIGINAL SHEET SIZE: ARCH FULL BLEED D:\24.00 X 36.00 INCHES\AUTOCAD VERSION: CIVIL 3D 2015



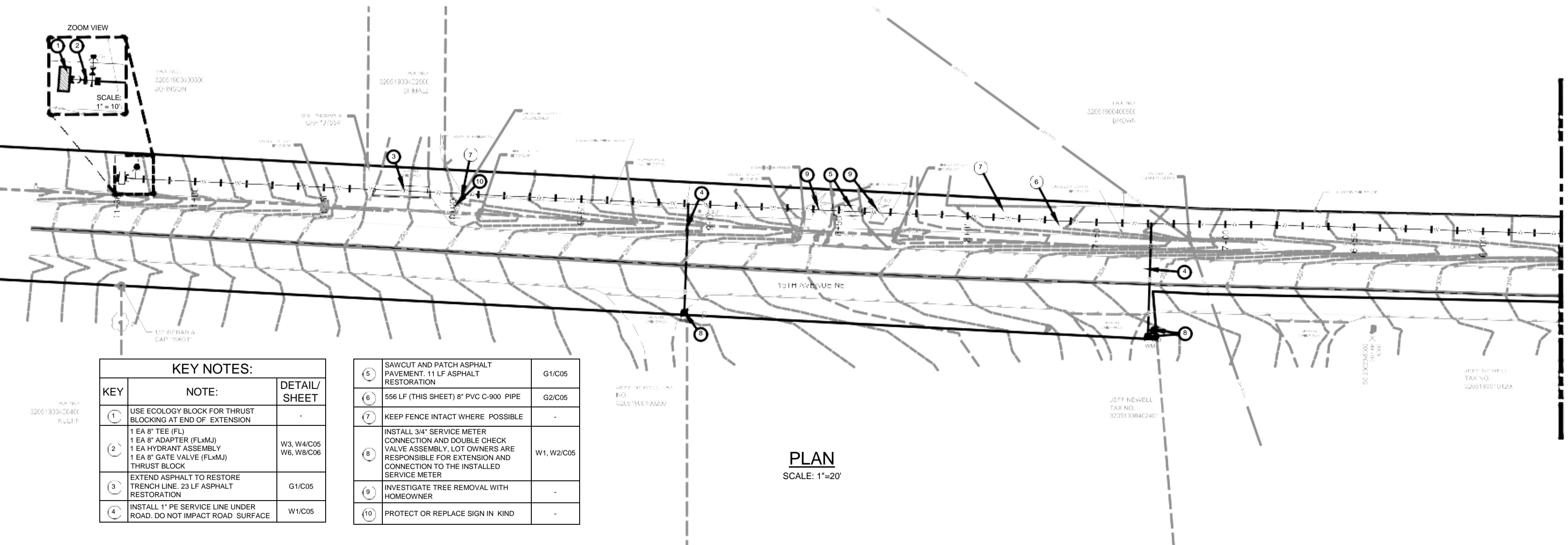
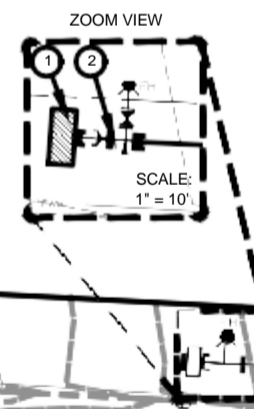
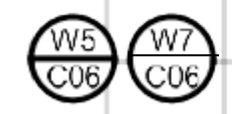
**LEGEND:**

- EXISTING PUBLIC UTILITY EASEMENT
- EXISTING RIGHT OF WAY
- ASPHALT PAVEMENT



- GENERAL NOTE:**
- UNDERGROUND UTILITIES ARE NOT SHOWN. OBTAIN A UTILITY LOCATE AND ADJUST WATERMAIN LAYOUT AS NEEDED TO AVOID UTILITIES.
  - EXISTING STORM PIPE DEPTHS SHOWN ARE APPROXIMATE. ADJUST WATERMAIN DEPTHS AS NECESSARY TO MAINTAIN MIN 30" COVER AND MIN 3" VERTICAL SEPARATION FROM STORM PIPE
  - CONTACT PARCEL OWNER IF TREE OR FENCE CONFLICT EXISTS. CONTACT DESIGN ENGINEER IF DIRECTIONAL BORE IS REQUIRED

IF PIPE SLOPES SHOWN CANNOT BE ACHIEVED, CONTRACTORS TO INSTALL AIR RELEASE VALVES AND BLOWOFFS AS REQUIRED AT HIGH AND LOW POINTS



**KEY NOTES:**

KEY	NOTE:	DETAIL/SHEET
1	USE ECOLOGY BLOCK FOR THRUST BLOCKING AT END OF EXTENSION	-
2	1 EA 8" TEE (FL) 1 EA 8" ADAPTER (FLxMJ) 1 EA HYDRANT ASSEMBLY 1 EA 8" GATE VALVE (FLxMJ) THRUST BLOCK	W3, W4/C05 W6, W8/C06
3	EXTEND ASPHALT TO RESTORE TRENCH LINE. 23 LF ASPHALT RESTORATION	G1/C05
4	INSTALL 1" PE SERVICE LINE UNDER ROAD. DO NOT IMPACT ROAD SURFACE	W1/C05

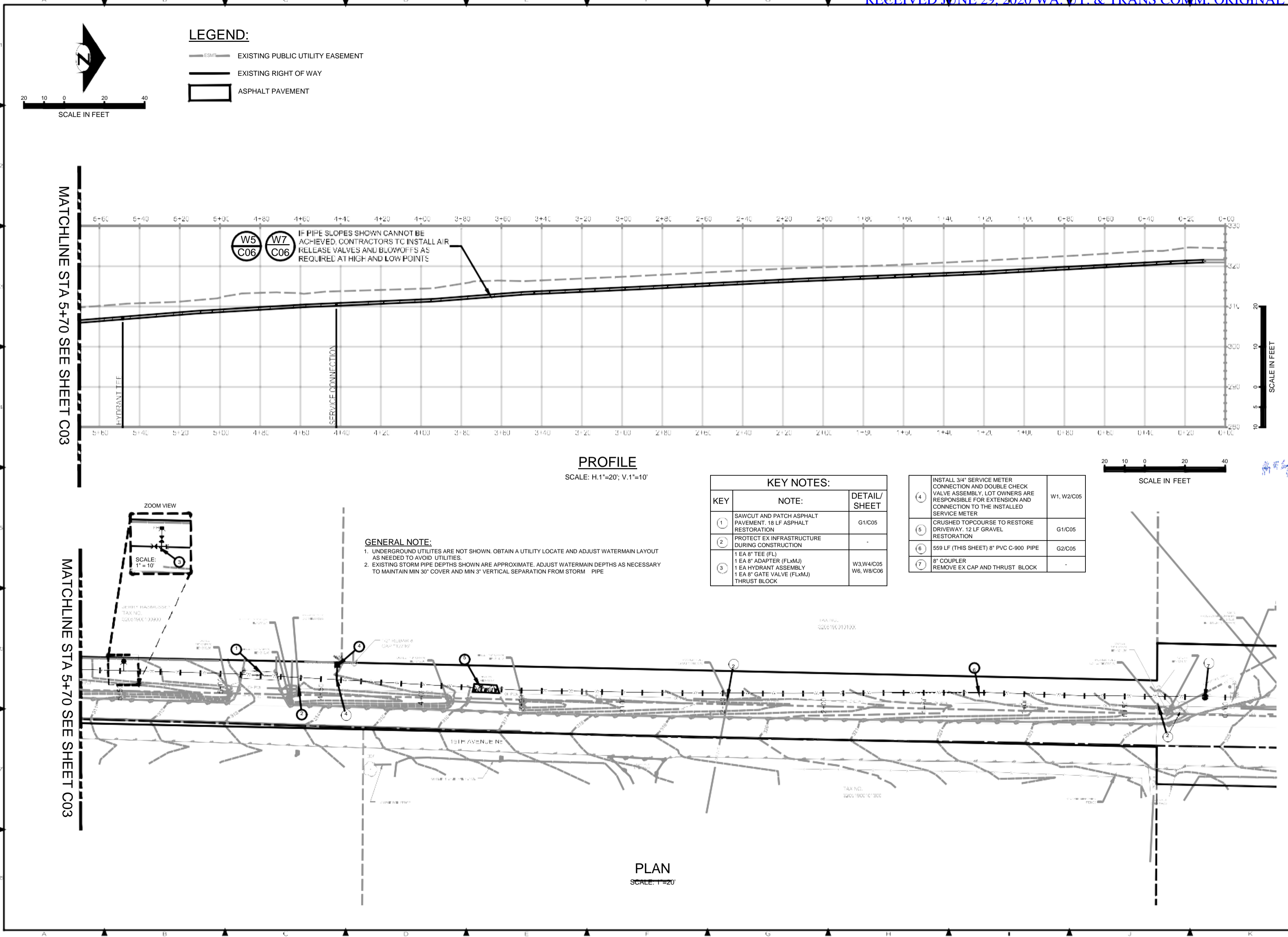
5	SAWCUT AND PATCH ASPHALT PAVEMENT. 11 LF ASPHALT RESTORATION	G1/C05
6	556 LF (THIS SHEET) 8" PVC C-900 PIPE	G2/C05
7	KEEP FENCE INTACT WHERE POSSIBLE	-
8	INSTALL 3/4" SERVICE METER CONNECTION AND DOUBLE CHECK VALVE ASSEMBLY. LOT OWNERS ARE RESPONSIBLE FOR EXTENSION AND CONNECTION TO THE INSTALLED SERVICE METER	W1, W2/C05
9	INVESTIGATE TREE REMOVAL WITH HOMEOWNER	-
10	PROTECT OR REPLACE SIGN IN KIND	-

MATCHLINE STA 5+70 SEE SHEET C04

MATCHLINE STA 5+70 SEE SHEET C04

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OWNER: JERRY RASMUSSEN 27618 15TH AVE NE ARLINGTON, WA 98223	PROJECT: TATOO SH WATER RASMUSSEN/NEWELL - DEVELOPER EXTENSION 1 & PROFILE - 15TH AVENUE
PROJ. MANAGER: DESIGNED BY: DRAWN BY: CHECKED BY:	JT RLCEP JS JT
SCALE: DATE: 6/26/2020	AS SHOWN SHEET OF 6
SHEET NUMBER <b>C03</b>	

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER EXTENSION\DEVELOPER EXTENSION\DRAWING\TATOOSH\WIDE\_BAS\_18.DWG(LAST MODIFIED BY: JOSH - SAVE DATE: 6/26/2020 12:50 PM - SHEET SET: TATOOSH\WIDE\_BAS - ORIGINAL SHEET SIZE: ARCH FULL BLEED D:\24.00 X 36.00 INCHES\AUTOCAD VERSION: CIVIL\_3D\_2015



**LEGEND:**

- EXISTING PUBLIC UTILITY EASEMENT
- EXISTING RIGHT OF WAY
- ASPHALT PAVEMENT



**PROFILE**  
SCALE: H.1"=20'; V.1"=10'

**PLAN**  
SCALE: 1"=20'

IF PIPE SLOPES SHOWN CANNOT BE ACHIEVED, CONTRACTORS TO INSTALL AIR RELEASE VALVES AND BLOWOFFS AS REQUIRED AT HIGH AND LOW POINTS

**GENERAL NOTE:**  
1. UNDERGROUND UTILITIES ARE NOT SHOWN. OBTAIN A UTILITY LOCATE AND ADJUST WATERMAIN LAYOUT AS NEEDED TO AVOID UTILITIES.  
2. EXISTING STORM PIPE DEPTHS SHOWN ARE APPROXIMATE. ADJUST WATERMAIN DEPTHS AS NECESSARY TO MAINTAIN MIN 30" COVER AND MIN 3" VERTICAL SEPARATION FROM STORM PIPE

**KEY NOTES:**

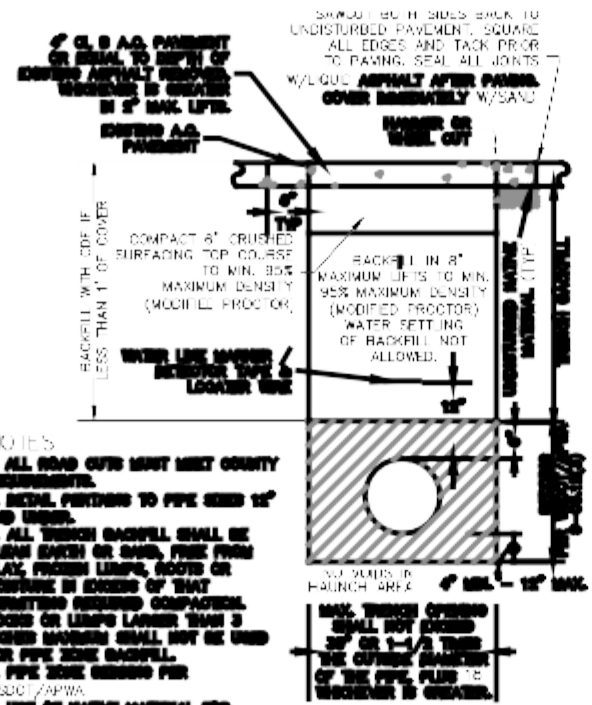
KEY	NOTE:	DETAIL/SHEET
1	SAWCUT AND PATCH ASPHALT PAVEMENT, 18 LF ASPHALT RESTORATION	G1/C05
2	PROTECT EX INFRASTRUCTURE DURING CONSTRUCTION	
3	1 EA 8" TEE (FL) 1 EA 8" ADAPTER (FLxMJ) 1 EA HYDRANT ASSEMBLY 1 EA 8" GATE VALVE (FLxMJ) THRUST BLOCK	W3/W4/C05 W6, W8/C06

4	INSTALL 3/4" SERVICE METER CONNECTION AND DOUBLE CHECK VALVE ASSEMBLY, LOT OWNERS ARE RESPONSIBLE FOR EXTENSION AND CONNECTION TO THE INSTALLED SERVICE METER	W1, W2/C05
5	CRUSHED TOPCOURSE TO RESTORE DRIVEWAY, 12 LF GRAVEL RESTORATION	G1/C05
6	559 LF (THIS SHEET) 8" PVC C-900 PIPE	G2/C05
7	8" COUPLER REMOVE EX CAP AND THRUST BLOCK	

MATCHLINE STA 5+70 SEE SHEET C03

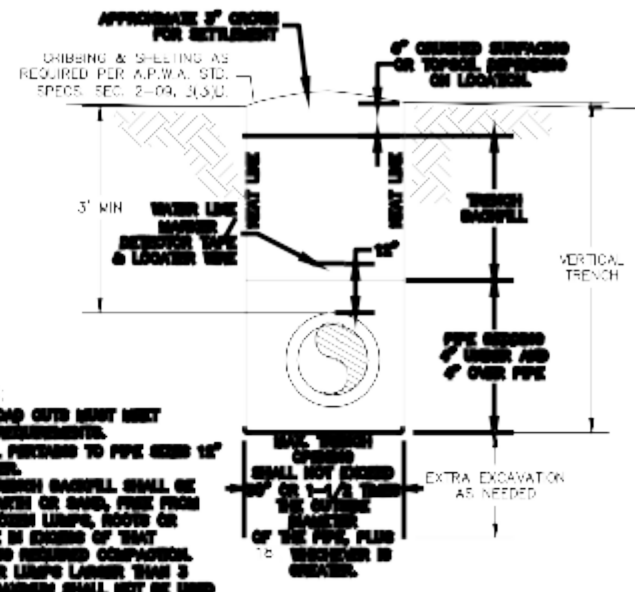
MATCHLINE STA 5+70 SEE SHEET C03

 2210 Riverside Drive Suite 210 Mount Vernon WA P: 360.889.1110 F: 360.331.5131 www.dcgengr.com	CALL 811 2 BUSINESS DAYS BEFORE YOU DIG		LEED ACCREDITED PROFESSIONAL & THE RELATED ACRONYM & THE LEGACY LEED AP LOGO ARE TRADEMARKS AWARDED TO INDIVIDUALS UNDER LICENSE BY THE GREEN BUILDING CERTIFICATION INSTITUTE.
OWNER: JERRY RASMUSSEN 27618 15TH AVE NE ARLINGTON, WA 98223	PROJECT: TATOOSH WATER RASMUSSEN/NEWELL - DEVELOPER EXTENSION 1 & PROFILE - 15TH AVE NE	PROJ. MANAGER: JI DESIGNED BY: RLCEP DRAWN BY: JS CHECKED BY: JI SCALE: AS SHOWN DATE: 6/26/2020 SHEET NUMBER: 4 OF 6	SHEET NUMBER <span style="font-size: 2em; font-weight: bold;">C04</span>



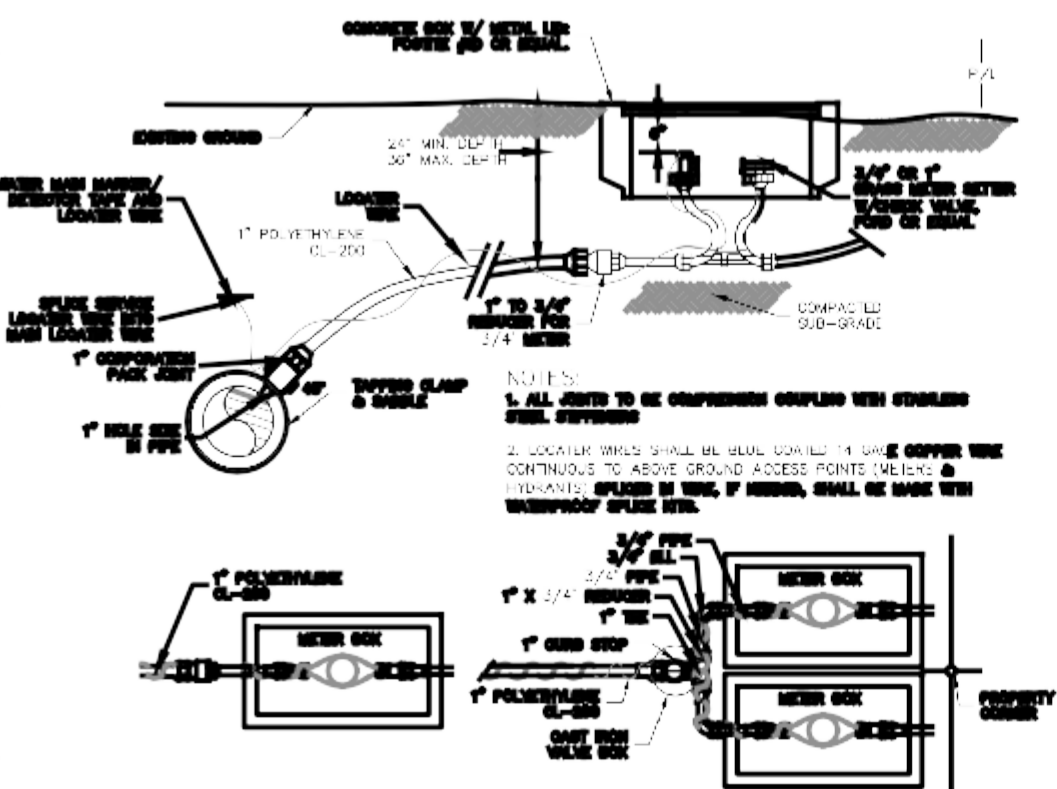
- NOTES:**
1. ALL ROAD CUTS MUST MEET COUNTY REQUIREMENTS.
  2. REIN. FORTING TO PIPE SHALL BE 12\"/>

TYPICAL TRENCH PAVEMENT  
NTS  
G1  
C03 & C04



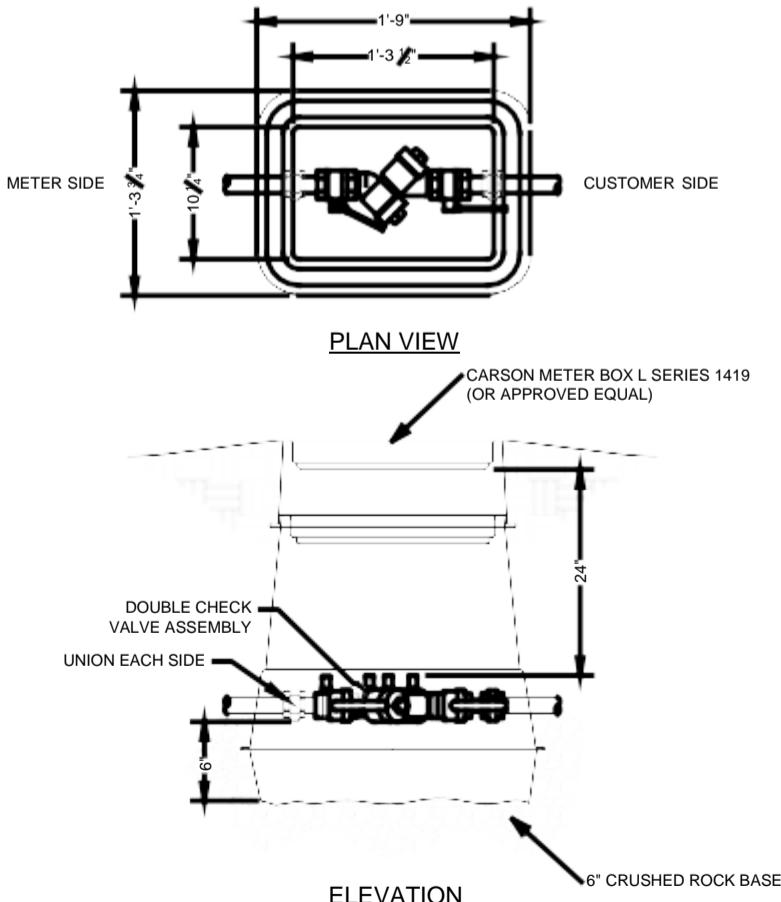
- NOTES:**
1. ALL ROAD CUTS MUST MEET COUNTY REQUIREMENTS.
  2. REIN. FORTING TO PIPE SHALL BE 12\"/>

TYPICAL TRENCH NON - PAVEMENT  
NTS  
G2  
C03 & C04



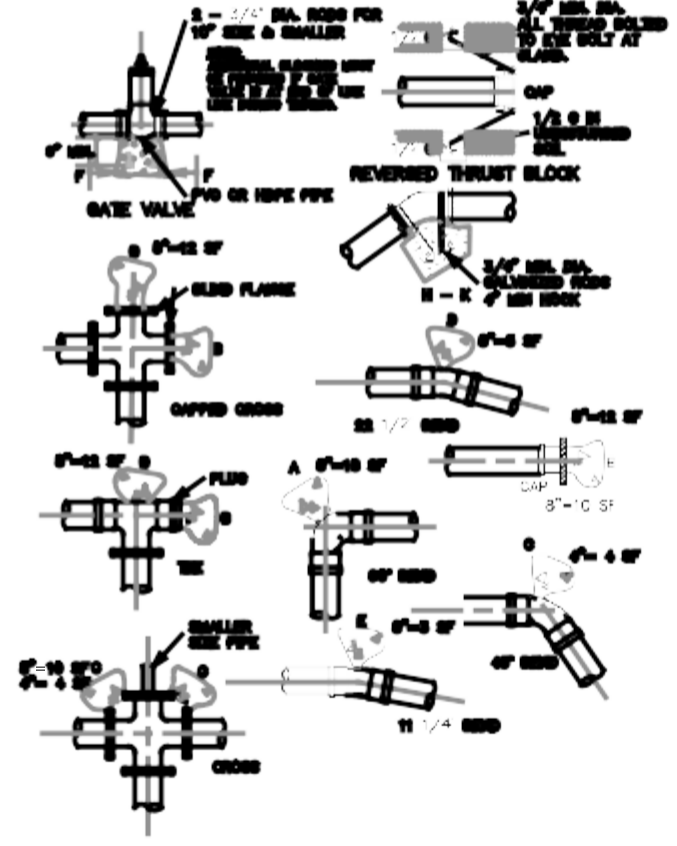
- NOTES:**
1. ALL JOINTS TO BE COMPRESSION COUPLING WITH STUDDING STEEL SUPPORTS.
  2. LOCATOR WIRES SHALL BE BLUE COILED 1/4\"/>

WATER METER  
NTS  
W1  
C03 & C04



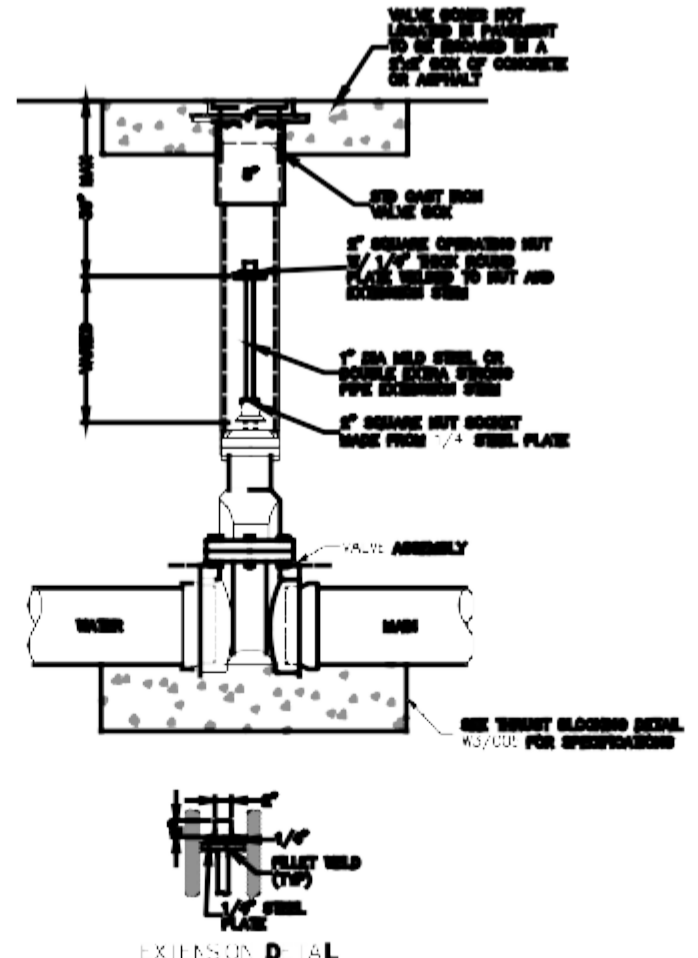
- NOTES:**
1. ALL JOINTS TO BE COMPRESSION COUPLING WITH STUDDING STEEL SUPPORTS.
  2. LOCATOR WIRES SHALL BE BLUE COILED 1/4\"/>

DOUBLE CHECK VALVE ASSEMBLY  
NTS  
W2  
C03 & C04



- NOTES:**
1. THRUST BLOCK SHALL BE 12\"/>
- | PIPE SIZE | MIN. NUMBER OF BLOCKS | MIN. SPACING BETWEEN BLOCKS | MIN. SPACING FROM END OF PIPE | MIN. SPACING FROM CURB | MIN. SPACING FROM OTHER UTILITY | MIN. SPACING FROM FOUNDATION | MIN. SPACING FROM WALL | MIN. SPACING FROM CURB | MIN. SPACING FROM FOUNDATION | MIN. SPACING FROM WALL |
|-----------|-----------------------|-----------------------------|-------------------------------|------------------------|---------------------------------|------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 1/2"      | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 3/4"      | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 1"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 1 1/4"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 1 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 2"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 2 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 3"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 3 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 4"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 4 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 5"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 5 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 6"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 6 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 7"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 7 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 8"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 8 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 9"        | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 9 1/2"    | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 10"       | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 10 1/2"   | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 11"       | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 11 1/2"   | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |
| 12"       | 1                     | 12"                         | 12"                           | 12"                    | 12"                             | 12"                          | 12"                    | 12"                    | 12"                          | 12"                    |

WATER MAIN THRUST BLOCKING  
NTS  
W3  
C03 & C04



WATER VALVE EXTENSION  
NTS  
W4  
C03 & C04

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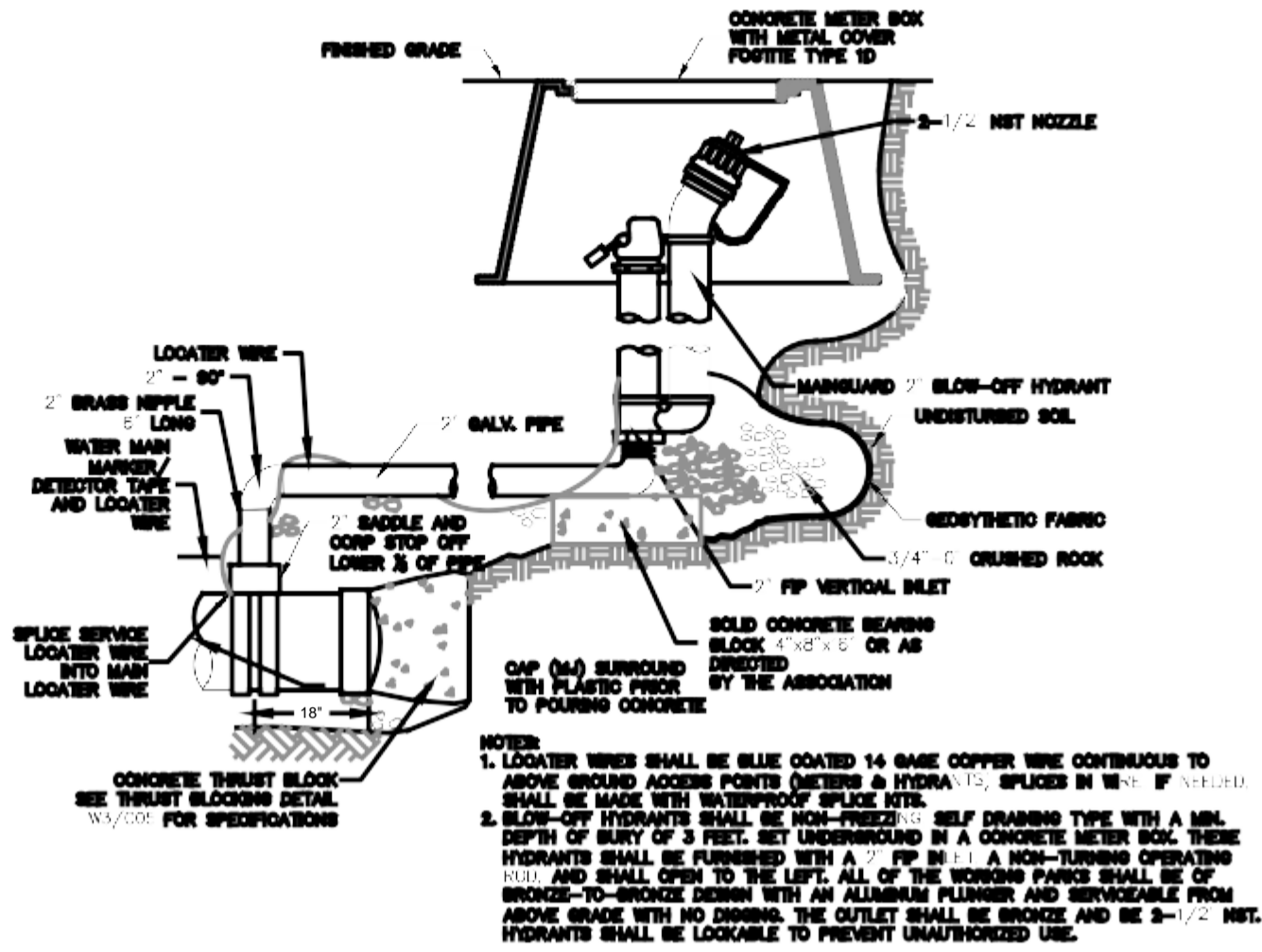
**DCG** CIVIL STRUCTURAL

CALL 811  
2 BUSINESS DAYS  
BEFORE YOU DIG

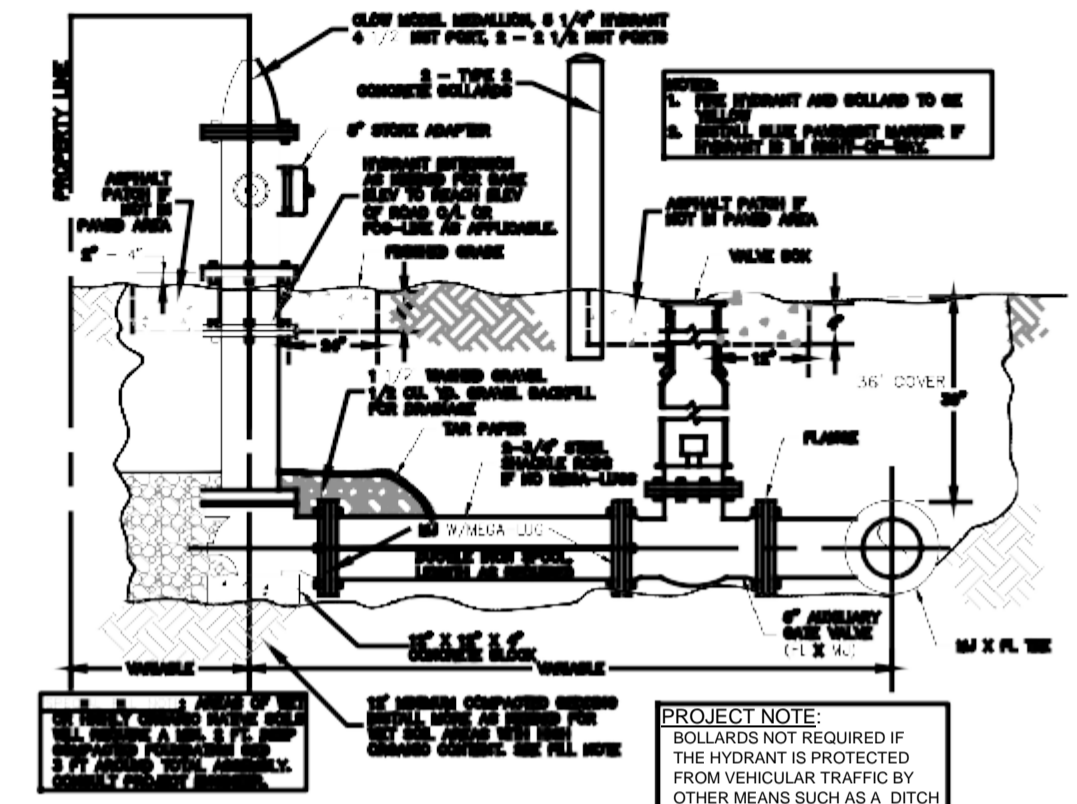
JERRY RASMUSSEN  
27618 15TH AVE NE  
ARLINGTON, WA 98223

TATOOSH WATER  
RASMUSSEN/NEWELL - DEVELOPER EXTENSION I

PROJ. MANAGER: JT  
DESIGNED BY: RL/CFP  
DRAWN BY: JS  
CHECKED BY: JT  
SCALE: AS SHOWN  
DATE: 6/26/2020 REV: SHEET 5 OF 6  
SHEET NUMBER: C05

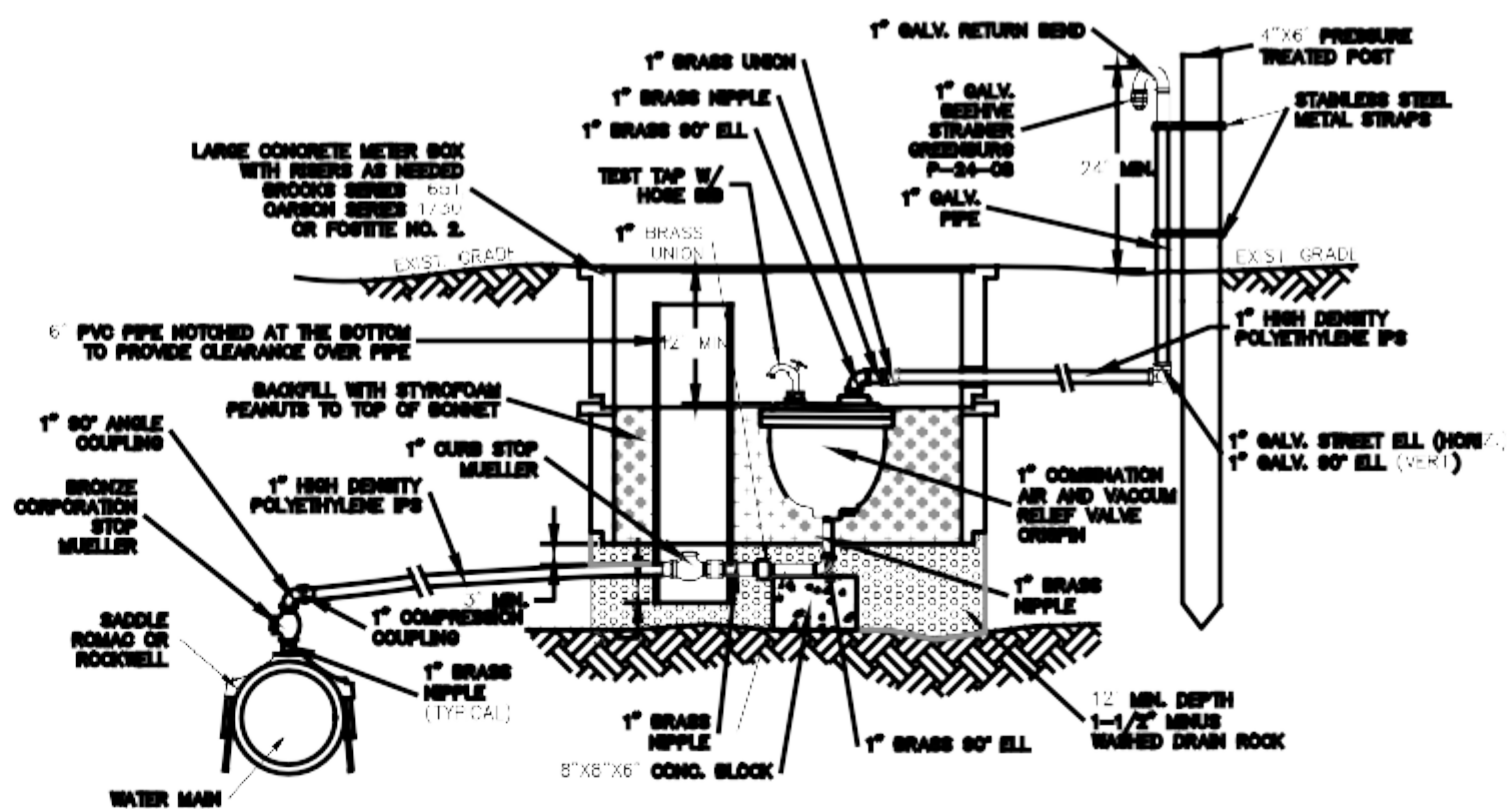


BLOW OFF ASSEMBLY **W5**  
NTS C03 & C04

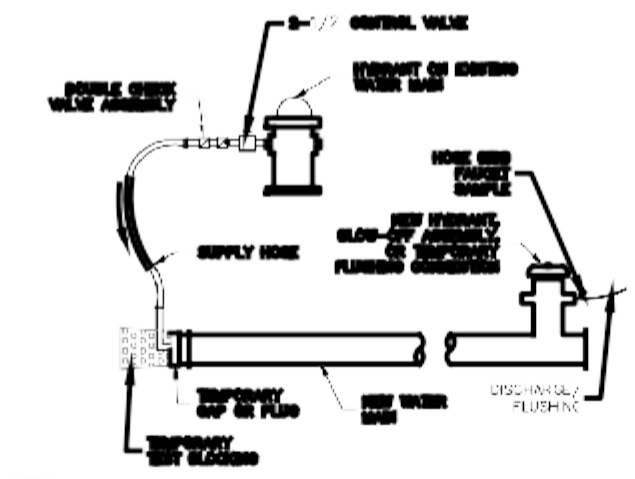


HYDRANT ASSEMBLY **W6**  
NTS C03 & C04

- NOTES:**
- A. AIR-N-VAC UNIT AND BOX SHALL BE INSTALLED IN A NON-TRAFFIC AREA.
  - B. SADDLE FOR AIR-N-VAC UNIT SHALL BE INSTALLED AT THE HIGH POINT OF THE LINE. IF HIGH POINT FALLS IN LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, INSTALL WATER MAIN TO CREATE A HIGH POINT WHERE AIR-N-VAC CAN BE LOCATED.
  - C. ALL PIPE AND FITTINGS SHALL BE MINIMUM PRESSURE CLASS 200 PSI, IPS SIZE. ALL FITTINGS BETWEEN MAIN AND AIR-N-VAC SHALL BE BRASS AND ALL FITTINGS ON THE AIR-N-VAC DISCHARGE SHALL BE GALVANIZED.
  - D. CONCRETE METER BOX PENETRATIONS SHALL BE GROUTED.
  - E. AIR-N-VAC RISER SHALL BE PAINTED AS DIRECTED BY THE WATER COMPANY.



AIR & VACUUM RELEASE VALVE ASSEMBLY **W7**  
NTS C03 & C04



MAIN FILLING **W8**  
NTS C03 & C04

<p>LEED ACCREDITED PROFESSIONAL &amp; THE RELATED ACRONYM &amp; THE LEGACY LEED AP LOGO ARE TRADEMARKS AWARDED TO INDIVIDUALS UNDER LICENSE BY THE GREEN BUILDING CERTIFICATION INSTITUTE.</p> <p><b>LEED AP</b></p>
<p>2210 Riverside Drive Suite 210 Mount Vernon WA P: 360.889.1110 F: 360.331.5131 www.dcgengr.com</p>
<p><b>DCG</b> Civil Structural</p>
<p>CALL 811 2 BUSINESS DAYS BEFORE YOU DIG</p>
<p><b>JERRY RASMUSSEN</b> Professional Engineer No. 41424</p>
<p>BASE MAP TOPOGRAPHY PROVIDED BY OTHERS. DCG CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, &amp; ALL OTHER EXISTING FEATURES &amp; CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN &amp; OR PLANS CANNOT BE CONSTRUCTED AS SHOWN, CONTACT DCG PRIOR TO CONSTRUCTION.</p>
<p>OWNER: <b>JERRY RASMUSSEN</b> 27618 15TH AVE NE ARLINGTON, WA 98223</p>
<p>PROJECT: <b>TATOOSH WATER RASMUSSEN/NEWELL - DEVELOPER EXTENSION I</b></p>
<p>PROJ. MANAGER: JT DESIGNED BY: RLCEP DRAWN BY: JS CHECKED BY: JT</p>
<p>SCALE: AS SHOWN</p>
<p>DATE: 6/26/2020 REV: SHEET 6 OF 6</p>
<p>SHEET NUMBER <b>C06</b></p>

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER EXTENSION\DCG\ASSEMBLY\W5\W5.dwg; DATE: 06/26/2020 12:50 PM; SAVE DATE: 06/26/2020 12:50 PM; SHEET SET: TATOOSH\W5\W5.dwg; ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES); AUTOCAD VERSION: CIVIL 3D 2015