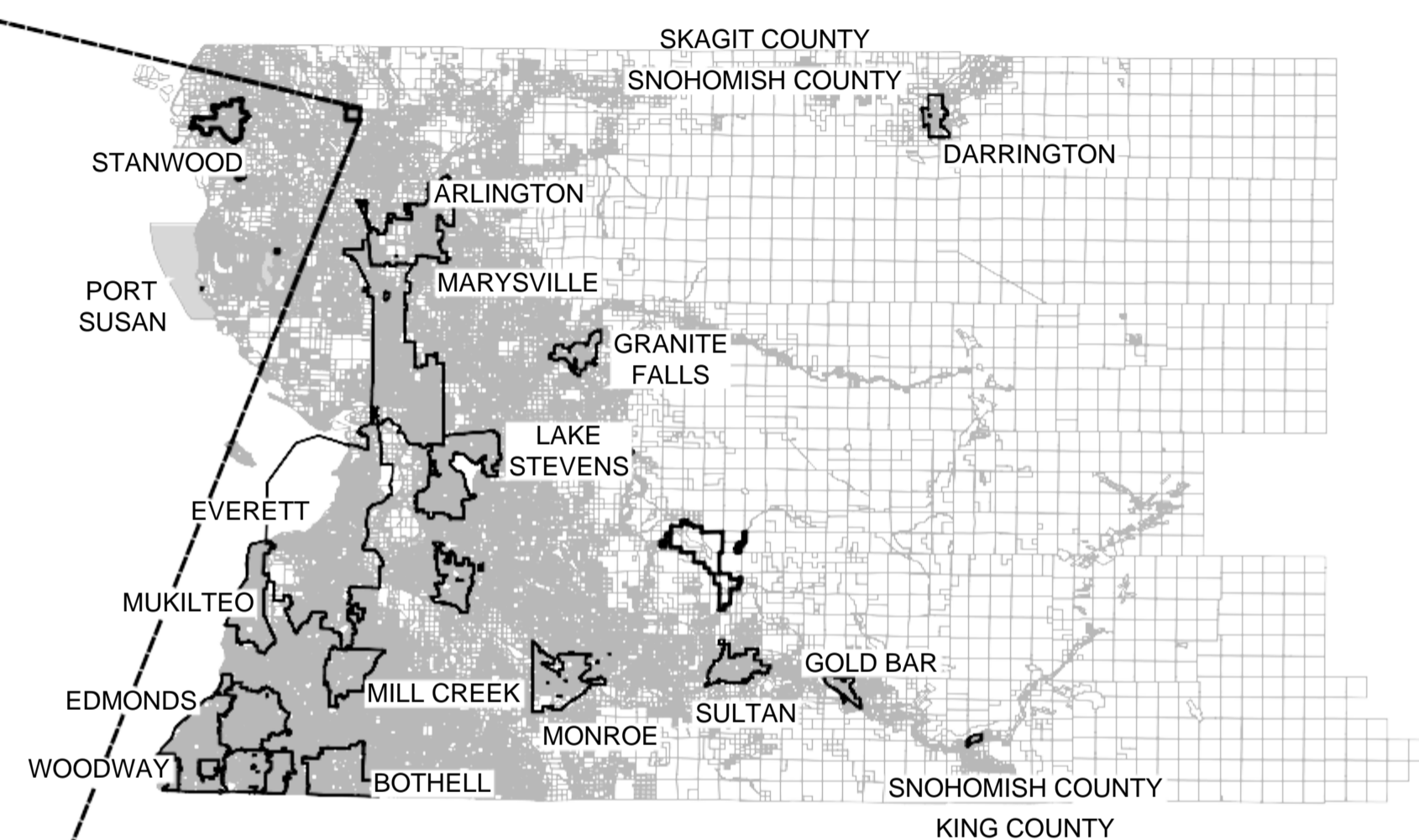
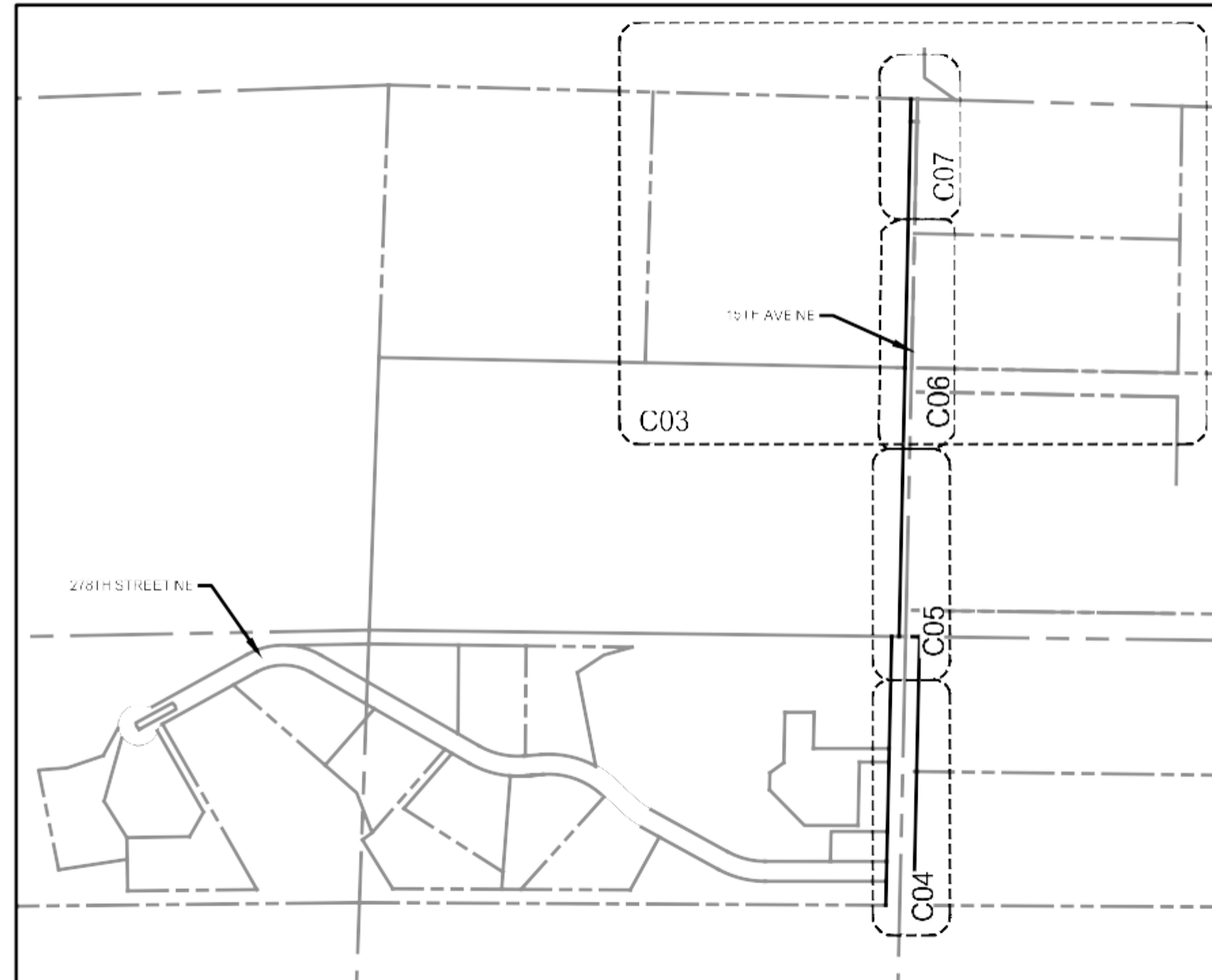


TATOOSH WATER COMPANY 15TH AVE WATER MAIN EXTENSION ARLINGTON, WA



SNOHOMISH COUNTY MAP
NOT TO SCALE

PROJECT INFORMATION:

APPLICANT:
TATOOSH WATER COMPANY
14263 CALHOUND ROAD
MOUNT VERNON, WA 98273

CIVIL ENGINEER:
JEFFREY M. TASOFF, P.E.
DAVIDO CONSULTING GROUP, INC.
2210 RIVERSIDE DRIVE SUITE 210
MOUNT VERNON, WA 98273

DRAWING LIST

DRAWING NO.	PLAN NO.	DRAWING TITLE
1	C01	COVER SHEET
2	C02	NOTES
3	C03	STREAM CROSSING PLAN VIEW
4	C04	PLAN & PROFILE - 15TH AVE
5	C05	PLAN & PROFILE - 15TH AVE
6	C06	PLAN & PROFILE - 15TH AVE
7	C07	PLAN & PROFILE - 15TH AVE
8	C08	DETAILS
9	C09	DETAILS

No.	DATE	BY	REVISION

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Vernon WA
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OWNER: TATOOSH WATER COMPANY
14263 CALHOUND ROAD MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION
COVER SHEET

PROJ. MANAGER: JT
DESIGNED BY: SG
DRAWN BY: RB
CHECKED BY: JT
SCALE: AS SHOWN
DATE: 6/19/2018
REV: A
SHEET: 1 OF 9

SHEET NUMBER
C01

CAD FILE NUMBER: P:\CLIENTS-WATER\TATOOSH\DEVELOPER EXTENSION\DRAWING\TATOOSH_WME\EXTENSION.DWG LAST MODIFIED BY: GREG - SAVE DATE: 6/19/2018 11:11 AM - SHEET SET: TATOOSH WME EXTENSION - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES) AUTOCAD VERSION: CIVIL 3D 2015

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER\EXTENSION\DWG\DRAWING\TATOOSH_LMM\EXTENSION\DWG\LAST MODIFIED BY: GREG - SAVE DATE: 6/19/2018 11:11 AM - SHEET SET: TATOOSH_LMM\EXTENSION - ORIGINAL SHEET SIZE: ARCH-FULL BLEED D (24.00 X 36.00 INCHES)\AUTOCAD VERSION: CIVIL 3D 2015

WATER NOTES:

1. 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.
2. THE CONTRACTOR SHALL GIVE THE TATOOSH WATER COMPANY AND WATER AND WASTEWATER SERVICE 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.
3. IN CERTAIN SITUATIONS, THE ASSOCIATION MAY DICTATE SCHEDULING OF WATER MAIN SHUTDOWNS SO AS NOT TO IMPOSE UNNECESSARY SHUTDOWNS DURING SPECIFIC PERIODS TO EXISTING CUSTOMERS.
4. 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 ACCOUNTING FOR WHEN INSTALLING HDPE PIPING.
5. 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 PLU5 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 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.
6. 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.
7. THE MINIMUM COVER FOR ALL WATER MAINS FROM TOP OF PIPE TO FINISH GRADE SHALL BE 36 INCHES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. ALL VALVES AND FITTINGS SHALL BE DUCTILE IRON WITH ANSI FLANGES OR MECHANICAL JOINT ENDS. ALL EXISTING VALVES SHALL BE OPERATED BY DISTRICT 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 PIPE 6855 SERIES OR EQUAL APPROVED BY THE DISTRICT. THE COVER SHALL BE A TYLER PIPE STANDARD DROP LID 145325 OR EQUAL APPROVED BY THE DISTRICT.
9. 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.
10. 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 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.
11. 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.
12. ALL FORM RELEASE AGENTS AND ADMIXTURES USED IN THE CONCRETE WORK MUST CONFORM TO NSF 60 REQUIREMENTS.

EROSION AND SEDIMENTATION CONTROL (ESC) NOTES:

1. THE CONTRACTOR SHALL MEET ISLAND COUNTY STANDARDS AND REQUIREMENTS BY USING APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION AND SEDIMENTATION CONTROL.
2. 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.
3. 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.
4. 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.
5. DENUDED AREAS SHALL BE STABILIZED AND SOIL STOCKPILES AS ESTABLISHED IN THE DRAINAGE MANUAL.
6. 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 WATTLETS.
7. 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.
8. DISCHARGE FROM DEWATERING DEVICES. WATER FROM A DEWATERING DEVICE SHALL DISCHARGE INTO A SEDIMENT-RETENTION BMP.
9. 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.
10. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION.

UNANTICIPATED DISCOVERY PLAN:

1. 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), THE HISTORY/ARCHAEOLOGY OFFICE OF THE SWINOMISH AND TULALIP TRIBES, THE CULTURAL RESOURCES PROGRAM OF THE SWINOMISH AND TULALIP TRIBES, AND THE RURAL DEVELOPMENT STATE ENVIRONMENTAL COORDINATOR (RD SEC) SHALL BE NOTIFIED IMMEDIATELY.
2. 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 ISLAND COUNTY CORONER AND THE STATE ARCHAEOLOGIST AT DAHP SHALL BE NOTIFIED IMMEDIATELY. THE STATE ARCHAEOLOGIST SHALL NOTIFY RD SEC AND SWINOMISH AND TULALIP TRIBES.
3. 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, SWINOMISH AND TULALIP TRIBES, AND OTHER APPROPRIATE AUTHORITIES.

GENERAL NOTES:

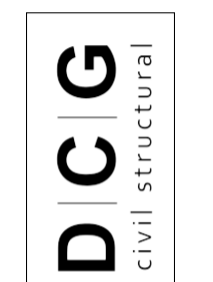
1. THE CONTRACTOR SHALL NOTIFY JURISDICTION A MINIMUM OF 24 HOURS PRIOR TO STARTING ANY WORK.
2. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY LOCATE CENTER AT 1-800-424-5555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL PROTECT IN PLACE, ALL UTILITIES, STRUCTURES AND FEATURES, WHETHER OR NOT SHOWN ON THESE PLANS. ANY DAMAGE TO EXISTING UTILITIES OR FEATURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. 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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCE OF CONSTRUCTION.
6. ALL WORK SHALL CONFORM TO CURRENT APPROVED STANDARD PLANS AND WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
7. THE CONTRACTOR SHALL BE REQUIRED TO KEEP ACCURATE AS-BUILT DRAWINGS AND DELIVER THIS INFORMATION TO THE OWNER FOR PREPARATION OF AS-BUILT DRAWINGS.
8. 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.
9. UTILITY SERVICE INTERRUPTIONS SHALL NOT EXCEED TWO HOURS.
10. 24 HOUR NOTICE SHALL BE PROVIDED TO ALL PROPERTY OWNERS/OCCUPANTS OF ANY UTILITY SERVICE OR ACCESS INTERRUPTIONS.
11. ONE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON COUNTY ROADS. ROAD CLOSURES WILL NOT BE ALLOWED UNLESS EXPRESSLY AUTHORIZED AND APPROVED BY ISLAND COUNTY.
12. 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.
13. ACCESS TO PRIVATE PROPERTY SHALL BE RESTORED DAILY.
14. STREETS SHALL BE SWEEPED DAILY OR AS NEEDED.

ENVIRONMENTAL NOTES:

1. 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.
2. CONSTRUCTION ACTIVITIES WILL BE SCHEDULED TO REDUCE TRAFFIC, DUST AND NOISE IMPACTS IN RESIDENTIAL AREAS.
3. THE APPLICANT SHALL OBTAIN ANY NECESSARY PERMITS FROM LOCAL AND OTHER GOVERNMENTAL AGENCIES.
4. WORK IN PUBLIC RIGHT-OF-WAYS SHALL HAVE ALL NECESSARY PERMITS.
5. 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.

NO.	DATE	BY	REVISION

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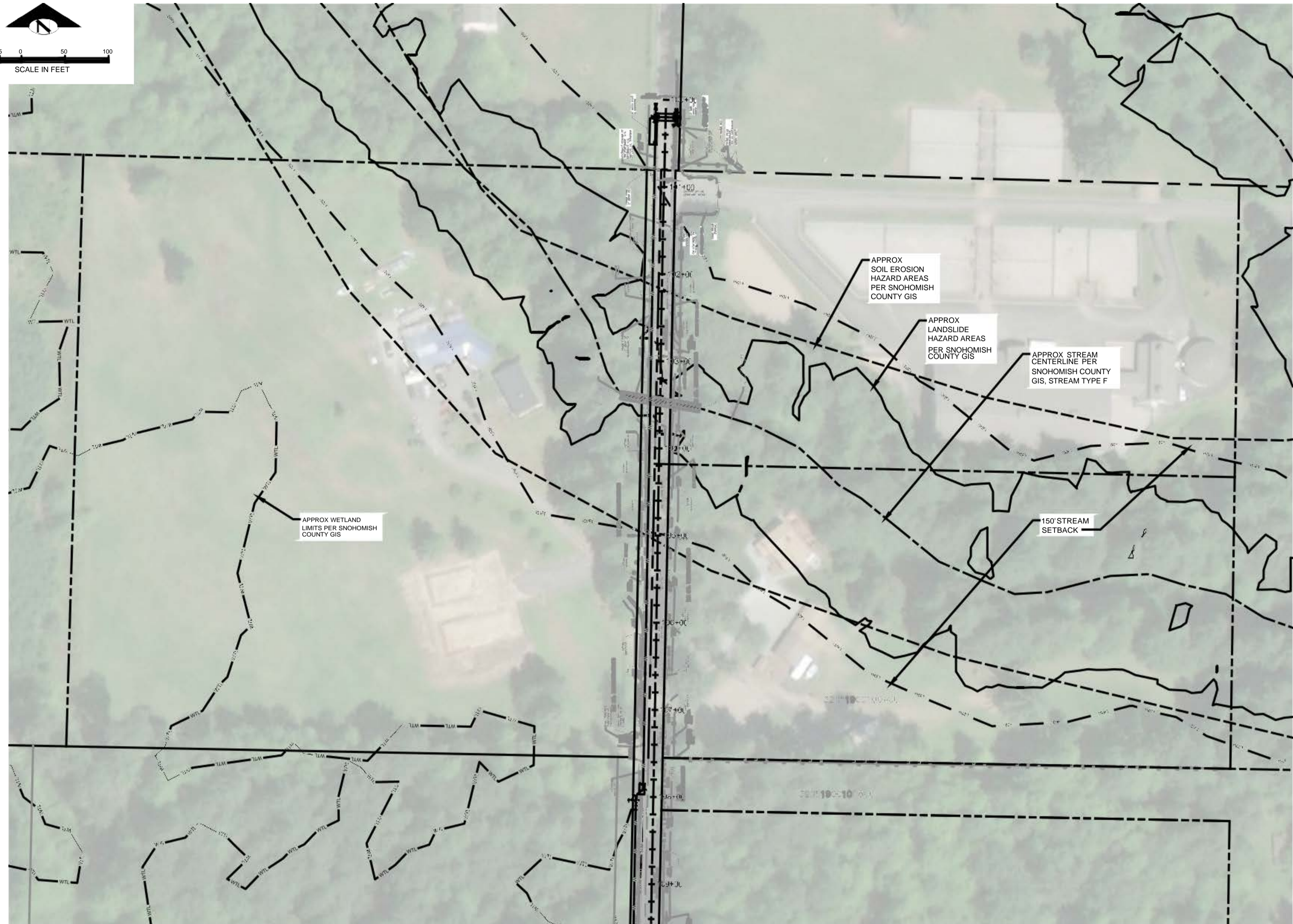
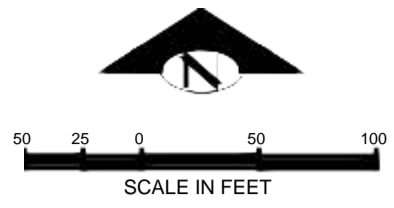
OWNER: TATOOSH WATER COMPANY
14263 CALHOUND ROAD
MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION

NOTES

PROJ. MANAGER:	JT
DESIGNED BY:	SG
DRAWN BY:	RB
CHECKED BY:	JT
SCALE:	AS SHOWN
DATE:	6/19/2018
REV:	A
SHEET:	9

SHEET NUMBER
C02



PLAN
SCALE: 1"=50'

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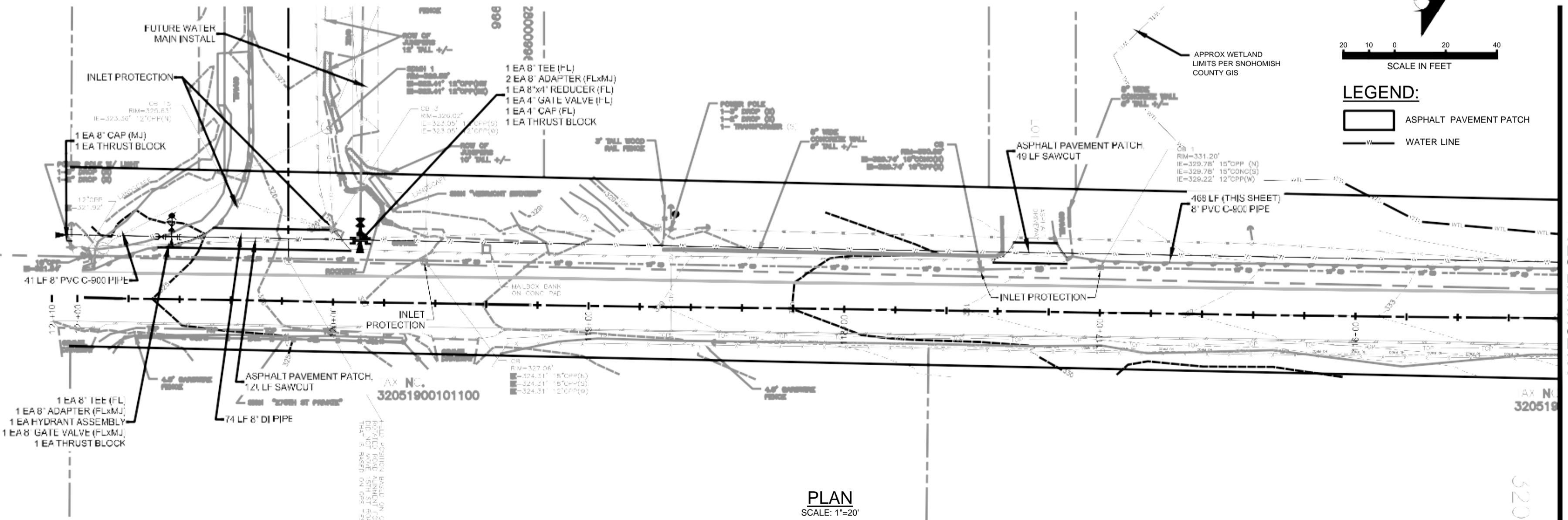
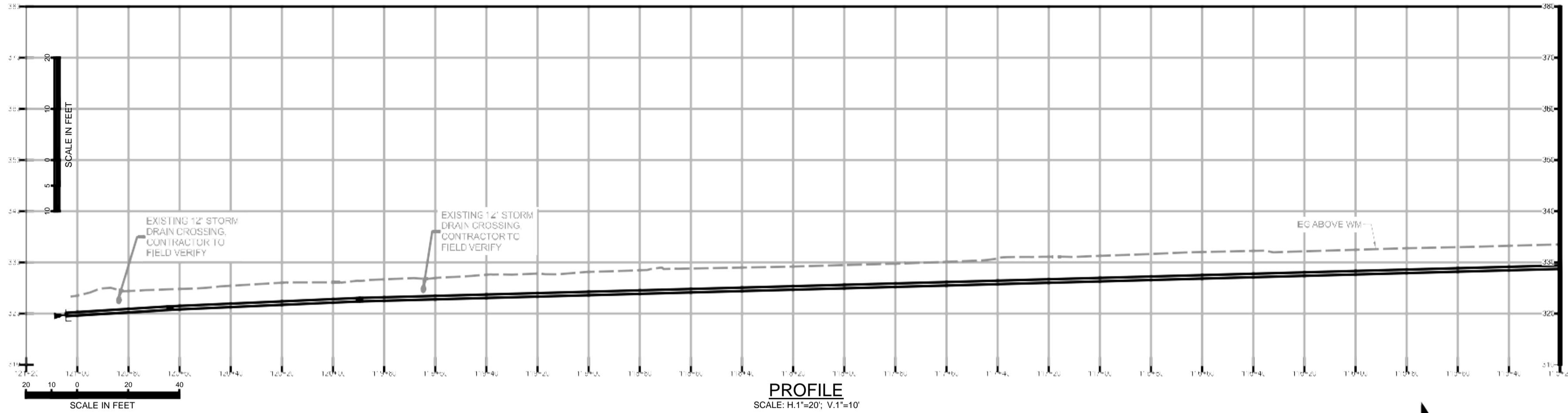
OWNER: TATOOSH WATER COMPANY
14263 CALHOUND ROAD
MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION
STREAM CROSSING PLAN VIEW

PROJ. MANAGER:	JT
DESIGNED BY:	SG
DRAWN BY:	RB
CHECKED BY:	JT
SCALE:	AS SHOWN
DATE:	6/19/2018
REV:	A
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SHEET NUMBER
C03

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MATCHLINE STA 115+20
SHEET C05

MATCHLINE STA 115+20
SHEET C05

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OWNER: TATOOSH WATER COMPANY
14263 CALHOUN ROAD MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION
PLAN & PROFILE - 15TH AVE

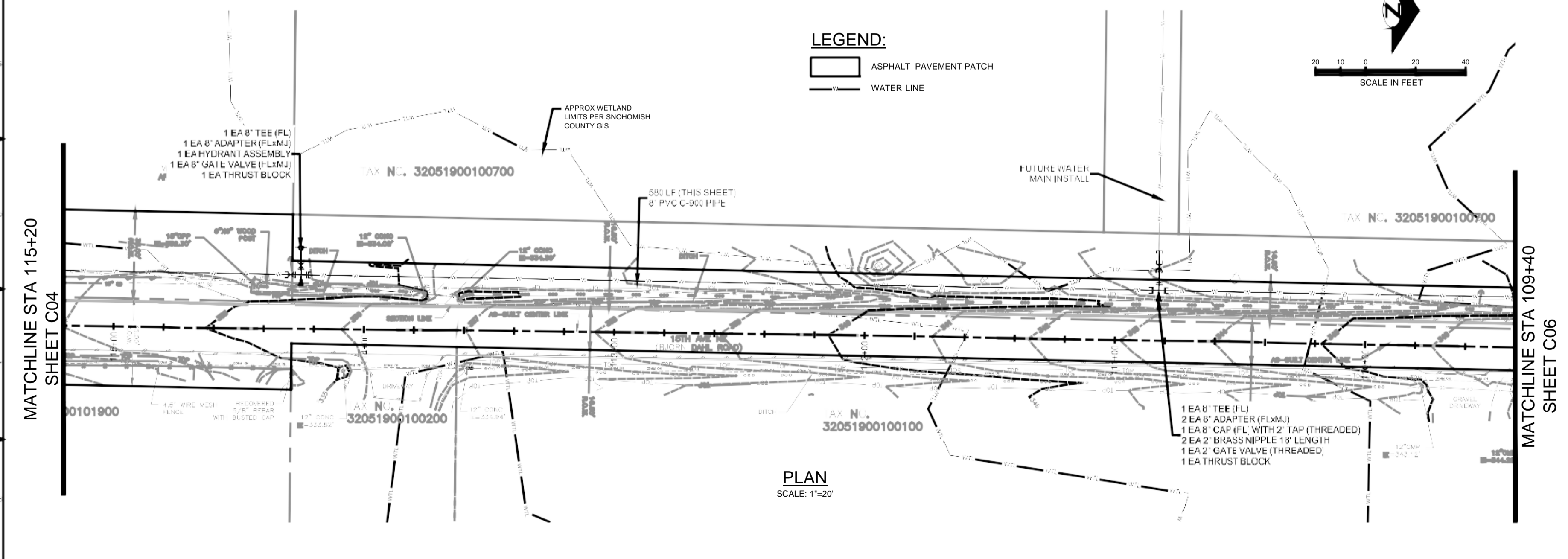
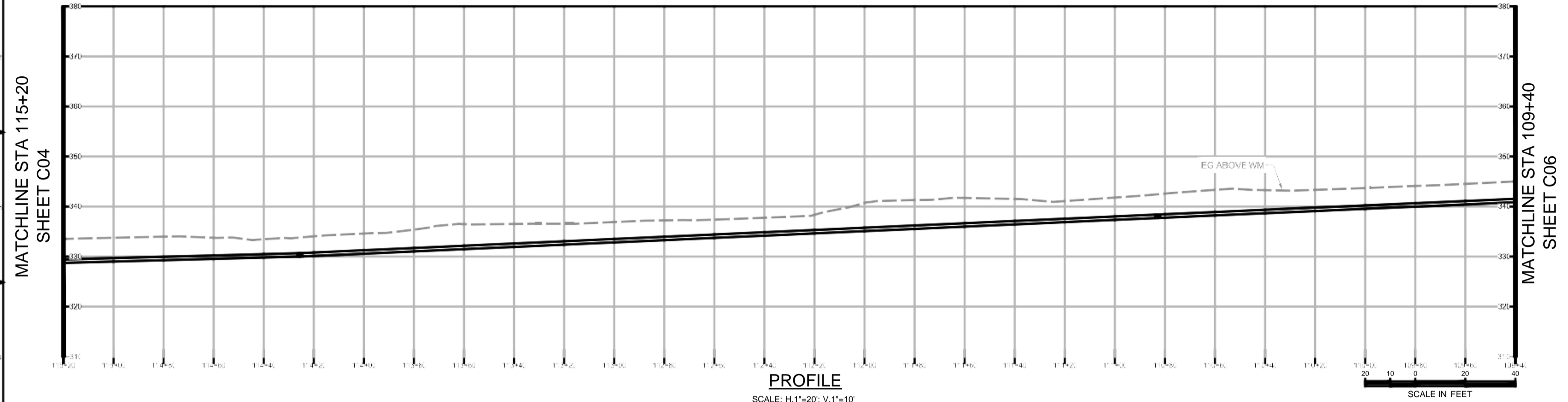
PROJ. MANAGER: JT
DESIGNED BY: SG
DRAWN BY: RB
CHECKED BY: JT

DATE	REV	SHEET
6/19/2018	A	9

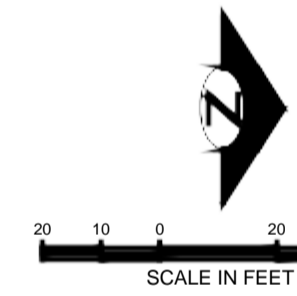
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C04

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- LEGEND:**
- ASPHALT PAVEMENT PATCH
 - WATER LINE

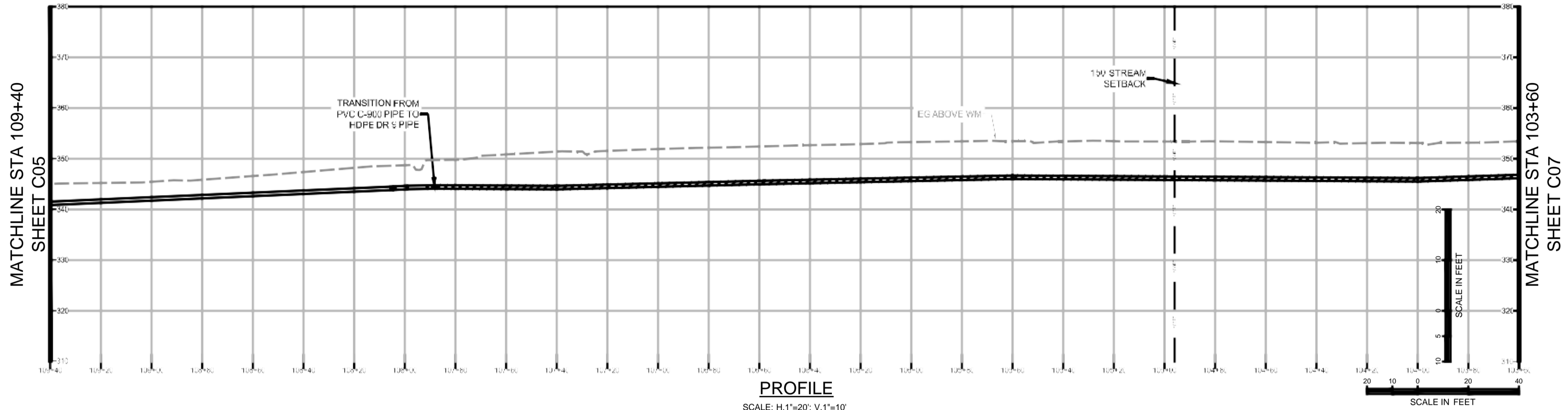


MATCHLINE STA 115+20
SHEET C04

MATCHLINE STA 109+40
SHEET C06

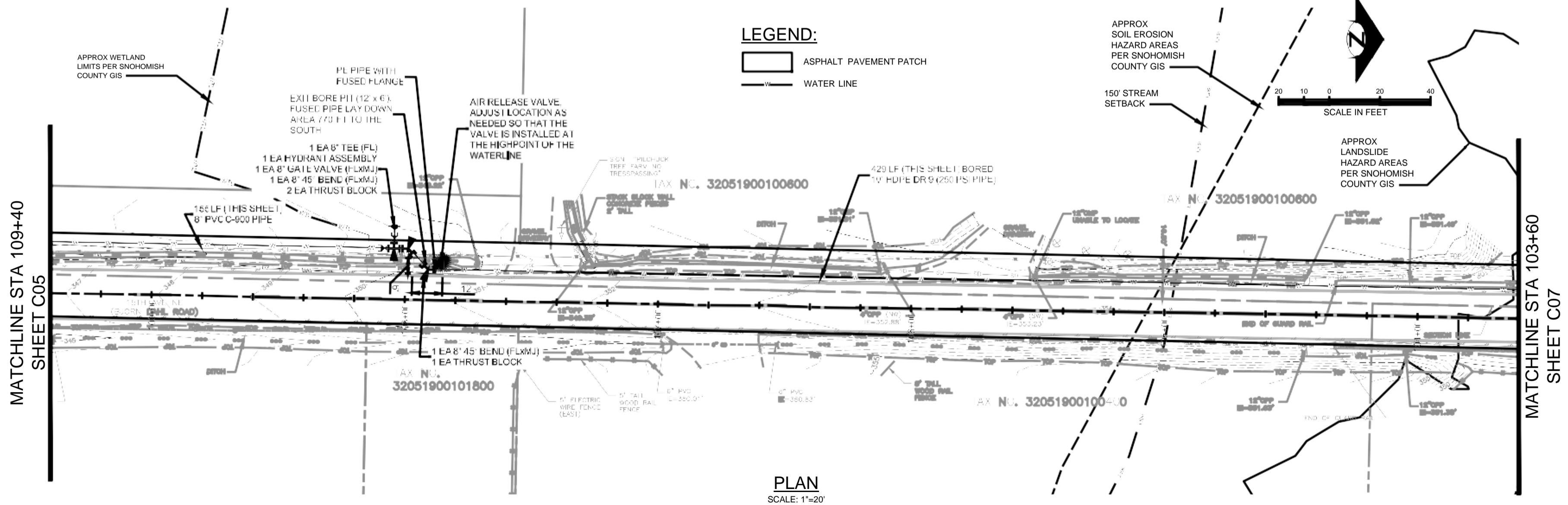
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OWNER: TATOOSH WATER COMPANY 14263 CALHOUN ROAD MOUNT VERNON, WA 98273	PROJECT: TATOOSH WATER 15TH AVE NE WATER MAIN EXTENSION PLAN & PROFILE - 15TH AVE
PROJ. MANAGER: JT DESIGNED BY: SG DRAWN BY: RB CHECKED BY: JT	SCALE: AS SHOWN DATE: 6/19/2018 REV: A SHEET: 9 OF: 9
C05	

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER\EXTENSION\DRAWING\TATOOSH_WM\EXTENSION\DWG\ASB\TATOOSH_WM_EXTENSION - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00) INCHES/AUTOCAD VERSION: CIVIL 3D 2015



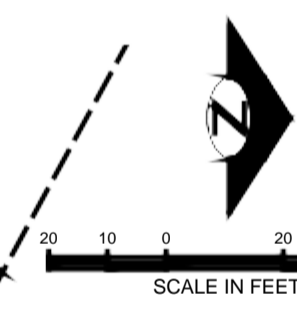
PROFILE

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



LEGEND:

- ASPHALT PAVEMENT PATCH
- WATER LINE



PLAN

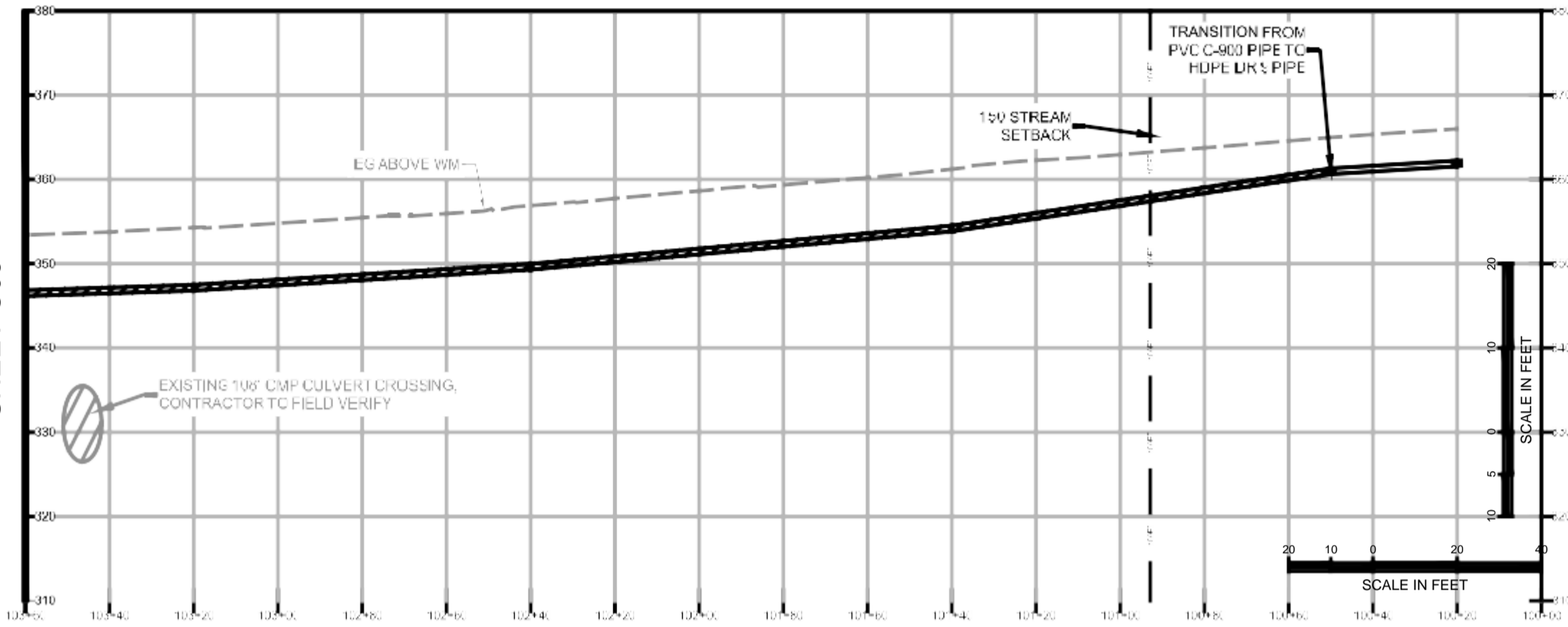
SCALE: 1"=20'

	CALL 811 2 BUSINESS DAYS BEFORE YOU DIG		TATOOSH WATER COMPANY 14263 CALHOUND ROAD MOUNT VERNON, WA 98273 TATOOSH WATER 15TH AVE NE WATER MAIN EXTENSION PLAN & PROFILE - 15TH AVE
2210 Riverside Suite 210 Mount Vernon WA P: 360.899.1110 F: 360.331.5131 www.dcgengr.com	LEED ACCREDITED PROFESSIONAL & THE RELATED WORKS ACCREDITED BY THE U.S. GREEN BUILDING COUNCIL & ARE AWARDED TO INDIVIDUALS UNDER LICENSE BY THE GREEN BUILDING CERTIFICATION INSTITUTE.	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 ANY DISCREPANCIES ARE NOTED PRIOR TO CONSTRUCTION, CONTACT DCG PRIOR TO CONSTRUCTION.	OWNER: PROJECT: PROJ. MANAGER: JT DESIGNED BY: SG DRAWN BY: RB CHECKED BY: JT SCALE: AS SHOWN DATE: 6/19/2018 SHEET NO. OF 10 SHEET NUMBER C06

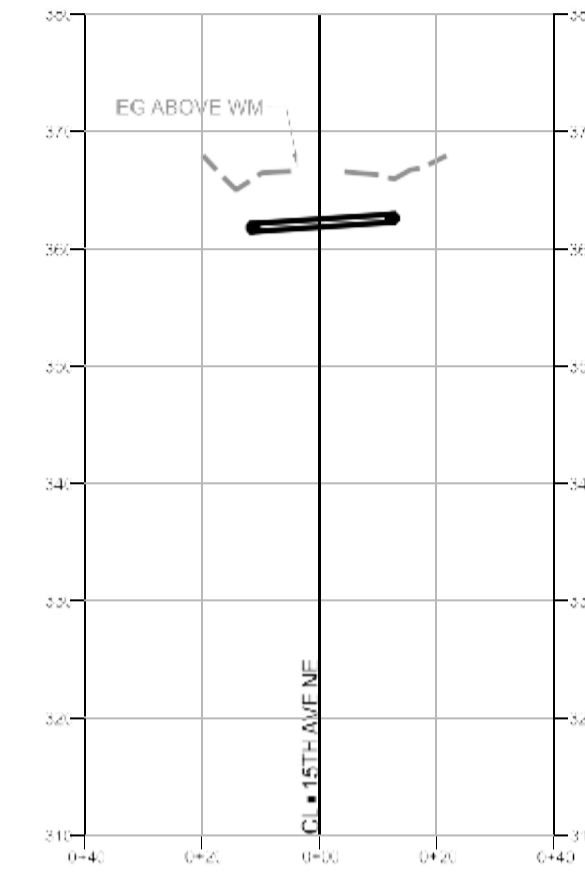
CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER\EXTENSION\DRAWING\TATOOSH_WM_EXTENSION.DWG LAST MODIFIED BY: GREG - SAVE DATE: 6/19/2018 11:11 AM - SHEET SET: TATOOSH WM EXTENSION - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00) INCHES/AUTOCAD VERSION: CIVIL 3D 2015

MATCHLINE STA 103+60
SHEET C06

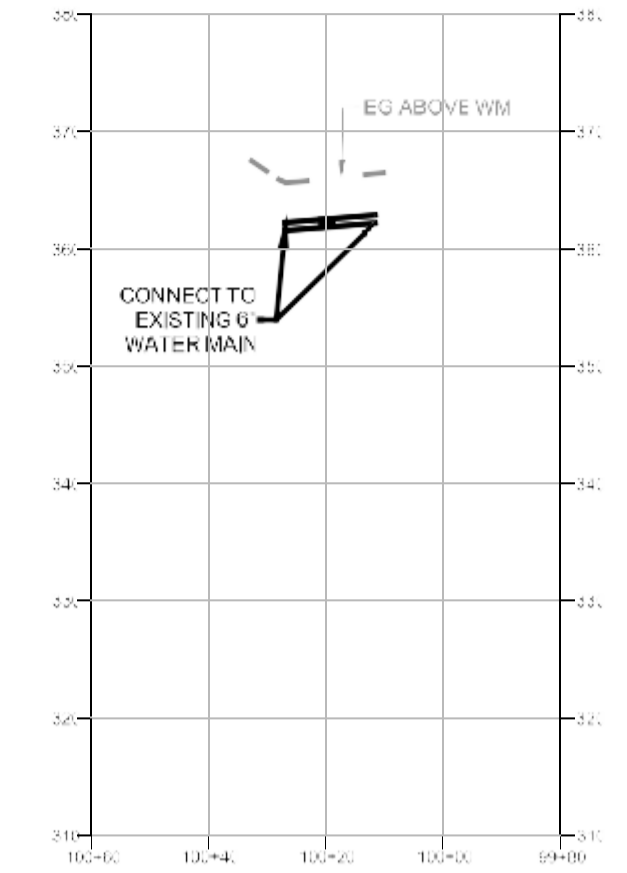
MATCHLINE STA 103+60
SHEET C06



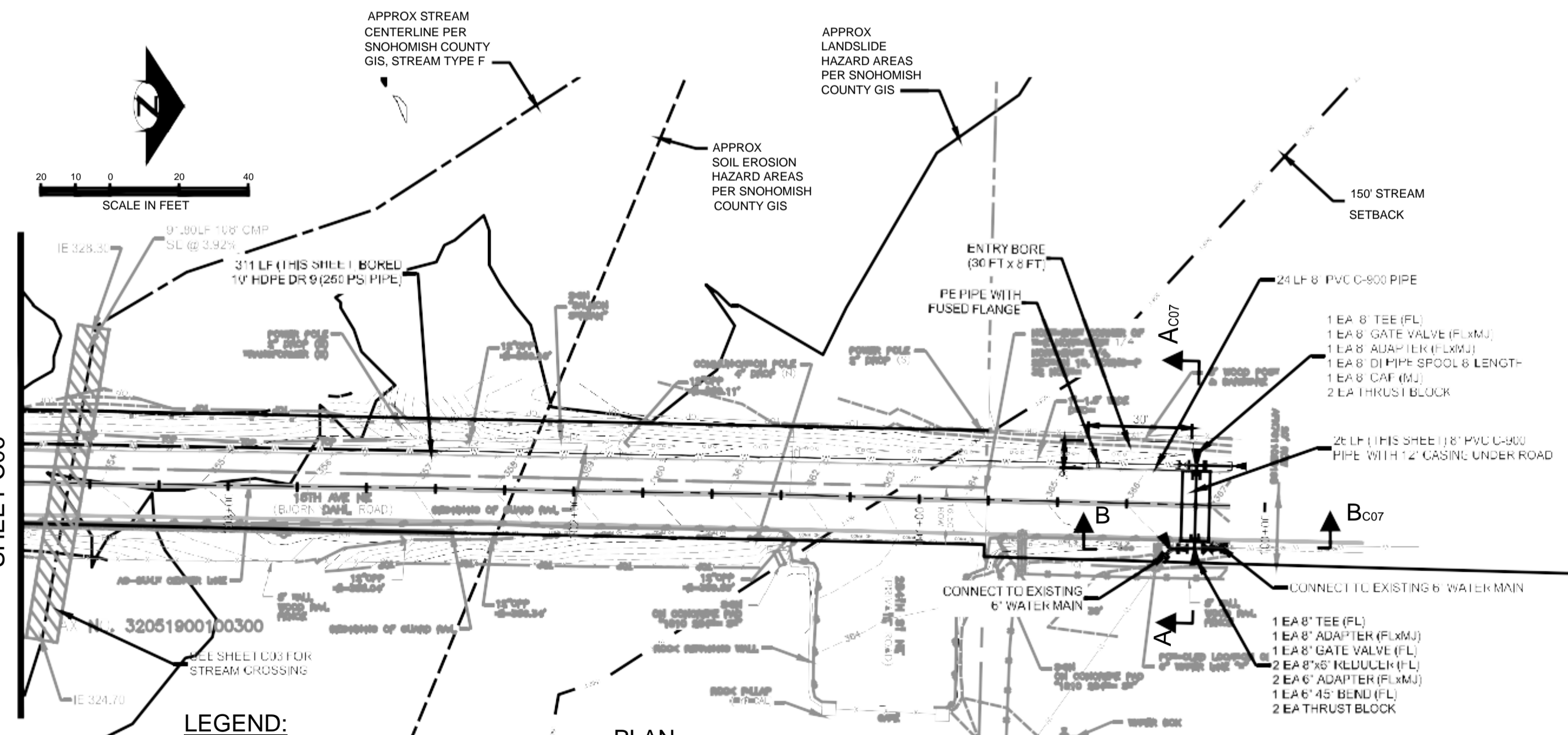
PROFILE
SCALE: H.1"=20'; V.1"=10'



SECTION A-A_{C07}
SCALE: H.1"=20'; V.1"=10'



SECTION B-B_{C07}
SCALE: H.1"=20'; V.1"=10'



- LEGEND:**
- ASPHALT PAVEMENT PATCH
 - WATER LINE

PLAN
SCALE: 1"=20'

No.	DATE	BY	REVISION

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Vernon WA
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F: 360.331.5131
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2 BUSINESS DAYS
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OWNER: TATOOSH WATER COMPANY
14263 CALHOUN ROAD MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION
PLAN & PROFILE - 15TH AVE

PROJ. MANAGER: JT
DESIGNED BY: SG
DRAWN BY: RB
CHECKED BY: JT
SCALE: AS SHOWN
DATE: 6/19/2018 REV. OF SHEET

SHEET NUMBER
C07

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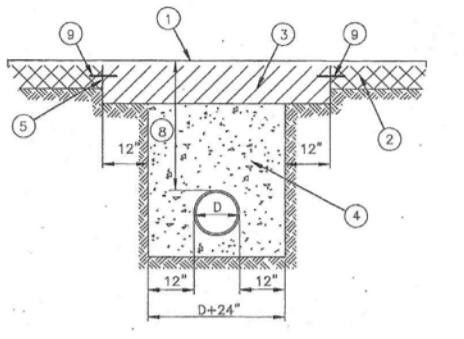
ASPHALT OR CONCRETE PAVEMENT:

- LONGITUDINAL TRENCH - 2" ASPHALT CLASS B OVERLAY. TRANSVERSE TRENCH - 2" ASPHALT CLASS B OVERLAY WHERE MULTIPLE CROSSINGS BY SAME UTILITY.
- EXISTING PAVEMENT.
- LONGITUDINAL TRENCH - 6" ACP OR 2" ACP + 4" ATB. TRANSVERSE TRENCH - 8" ACP OR 2" ACP + 6" ATB. IF CONCRETE, RESTORATION SHALL BE IN ACCORDANCE WITH SECTION 5-05 OF THE WSDOT/APWA SPECIFICATIONS.
- NATIVE MATERIAL, BANK RUN GRAVEL, CSTC OR CONTROL DENSITY FILL MAY BE REQUIRED BY THE ENGINEER.
- HEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER CSS-1 & SEAL WITH HOT ASPHALT CEMENT.
- TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLD MIX, ATB, OR STEEL PLATES.
- PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WSDOT/APWA SPECIFICATIONS.
- COVER DEPTH OVER UNDERGROUND UTILITIES SHALL CONFORM TO FEDERAL AND STATE REGULATIONS.
- TRENCHES IN CONCRETE PAVEMENT SHALL BE RESTORED USING THE BARS OR DOWEL BARS IN ACCORDANCE WITH SECTION 5-05 OF THE WSDOT/APWA SPECIFICATIONS.

SEE TEXT SECTIONS 8-02, 8-04, 8-05.

PERMEABLE PAVEMENT:

- TRENCHES IN PERMEABLE PAVEMENT SHALL BE RESTORED WITH THE SAME PERMEABLE PAVEMENT AND CROSS-SECTION, UNLESS APPROVED OTHERWISE BY THE ENGINEER.

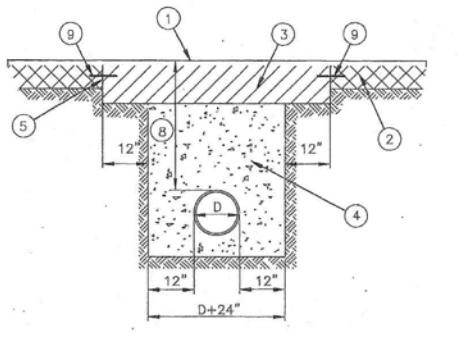


NOHOMISH COUNTY PUBLIC WORKS
8-030 UTILITY TRENCH RESTORATION AND BACKFILL

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 11/16

GENERAL R/W USE RESTORATION REQUIREMENTS

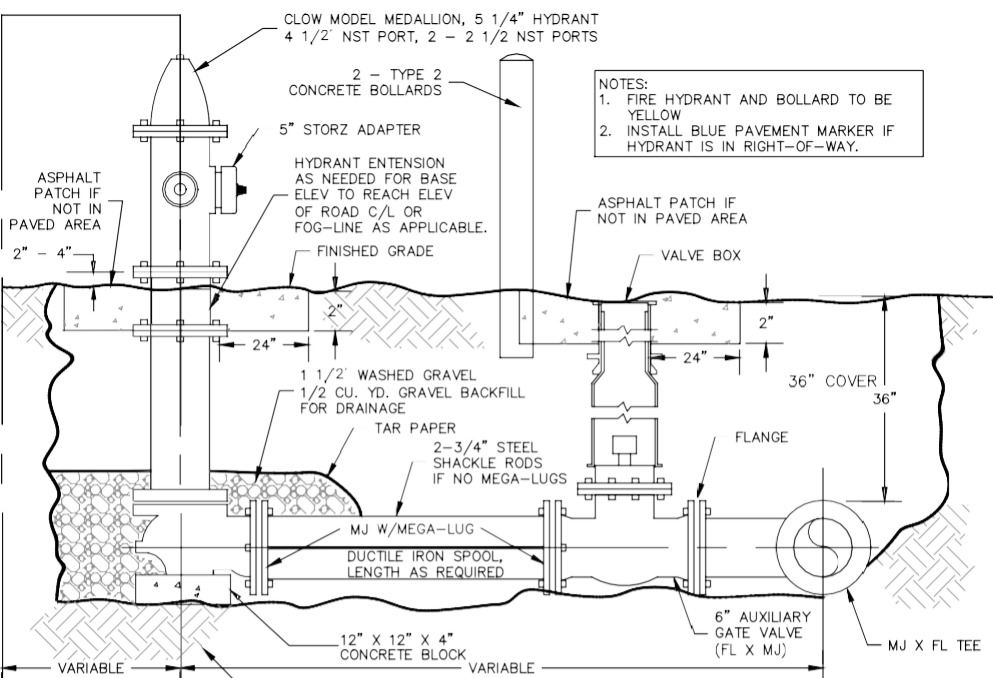
- AT THE ENGINEER'S DISCRETION, PRIOR TO COMMENCING ANY CONSTRUCTION, PHOTOGRAPHS DEPICTING PRE-EXISTING ROADWAY CONDITIONS WILL BE REQUIRED EVERY 50 FEET IN PAVED AREAS OR ANY OTHER LOCATION AS SPECIFIED BY THE ENGINEER.
- SIGNING, FLAGGING AND TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE STANDARDS, THE WSDOT TRAFFIC MANUAL AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ONE LANE OF TRAFFIC SHALL REMAIN OPEN AT ALL TIMES, ATTENDED BY FLAGMEN AND APPROPRIATE CONSTRUCTION SIGNING PROVIDED. THE ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE END OF EACH WORKING DAY. APPLICATIONS FOR TOTAL ROAD CLOSURES MUST BE FILED WITH SNOHOMISH COUNTY PUBLIC WORKS AT LEAST 5 DAYS PRIOR TO THE ANTICIPATED CLOSURE.
- EXISTING DRAINAGE DITCHES, CULVERTS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES. TEMPORARY DIVERSION OF ANY DRAINAGE SYSTEM WILL NOT BE PERMITTED WITHOUT THE CONSENT OF THE ENGINEER. ANY DRAINAGE CULVERT, CATCHBASIN, MANHOLE OR OTHER DRAINAGE STRUCTURE DISTURBED BY EXCAVATION SHALL BE REPLACED WITH NEW MATERIAL OR REPAIRED TO THE SATISFACTION OF THE ENGINEER. TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE EMPLOYED TO PROTECT ADJACENT PROPERTY AND STORM DRAINAGE FACILITIES.
- GRAVEL SHOULDERS DISTURBED BY EXCAVATION SHALL BE SHAPED TO COUNTY STANDARDS AND PROVIDED WITH A MINIMUM OF 6 INCHES COMPACTED CRUSHED SURFACING TOP COURSE.
- IF IN THE OPINION OF THE ENGINEER, WEATHER CONDITIONS DEGRADATE TO THE POINT WHERE THE TRAVELED ROADWAYS ARE UNSAFE FOR THE PUBLIC OR DETRIMENTAL TO THE RESTORATION OF THE ROADWAY, EXCAVATION SHALL CEASE IMMEDIATELY AND CLEANUP SHALL BE PROMPTLY ACCOMPLISHED.
- ALL PIPE OR OTHER MATERIAL STORED ALONG COUNTY RIGHT-OF-WAY MUST BE PLACED AT A SAFE DISTANCE FROM THE TRAVELED ROADWAY IN SUCH A MANNER AS TO AVOID FALLING ONTO THE ROADWAY.
- NO EXCESS OR UNSUITABLE MATERIAL SHALL BE WASTED ON COUNTY RIGHT-OF-WAY. ANY SUCH MATERIAL DUMPED ON PRIVATE PROPERTY MAY REQUIRE A GRADING PERMIT. VERIFICATION WITH SNOHOMISH COUNTY PLANNING & DEVELOPMENT SERVICES IS REQUIRED.
- STREET SURFACES SHALL BE CLEANED AT THE END OF EACH DAY'S OPERATION WITH A POWER BROOM OR OTHER APPROVED MEANS.
- NO OPEN CUT CROSSING OF COUNTY ROADS OR STREETS SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
- MAXIMUM AMOUNT OF OPEN TRENCH IN ROADS SHALL BE 400 LINEAL FEET. AT THE END OF EACH DAY, ALL DITCHES MUST BE BACKFILLED OR COVERED WITH STEEL PLATES AND BARRICADED WITH FLASHING WARNING LIGHTS TO PREVENT PEOPLE OR ANIMALS FROM FALLING INTO THE TRENCH.
- FINAL CLEANUP INCLUDING COMPLETE RESTORATION OF SHOULDERS, CLEANING OF DITCHES, CULVERTS AND CATCHBASINS, AND REMOVAL OF LOOSE MATERIAL FROM BACK SLOPES OF DITCHES SHALL NOT EXCEED 1500 L.F. BEHIND EXCAVATING OPERATIONS OR AS REQUIRED BY THE ENGINEER.



NOHOMISH COUNTY PUBLIC WORKS
8-040 GENERAL R/W RESTORATION REQUIREMENTS

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 2-10-08

FIRE HYDRANT ASSEMBLY



NOTES:
1. FIRE HYDRANT AND BOLLARD TO BE YELLOW
2. INSTALL BLUE PAVEMENT MARKER IF HYDRANT IS IN RIGHT-OF-WAY.

AREAS OF WET OR HIGHLY ORGANIC NATIVE SOILS WILL REQUIRE A MIN. 2 FT. DEEP COMPACTED FOUNDATION BED 3 FT. AROUND TOTAL ASSEMBLY. CONSULT PROJECT ENGINEER.

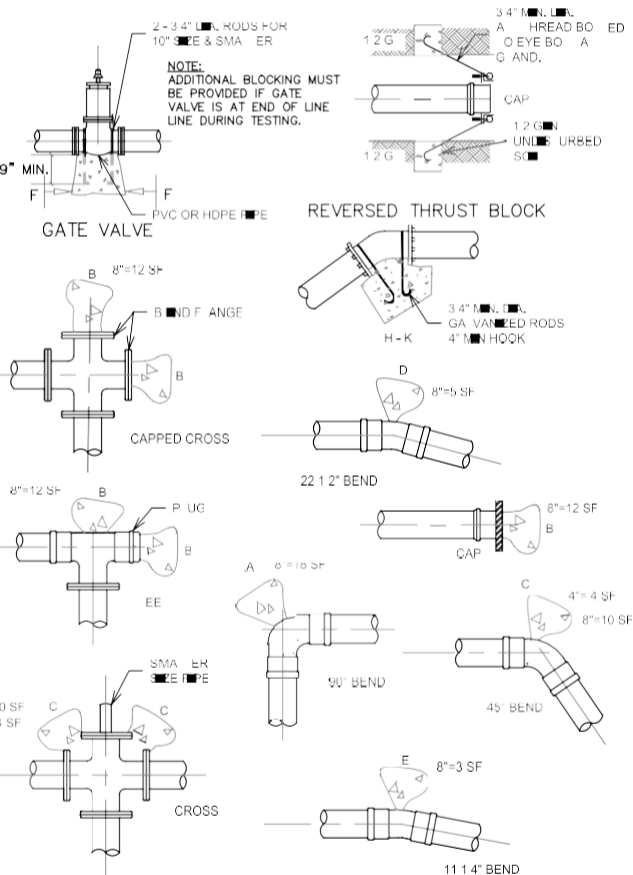
NOHOMISH COUNTY PUBLIC WORKS
8-040 GENERAL R/W RESTORATION REQUIREMENTS

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 2-10-08

UTILITY TRENCH RESTORATION & BACKFILL
NOHOMISH COUNTY PUBLIC WORKS STANDARD 8-030

NOTES:

- INSTALL WATERLINE MARKER/DETECTOR TAPE & LOCATOR WIRE 12" ABOVE TOP OF PIPE CASING.
- LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & HYDRANTS) SPLICES I WIRE, IF NEEDED SHALL BE MAKE WITH WATERPROOF SPLICE KITS.



WATER MAIN THRUST BLOCKING

2000 PSI CONCRETE THRUST BLOCK TABLE

REV.	VER	HRUS B	COCHING
4"	4	4	4
6"	13	7	6
8"	18	12	10
10"	24	22	14

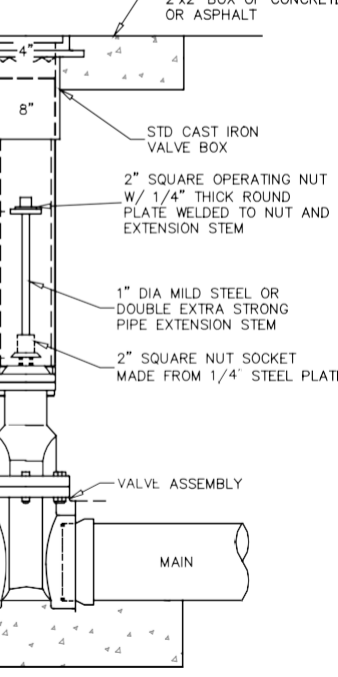
NOHOMISH COUNTY PUBLIC WORKS
8-030 UTILITY TRENCH RESTORATION AND BACKFILL

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 11/16


GENERAL R/W RESTORATION REQUIREMENTS
NOHOMISH COUNTY PUBLIC WORKS STANDARD 8-040

NOTES:

- INSTALL WATERLINE MARKER/DETECTOR TAPE & LOCATOR WIRE 12" ABOVE TOP OF PIPE CASING.
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WATER VALVE EXTENSION

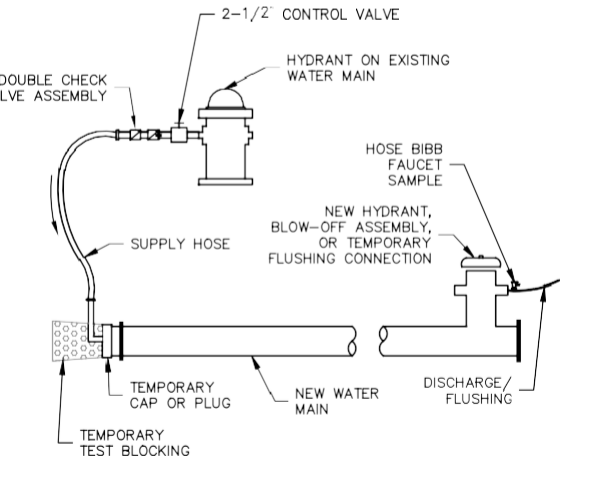


HYDRANT PROTECTION/ VALVE MARKER

NOHOMISH COUNTY PUBLIC WORKS
8-040 GENERAL R/W RESTORATION REQUIREMENTS

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 2-10-08

FIRE HYDRANT ASSEMBLY



MAIN FILLING

NOHOMISH COUNTY PUBLIC WORKS
8-040 GENERAL R/W RESTORATION REQUIREMENTS

APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE 2-10-08

REVISION

NO.	DATE	BY	REVISION

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DCG civil structural

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JEFFREY M. TATOSH
PROFESSIONAL ENGINEER
STATE OF WASHINGTON
#1424

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14263 CALHOUN ROAD
MOUNT VERNON, WA 98273

PROJECT: TATOOSH WATER
15TH AVE NE WATER MAIN EXTENSION

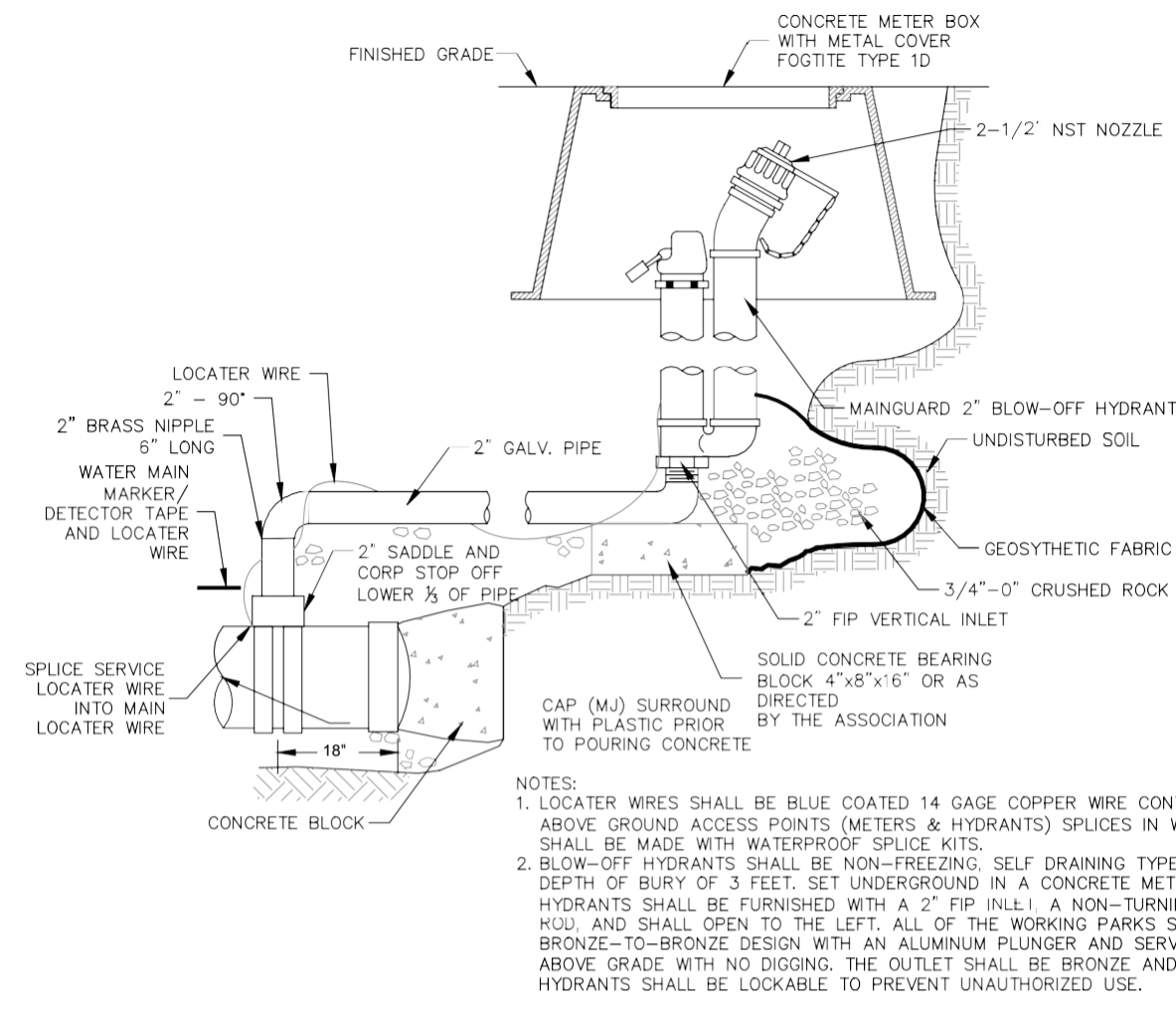
PROJ. MANAGER: JT
DESIGNED BY: SG
DRAWN BY: RB
CHECKED BY: JT

SCALE: AS SHOWN

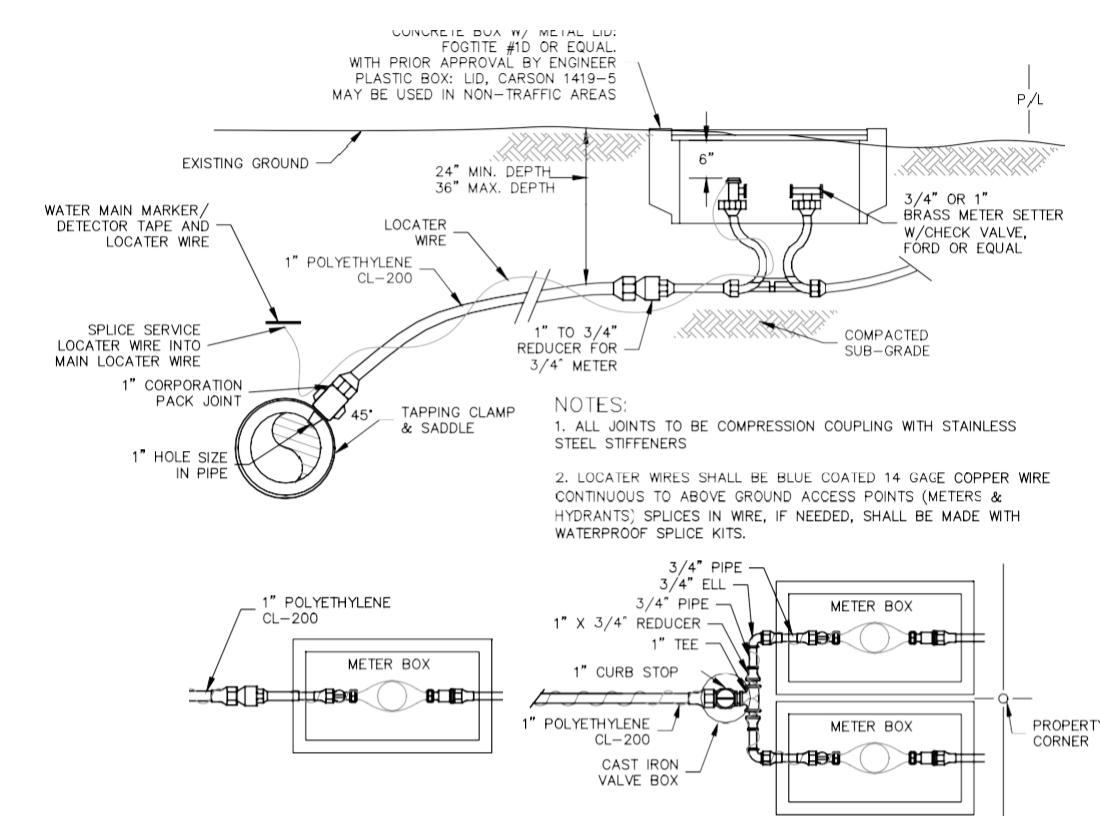
DATE: 6/19/2018
REV: A
SHEET: 9

SHEET NUMBER
C08

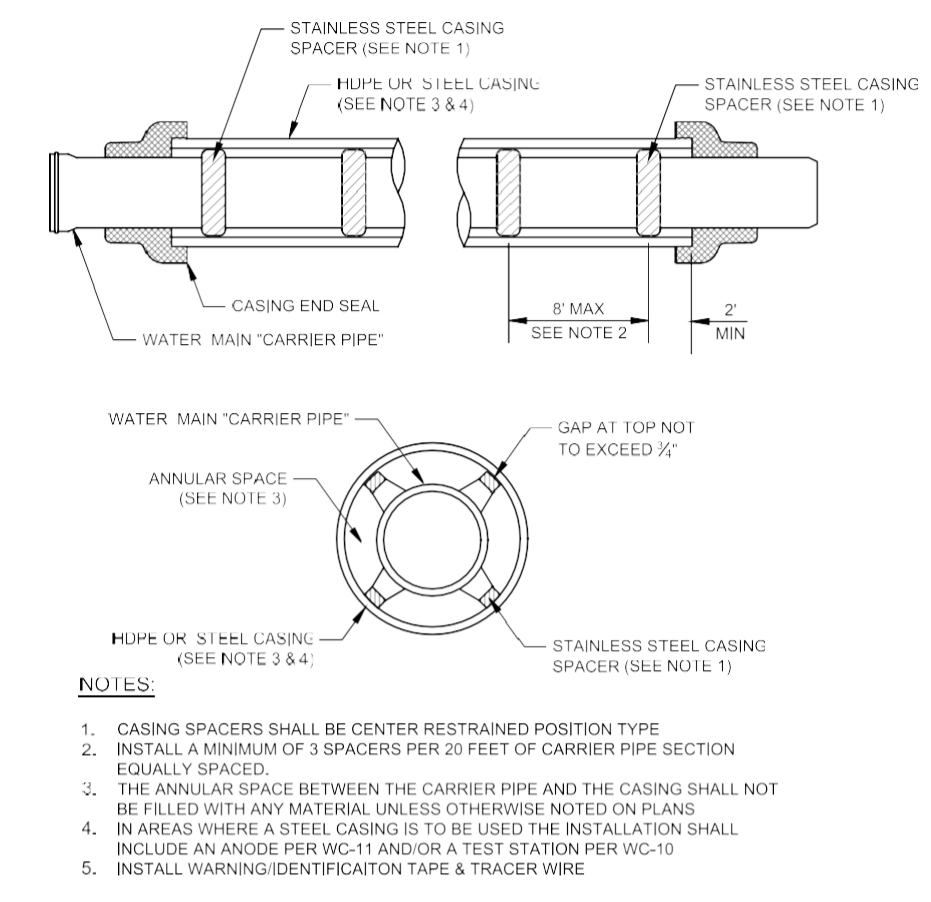
CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER\EXTENSION\DRAWING\TATOOSH_WMM_EXTENSION.DWG LAST MODIFIED BY: GREG - SAVE DATE: 6/19/2018 11:11 AM - SHEET SET: TATOOSH WMM EXTENSION - ORIGINAL SHEET SIZE: ARCH-FULL BLEED D (24.00 X 36.00 INCHES) AUTOCAD VERSION: CIVIL 3D 2015



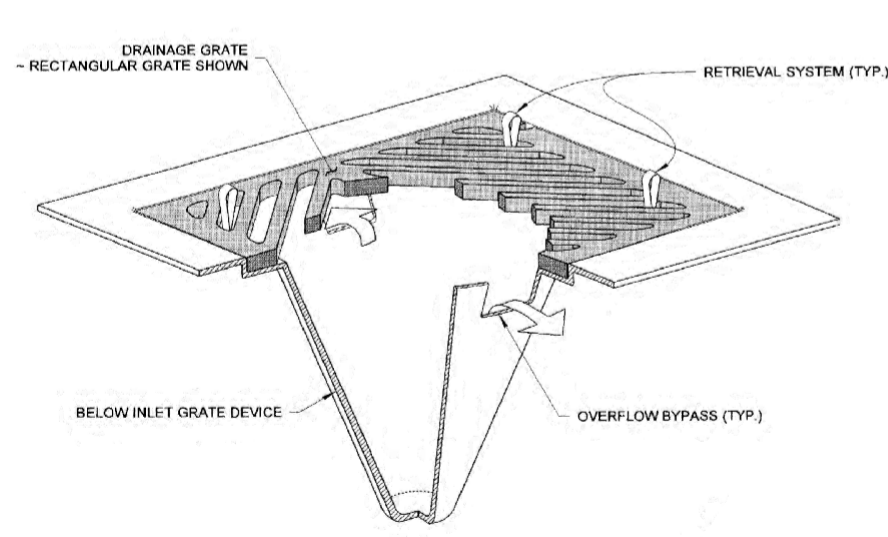
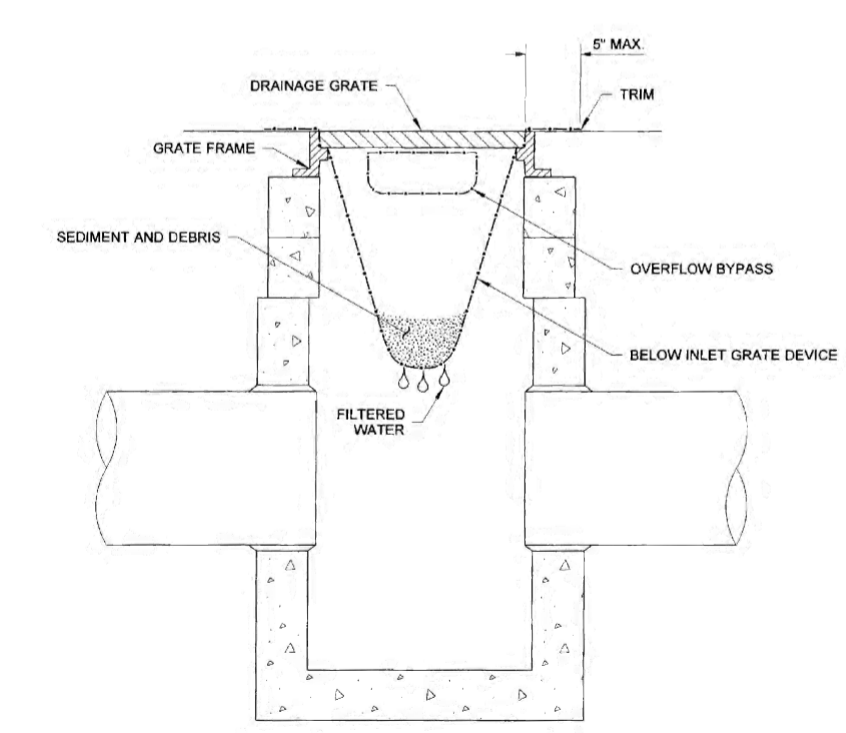
BLOW OFF ASSEMBLY 8
NTS VARIES



WATER METER 9
NTS VARIES



PIPE CASING INSTALLATION 10
NTS VARIES



CATCH BASIN INLET PROTECTION 11
NTS VARIES

- NOTES:**
- LOCATER WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS ABOVE GROUND ACCESS POINTS (METERS & HYDRANTS) SPLICES IN WIRE SHALL BE MADE WITH WATERPROOF SPLICE KITS.
 - BLOW-OFF HYDRANTS SHALL BE NON-FREEZING, SELF DRAINING TYPE WITH DEPTH OF BURY OF 3 FEET. SET UNDERGROUND IN A CONCRETE METER BOX. HYDRANTS SHALL BE FURNISHED WITH A 2" FIP INLET, A NON-TURNING ROD, AND SHALL OPEN TO THE LEFT. ALL OF THE WORKING PARTS SHALL BE BRONZE-TO-BRONZE DESIGN WITH AN ALUMINUM PLUNGER AND SERVICE ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL BE BRONZE AND BE LOCKABLE TO PREVENT UNAUTHORIZED USE.

- NOTES:**
- ALL JOINTS TO BE COMPRESSION COUPLING WITH STAINLESS STEEL STIFFENERS
 - LOCATER WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & HYDRANTS) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.

- NOTES:**
- CASING SPACERS SHALL BE CENTER RESTRAINED POSITION TYPE
 - INSTALL A MINIMUM OF 3 SPACERS PER 20 FEET OF CARRIER PIPE SECTION EQUALLY SPACED.
 - THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND THE CASING SHALL NOT BE FILLED WITH ANY MATERIAL UNLESS OTHERWISE NOTED ON PLANS
 - IN AREAS WHERE A STEEL CASING IS TO BE USED THE INSTALLATION SHALL INCLUDE AN ANODE PER WC-11 AND/OR A TEST STATION PER WC-10
 - INSTALL WARNING/IDENTIFICATION TAPE & TRACER WIRE

- NOTES:**
- Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
 - The BIGD shall have a built-in high-flow relief system (overflow bypass).
 - The retrieval system must allow removal of the BIGD without spilling the collected material.
 - Perform maintenance in accordance with Standard Specification 8-01.3(15).

CAD FILE NUMBER: P:\CLIENTS\WATER\TATOOSH\DEVELOPER\EXTENSION\DRAWING\TATOOSH_WM_EXTENSION.DWG LAST MODIFIED BY: GREG - SAVE DATE: 6/19/2018 11:11 AM - SHEET SET: TATOOSH WM EXTENSION - ORIGINAL SHEET SIZE: ARCH-FULL BLEED D (24.00 X 36.00) INCHES/AUTOCAD VERSION: CIVIL 3D 2015

REVISION	BY	DATE	NO.

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JEFFREY M. TASOFF
Professional Engineer
No. 41224

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15TH AVE NE WATER MAIN EXTENSION
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PROJ. MANAGER: JT
DESIGNED BY: SG
DRAWN BY: RB
CHECKED BY: JT

SCALE: AS SHOWN

DATE: 6/19/2018 REV: A SHEET: 9 OF 9

SHEET NUMBER: C09