

ATWELL

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP LUCAS ZIROTTI DESIGNER: LEE M. TOMKINS

9/8/2023

9/8/23

JOB NUMBER: 21-073 SHEET NAME: **CV-D** 1

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GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF MUKILTEO DEVELOPMENT STANDARDS; THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION; AND THE ADOPTED EDITION OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
- 2. ALL WORK WITHIN THE PLAT AND CITY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE CITY.
- 3. PRIOR TO ANY SITE CONSTRUCTION INCLUDING CLEARING/LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR (OR PROJECT ENGINEER) AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS DARREN RIDDLE (425) 512-7099.
- 4. THE DEVELOPER, CONTRACTOR AND PROJECT ENGINEER SHALL BE RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER IS KRISTAL KEATING, PE (425) 216-4051.
- 5. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF MUKILTEO COMMUNITY DEVELOPMENT DEPARTMENT AT 425—263—8000 TO SCHEDULE A PRECONSTRUCTION
- 6. ENGINEERED AS—BUILT DRAWINGS IN ACCORDANCE WITH THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE SHALL BE REQUIRED PRIOR TO FINAL SITE APPROVAL.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR UTILITY, ROAD, AND RIGHT-OF- WAY CONSTRUCTION. THE CONTRACTOR FOR THIS PROJECT IS

MOBILE

24-HOUR EMERGENCY CONTACT AND PHONE:

- 8. THE CONSTRUCTION STORMWATER POLLUTION PREVENTION (SWPP) FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED SWPPP PLANS PRIOR TO ANY GRADING OR LAND CLEARING. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. SEDIMENT LADEN WATERS SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEM.
- 9. A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) OR SWPPP SUPERVISOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SWPP FACILITIES, AS OUTLINED IN THE APPROVED SWPPP, OR AS MODIFIED FROM TIME TO TIME. CONTACT INFORMATION FOR THE CESCL (OR SWPPP SUPERVISOR) FOR THE PROJECT SHALL BE GIVEN TO THE CITY PRIOR TO THE
- 10. NONCOMPLIANCE WITH THE REQUIREMENTS FOR EROSION CONTROLS, WATER QUALITY AND CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL, AND BOND FORECLOSURES.
- 11. REFER TO THE GEOTECHNICAL ENGINEERING STUDY PREPARED BY EARTH SOLUTIONS NW LLC DATED JULY 28, 2022 FOR STRUCTURAL FILL SPECIFICATIONS.
- 12. TRENCH BACKFILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS. COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 7-08.3(3) AND 2-03.3(14) D OF THE WSDOT STANDARD SPECIFICATIONS.
- 13. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. LOCATION OF UTILITIES SHOWN ON CONSTRUCTION PLANS ARE BASED ON BEST RECORDS AVAILABLE AND ARE SUBJECT TO VARIATION. FOR ASSISTANCE IN UTILITY LOCATION, CALL 811.
- 14. PRIOR TO CONSTRUCTION THE OWNER AND/OR CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE PUBLIC WORKS DIRECTOR WHEN CONFLICTS EXIST BETWEEN THE PLANS AND FIELD CONDITIONS. CONFLICTS SHALL BE RESOLVED (INCLUDING PLAN AND PROFILE REVISIONS) AND RESUBMITTED FOR APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 15. THE CONTRACTOR SHALL KEEP TWO SETS OF PLANS ON SITE AT ALL TIMES FOR RECORDING AS—BUILT INFORMATION; ONE SET SHALL BE SUBMITTED TO THE PROJECT ENGINEER, AND ONE SET SHALL BE SUBMITTED TO THE CITY AT COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF WORK.
- 16. A GRADING PERMIT ISSUED PURSUANT TO THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE, AND APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO ANY ON-SITE GRADING WORK NOT EXPRESSLY EXEMPT BY THE CURRENT ADOPTED INTERNATIONAL BUILDING

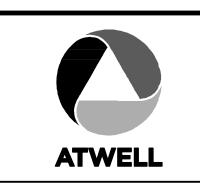
STORM DRAINAGE GENERAL NOTES

- 1. ALL PIPE SHALL BE PLACED ACCORDING DIVISION Y OF THE WSDOT STANDARD SPECIFICATIONS.
- 2. BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE—ARCH IN 6" AVERAGE DEPTH LOOSE LIFTS. MAXIMUM LIFT DEPTH SHALL NOT EXCEED 9". EACH LIFT SHALL BE THOROUGHLY COMPACTED. COMPACTED LIFTS MUST EXTEND AT LEAST ONE PIPE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. BACKFILL OVER THE PIPE SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 7-08.3(3) THE WSDOT STANDARD SPECIFICATIONS.
- 3. ALL GRATES LOCATED IN THE GUTTER FLOW LINE (INLET AND CATCH BASIN) SHALL BE DEPRESSED O.I FEET BELOW PAVEMENT LEVEL.
- 4. ALL CATCH BASINS ARE TO BE TYPE I UNLESS OTHERWISE APPROVED BY THE CITY OR DESIGNATED REPRESENTATIVE. THE USE AND INSTALLATION OF INLETS IS NOT ALLOWED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET AND CATCH BASIN FRAMES AND GRATES TO GRADE JUST PRIOR TO CURB INSTALLATION AND/OR PAVING.
- 6. ALL CATCH BASINS WITH A DEPTH OF S FEET OR GREATER TO THE FLOW LINE SHALL BE TYPE II CATCH BASINS.
- 7. VANED GRATES ARE REQUIRED ON ALL STORM STRUCTURES. ALL CATCH BASINS AND MANHOLES SHALL HAVE LOCKING LIDS. ROLLED GRATES ARE NOT APPROVED FOR USE.
- 8. POLYPROPYLENE SAFETY STEPS AND LADDER STEPS SHALL BE PROVIDED IN ALL MANHOLES AND SHALL BE POSITIONED CORRECTLY WITH THE BOLT AREAS ON THE RIM.
- CATCH BASIN FRAMES AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL SM60, SMS+, OR SM 44. LOCKING TYPE OR EQUIVALENT. MODEL SM52 SHALL BE REFERRED TO AS A "THROUGH CURB INLET" ON THE PLANS.
- 10. DETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 OR WITH A MAXIMUM WATER DEPTH GREATER THAN 3 FEET SHALL REQUIRE A VINYL COATED CHAIN LINK PERIMETER FENCE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED. ALL INLET AND OUTFALL PIPES SHALL HAVE A TRASH RACK INSTALLED AND A MORTARED RIPRAP HEADWALL.
- 11. PRIOR TO SIDEWALK CONSTRUCTION; LOT DRAINAGE SYSTEMS, STUB-OUTS AND ANY BEHIND SIDEWALK DRAINS MUST BE INSTALLED AS REQUIRED. PIPE SHALL BE PVC 3 34. OR SDR-3S STUB-OUTS SHALL BE MARKED WITH A 2"X 4" WITH 3 FEET VISIBLE ABOVE GRADE AND MARKED "STORM". LOCATIONS OF THESE INSTALLATIONS SHALL BE SHOWN ON THE AS-BUILT
- CONSTRUCTION PLANS SUBMITTED TO THE CITY. 12. STORM WATER RETENTION/DETENTION FACILITIES, STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED BY THE DEVELOPER PRIOR TO:
- a. CITY OF MUKILTEO FINAL ACCEPTANCE OF THE PROJECT AND: b. UPON COMMENCEMENT AND COMPLETION OF THE 2 YEAR WARRANTY PERIOD FOR THE STORM DRAINAGE SYSTEM. AN INVOICE DETAILING THE FLUSHING AND CLEANING SHALL BE
- 13. ALL PIPES SHALL BE INSTALLED WITH RUBBER GASKETS AS PER MANUFACTURER'S RECOMMENDATIONS.
- 14. CORRUGATED POLYETHYLENE PIPE (CPP):
 - a. ALL PIPE SHALL BE SMOOTH INTERIOR. CPP SHALL BE DOUBLE-WALLED. ALL PIPE SHALL MEET AASHTO AND ASTM SPECIFICATIONS.
 - b. UPON REQUEST BY THE CITY INSPECTOR, ALL PIPE RUNS SHALL PASS THE LOW PRESSURE AIR TEST REQUIREMENTS OF SECTION 7—04.3(1) E & F OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. PIPE RUNS SHALL BE TESTED WITH PIPE LOADED AND COMPACTED TO FINISH GRADE.
 - UPON REQUEST BY THE CITY INSPECTOR, PIPE SHALL BE SUBJECT TO MANDREL TESTING (MANDREL SIZE = 90% OF NOMINAL PIPE DIAMETER). d. PIPE SHALL BE STORED ON SITE IN SHIPPING BUNKS ON A FLAT LEVEL SURFACE. THIS REQUIREMENT WILL BE STRICTLY ENFORCED; FAILURE TO COMPLY MAY RESULT IN REJECTION OF
 - THE PIPE AND/OR FUTURE RESTRICTION ON USE OF MATERIAL. MINIMUM DEPTH OF COVER SHALL BE 2 FEET. COUPLINGS SHALL BE INTEGRAL BELL AND SPIGOT OR DOUBLE BELL SEPARATE COUPLINGS. SPLIT COUPLINGS WILL NOT BE ALLOWED.
 - g. BACKFILL SHALL COMPLY WITH SECTION Y-08.3(3) OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION WITH THE EXCEPTION THAT THE SECOND PARAGRAPH OF SECTION 7-08.3(3) IS DELETED AND REPLACED WITH:
 - THE MATERIAL USED FOR BACKFILLING AROUND AND TO A POINT I FOOT ABOVE THE TOP OF THE PIPE SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY. ANY GRAVEL OR STONES INCLUDED IN THE BACKFILL SHALL PASS THROUGH A I INCH SIEVE.
- 15. CULVERT ENDS SHALL BE BEVELED TO MATCH SIDE SLOPES. FIELD CUTTING OF CULVERT ENDS IS PERMITTED WHEN APPROVED BY THE CITY.
- 16. ALL FIELD CUT CULVERT PIPE SHALL BE TREATED AS REQUIRED IN THE STANDARD SPECIFICATIONS OR GENERAL SPECIAL PROVISIONS.

LEGE	END
PROPOSED FEATURES	EXISTING FEATURES
BOUNDARY RIGHT-OF-WAY LOT LINE FLOW & CURB CENTER LINE SIDEWALK EASEMENT EASEMENT BUILDING SETBACK (BSBL) THE COMMENT OF THE COMMENT	— — — — — — — — — — — — — — — — — — —
190—10' PROPOSED CONTOURS 2' PROPOSED CONTOURS FILTER FABRIC FENCE CONSTRUCTION FENCE CLEARED AREA LIMITS OF CLEARING INTERIM CATCH BASIN PROTECTION (INSERT) RIPRAP INTERCEPTOR SWALE INTERCEPTOR CULVERT TEMPORARY STORM PIPE	TRAFFIC SIGNAL TRAFFIC SIGNAL MAIL BOX MAIL BOX SIGN SIGN BOLLARD CONIFEROUS TREE CATCH BASIN, TYPE II TRAFFIC SIGNAL MAIL BOX BOLLARD CONIFEROUS TREE CONIFEROUS TREE
STORM DRAIN PIPE SEWER MAIN SEWER SERVICE WATER MAIN CATCH BASIN, TYPE I CATCH BASIN, TYPE II PIPE FLOW SEWER WANHOLE PIPE FLOW SEWER MANHOLE PIPE FLOW FIRE HYDRANT AIR/VAC RELEASE VALVE BLOW OFF TEE W/ CONC BLOCKING BEND W/ CONC BLOCKING	SD PIPE FLOW ○ YARD DRAIN ○ SEWER MANHOLE < SS PIPE FLOW ○ FIRE HYDRANT □ WATER METER ○ GATE VALVE CONTINUOS TREE TO BE SAVED DECIDUOUS TREE TO BE SAVED ASPHALT CONCRETE

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS. SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



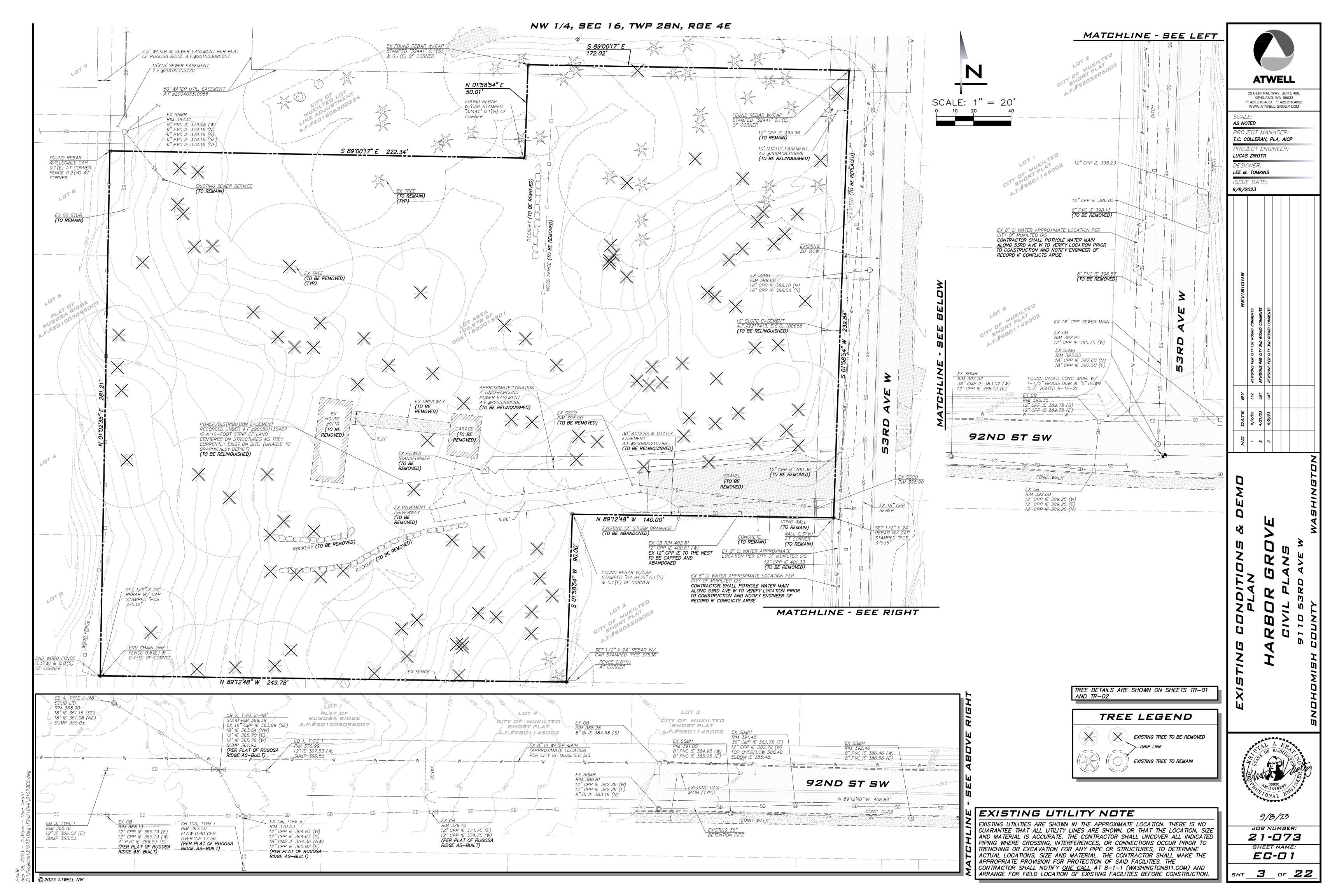
25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP PROJECT ENGINEER: LUCAS ZIROTTI

> LEE M. TOMKINS ISSUE DATE: 9/8/2023

DESIGNER:

JOB NUMBER: 21-073 SHEET NAME: GN-01



TRACT 999 COVENANT NOTE

COVENANT SHALL BE PREPARED AT FINAL PLAT TO ALLOW ACCESS FOR PARCEL #00611600015902 DRIVEWAY AND ALLOW ACCESS WITHIN TRACT 999 TO MAINTAIN PROPOSED RETAINING WALL & STORM SYSTEM

DRAINAGE FACILITY MAINTENANCE NOTE

, THE OWNER AND CONTRACT PURCHASERS OF THE LANDS HEREIN PLATTED (GRANTOR). AGREE THAT THE OBLIGATIONS OF GRANTOR SHALL INURE TO THE BENEFIT OF AND BE BINDING UPON THE HEIRS, SUCCESSORS, AND ASSIGNS. GRANTOR AGREES THAT THIS COVENANT TOUCHES AND CONCERNS THE LAND DESCRIBED HEREIN AND SHALL RUN WITH THE

GRANTOR BY EXECUTION OF THIS COVENANT ACKNOWLEDGES THAT THE BENEFITS OF THIS COVENANT INURE TO GRANTOR, DOWNSTREAM PROPERTY OWNERS, AND THE GENERAL PUBLIC, AND THAT THE CITY OF MUKILTEO (CITY) AS THIRD—PARTY BENEFICIARY OF THIS COVENANT HAS THE RIGHT, BUT NOT THE OBLIGATION, TO ENFORCE THIS COVENANT ON BEHALF OF DOWNSTREAM PROPERTY OWNERS AND THE GENERAL PUBLIC. CITY REQUIRES THIS COVENANT TO PROTECT PRIVATE AND PUBLIC PROPERTY, PRIVATE AND PUBLIC DRAINAGE INFRASTRUCTURE, AND NATURAL RESOURCES OF DOWNSTREAM PROPERTY OWNERS AND THE GENERAL PUBLIC.

GRANTOR, IN CONSIDERATION OF THE APPROVAL OF THIS SUBDIVISION, HEREBY COVENANTS TO PERFORM REGULAR MAINTENANCE UPON THE DRAINAGE FACILITIES INSTALLED, OR TO BE INSTALLED, UPON GRANTOR'S PROPERTY. REGULAR MAINTENANCE SHALL INCLUDE, AT A MINIMUM, ANNUAL INSPECTION OF THE STORMWATER DRAINAGE SYSTEM. AS APPLICABLE, THE SYSTEM SHALL INCLUDE THE STORMWATER CONVEYANCE SYSTEM PIPES, DITCHES, SWALES, AND CATCH BASINS; STORMWATER FLOW REGULATION SYSTEM DETENTION PONDS, VAULTS, PIPES, RETENTION PONDS, FLOW REGULATION AND CONTROL STRUCTURES; INFILTRATION SYSTEMS AND WATER QUALITY CONTROL SYSTEM.

THE SCOPE OF THIS COVENANT AND RIGHT OF ENTRY SHALL BE ADEQUATE TO PROVIDE FOR THE ACCESS, INSPECTION, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM, AND SHALL BE SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

CITY SHALL HAVE THE PERPETUAL RIGHT OF ENTRY ACROSS ADJACENT LANDS OF THE GRANTOR FOR PURPOSES OF INSPECTING, AUDITING, OR CONDUCTING REQUIRED MAINTENANCE OF THE DRAINAGE FACILITY.

IF CITY INSPECTION DETERMINES THAT MAINTENANCE IS NOT BEING PERFORMED, CITY SHALL ENDE, VOR TO PROVIDE GRANTOR REASONABLE ADVANCE NOTIFICATION OF THE NEED TO PERFORM THE MAINTENANCE AND A REASONABLE OPPORTUNITY FOR GRANTOR TO PERFORM IT. IN THE EVENT THAT GRANTOR FAILS TO COMPLETE THE REQUIRED MAINTENANCE WITHIN A REASONABLE TIME PERIOD, CITY SHALL HAVE THE RIGHT TO PERFORM OR CONTRACT WITH OTHERS TO PERFORM IT AT THE SOLE EXPENSE OF THE GRANTOR. IF CITY IN ITS SOLE DISCRETION DETERMINES THAT AN IMMINENT OR PRESENT DANGER EXISTS, REQUIRED MAINTENANCE AND/OR REPAIR MAY BEGIN IMMEDIATELY AT GRANTOR'S EXPENSE WITHOUT PRIOR NOTICE TO GRANTOR. IN SUCH EVENT, CITY SHALL PROVIDE GRANTOR WITH A WRITTEN STATEMENT AND ACCOUNTING OF ALL WORK PERFORMED AND THE FEES, CHARGES, AND EXPENSES INCURRED IN MAKING SUCH REPAIRS. GRANTOR SHALL AGREE TO REIMBURSE CITY OR PAY CITY'S VENDORS DIRECTLY FOR ALL REASONABLE FEES, CHARGES, AND EXPENSES IDENTIFIED IN CITY'S STATEMENT.

IF CITY IS REQUIRED TO ACT AS A RESULT OF GRANTOR'S FAILURE TO COMPLY WITH THIS COVENANT, CITY MAY REMOVE ANY OBSTRUCTIONS AND/OR INTERFERENCES THAT IN THE SOLE OPINION OF COUNTY IMPAIR THE OPERATION OF THE DRAINAGE FACILITY OR THE MAINTENANCE THEREOF. GRANTOR AGREES TO HOLD CITY, ITS OFFICERS, EMPLOYEES, AND AGENTS HARMLESS FROM ANY AND ALL CLAIMS, ACTIONS, SUITS, LIABILITY, LOSS, EXPENSES, DAMAGES AND JUDGMENTS OF ANY NATURE WHATSOEVER, INCLUDING COSTS AND ATTORNEY'S FEES, INCURRED BY THE REMOVAL OF VEGETATION OR PHYSICAL INTERFERENCE FROM THE DRAINAGE FACILITY.

WHEN EXERCISING THE MAINTENANCE PROVISIONS OF THE COVENANT. IN THE EVENT OF NONPAYMENT, CITY MAY BRING SUIT TO RECOVER SUCH COSTS, INCLUDING ATTORNEY'S FEES, AND UPON OBTAINING A JUDGMENT, SUCH AMOUNT SHALL BECOME A LIEN AGAINST THE PROPERTY OF GRANTOR AS PROVIDED IN RCW 4.56.190.

GRANTOR COVENANTS THAT ALL OF THE OWNERS, CONTRACT PURCHASERS AND LIEN HOLDERS OF THE PROPERTY DESCRIBED HEREIN HAVE SIGNED THE DEDICATION AND/OR DECLARATION OF THIS SUBDIVISION, THAT THEY HAVE THE RIGHT TO GRANT THIS COVENANT ON THE PROPERTY. AND THAT THE TITLE TO THE PROPERTY IS FREE AND CLEAR OF ANY ENCUMBRANCES WHICH WOULD INTERFERE WITH THE ABILITY TO GRANT THIS COVENANT.

DRAFT EASEMENT LANGUAGE

SUBJECT TO A PRIVATE WATER EASEMENT FOR THE PURPOSES SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER _____ (SHOWN ON MAP).

SUBJECT TO A PRIVATE SEWER EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER ______ (SHOWN ON MAP).

SUBJECT TO A PUBLIC MAINTENANCE ACCESS SAS MENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS KANT IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S F E NUMBER ______ (SHOWN ON MAP).

SUBJECT TO A PRIVATE ACCESS & UTILITY EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER _____ ____ (SHOWN ON MAP).

SUBJECT TO A PRIVATE DRAINAGE AND MAINTENANCE ACCESS EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER ______ (SHOWN ON MAP).

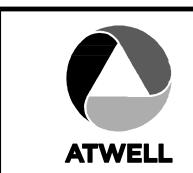
SUBJECT TO A PRIVATE EXISTING DRIVEWAY EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER _____ (SHOWN ON MAP).

SUBJECT TO A PUBLIC UNDERGROUND AND/OR OVERHEAD ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER _____ (SHOWN ON MAP).

SUBJECT TO A NATIVE GROWTH PROTECTION EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER ______ (SHOWN ON MAP).

EXISTING UTILITY NOTE

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AS NOTED

PROJECT MANAGER: T.C. COLLERAN, PLA, AICP

PROJECT ENGINEER: LUCAS ZIROTTI

DESIGNER: LEE M. TOMKINS

'SSUE DATE: 9/8/2023

	REVISIONS	REVISIONS PER CITY 1ST ROUND COMMENTS	REVISIONS PER CITY 2ND ROUND COMMENTS	REVISIONS PER CITY 3ND ROUND COMMENTS			
	BY	Z27	TMT	TMT			
	DATE	8/9/22	4/21/23	9/8/23			
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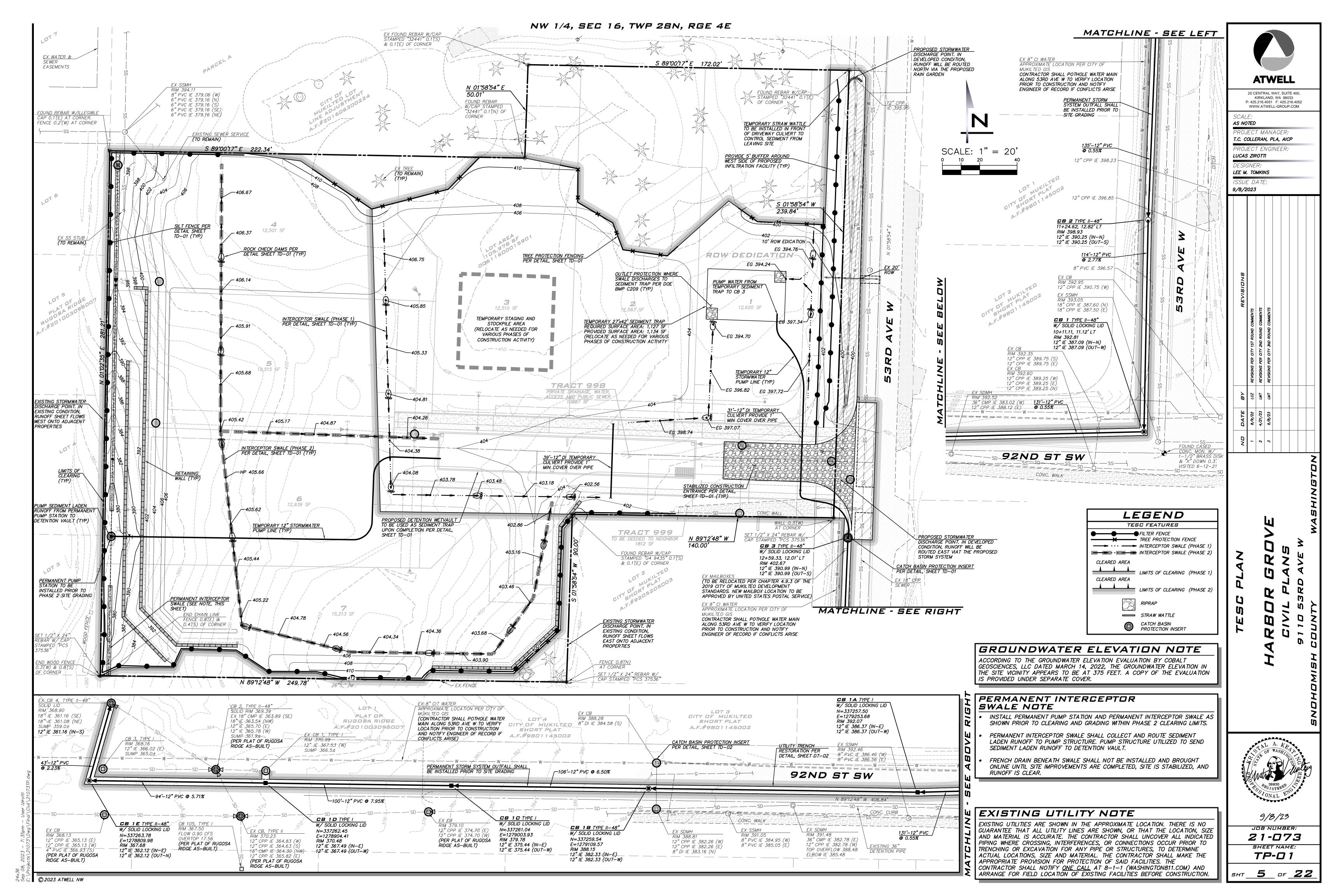


9/8/23

21-073 SHEET NAME:

SHT **4** OF **ZZ**

SP-01



TREE PROTECTION AREA

DO NOT ENTER THIS AREA

MATERIALS WITHIN THE

PROTECTION AREA

PLACE TREE PROTECTION FENCES AROUND EACH TREE OR GROUP OF TREES TO BE RETAINED. PLACE FOUR TO SIX-FOOT HIGH TEMPORARY CHAIN LINK OR POLYETHYLENE

LAMINAR FENCING FIVE FEET (IF POSSIBLE) OUTSIDE THE DRIP LINE(S) OF THE TREE OR

GROUP OF TREES. INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING

 WORK WITHIN THE PROTECTION FENCING SHALL BE DONE MANUALLY. DO NOT STOCKPILE CONSTRUCTION MATERIALS, SUPPLIES, SOILS OR DEBRIS WITHIN THE

• CEMENT TRUCKS MUST NOT BE ALLOWED TO DEPOSIT WASTE OR WASH OUT MATERIALS FROM THEIR TRUCKS WITHIN THE TREE PROTECTION FENCES.

• THE TREE PROTECTION FENCES NEED TO BE CLEARLY MARKED AS "TREE

TREE PROTECTION FENCE

NOT TO SCALE

PROTECTION AREAS" WITH FOUR-INCH OR LARGER LETTERS

TREE PROTECTION FENCES. NOR ALLOW VEHICLE PARKING OR EQUIPMENT STORAGE.

• THE AREA WITHIN THE TREE PROTECTION FENCING SHALL BE MULCHED WITH WOOD

CHIPS, HOG FUEL, OR SIMILAR MATERIALS TO A DEPTH OF 8 TO 10 INCHES. THE MATERIALS SHALL BE PLACED PRIOR TO BEGINNING OF CONSTRUCTION AND

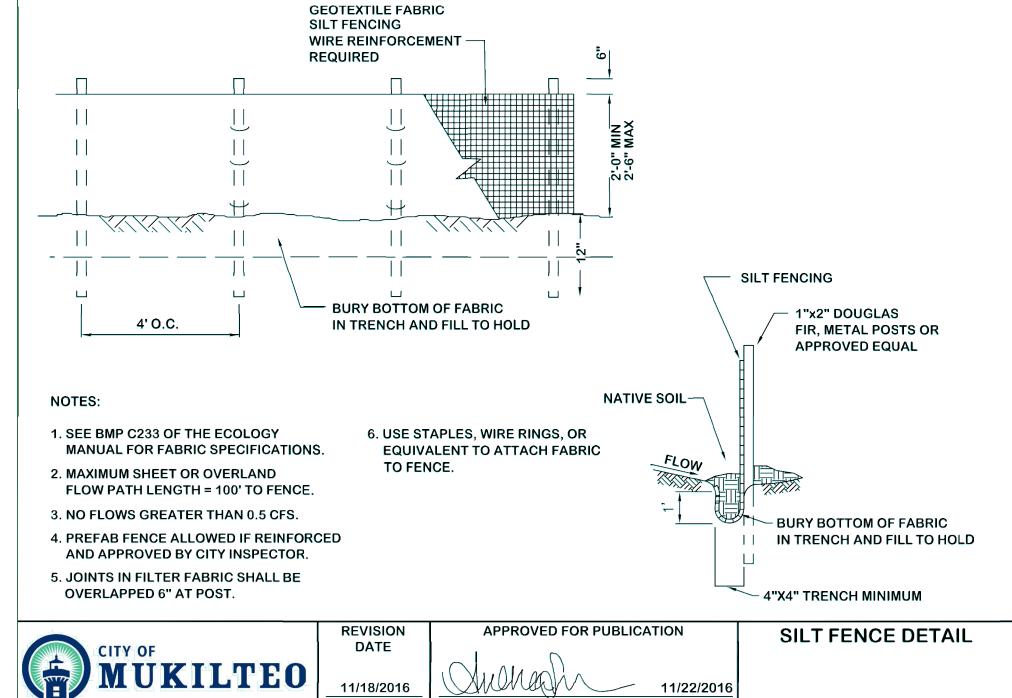
2. INSTALL TREE PROTECTION FENCES PRIOR TO BEGINNING CONSTRUCTION.

REMAIN UNTIL THE FENCING IS TAKEN DOWN.

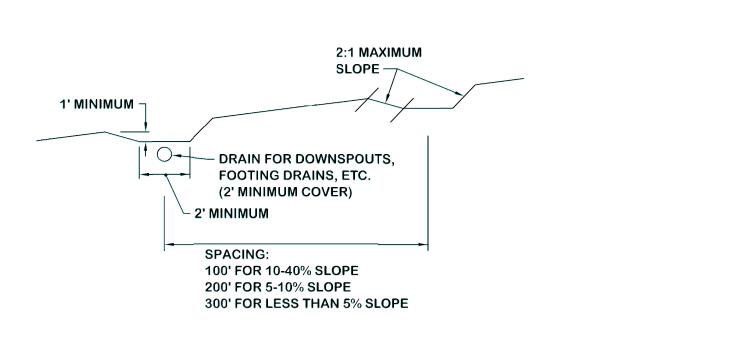
POSTS OR STAKES INTO MAJOR ROOTS.

TEMPORARY SEDIMENT TRAP

GEOTEXTILE FABRIC



CITY ENGINEER



MAINTENANCE STANDARDS:

SHALL BE INCREASED

- 1. DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY
- 2. IF THE FACILITIES DO NOT REGULARLY RETAIN STORM RUNOFF, THE CAPACITY AND/OR FREQUENCY OF THE DIKES/ SWALES
- 3. MAINTENANCE SHALL BE PERFORMED BY PROPERTY OWNER
- 4. INSPECT DIVERSION DIKES AND INTERCEPTOR SWALES ONCE A WEEK AFTER EVERY RAINFALL.



APPROVED FOR PUBLICATION

INTERCEPTOR SWALE DETAIL

11/18/2016

ROCK CHECK DAMS 11/22/201 STANDARD PLAN NO. EC-005

SITE GRADING AND CONSTRUCTION SWPPP NOTES

MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

- PRIOR TO ANY SITE WORK, INCLUDING CLEARING, LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR (OR PROJECT ENGINEER) AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS DARREN RIDDLE (425) 512-7099.
- 2. SOILS IN MUKILTEO OFTEN CONTAIN FINER PARTICLES WHICH WILL PASS THROUGH SEDIMENT TRAPS UNTREATED AND HAVE EXTREMELY LONG SETTLING TIMES. THEREFORE, THE NEED TO CONTROL EROSION FROM THE SITE IS THE FIRST PRIORITY AND SHALL BE EMPHASIZED.
- 3. THE CONSTRUCTION STORMWATER POLLUTION PREVENTION FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED SWPPP PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING. AN INSPECTION BY THE CITY OF THESE FACILITIES SHALL BE ARRANGED FOR BY THE CONTRACTOR PRIOR TO ANY GRADING. THESE FACILITIES MUST BE SATISFACTORILY
- 4. STOCKPILES SHALL BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEEDING IS PREFERRED.
- 5. THE DEVELOPER (OR PROJECT ENGINEER) IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER IS KRISTAL KEATING, PE (425) 216-4051.
- 6. IF THE PROJECT WILL DISTURB MORE THAN ONE (I) ACRE OF LAND, THEN A CONSTRUCTION NPDES PERMIT IS REQUIRED AND A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) SHALL BE ASSIGNED TO THE SITE. THE CESCL'S NAME, PHONE NUMBER, AND CESCL CERTIFICATE NUMBER SHALL BE GIVEN TO THE CITY PRIOR TO THE START OF CONSTRUCTION.
- 7. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT CITY ADOPTED INTERNATIONAL BUILDING CODE.
- 8. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. A PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- 9. IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER EXPERIENCED IN SOIL MECHANICS.
- 10. THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINAL GRADES; OR BY COMPACTING EACH LIFT AS THE SLOPE IS BEING CONSTRUCTED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- 11. ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM O* 95% MAXIMUM DENSITY IN THE UPPER 4 FEET & GO% MAXIMUM DENSITY BELOW 4 FEET AS DETERMINED BY MODIFIED
- 12. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS AND PLAN APPROVAL AND BOND FORECLOSURES.
- 13. UPON COMPLETION OF WORK, FINAL REPORTS SHALL BE SUBMITTED TO THE CITY IN CONFORMANCE WITH THE CURRENT CITY ADOPTED INTERNATIONAL BUILDING CODE.
- 14. A WET WEATHER EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL ON OR BEFORE SEPTEMBER I, IF THE PROJECT IS PROPOSING TO ACTIVELY CLEAR, GRADE, OR OTHERWISE DISTURB 1,000 SQUARE FEET OR MORE OF SOIL DURING THE PERIOD BETWEEN OCTOBER I AND APRIL 3 OTHER THRESHOLDS FOR A WET WEATHER EROSION CONTROL a. HAVE AREA(S) THAT DRAIN, BY PIPE, OPEN DITCH, SHEET FLOW, OR A COMBINATION OF THESE TO A TRIBUTARY WATER, AND THE TRIBUTARY WATER IS ONE-QUARTER MILE OR LESS
- DOWNSTREAM; OR HAVE SLOPES STEEPER THAN 15 PERCENT ADJACENT OR ON-SITE: OR HAVE HIGH POTENTIAL FOR SEDIMENT TRANSPORT, AS DETERMINED BY THE CONSTRUCTION SITE SEDIMENT TRANSPORT POTENTIAL WORKSHEET; OR
- HAVE A CRITICAL AREA OR CRITICAL AREA BUFFER ON—SITE, OR WITHIN S O FEET OF THE SITE; OR HAVE HIGH GROUNDWATER TABLE OR SPRINGS.

TEMPORARY SEEDING GENERAL NOTES

- 1. USE SEEDING THROUGHOUT THE PROJECT ON DISTURBED AREAS THAT HAVE REACHED FINAL GRADE OR THAT WILL REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- 2. THE OPTIMUM SEEDING WINDOWS ARE APRIL 1 THROUGH JUNE 30 AND SEPTEMBER 1 THROUGH OCTOBER 1.
- 3. BETWEEN OCTOBER 1 AND MARCH 30 SEEDING REQUIRES A COVER OF MULCH WITH STRAW OR AN EROSION CONTROL BLANKET UNTIL 75 PERCENT GRASS COVER IS ESTABLISHED.
- 4. REVIEW ALL DISTURBED AREAS IN LATE AUGUST TO EARLY SEPTEMBER AND COMPLETE ALL SEEDING BY THE END OF SEPTEMBER. a. MULCH IS REQUIRED AT ALL TIMES FOR SEEDING, MULCH CAN BE APPLIED ON TOP OF THE SEED OR SIMULTANEOUSLY BY HYDROSEEDING (SEE ECOLOGY BMP C121 MULCHING FOR
 - b. SEED AND MULCH ALL DISTURBED AREAS NOT OTHERWISE VEGETATED AT FINAL SITE STABILIZATION.

MAINTENANCE OF SILTATION BARRIERS

- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED EROSION CONTROL ELEMENTS, ESPECIALLY END-RUNS AND SEDIMENT BUILD-UP. NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED THE SAME DAY.
- 2. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE SEDIMENT LEVEL REACHES APPROXIMATELY ONE—HALF THE SILTATION
- 3. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE CHECK DAM IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SEDIMENT TRAP GENERAL NOTES

- SEDIMENT TRAPS ARE ONLY EFFECTIVE IN REMOVING SEDIMENT DOWN TO ABOUT THE MEDIUM SILT SIZE FRACTION. SOILS IN MUKILTEO OFTEN CONTAIN FINE SILT AND MAY NOT BE ADEQUATELY TREATED WITH SEDIMENT PONDS. THEREFORE, EROSION CONTROL PRACTICES SHALL BE EMPHASIZED AND PRIORITIZED.
- 2. THE POND SHALL BE CHECKED AFTER EACH RAIN EVENT, OR WEEKLY, WHICHEVER IS SOONER, TO INSURE THAT IT THE WALLS ARE STRUCTURALLY SOUND, THE POND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT, AND TO DETERMINE MAINTENANCE NEEDS.
- 3. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED IMMEDIATELY.
- THE EMERGENCY SPILLWAY SHALL BE CHECKED REGULARLY TO INSURE THAT THE LINING IS WELL ESTABLISHED AND EROSION RESISTANT. THE SILTATION BASIN SHALL BE CHECKED FOR SEDIMENT CLEANOUT AFTER EACH RAINFALL WHICH PRODUCES RUNOFF.
- 5. WHEN THE SEDIMENT REACHES THE CLEANOUT LEVEL (TYPICALLY I—FOOT IN DEPTH), IT SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF—SITE.
- 6. SECONDARY TREATMENT MAY BE NECESSARY IF THE SEDIMENT POND CANNOT EFFECTIVELY REMOVE THE FINE GRAIN SOILS.

SOURCE CONTROL BMP'S

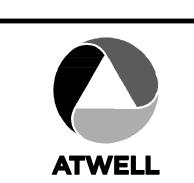
- 1. VEHICLE/EQUIPMENT WASHING & STEAM CLEANING (BMP S1.20 NO WASHING OF VEHICLES ON SITE (BMP S1.10)
- 2. EMERGENCY SPILL CLEANUP PLANS (BMP S1.80) NO CHANGE VEHICLE OIL OR OTHER VEHICLE MAINTENANCE ON SITE.
- 3. VEGETATION MANAGEMENT/INTEGRATED PEST MANAGEMENT (BMP S1.90) CERTIFIED PROFESSIONAL IS TO MANAGE PEST CONTROL.
- 4. MAINTENANCE OF STORM DRAINAGE FACILITIES (BMP S2.00) CLEAN GRATE, ETC.
- 5. STREET SWEEPING (BMP S20.20) KEEP STREETS CLEAN & FREE OF DEBRIS.

CONSTRUCTION SEQUENCE

- PRIOR TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE AND ATTEND PRE-CONSTRUCTION CONCERENCE WITH THE CITY OF MUKILTEO INSPECTION UNIT AND EROSION CONTROL SPECIALIST.
- 2. FLAG CLEARING LIMITS AND INSTALL SILT FENCE AS SHOWN.
- 3. INSTALL ROCK CONSTRUCTION ENTRANCES.
- 4. INSTALL PERMANENT STORMWATER OUTFALL ALONG 53RD AVE W AND 92ND ST SW.
- 5. CONSTRUCT TEMPORARY SEDIMENT TRAP AND INSTALL TEMPORARY INTERCEPTOR SWALES (PHASE 1) TO DIRECT SURFACE FLOW TO SEDIMENT
- 6. CLEAR AND GRUB ROAD AREAS AND STOCKPILE AREAS (PHASE 1 LIMITS OF CLEARING). CONSTRUCT DETENTION VAULT AND USE AS SEDIMENT STORAGE. INSTALL PHASE 2 EROSION CONTROL BMP'S SUCH AS INTERCEPTOR SWALES, ETC. AND DIRECT RUNOFF TO THE VAULT.
- 7. INSTALL PERMANENT INTERCEPTOR SWALE RUNNING PARALLEL ALONG WEST PARCEL BOUNDARY AND PERMANENT PUMP STATION.
- 8. CLEAR AND GRUB REMAINING AREAS WITHIN PHASE 2 CLEARING LIMITS DELINEATED ON THE TESC PLAN.
- 9. GRADE AND STABILIZE ROAD AND GRAVEL BASE. COVER EXPOSED SOILS WITH MULCH, HOG FUEL OR HYDROSEED.
- 10. CONSTRUCT SEWER, WATER AND STORM UTILITIES. INSTALL GAS, POWER, TELEPHONE AND CABLE UTILITIES AS REQUIRED.
- 11. PLACE AND POUR CURBS AND GUTTERS.
- 12. PAVE ROADS WITH ATB AND PLACE DETENTION SYSTEM INTO FULL OPERATION.
- 13. HYDROSEED REMAINING EXPOSED SOILS AND STABILIZE PROJECT.
- 14. FLUSH STORM DRAINAGE SYSTEM AND REMOVED SEDIMENTATION IN ALL CATCH BASINS AND THE VAULT.
- 15. STABILIZE ALL DISTURBED AREAS AND REMOVE ALL T.E.S.C. MEASURES.

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AS NOTED PROJECT MANAGER:

T.C. COLLERAN, PLA, AICP PROJECT ENGINEER: LUCAS ZIROTTI

DESIGNER: LEE M. TOMKINS 'SSUE DATE:

9/8/2023

9/8/23

JOB NUMBER: 21-073 SHEET NAME: TD-0 1

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DATE 11/18/2016

11/22/201

STANDARD PLAN NO. EC-002

STANDARD PLAN NO. EC-001

FLOW. PLACE ROCK BY HAND OR MECHANICAL MEANS.

SECTION A-A

1. THE DISTANCE SUCH THAT POINTS 'A'

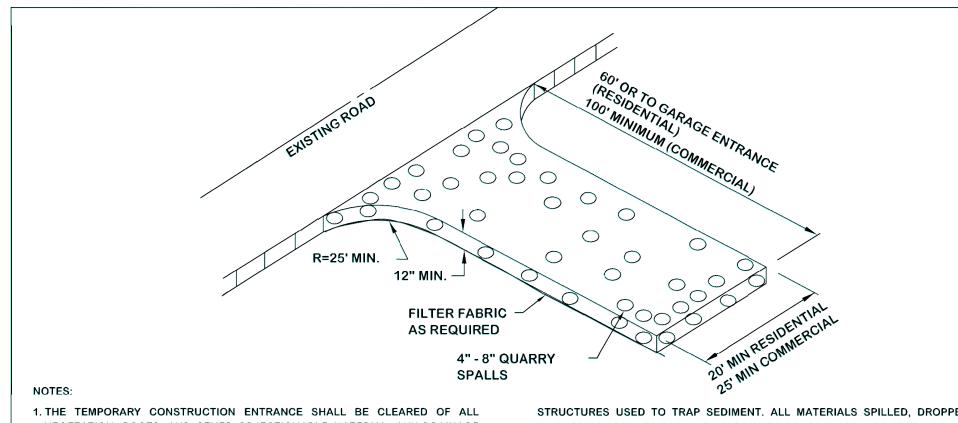
AND 'B' ARE OF EQUAL ELEVATION.

2. CONSTRUCT ROCK DAMS FROM ROCK LARGE

ENOUGH TO STAY IN PLACE GIVEN EXPECTED

ROCK CHECK DAM

NW 1/4, SEC 16, TWP 28N, RGE 4E



APPROVED FOR PUBLICATION

VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. 2. GRAVEL SHALL BE CRUSHED BALLAST ROCK, 4" TO 8" IN DIAMETER; INSTALLED

8" TO 12" IN DEPTH ACROSS THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 100 FEET FOR COMMERCIAL SITES; AND 60 FEET FOR RESIDENTIAL SITES. CRUSHED CONCRETE IS NOT ALLOWED AS BALLAST.

3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY AND ANY STORM DRAINAGE FACILITIES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY

STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

4. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED BY SHOVELING OR STREET SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN HIGH EFFICIENCY SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP TO CONTAIN THE WASH WATER SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED.

5. PERFORM STREET SWEEPING BY HAND OR WITH A HIGH EFFICIENCY SWEEPER. DO NOT USE A NON-HIGH EFFICIENCY MECHANICAL SWEEPER BECAUSE THIS CREATES DUST AND THROWS SOILS INTO STORM SYSTEMS OR CONVEYANCE DITCHES.

11/22/2016

STANDARD PLAN NO. EC-006

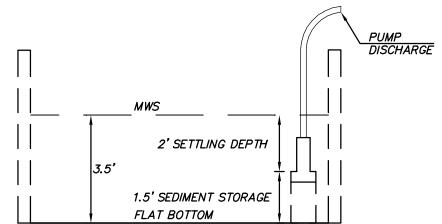
CONSTRUCTION

ENTRANCE

11/18/2016

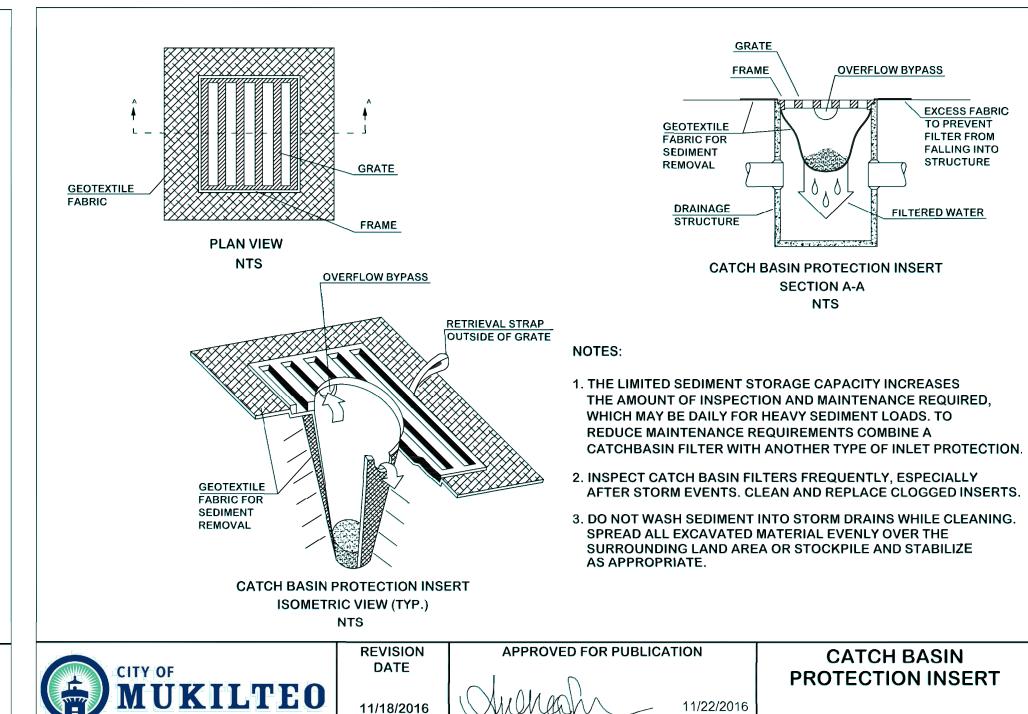
CATCH BASIN PROTECTION INSERT

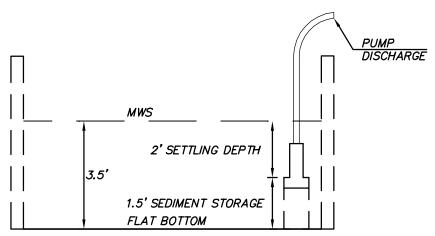
STANDARD PLAN NO. EC-007



VAULT SEDIMENT TRAP

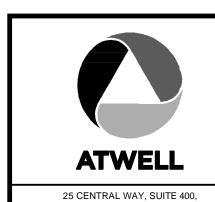
NOT TO SCALE





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AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP PROJECT ENGINEER:

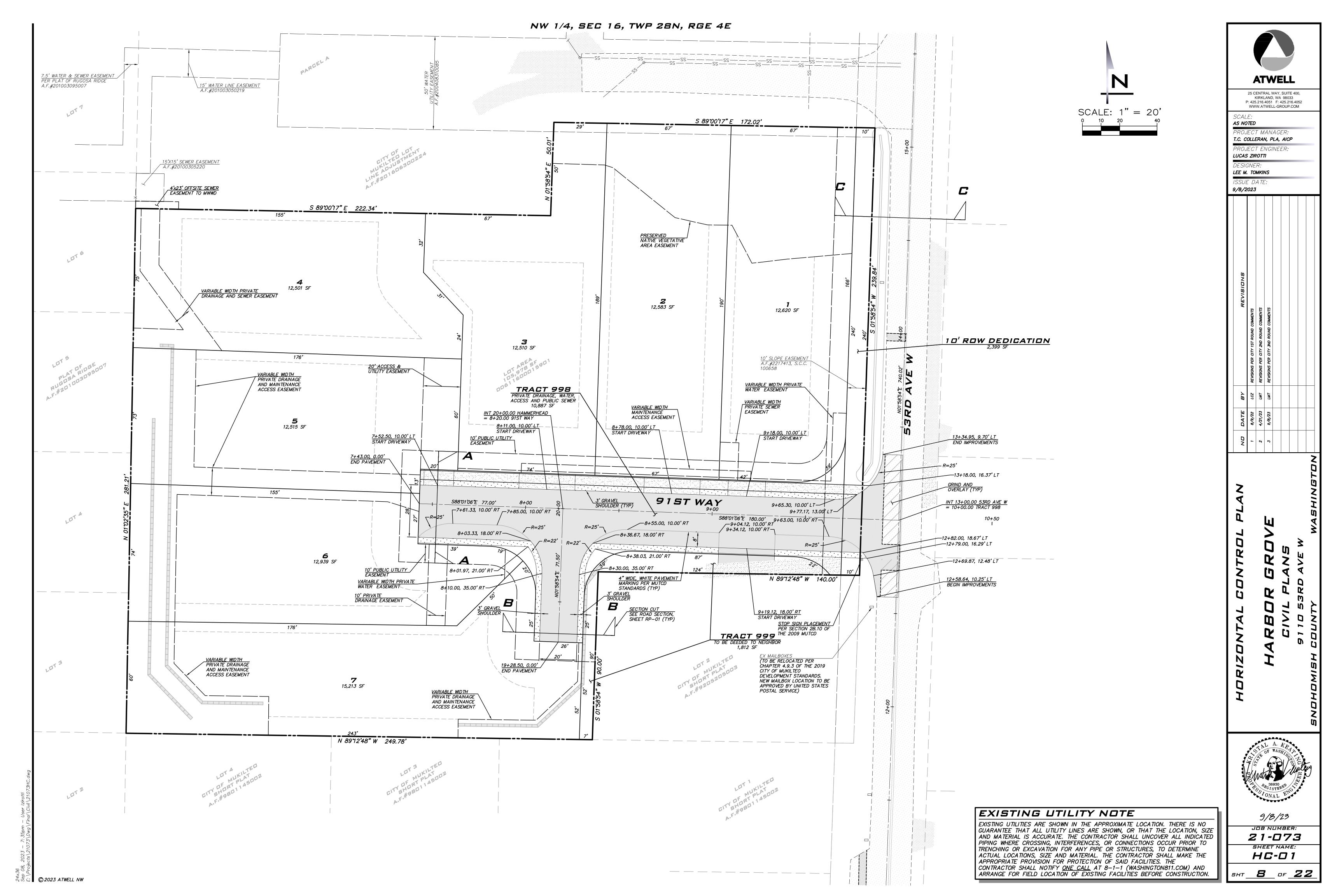
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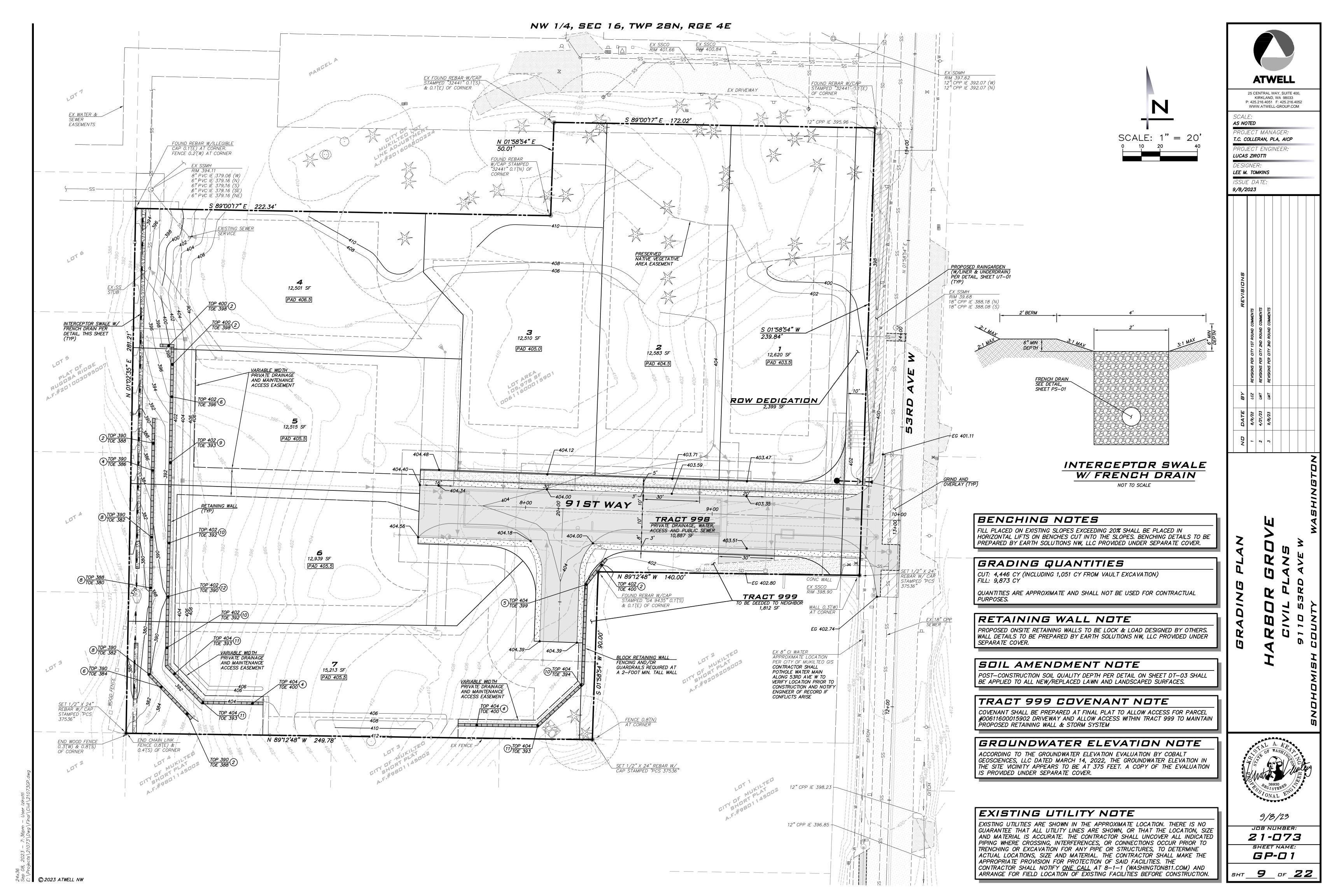
LUCAS ZIROTTI DESIGNER: LEE M. TOMKINS ISSUE DATE:

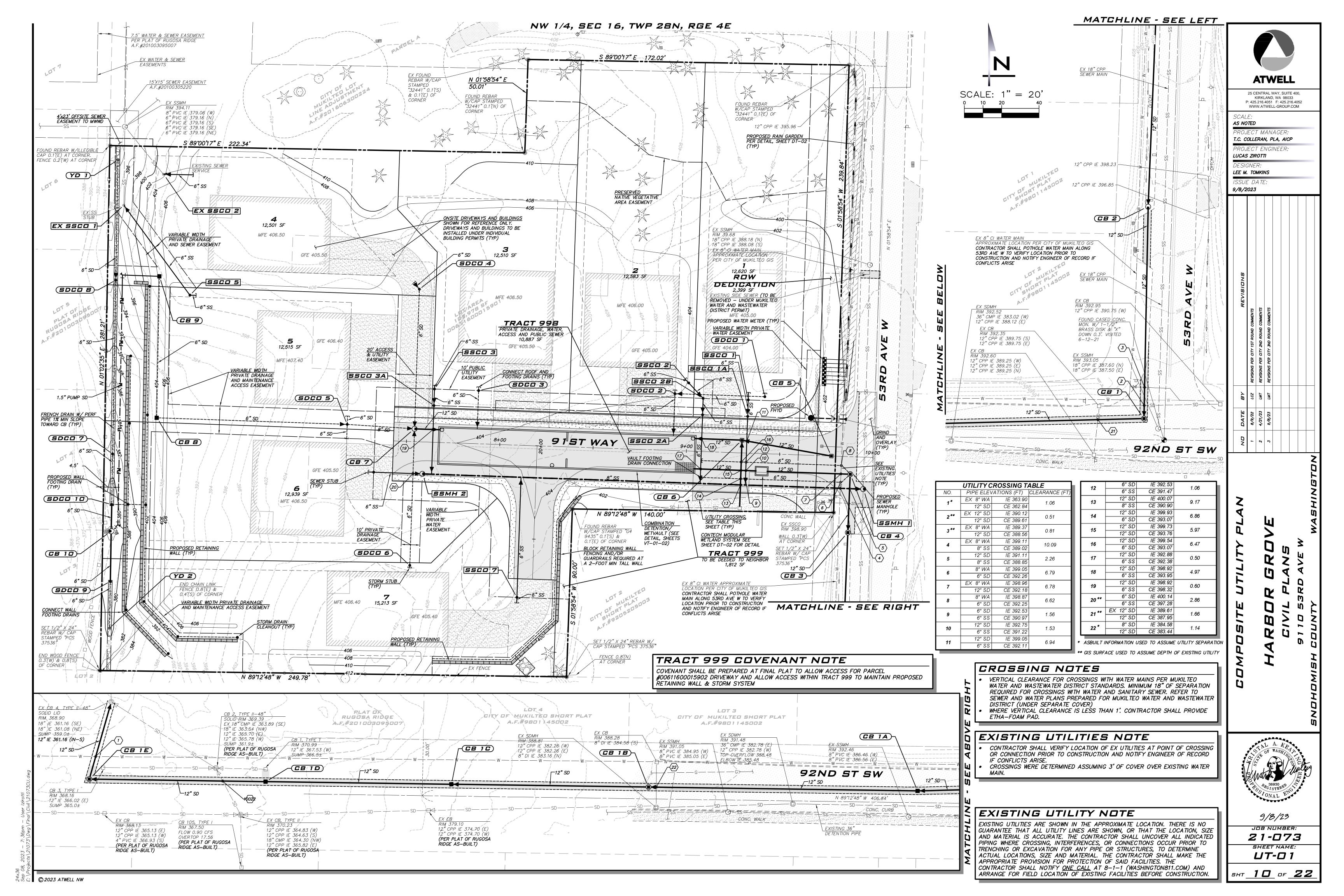
9/8/2023

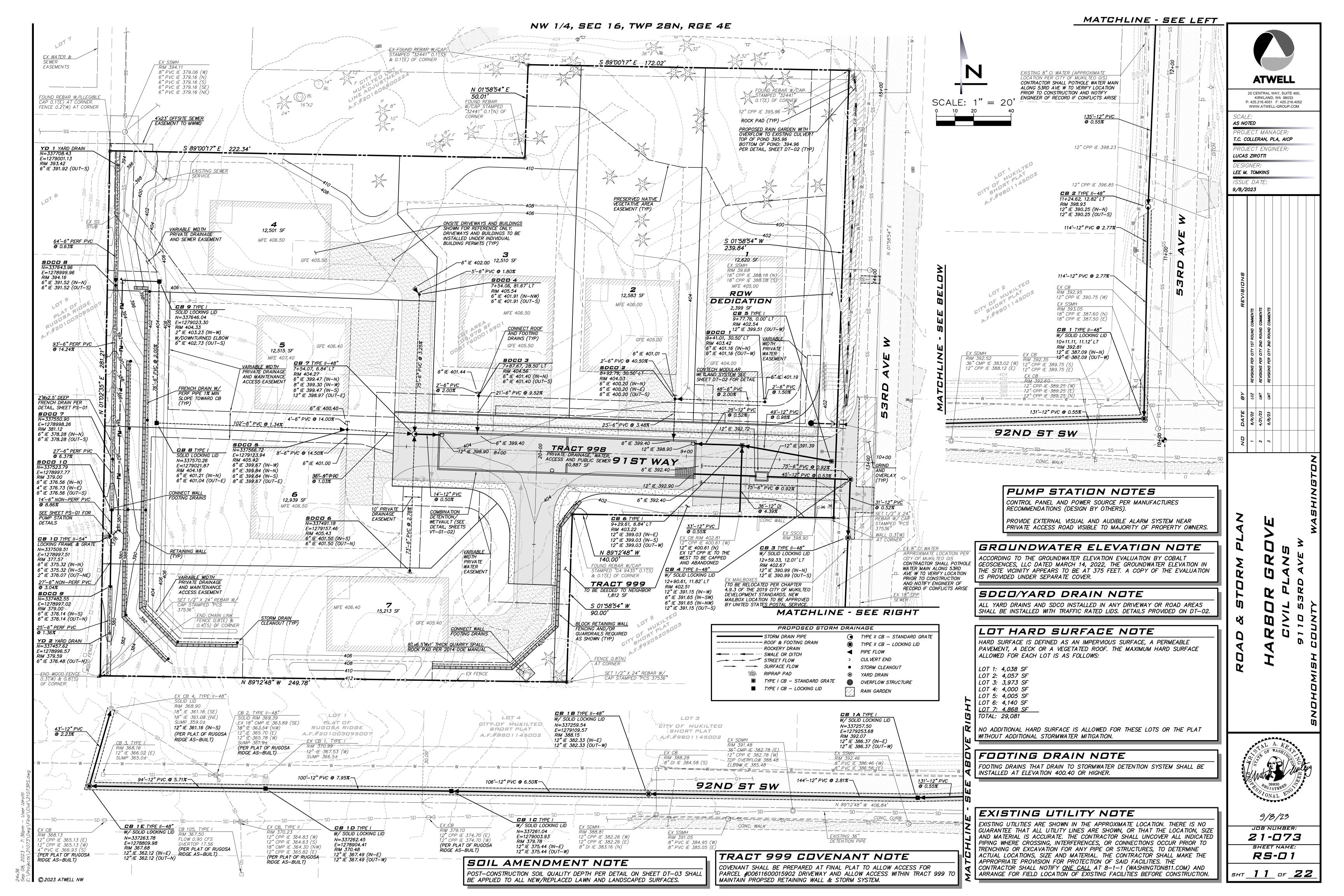
JOB NUMBER: 21-073 SHEET NAME: TD-02

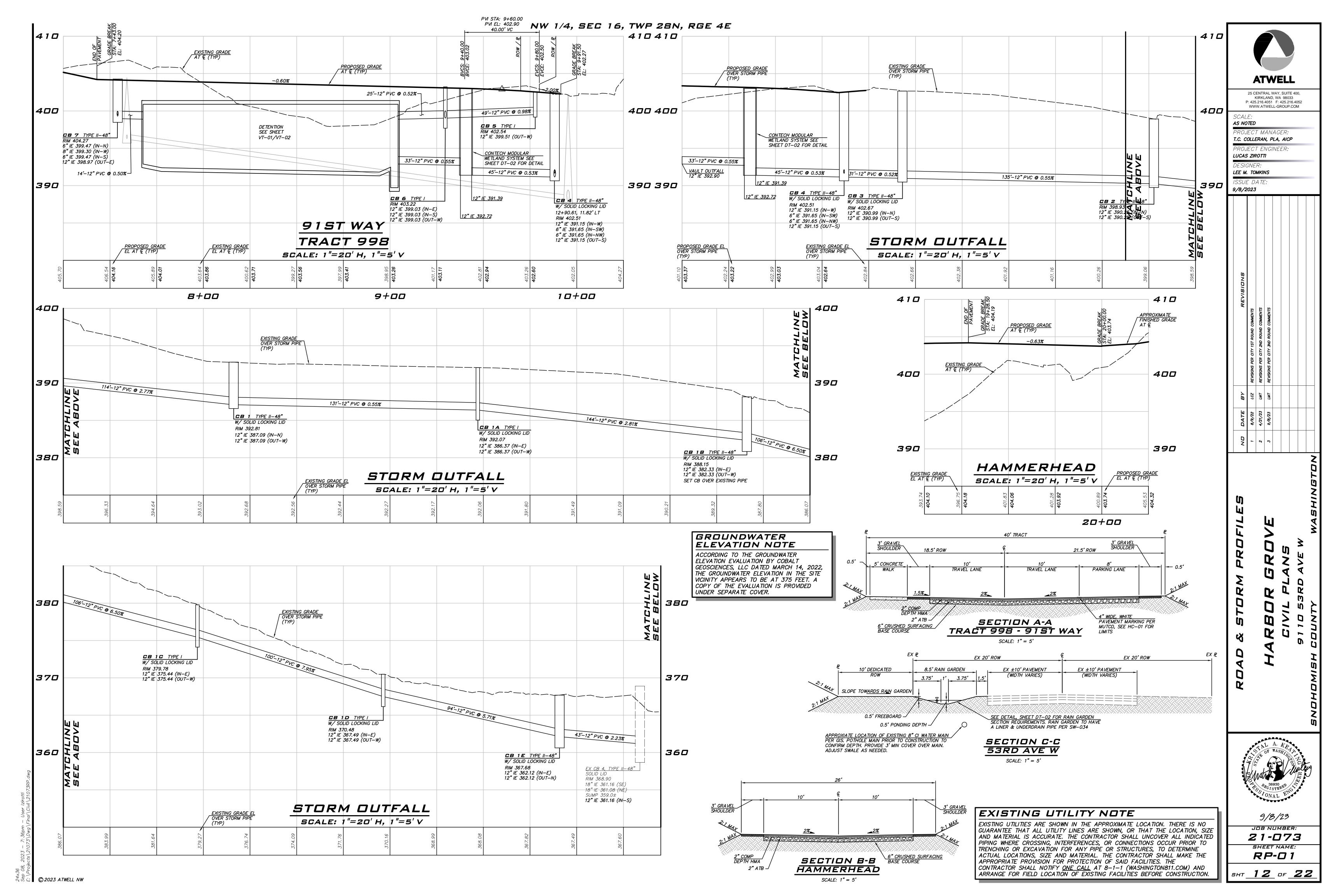
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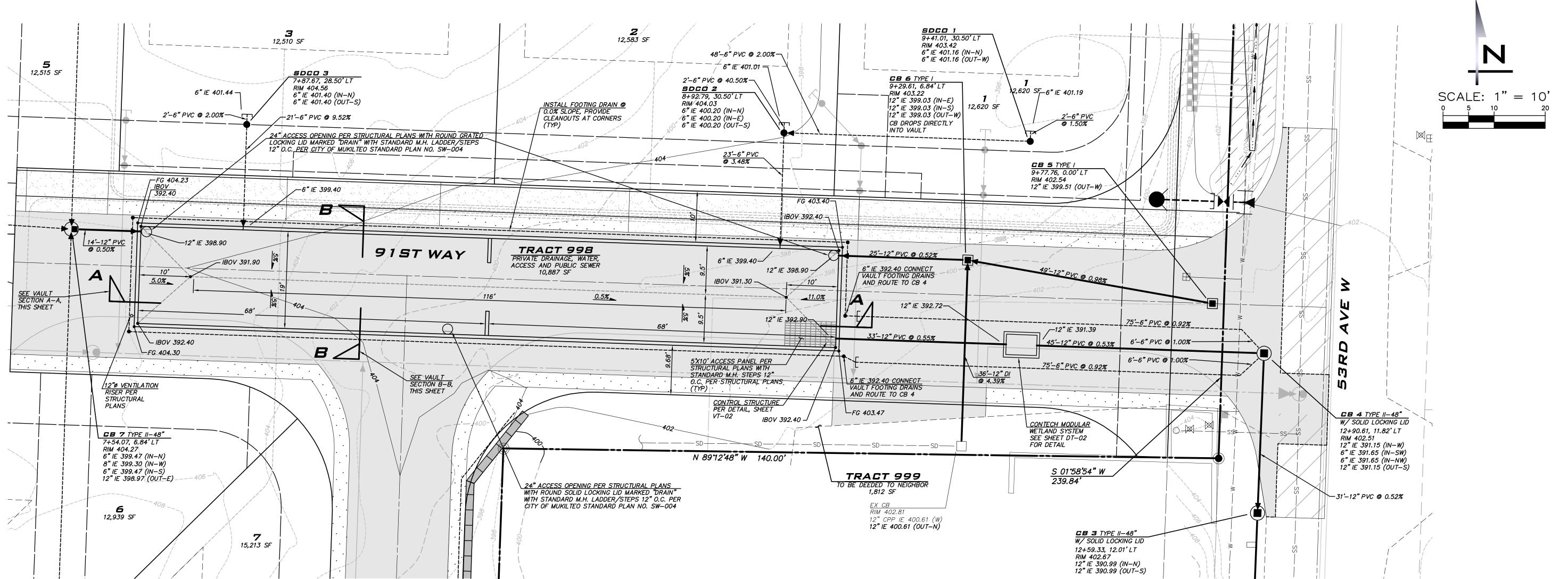


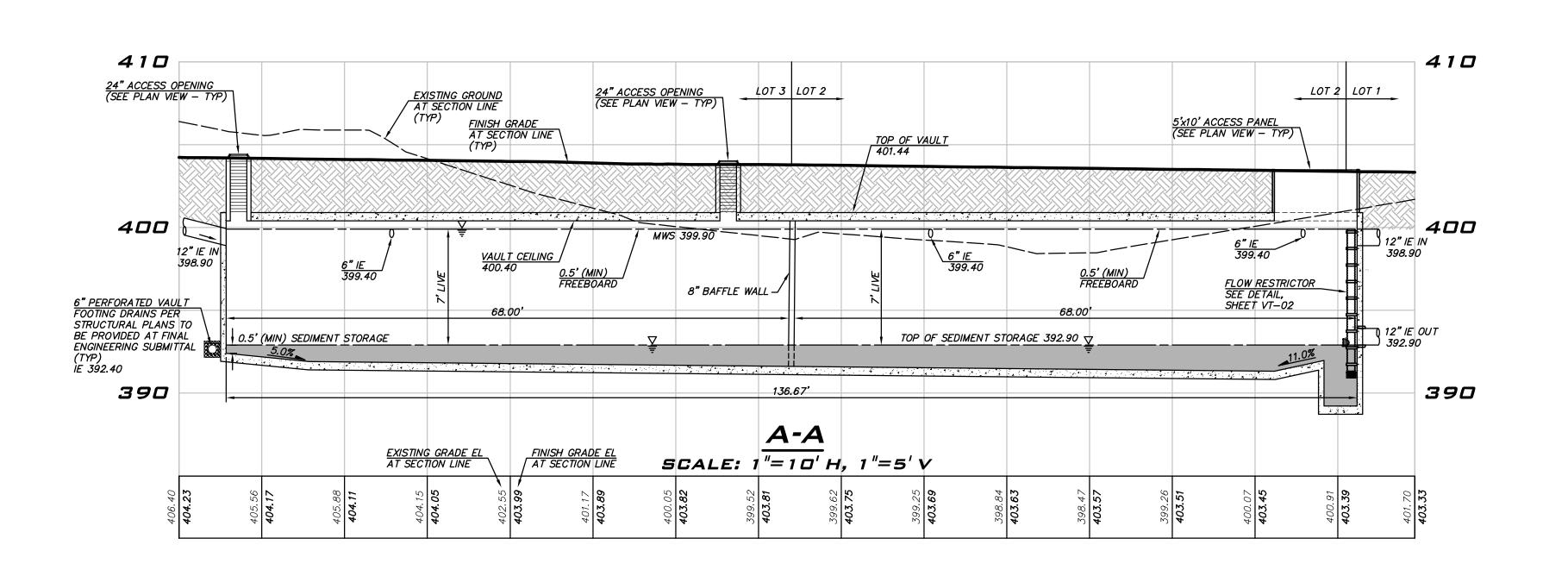


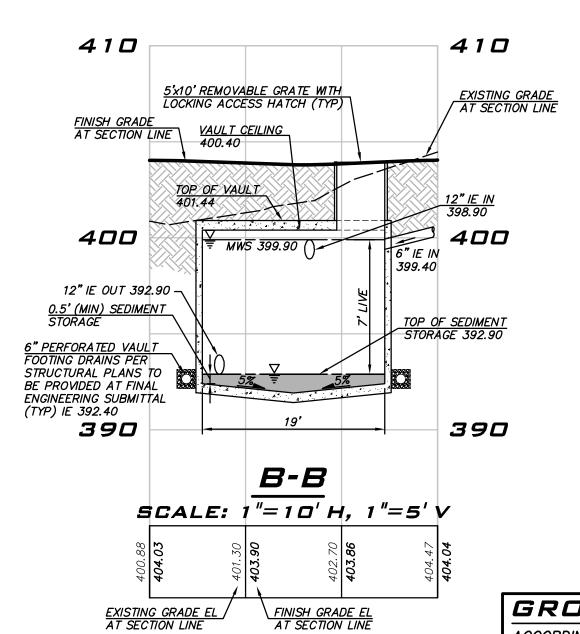












GROUNDWATER ELEVATION NOTE

ACCORDING TO THE GROUNDWATER ELEVATION EVALUATION BY COBALT GEOSCIENCES, LLC DATED MARCH 14, 2022, THE GROUNDWATER ELEVATION IN THE SITE VICINITY APPEARS TO BE AT 375 FEET. A COPY OF THE EVALUATION IS PROVIDED UNDER SEPARATE COVER.

VAULT INF	0
FG OVER VAULT:	403.40 (MIN)
	404.30 (MAX)
MAX WATER SURFACE:	<i>399.90</i> `
BOTTOM OF LIVE:	<i>392.90</i>
BOTTOM OF DEAD:	<i>388.90</i>

	REQ'D	PROVIDED	ASBUILT
LIVE	17,080	18,088	XX,XXX
DEAD	3,946	4,256	X,XXX

VAULT VOLUMES

EXISTING UTILITY NOTE

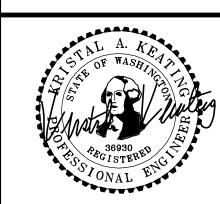
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SCALE:
AS NOTED
PROJECT MANAGER:
T.C. COLLERAN, PLA, AICP
DDO IECT ENCINEED.

AS NOTED
PROJECT MANAGER: T.C. COLLERAN, PLA, AICP
PROJECT ENGINEER: LUCAS ZIROTTI
DESIGNER: LEE M. TOMKINS
ISSUE DATE:

	ISSUE 9/8/2			:			
	REVISIONS	REVISIONS PER CITY 1ST ROUND COMMENTS	REVISIONS PER CITY 2ND ROUND COMMENTS	REVISIONS PER CITY 3ND ROUND COMMENTS			
	BY	Z07	LMT	LMT			
	PATE	3/9/22	/21/23	1/8/23			



9/8/23

JOB NUMBER: 21-073 SHEET NAME: VT-01

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CONTROL STRUCTURE

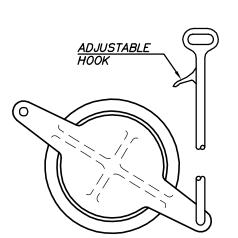
SCALE: 1" = 2'

VAULT NOTES

- PLANS FOR TOTAL LENGTH, WIDTH, HEIGHT AND WALL THICKNESS DESIGN, AS WELL AS LOCATIONS FOR ALL MAINTENANCE ACCESS POINTS AND PROPOSED PENETRATIONS JOINTS AND PENETRATIONS IN VAULT AND LID TO BE WATER TIGHT. PROVIDE WATERSTOPS IN

DIMENSIONS DEPICTING OVERALL SIZE OF VAULT ARE FOR REFERENCE ONLY. SEE STRUCTURAL

- 3. ALL WATERSTOPS TO BE INSTALLED PER PLAN AND SPECIFICATION AND TO BE INSPECTED BY
- PIPES SEALED WITH GROUT
- VENTILATION PIPES (MIN 12 INCH DIAMETER) PROVIDED AT CORNERS. VENT PIPE SHALL BE
- SCHEDULE 40 PVC OR BETTER AND SHALL HAVE LOCKING DUCTILE IRON RINGS AND LIDS. WALL DRAINS TO BE CONSTRUCTED OF A MINIMUM 6-INCH PERFORATED PVC PIPE SURROUNDED BY 6" MIN THICK WASHED ROCK (ALL SIDES) UNLESS OTHERWISE NOTED BY STRUCTURAL ENGINEER. DRAIN TO BE LOCATED AT THE WALL BASE, SHALL INCLUDE CLEANOUT AT ALL CORNERS, AND SHALL GRAVITY FLOW TO DISCHARGE POINT. NO ONE—WAY VALVES ALLOWED. DRAINS TO BE INSTALLED AT ELEVATION SHOWN. CONNECT PERFORATED DRAIN TO A 6" SOLID WALL PVC AT 2% MIN. SLOPE DIRECTED TO DOWNSTREAM CATCH BASIN. INSTALL CLEANOUT AT
- BENDS TOTALING 90° AND AT 100° MAX O.C. ACCESS OPENINGS TO HAVE OSHA CONFINED SPACE WARNING
- 8. PIPE SIZES AND SLOPES: PER PLANS.
- 9. FINISHED GRADE OVER VAULT TO BE PER PLAN
- 10. VAULT EXCAVATION TO BE FENCED AND SECURED BY CONTRACTOR. SAFETY FENCING, SHORING, EXCAVATION SAFETY, AND OTHER SAFETY ITEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL ACCESS TO HAVE SECURE COVERING DURING CONSTRUCTION.
- . ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION PRIOR TO FINAL PLAT AND ALSO FOR CITY INSPECTION PRIOR TO PERFORMANCE AND MAINTENANCE BOND RELEASE
- . THE CONTRACTOR AND HIS SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AL DIMENSION AND ELEVATIONS SHOWN ON THESE DRAWINGS WITH THE CURRENT PERMITTED SET OF STRUCTURAL DRAWINGS, AND SHALL NOTIFY BOTH THE STRUCTURAL & CIVIL ENGINEERS IN WRITING OF ALL DISCREPANCIES BETWEEN THE CIVIL DRAWINGS AND THESE DRAWINGS TO
- 13. CONCRETE FINISH TO BE SMOOTH WITH NO FINS, VOIDS, ROCK POCKETS, OR OTHER
- 14. CONE SNAP TIES ARE REQUIRED FOR FORMWORK AND EPOXY GROUT SEALED AT ALL INTERIOR
- AND EXTERIOR WALL SURFACES. NO FLAT TIES ALLOWED.
- 15. PER THE 2014 SWMMWW, ALL VAULTS SHALL BE DESIGNED FOR H 20 LOADING.
- 16. MINIMUM AND MAXIMUM GRADES OVER VAULT AS SHOWN. FOOTING DRAIN ELEVATIONS ARE PROVIDED FOR REFERENCE.



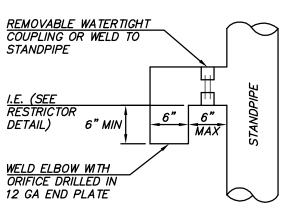
- A. CAST IRON BODY AND GATE, OLYMPIC FDY, STD., OR B. ALUMINUM, DRAINAGE SPECIALTIES (SAVANNA, GA) STD., OR EQUAL.
- 2. GATE SHALL BE 8" DIAMETER UNLESS OTHERWISE SPECIFIED.

3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING

- (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.
- 4. LIFT ROD: AS SPECIFIED BY MANUFACTURER WITH HANDLE EXTENDED TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.

SHEAR GATE

NOT TO SCALE

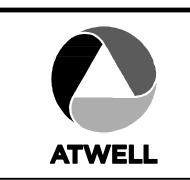


ELBOW DETAIL

NOT TO SCALE

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SCALE: AS NOTED

PROJECT MANAGER: T.C. COLLERAN, PLA, AICP PROJECT ENGINEER: LUCAS ZIROTTI

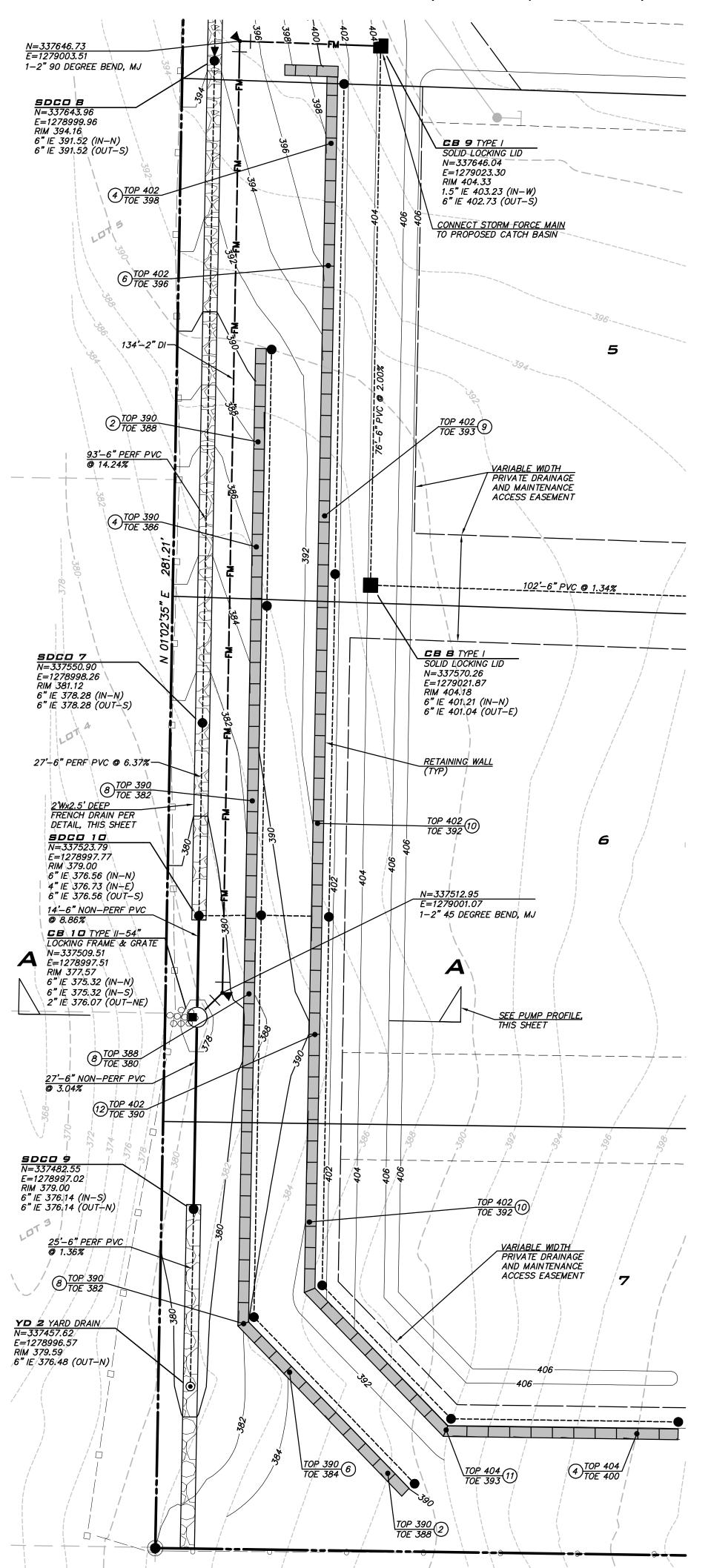
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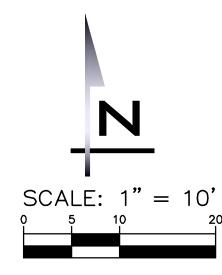
9/8/2023

JOB NUMBER:

21-073 SHEET NAME: VT-02

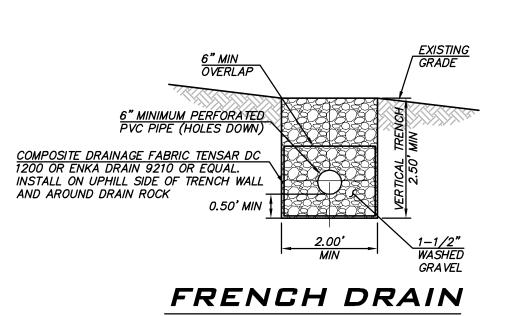
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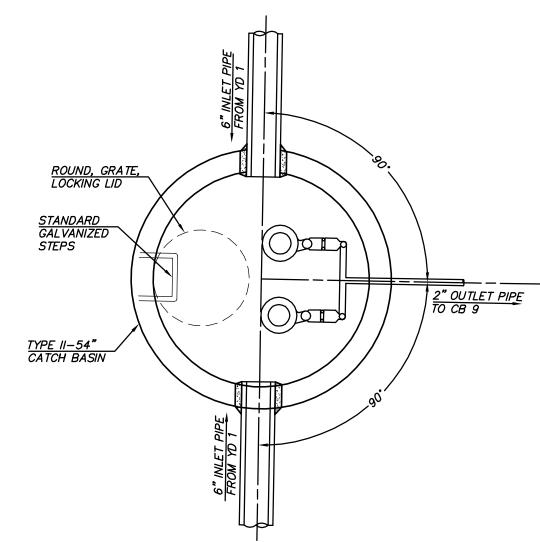


PUMP SPECIFICATIONS & NOTES

- 1. THIS PUMP STATION DETAIL IS FOR SCHEMATIC PURPOSES ONLY AND TO OUTLINE THE BASIC PERFORMANCE REQUIREMENTS FOR THE SYSTEM. THE CONTRACTOR SHALL FOLLOW THE INSTALLATION REQUIREMENTS SPECIFIED BY THE PUMP MANUFACTURER. A REPRESENTATIVE OF THE PUMP MANUFACTURER SHALL BE ON-SITE TO INSPECT THE INSTALLATION OF THE SYSTEM.
- 2. DUPLEX SUBMERSIBLE PUMP STATION REQUIREMENTS: SUGGESTED PUMP: ZOELLER 153 DEWATERING SUBMERSIBLE PUMP $TOTAL\ HEAD = 34.11\ FT$
- FLOW= 24.0 GPM / PUMP (0.054 CFS / PUMP) PROVIDE ADJUSTABLE FLOW RESTRICTION VALVES ON DISCHARGE LINE PUMPS SHALL BE RATED CONTINUOUS DUTY, SINGLE PHASED, 115V 2" NPT DISCHARGE LINE
- INSTALL PUMPS ON DISCONNECT RAIL SYSTEM PROVIDE ON, OFF AND ALARM FLOAT SWITCHES ALTERNATING DUPLEX PUMP SYSTEM CONTROL PANEL TO BE INSTALLED BY QUALIFIED ELECTRICIAN PER NATIONAL ELECTRICAL
- SECURE/LOCKABLE OUTDOOR DUPLEX CONTROL PANEL WITH BATTERY BACKUP ALARM
- PUMPS SHALL ALTERNATE WITH ONLY ONE PUMP ON AT A TIME (NO TWO PUMP ON CONDITION) WITH MAXIMUM RUN TIME OF 30 MINUTES PER PUMP

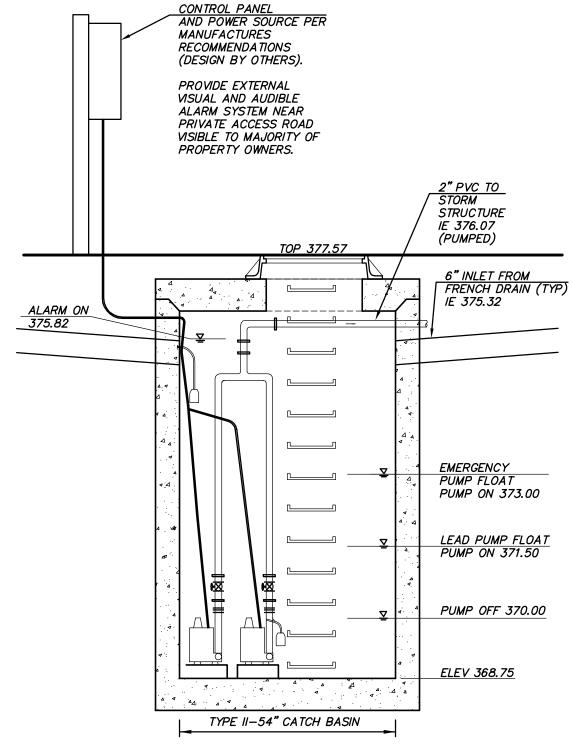


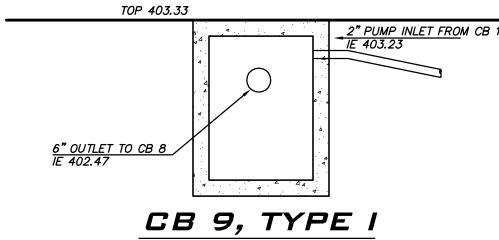
SCALE: 1" = 2'



CB 10, TYPE II-54" PUMP STRUCTURE (PLAN)

SCALE: 1" = 2'





NOT TO SCALE

PUMP MAINTENANCE NOTE

HOMEOWNERS ASSOCIATION (HOA) WILL BE RESPONSIBLE TO MAINTAIN/REPAIR THE PUMP. EASEMENTS AS DESCRIBED BELOW SHALL BE PROVIDED TO MAINTAIN/REPAIR THE PUMP. MAINTENANCE COVENANT SHALL BE PROVIDED TO HOLD HOA RESPONSIBLE TO MAINTAIN/REPAIR THE PUMP (CITY ATTORNEY TO CONFIRM DOCUMENTATION REQUIRED TO HOLD HOA RESPONSIBLE). SUBJECT EASEMENTS AND COVENANTS SHALL BE RECORDED WITH THE FINAL PLAT MAP AND CC&R'S.

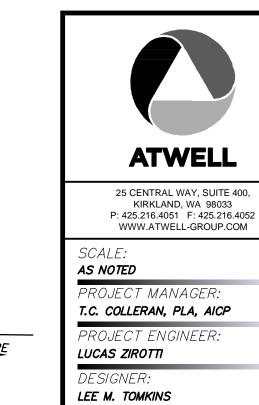
SUBJECT PLAT IS PROVIDING A VARIABLE WIDTH PRIVATE DRAINAGE AND MAINTENANCE ACCESS EASEMENT BETWEEN LOT 5 & 6 AND ALONG THE WEST PORTION OF LOTS 4-7 TO ALLOW ACCESS TO INSPECT/MAINTAIN PUMP AS NECESSARY. PERSONNEL TO INSPECT/MAINTAIN PUMP WILL ACCESS THE VARIABLE WIDTH PRIVATE DRAINAGE AND MAINTENANCE ACCESS EASEMENT FROM TRACT 998, CONTINUE WEST ALONG LOT 5 & 6 SHARED PROPERTY LINE, TRAVEL NORTH TOWARDS LOT 4 TO PROCEED AROUND RETAINING WALLS, AND TRAVEL SOUTH TO THE PUMP STATION.

GROUNDWATER ELEVATION NOTE

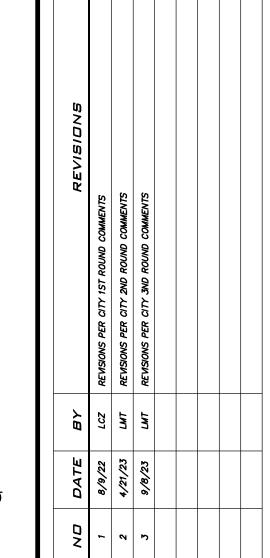
ACCORDING TO THE GROUNDWATER ELEVATION EVALUATION BY COBALT GEOSCIENCES, LLC DATED MARCH 14, 2022, THE GROUNDWATER ELEVATION IN THE SITE VICINITY APPEARS TO BE AT 375 FEET. A COPY OF THE EVALUATION IS PROVIDED UNDER SEPARATE COVER.

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS. SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



ISSUE DATE: 9/8/2023



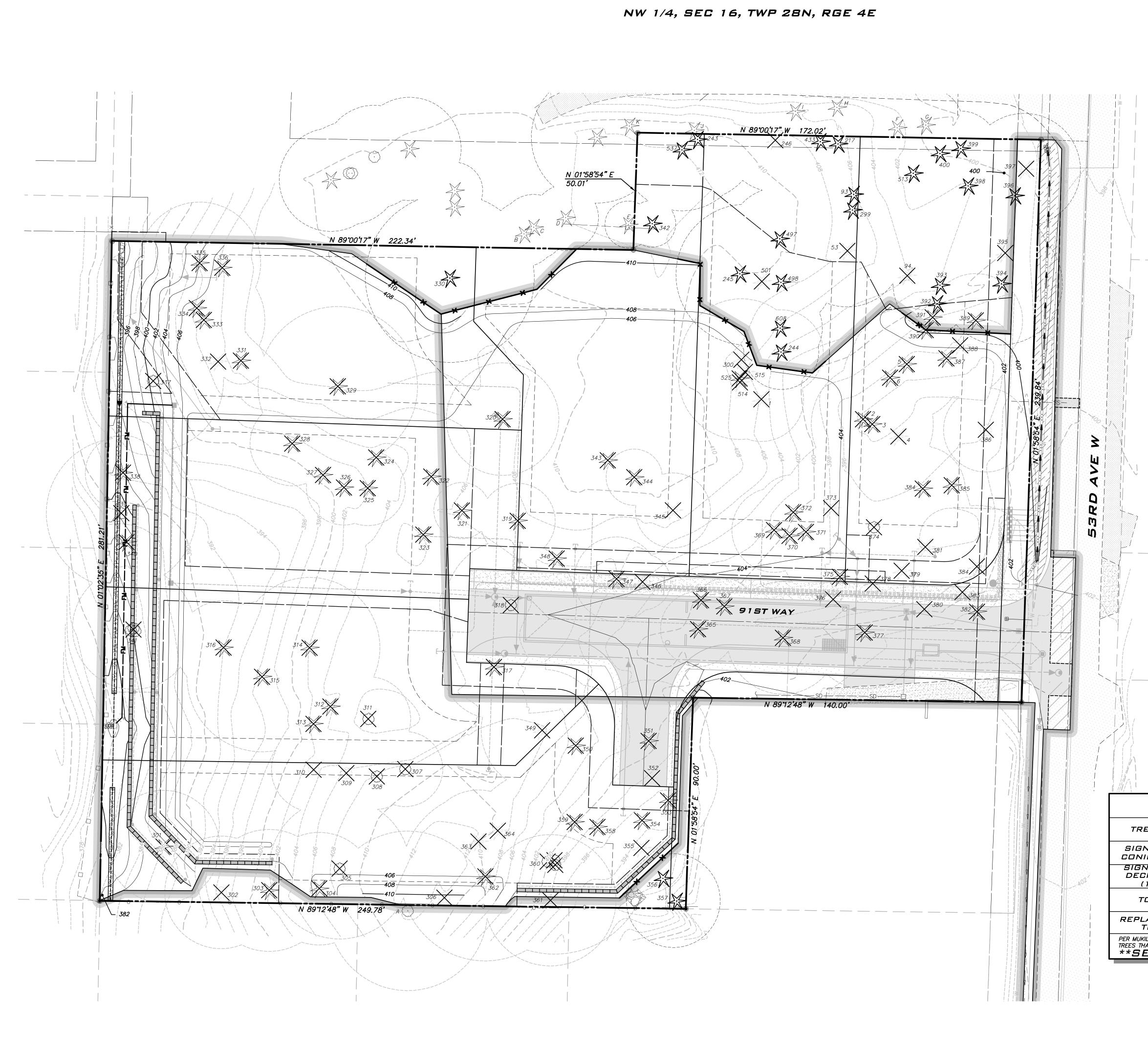
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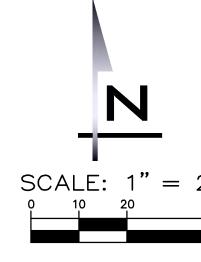


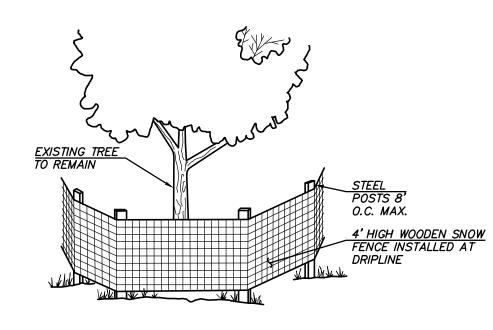
9/8/23

JOB NUMBER: 21-073 SHEET NAME: PS-01

sнт <u>15</u> оғ <u>22</u>

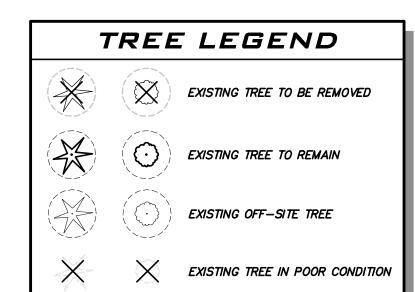






TREE PROTECTION DETAIL

NOT TO SCAL



AVERAGE SLOPE CALCULATION

ELEVATION AT NORTHEAST CORNER = 400 ELEVATION AT SOUTHWEST CORNER = 382 DISTANCE BETWEEN TWO POINTS = 492' AVERAGE SLOPE = 18/492 = 4% AVERAGE GRADE

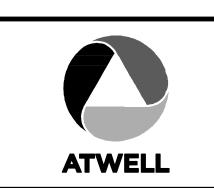
	SUMMARY OF ON-SITE TREE RETENTION														
TREE TYPE	TOTAL	RETAINED	REMOVAL	MIN % SIG TREES REQUIRED PER < 15% SLOPE											
SIGNIFICANT CONIFER (8"+)	83	23	60	SEE BELOW											
SIGNIFICANT DECIDUOUS (12"+)	7	0	7	SEE BELOW											
TOTALS	90	23	67	(25% OF 90) = 22.5 (PER CALCULATIONS ABOVE)											
REPLACEMENT TREES	23 REQUIRED	23 RETAINED													

PER MUKILTEO CITY CODE 15.16.050 TREE RETENTION AND NATIVE VEGETATION RETENTION TABLE. REQUIRED TREES THAT ARE TO BE REMOVED TO BE REPLACED AT A RATE OF 3:1.

**SEE LS-01 FOR REPLACEMENT TREES

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
T.C. COLLERAN, PLA, AICP

T.C. COLLERAN, PLA, AICP
PROJECT ENGINEER:
LUCAS ZIROTTI

DESIGNER:

ISSUE DATE:
9/8/2023

BATE BY REVISIONS PER CITY 1ST ROUND COMMENTS
4/21/23 LMT REVISIONS PER CITY 2ND ROUND COMMENTS
9/8/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

ARBOR GROVE

A SOUTH A SOUT

9/8/23

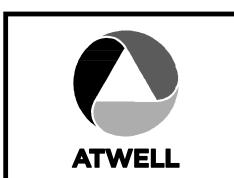
21-073 SHEET NAME: TR-01

sнт <u>16</u> ог <u>22</u>

NW 1/4, SEC 16, TWP 28N, RGE 4E

I																			NW	1/4,	SE	EC 1	6,	TV	/P 2	28N	, RG	3E 4	E				
Tree Species	DBH	Auj.	Drip-	l/ in			Proposed A			rPZ/LOD s in feet	341	Bigleaf maple	22	22	20			Tagged on #340, codominant leaders with included bark x2 @ 10', moss and lichen, typical of		1	20 20	20 20	37	77 D	ouglas fir	38	38 18			ОК	Ivy @ root crown up to 15', free flowing sap, previous top loss, elongated branches, epicormic branch		1 18 18 18
Tag Species ID	(in)	DBH (in)	line Wind- O radius (ft)	ove	Health	Defects/Comments	Viable	Remove	N W	E S	342	III	- °	8	6			species Suppressed canopy, typical of species Co-dominant leaders with	1		6 6	+ + -		78 D	ouglas fir	16	16 15			Poor	formation @ 20' towards east Self-corrected lean towards east, serpentine trunk,		1 15 15 15
						Abnormal bark, shedding bark, popping bark,						Hemlock Western		9	10			included bark x2 @ root crown, typical of species		1	9 9	10 10			auglac						suppressed canopy Serpentine trunk, self- corrected lean towards		
301 Douglas	25	25	15	Y	Fair	previous top loss, elongate branches, woodpecker activity, torque crack @ roo		1	15 15	15 15	344	red cedar Black pine	r ⁹	12	16		Eair	Typical of species Trunk gall, serpentine trunk typical of species Co-dominant leaders with	, 1	1	- -	16 16	37	79	ouglas fir	14	14 12			Poor	south, previous top loss, asymmetric canopy towards south Self-corrected lean towards		1 12 12 12
302 Red alder	20	20	12		Poor	crown up to 15' towards west Dead top, previous top loss	SS 1		12 12	12 12	346	Western red cedai	1 G	9	8			included bark x2 @ 10', typical of species	1		8 8	8 8		D D	ouglas						north, serpentine trunk, previous top loss, elongated		
302 Red alder	20	20	12			@ 30', dead scaffold Exposed roots, cavity @	1		12 12	12 12	347	Hemlock	18	18	12	Y	Fair	Nurse tree @ 6', typical of species Thin canopy, dead wood,		1	12 12	12 12	38	30	fir	16	16 14			Fair	branches, dead wood, broken branches, asymmetric canopy towards	3	1 14 14 14
303 Douglas	42	42	14	Y	Fair	root crown towards west, previous top loss, elongate branches, typical of species		1 :	14 14	14 14	348	Hemlock	18	18	13		OK	broken branches, exposed roots, typical of species Topped @ 30', weak		1	13 13	13 13									south Lean towards north, dead wood, broken branches,		
						woodpecker activity Previous top loss, elongate					349	Douglas fir	29.8	3 29.8	18		Poor	laterals, abnormal bark, shedding bark, popping	1		18 18	18 18	38	31 D	ouglas fir	18	18 16			Fair	dead twigs, moss and lichen, previous top loss,		1 16 16 16
304 Douglas	48	48	18		ок	branches, dead wood, broken branches, typical of species	of	1	18 18	18 18	350	Douglas	34	34	20	_		bark Kink @ 50', dead wood, broken branches, previous		1	20 20	20 20	,		ouglas						Serpentine trunk, asymmetric canopy towards		
305 Bigleaf maple	16.7	16.7	16	Υ	Fair	Co-dominant leaders with included bark x2 @ 6', wea leaders	ak	1	16 16	16 16	350	fir	34	34	20	1		top loss, elongated branches Previous top loss, elongated			20 20	20 20	38	32	fir	22	22 18			ОК	north, dead wood, broken branches, typical of species		1 18 18 18
306 Red alder	10.4	10.4	12			Suppressed canopy, low liv crown ratio <10%, moss and lichen, failing south	ve 1		12 12	12 12	351	Douglas fir	32	32	19		OK	branches, dead wood, broken branches, asymmetric canopy towards		1	19 19	19 19	38	33 D	ouglas fir	29.5 2	9.5 20			Poor	Moss and lichen, serpentine trunk, lean towards east, previous top loss, elongated branches		1 20 20 20
307 Japanese maple	10.7	10.7	14		OK	Moss and lichen, lean towards north, dead wood, broken branches, typical of		1	14 14	14 14	352	Douglas fir	32	32	24			Exposed roots, cavity @ root crown up to 1' towards west, woodpecker activity	1		24 24	24 24	38	34 D	ouglas fir	23.6 2	3.6 16			Fair	Bulge @ 20', low live crown ratio <20%, previous top loss, elongated branches,		1 16 16 16
Japanese						species Moss and lichen, lean towards north, typical of					353	Douglas	18	18	16	,		Calloused wound @ root crown up to 1' towards west, low live crown ratio		1	16 16	16 16	.								lean towards north Previous top loss, elongated	+	
308 maple	10	10	16	Y	r	species, cavity @ 5' up to 6 towards east	6'	1	16 16	16 16		fir						<20%, previous top loss, elongated branches					38	35 D	ouglas fir	21	21 18			OK	branches, dead wood, broken branches, moss and lichen, typical of species		1 18 18 18
309 Japanese maple	10, 8	13	18			Co-dominant leaders with included bark x2 @ 2', cavity on scaffold, dead	1		18 18	18 18	354	Douglas fir	16	16	16		ОК	Dead wood, broken branches, no taper, suppressed canopy, typical		1	16 16	16 16	38	36 Re	d alder	11	11 16			Fair	Lean towards east, moss and lichen		1 16 16 16
Паріє						scaffolds, dead wood, moss and lichen Ivy @ root crown up to 20',												of species Previous top loss @ 30',					38	D'	ouglas	22 5 2	3.5 16			OK/Fai	Low live crown ratio <30%, asymmetric canopy towards south, dead wood, broken	;	1 16 16 16
310 Japanese maple	10	10	18		Fair	lean towards west, moss and lichen, typical of species			18 18	18 18	355	Douglas fir	14	14	12		Fair	strong leader, suppressed canopy, dead wood, broken branches, thin canopy,			12 12	12 12		37	fir	25.5	.5.5			r	branches, co-dominant canopy, typical of species		
311 Madrona	14. 4	14.5	14		ок	Co-dominant leaders with included bark x2 @ root		1	14 14	14 14								asymmetric canopy towards south					38	38 D	ouglas fir	16	16 16			Fair	No taper, kink @ 20', previous top loss @ 40'		1 16 16 16
	- ', '					crown, ivy @ root crown up to 15', typical of species Co-dominant leaders with	р				356	Hemlock	12	12	12	Y		Nurse tree, exposed roots, asymmetric canopy towards east, typical of species	1		12 12	12 12	:	89 D	ouglas	34 2 3	4.2 15		Υ	 Fair	Abnormal bark, shedding bark, popping bark, dead wood, broken branches,		1 15 15 15
312 Western red cedar	16, 8	18	10			included bark x2 @ root crown, ivy @ root crown up to 6', twisted trunk, typical		1 :	10 10	10 10	357	Hemlock	20	20	14	Y		Nurse tree, exposed roots, asymmetric canopy towards	1		14 14	14 14			fir						previous top loss, elongated branches, typical of species		1 10 10 10
						of species Co-dominant leaders with included bark x2 @ root						Tremioek			-	·		west, typical of species Abnormal bark, shedding					_	D D	ouglas	22	22 16		Υ	 Fair	Asymmetric canopy towards west, low live crown ratio <30%, abnormal bark,		1 16 16 16
313 Western red cedar	4, 20	20.5	13	Y	Fair	crown, dead top, ivy @ roo crown up to 30', woodpecker activity	ot	1	13 13	13 13	358	Douglas fir	49.7	49.7	21	Y		bark, popping bark, low live crown ratio <30%, dead wood, broken branches,		1	21 21	21 21		90	fir	22	22 10		'	Tall	shedding bark, horizontal crack @ 6' towards east		
314 Douglas	28	28	15	Υ		Ivy @ root crown up to 10', thin canopy, dead wood, broken branches, typical of		1	15 15	15 15								typical of species Low live crown ratio <20%, asymmetric canopy towards					35	91 D	ouglas fir	29	29 18		Υ	Fair	Low live crown ratio <20%, previous top loss, elongated branches, red ring rot,	1	1 18 18 18
315 Douglas	34	34	18		ОК	species Thin canopy, dead wood, broken branches, ivy @ roo		1	18 18	18 18	359	Douglas fir	34	34	20	Υ		west, previous top loss, elongated branches, calloused wound @ 15'		1	20 20	20 20	39	92 D	ouglas	13	13 12		Υ	Fair	typical of species Suppressed canopy, dead wood, broken branches,		12 12 12
fir						crown up to 20' Ivy @ root crown up to 20',	1,					"						towards south, typical of species, abnormal bark,							fir ouglas		35 18				previous top loss Dead wood, broken branches, previous top loss,	+++	18 18 18
316 Scots pine		14	15			serpentine trunk, moss and lichen, typical of species Nurse tree, thin canopy,	a			15 15		Bigleaf	14,					shedding bark Co-dominant leaders with included bark x3 @ 4',						73	fir	35	35 16			OK	elongated branches Previous top loss, elongated		10 10 10
317 Hemlock 318 Beech	26 18	26 18	21			dead wood, broken branches, typical of species Typical of species	es			21 21 24 24	360	maple	28, 1	.8 36	30	Y	Fair	cavity @ crotch, exposed roots, moss and lichen, hypoxylon canker		1	30 30	30 30	39	94 D	ouglas fir	36.6	6.6 22			ок	branches, asymmetric canopy towards east, dead wood, broken branches,		22 22 22
319 Hemlock			14	Υ	Fair	Thin canopy, dead wood, broken branches, exposed	1			14 14	361	Bigleaf maple	18	18	20		Fair	Previous top loss @ 50', asymmetric canopy towards	1		20 20	20 20									typical of species Abnormal bark, shedding		
320 Western red cedar	44	44	18			roots, typical of species Nurse tree, large cavity up to 8', carpenter ants ,		1 :	18 18	18 18								south, dead scaffolds Co-dominant leaders with					39	95 D	ouglas fir	22	22 16			Poor	bark, previous top loss @ 6', dead spur, asymmetric canopy towards east, taps	,	1 16 16 16
321 Eastern white pine	8, 4,	12.5	10			typical of species Co-dominant leaders with included bark x4 @ root		1 :	10 10	10 10	362	Douglas fir	14. 4	0 42.5	24			included bark x2 @ root crown, abnormal bark, shedding bark, popping			24 24	24 24	.								hollow Suppressed canopy,		-
322 Douglas	10	10	10		ОК	crown, typical of species Dead wood, broken branches, typical of species	96	1 :	10 10	10 10		fir						bark, woodpecker activity, previous top loss, elongated branches, typical of species					39	96	ouglas fir	11	11 12			OK	previous top loss, lean towards east, asymmetric canopy towards east	1	12 12 12
323 Douglas	10	10	14			Thin canopy, low live crowr ratio <30%, typical of species		1 :	14 14	14 14								Previous top loss @ 50', weak leader, abnormal					39	97 D	ouglas fir	15	15 16			Fair	Thin canopy, dead wood, broken branches, asymmetric canopy towards	3	1 16 16 16
324 Douglas fir	10	10	14	Υ	Ган	Thin canopy, co-dominant canopy, typical of species		1	14 14	14 14	363	Douglas fir	28	28	28		1000	bark, shedding bark, popping bark, failing towards north, laminated	1		28 28	28 28		D'	ouglas					0.4	northeast Previous top loss, elongated branches, dead wood,		
325 Douglas	4, 12	12.5	14		ок	Co-dominant leaders with included bark x2 @ root crown, failing south, thin		1 :	14 14	14 14								root rot? No taper, abnormal bark,						50	fir	42	42 22			OK	broken branches, typical of species Previously girdled with wire		22 22 22
326 Western red cedar	14	14	14			canopy, typical of species Thin canopy, typical of species		1 :	14 14	14 14	364	Douglas fir	18	18	18			shedding bark, popping bark, previous top loss, elongated branches,	1		18 18	18 18		4	fir	-	9 14			Poor	@ 4', free flowing sap Suppressed canopy,		1 14 14 14
327 Western red cedar Western	9	9	13			Typical of species Thin canopy, typical of				13 13	265	Hemlock	1.5	1.5	14		ОК	laminated root rot? Asymmetric canopy towards north, dead wood, broken	3		14 14	14 14			fir	13.8 1	3.8 8		Υ	Fair	serpentine trunk, dead wood, broken branches Previous top loss, elongated	1	8 8 8
red cedar	8	8	10		ОК	species Previous top loss, elongate	ed	1	10 10	10 10	303	Heimock	15	15	14			branches, exposed roots, typical of species Dead wood, broken			14 14	14 14	40	00 D	ouglas fir	26.2 2	6.2 18		Υ	Fair	branches, dead wood, broken branches, typical of species	1	18 18 18
329 Douglas fir	72	72	45		ок	branches, scraping wound 30' up to 40' towards east, typical of species		1 4	45 45	45 45	366	Hemlock		7	8	Y		branches, suppressed canopy Dead wood, broken		1	8 8	8 8	51	13 D	ouglas	28.8 2	8.8 18			ОК	Low live crown ratio <30%, previous top loss, elongated branches, dead wood,	1	18 18 18
330 Douglas						Previous top loss, elongate branches, dead wood,	ed				367	Douglas fir	14	14	14	Y		branches, suppressed canopy, typical of species Dead wood, broken		1	14 14	14 14	.		fir ouglas						broken branches, typical of species Suppressed canopy, thin	1	
fir	61	61	45		OK	broken branches, previous ivy @ root crown up to 50'			45 45	45 45	368	Douglas fir	32	32	18		OK	branches, previous top loss, elongated branches, typical		1	18 18	18 18	9	3	fir	8	8		Y	Fair	canopy Ivy @ root crown up to 25', co-dominant canopy,	1	8 8 8
331 Western red cedar	14	14	14		ок	Thin canopy, typical of species Dead wood, broken		1	14 14	14 14		Douglas						of species Kink @ 25', asymmetric canopy towards west,						99 D	ouglas fir	24	24 18		Υ	Fair	asymmetric canopy towards west, previous top loss,	. 1	18 18 18
332 Norway spruce	8	8	8			branches, spruce adelgid, ivy @ root crown up to 50' Previous ivy @ root crown			8 8	8 8	369	Douglas fir	26	26	16		Fair	previous top loss, elongated branches, self-corrected lean			16 16	16 16	5 5	3 D	ouglas	26	26 20			Poor	elongated branches Self-corrected lean towards north, woodpecker activity,	+	1 20 20 20
333 Douglas	35	35	22	Y	Fair	up to 80', racoon scat, deadwood, broken branches,	ad	1 .	22 22	22 22	370	Douglas fir	13	13	12			Previous top loss @ 30', moss and lichen, failing towards south	1		12 12	12 12			fir		20 20			1 001	carpenter ants, dead wood, broken branches	_	
						previous top loss, elongate branches Asymmetric canopy toward					371	Douglas	21.5	5 21.5	18			Dead wood, broken branches, previous top loss, elongated branches, low live		1	18 18	18 18		17 D	ouglas	30	30 22		Y	 Fair	Girdled by barb wire fencing @ 4', co-dominant canopy, low live crown ratio <30%,		22 22 22
334 Douglas	32	32	22		ок	east, previous top loss, elongated branches, dead wood, broken branches,		1	22 22	22 22			+					crown ratio <30% Asymmetric canopy towards							τır				-		previous top loss, elongated branches, dead wood, broken branches		
335 Douglas	8	8	12			typical of species Asymmetric canopy toward west, perennial canker,	ds	1	12 12	12 12	372	Western red cedai		18	14		OK	west, dead top, co-dominant canopy, typical of species		1	14 14	14 14	43	33 D	ouglas	16	16 10		Y	Fair	Suppressed canopy, asymmetric canopy towards	, 1	10 10 10
fir Douglas	-	-				typical of species Asymmetric canopy toward					373	Western		31	14		Fair	Cavity @ root crown up to 6 towards east, previous top	1		14 14	14 14			TIF			+	-		south, no taper, typical of species Previous top loss, elongated	-	
336 Bodgias fir	8	8	8			west, ivy @ root crown up t 20', typical of species		1	8 8	8 8		red cedai	<u> </u>		-			loss @ 10', weak leader, co- dominant canopy Co-dominant leaders with					_ 24	46 D	ouglas fir	22	22 18			ок	branches, asymmetric canopy towards west, dead		1 18 18 18
337 Bigleaf maple	30	30	18			Moss and lichen, typical of species, slight lean towards west		1	18 18	18 18	374	Bigleaf maple	36, 1	.2 38	21		OK	included bark x2 @ root crown, moss and lichen, dead wood, broken			21 21	21 21									wood, broken branches, typical of species Asymmetric canopy towards	<u> </u>	
338 Douglas	13	13	14			Low live crown ratio <30%, previous top loss, elongate branches, typical of species	ed	1	14 14	14 14		mapie						branches, hanger, typical of species					_ 24	43 D	ouglas fir	22	22 18		Υ	Fair	east, dead wood, broken branches, previous top loss,		18 18 18
339 Bigleaf maple	22	22	18		ОК	Moss and lichen, typical of species		1	18 18	18 18		Douglas fir	16	16	15		OK	Low live crown ratio <5%, previous top loss, elongated branches, dead wood,			15 15	15 15			111						elongated branches, exposed roots, moss and lichen		
340 Lodgepole	16	16	18	Υ		Woodpecker activity, horizontal crack @ 12' towards east, asymmetric		1	18 18	18 18	375	'"	-					broken branches, typical of species Co-dominant leaders with					53	37 D	ouglas fir	36	36 18			ОК	Ivy @ root crown up to 15', hanger, dead wood, broken branches, typical of species		18 18 18
pine				-		canopy towards south, typical of species					376	Douglas fir	12, 1	.6 20	14			included bark x2 @ root crown, previous top loss, dead wood, broken	1		14 14	14 14	. 49	97 D	ouglas	19.7 1	9.7 18		Y	Fair	Ivy @ root crown up to 30', pin point crack @ 5', free flowing sap, dead wood,		18 18 18
© 2023 ATWELL N	w																	branches, asymmetric canopy towards west						,	fir	10.7	.5., 16		1	, i aii	broken branches, previous top loss, elongated branches		10 10 10

498	Douglas fir	14	14	16		ОК	Suppressed canopy, dead wood, broken branches, self-corrected lean towards west, hanger, typical of species	1			16	16	16	16
501	Douglas fir	24.5	24.5	18		Fair	Carpenter ants, woodpecker activity, taps hollow, asymmetric canopy towards west, lean towards west		1		18	18	18	18
245	Douglas fir	39	39	18	Y	Fair	Co-dominant leaders with included bark x2 @ 8', dead wood, broken branches, hanger, previous top loss, elongated branches	1			18	18	18	18
608	Douglas fir	16	16	10		ок	Suppressed canopy, dead wood, broken branches, typical of species	1			10	10	10	10
244	Douglas fir	16	16	16	Y	Fair	Asymmetric canopy towards south, scraping wound towards south, dead wood, broken branches, thin canopy	1			16	16	16	16
300	Douglas fir	35	35	16		Poor	Free flowing sap from cracks, bulge @ 8'		1		16	16	16	16
515	Douglas fir	16	16	8		Poor	Mostly dead		1		8	8	8	8
525	Douglas fir	26.1	26.1	18	Y	Fair	Co-dominant canopy, asymmetric canopy towards west, dead wood, broken branches			1	18	18	18	18
514	Douglas fir	32.5	32.5	18		Fair	Ivy @ root crown up to 35', dead wood, broken branches, previous top loss, elongated branches		1		18	18	18	18
1	Douglas fir	18	18	18		Poor	Lean towards south, serpentine trunk, asymmetric canopy towards south		1		18	18	18	18
2	Douglas fir	16	16	12	Y	Fair	Lean towards south, low live crown ratio <20%, previous top loss, elongated branches			1	12	12	12	12
3	Douglas fir	28	28	16		OK	Lean towards south, self- corrected lean towards north, asymmetric canopy towards south, dead wood, broken branches, typical of species			1	16	16	16	16
4	Douglas fir	18	18	18		Fair	Self-corrected lean towards north, low live crown ratio <5%		1		18	18	18	18
5	Douglas fir	21	21	18	Y	Fair	Previous top loss, elongated branches, dead wood, broken branches, dead twigs, low live crown ratio < 30%			1	18	18	18	18
6	Douglas fir	43.7	43.7	22		ОК	Previous top loss, elongated branches, asymmetric canopy towards south, nurse tree			1	22	22	22	22



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
T.C. COLLERAN, PLA, AICP

PROJECT ENGINEER:

T.C. COLLERAN, PLA, AICP

PROJECT ENGINEER:

LUCAS ZIROTTI

DESIGNER:

LEE M. TOMKINS

ISSUE DATE:

B/9/22 LCZ REVISIONS PER CITY 1ST ROUND COMMENTS
4/21/23 LMT REVISIONS PER CITY 2ND ROUND COMMENTS
9/8/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

9/8/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

RETENTION DETAILS

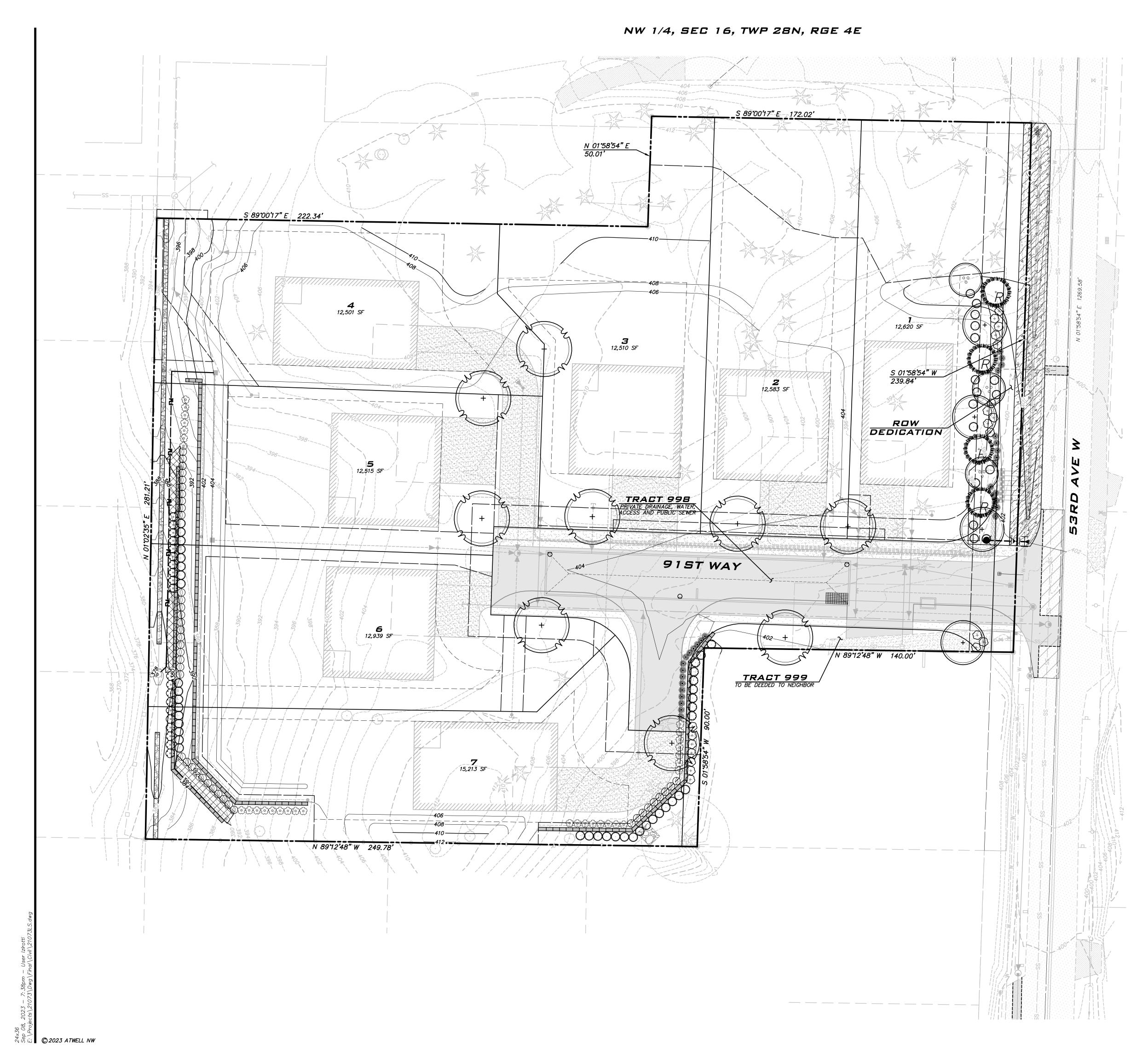
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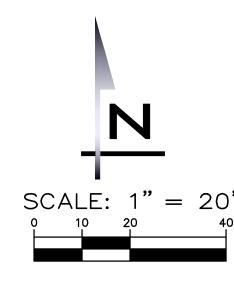
EXISTING UTILITY NOTE

JOB NUMBER: 21-073 SHEET NAME:

TR-02

sнт <u>17</u> ог <u>22</u>





PLANT SCHEDULE

<u>IREES</u>	<u>QTY</u>	BOTANICAL / COMMON NAME
	3	ACER CIRCINATUM VINE MAPLE
(+ k	9	ACER RUBRUM 'FRANKSRED' TM RED SUNSET MAPLE
•	4	CERCIDIPHYLLUM JAPONICUM KATSURA TREE
REPLACEMENT TREES	<u>QTY</u>	BOTANICAL / COMMON NAME
P. C.	4	THUJA PLICATA 'EXCELSA' WESTERN RED CEDAR
<u>SHRUBS</u>	<u>QTY</u>	BOTANICAL / COMMON NAME
	42	CORNUS SERICEA 'ARTIC FIRE' ARTIC FIRE DOGWOOD
0	9	LONICERA INVOLUCRATA TWINBERRY
(+)	20	LONICERA NITIDA 'BAGGESEN'S GOLD' BOXLEAF HONEYSUCKLE
※	55	PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS
	20	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC
©	<i>36</i>	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY
0	48	VACCINIUM OVATUM EVERGREEN HUCKLEBERRY
<u>GROUND COVERS</u>	<u>QTY</u>	BOTANICAL / COMMON NAME
	-4,692	COTONEASTER DAMMERI 'CORAL BEAUT' CORAL BEAUTY COTONEASTER

RAIN GARDEN

7.7.74	
11/1/1	
1/1/11/11	

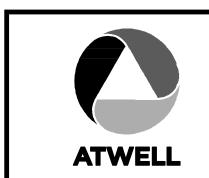
RAIN GARDEN PLANTS PER SW-047 2,494 SF

SOIL AMENDMENT NOTE

POST-CONSTRUCTION SOIL QUALITY DEPTH PER DETAIL ON SHEET DT-03 SHALL BE APPLIED TO ALL NEW/REPLACED LAWN AND LANDSCAPED SURFACES.

EXISTING UTILITY NOTE

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

SCALE: AS NOTED

PROJECT MANAGER:
T.C. COLLERAN, PLA, AICP
PROJECT ENGINEER:

LUCAS ZIROTTI

DESIGNER:
LEE M. TOMKINS

ISSUE DATE:

DATE BY REVISIONS

8/9/22

LCZ REVISIONS PER CITY 1ST ROUND COMMENTS

4/21/23

LMT REVISIONS PER CITY 2ND ROUND COMMENTS

9/8/23

LMT REVISIONS PER CITY 3ND ROUND COMMENTS

IARBOR GROVE CIVIL PLANS

9/8/23

21-073 SHEET NAME: LS-01

внт <u>18</u> оғ <u>22</u>

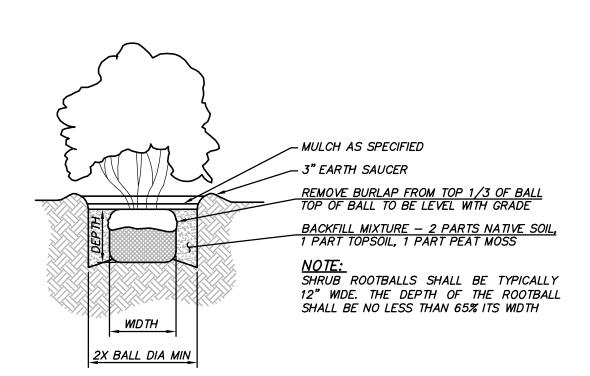
PLANT SCHEDULE

PLANT SC						
<u>REES</u>	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CONT</u>	<u>SIZE</u>		
	3	ACER CIRCINATUM VINE MAPLE	B & B	2" CAL		
	9	ACER RUBRUM 'FRANKSRED' TM RED SUNSET MAPLE	B & B	2" CAL		
+	4	CERCIDIPHYLLUM JAPONICUM KATSURA TREE	B & B	2" CAL		
EPLACEMENT TREES	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CONT</u>	<u>SIZE</u>		
TO THE PARTY OF TH	4	THUJA PLICATA 'EXCELSA' WESTERN RED CEDAR	B & B	8' MIN PLANTED HT.		
HRUBS	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>HEIGHT</u>	<u>SPACING</u>	
	42	CORNUS SERICEA 'ARTIC FIRE' ARTIC FIRE DOGWOOD	5 GAL		42" o.c.	
Karan S	9	LONICERA INVOLUCRATA TWINBERRY	5 GAL		48" o.c.	
+	20	LONICERA NITIDA 'BAGGESEN'S GOLD' BOXLEAF HONEYSUCKLE	5 GAL		48" o.c.	
**	55	PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS	1 GAL		36" o.c.	
\odot	20	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	5 GAL		48" o.c.	
	<i>36</i>	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY	3 GAL		42" o.c.	
O	48	VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	5 GAL		48" o.c.	
ROUND COVERS	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CONT</u>	<u>SIZE</u>	<u>SPACING</u>	<u>DETAIL</u>
	4, 692 -	COTONEASTER DAMMERI 'CORAL BEAUTY' CORAL BEAUTY COTONEASTER	FLAT		4" o.c.	

RAIN GARDEN

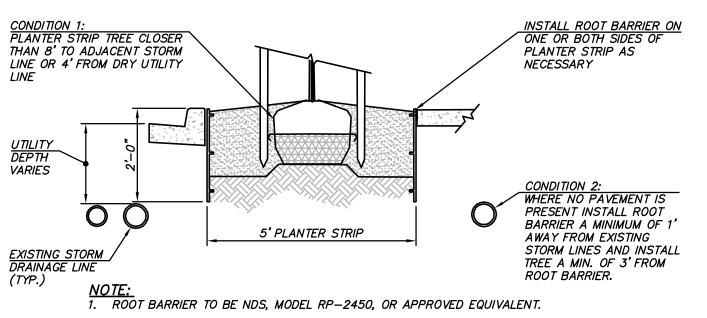


RAIN GARDEN PLANTS PER SW-047 2,494 SF



SHRUB DETAIL

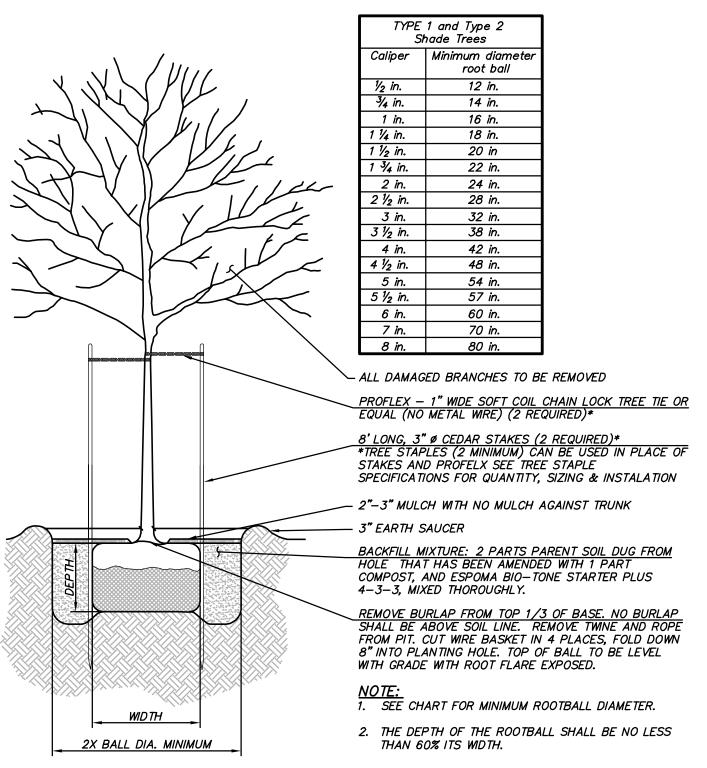
NOT TO SCALE



- 2. INSTALL PRODUCT PER MANUFACTURER'S SPECIFICATIONS.
- 3. INSTALL PRODUCT A MINIMUM OF 3' BEYOND CENTER OF TREE IN EACH DIRECTION PARALLEL TO UTILITY LINE.
- 4. ALL TREES LOCATED WITHIN PLANTER STRIPS TO RECEIVE ROOT BARRIER.

ROOT BARRIER DETAIL

NOT TO SCALE

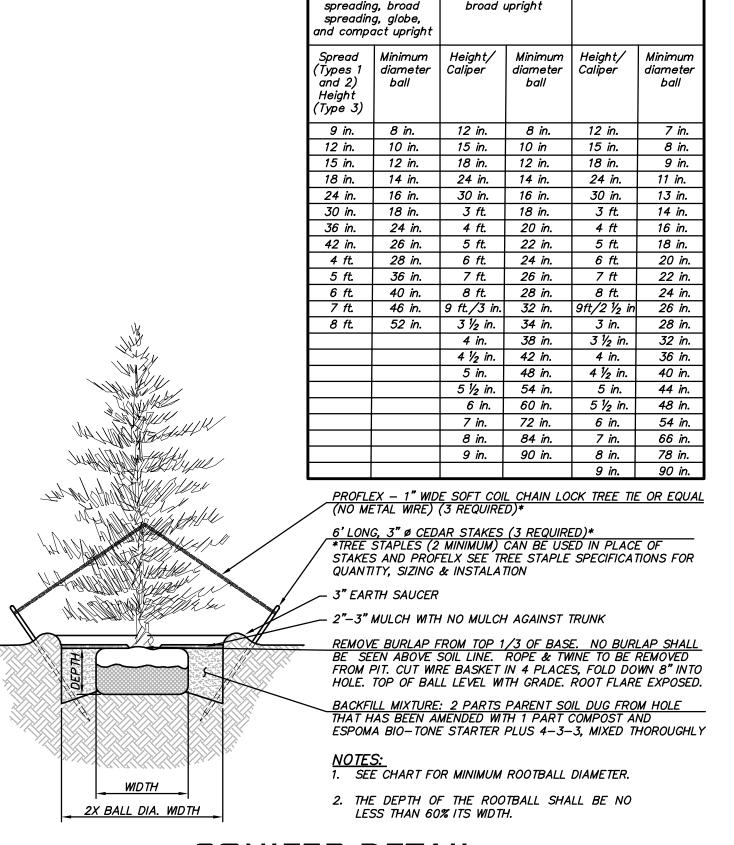


DECIDUOUS DETAIL

Spreading, semi-

Columnar

NOT TO SCALE



CONIFER DETAIL

NOT TO SCALE

LANDSCAPE NOTES:

- 1. IN THE EVENT THAT ANY DISCREPANCIES BETWEEN THE QUANTITIES OF PLANTS INDICATED ON THE PLANT SCHEDULE AND THOSE INDICATED ON THE PLAN, THE QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.
- 2. NO SUBSTITUTIONS SHALL BE ACCEPTED, EXCEPT WITH THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.
- 3. THE LANDSCAPE ARCHITECT OR HIS AGENT SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF THE MATERIALS. ALL REJECTED MATERIALS SHALL BE IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST.
- 4. ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 3" SHREDDED BARK MULCH OR OTHER MATERIAL APPROVED BY THE LANDSCAPE ARCHITECT. ALL PROPOSED PLANT MATERIAL SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL BE IN HEALTHY AND VIGOROUS CONDITION. ANY PLANT MATERIAL WHICH DIES WITHIN THAT PERIOD SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES OF PLANT MATERIAL
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.
- 6. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
- 7. THE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITION CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.
- 8. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI 260 (MOST RECENT EDITION) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. INC.
- 9. B & B PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOT BAL ONLY. PLANTS WITH BROKEN, SPLIT OR DAMAGED ROOT BALLS SHALL BE REJECTED.
- 10. TREES SHALL BE LOCATED IN A MANNER WHICH WILL NOT OBSTRUCT ACCESS TO FIRE HYDRANT OR VISIBILITY OF STREET OR TRAFFIC SIGNS.
- 11. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITION ARE SUITABLE.
- 12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANTS IN THE CENTER OF THE PLANTING PIT.
- 13. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING IN ACCORDANCE WITH THE PLANTING DETAILS.
- 14. THE LOCATION OF ALL PLANT MATERIAL IS DIAGRAMMATIC. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.
- 15. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING UPON THE PERFORMANCE OF THE WORK.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR UTILITY LOCATIONS, IF NECESSARY.
- 17. AMENDED SOIL AS REQUIRED IN ALL LANDSCAPED AREAS (OTHER THAN BIORETENTION AREAS). SOIL MUST MEET WA STATE DEPARTMENT OF ECOLOGY BMP T5.13.



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

AS NOTED

PROJECT MANAGER:
T.C. COLLERAN, PLA, AICP
PROJECT ENGINEER:
LUCAS ZIROTTI
DESIGNER:

DESIGNER:
LEE M. TOMKINS
ISSUE DATE:

ND DATE BY REVISIONS PER CITY 1ST ROUND COMMENTS

2 4/21/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

3 9/8/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

3 9/8/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

ARBOR GROVE

CIVIL PLANS

9110 53RD AVE W

MASSING PROPERTY ON A L

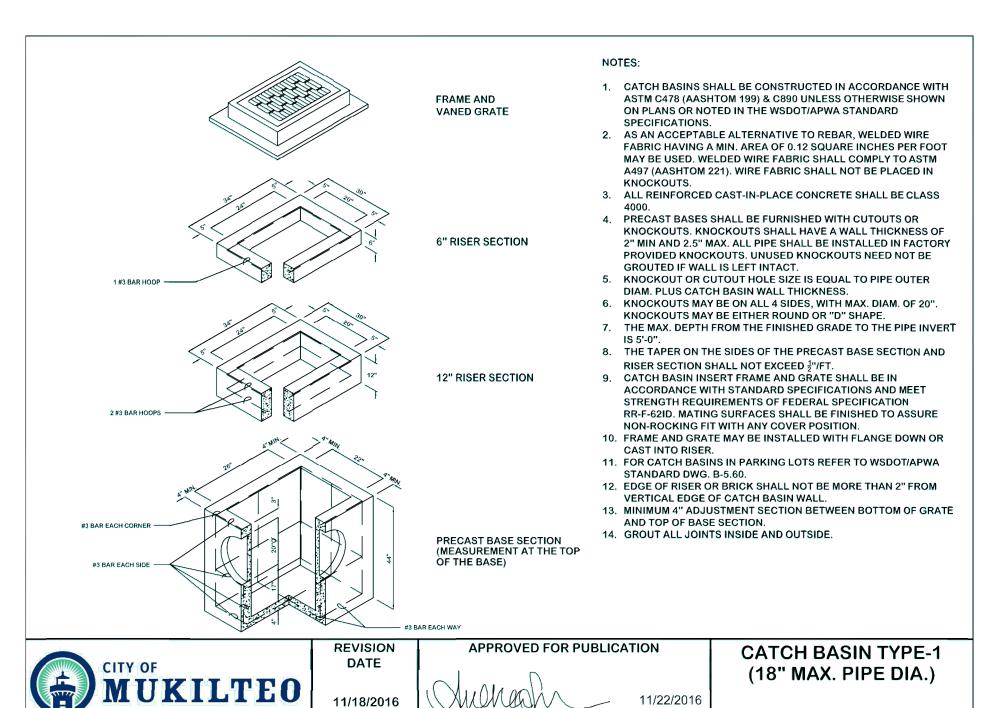
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9/8/23

SHEET NAME: LS-02

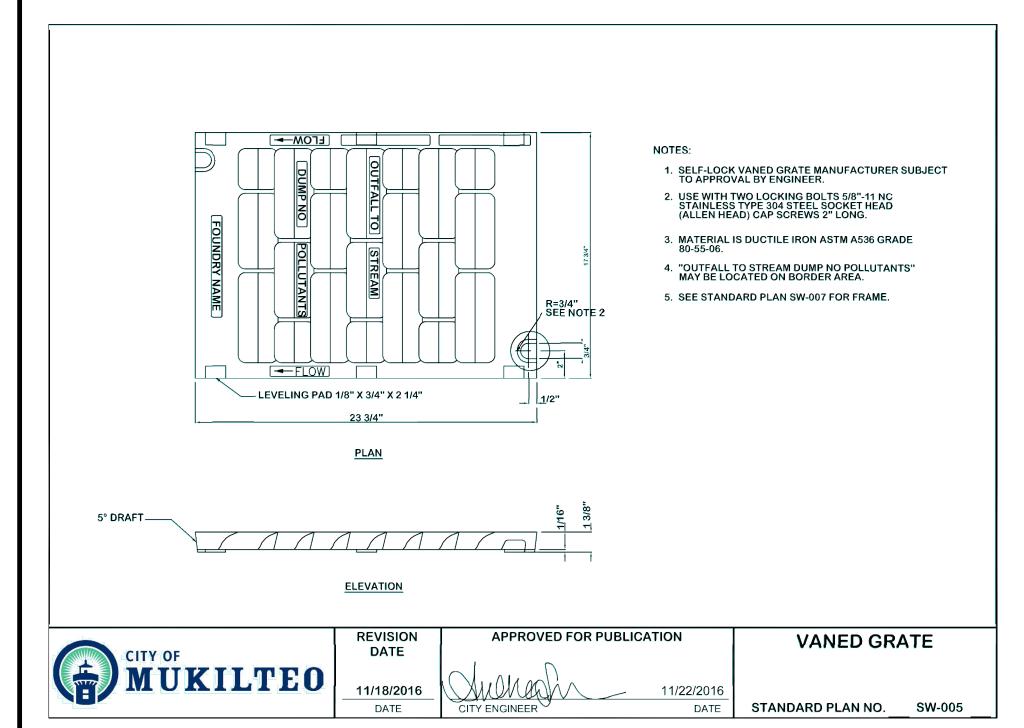
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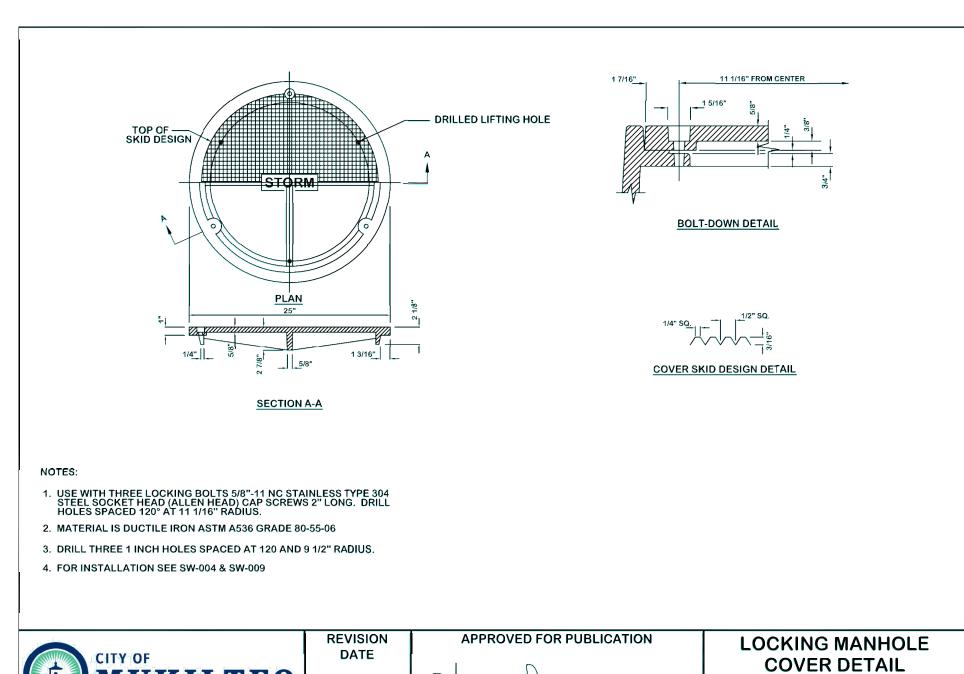
DATE

STANDARD PLAN NO. SW-001

STANDARD PLAN NO. SW-012

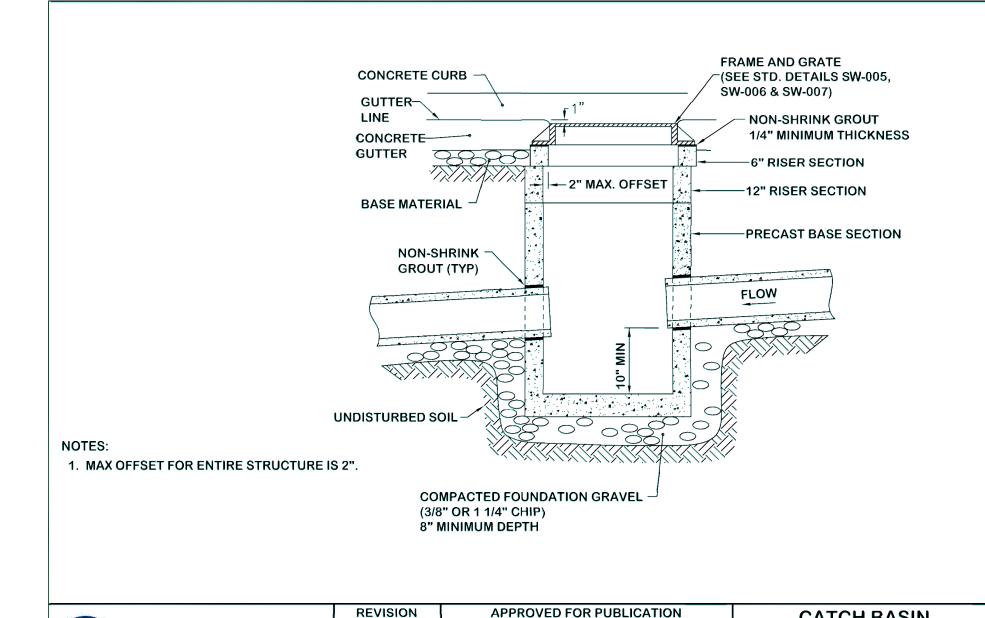


CITY ENGINEER



CITY ENGINEER

11/18/2016



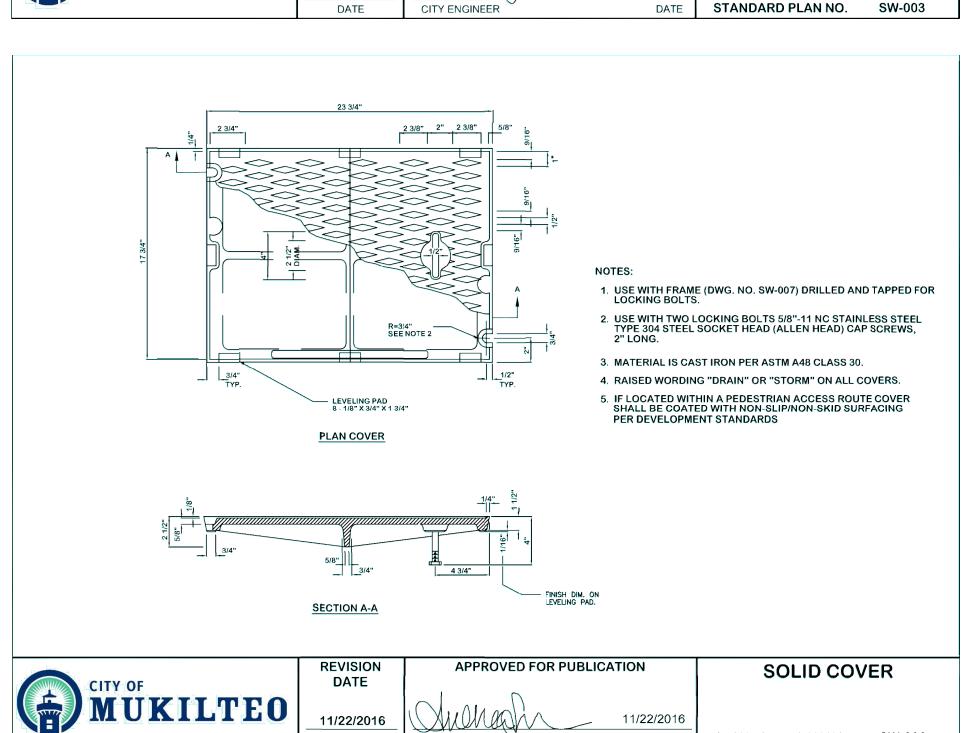
CITY ENGINEER

DATE

11/18/2016

MUKILTEO

NW 1/4, SEC 16, TWP 28N, RGE 4E



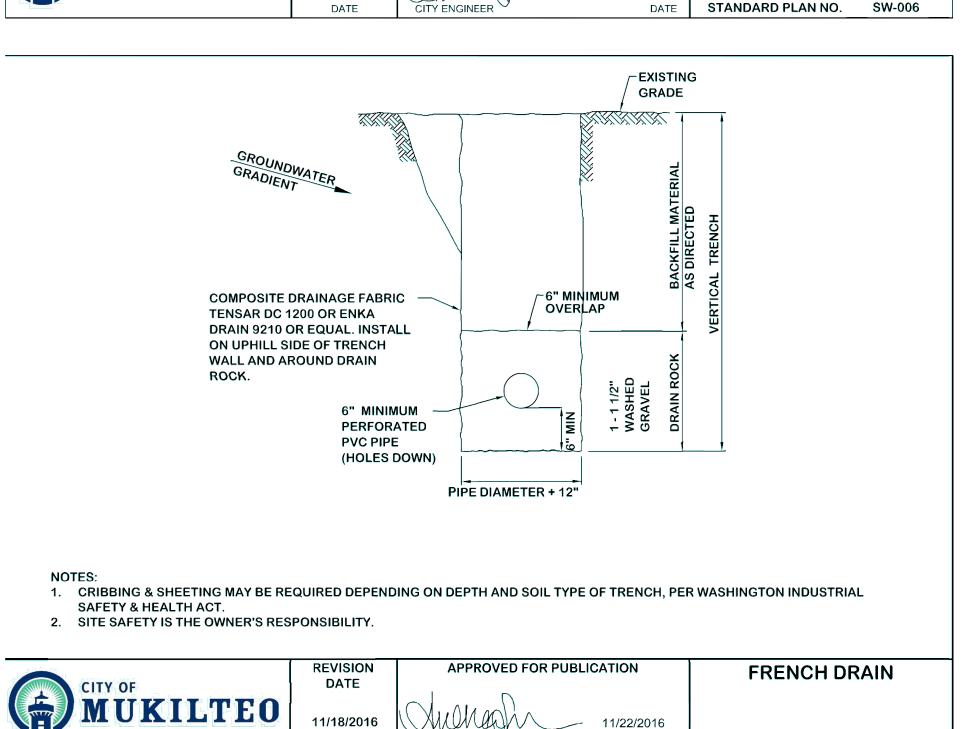
CATCH BASIN

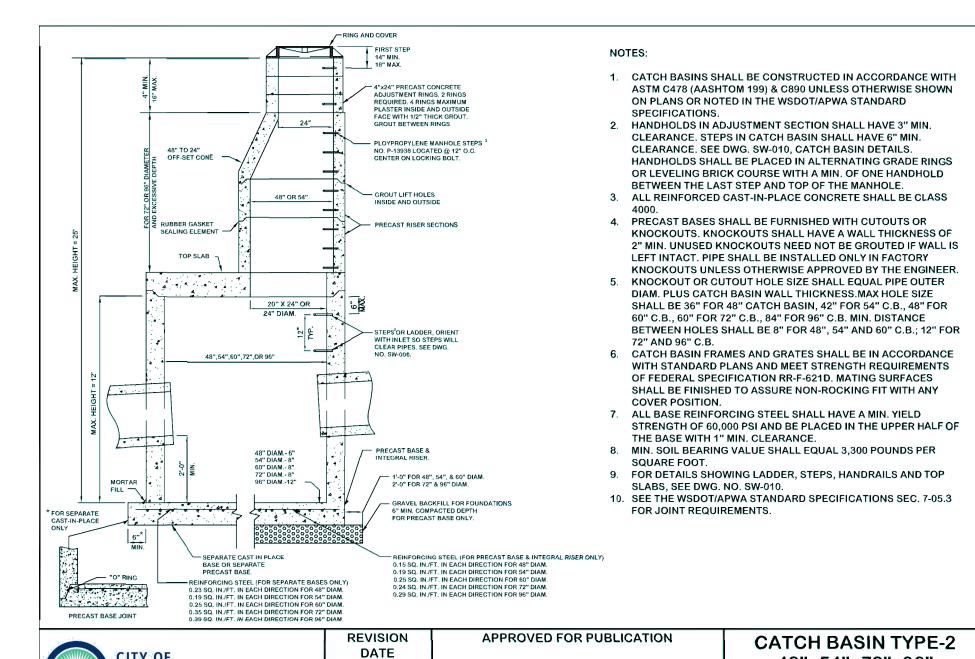
INSTALLATION DETAIL

TYPE 1 & 1L

STANDARD PLAN NO. SW-017

11/22/2016

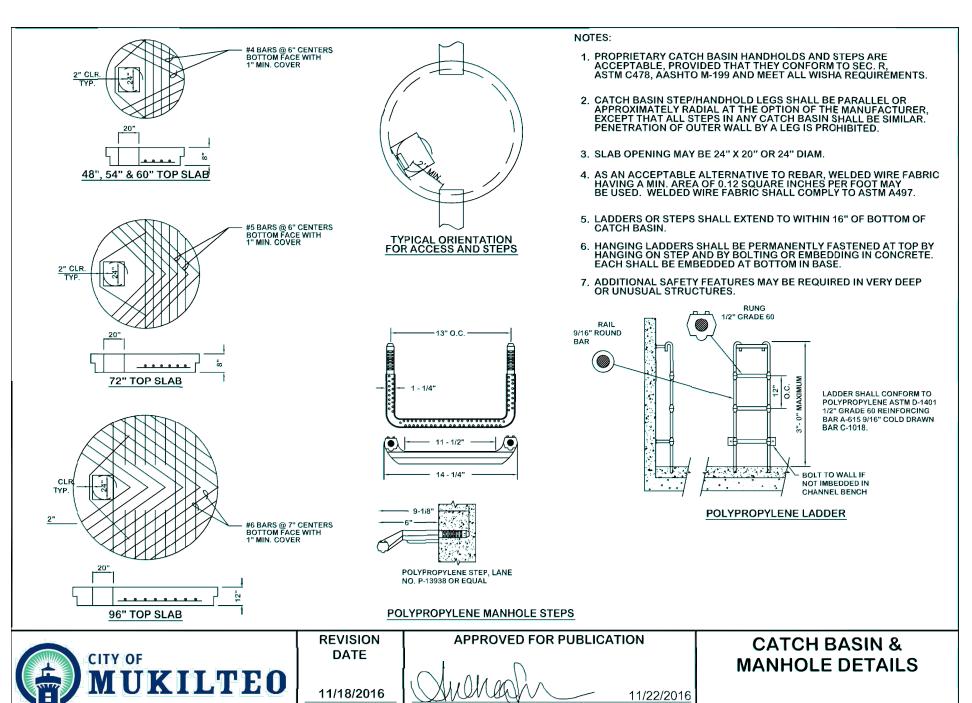




CITY ENGINEER

11/18/2016

11/18/2016





25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.ATWELL-GROUP.COM

SCALE: AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP

PROJECT ENGINEER: LUCAS ZIROTTI DESIGNER: LEE M. TOMKINS

'SSUE DATE:

9/8/2023

48", 54", 72", 96"

STANDARD PLAN NO. SW-004

STANDARD PLAN NO. SW-010

11/22/2016

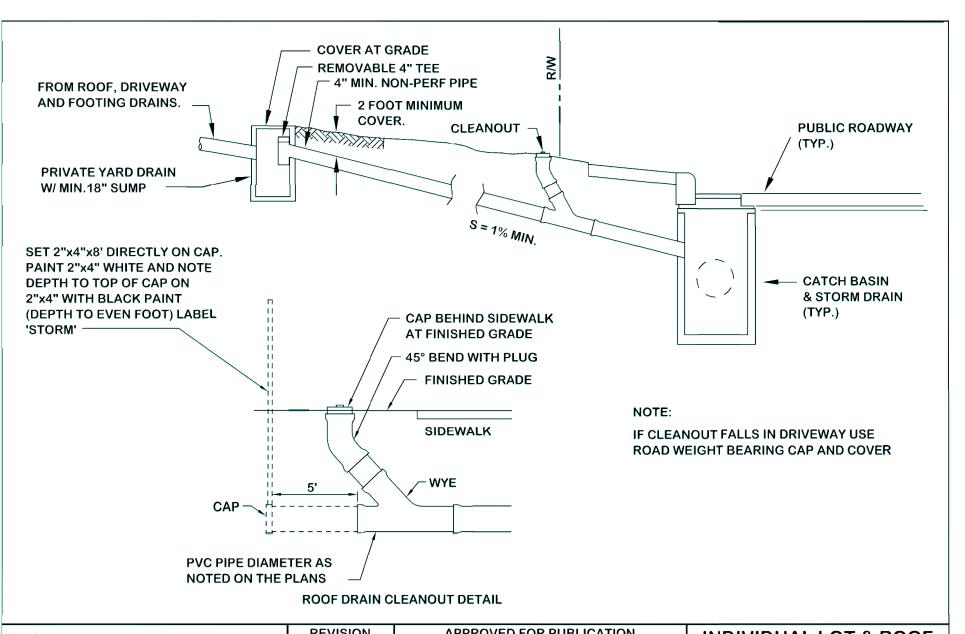
9/8/23

JOB NUMBER: 21-073 SHEET NAME: DT-01

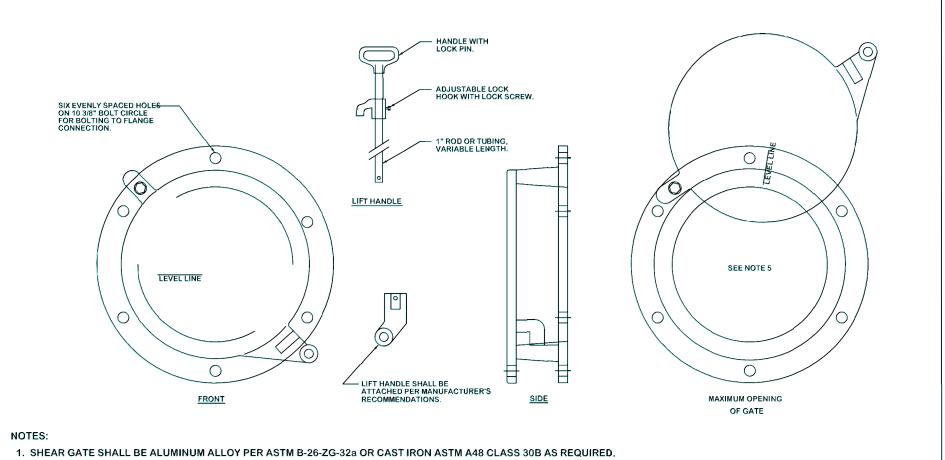
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APPROVED FOR PUBLICATION **INDIVIDUAL LOT & ROOF** DRAIN PLAN DETAILS 11/18/2016 STANDARD PLAN NO. SW-018 CITY ENGINEER



- 2. GATE SHALL BE 8" DIAM. UNLESS OTHERWISE SPECIFIED.
- 3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS. 4. LIFT ROD: AS SPECIFIED BY MFR. WITH HANDLE EXTENDING TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.
- 5. GATE SHALL NOT OPEN BEYOND THE CLEAR OPENING BY LIMITED HINGE MOVEMENT, STOP TAB, OR SOME OTHER DEVICE.
- 6. NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.
- 7. MATING SURFACES OF LID AND BODY TO BE MACHINED FOR PROPER FIT 8. FLANGE MOUNTING BOLTS SHALL BE 3/8" DIAM. STAINLESS STEEL
- 9. ALTERNATE CLEANOUT/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE, PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8" BOLT CIRCLEFOR BOLTING TO THE FLANGE CONNECTION.



ASPHALT OR CONCRETE PAVEMENT:

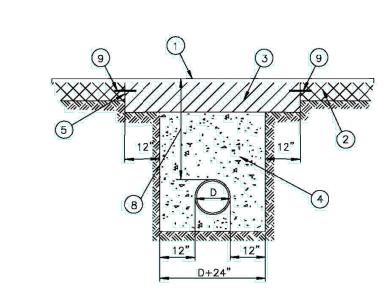
- 1. A 2" HMA OVERLAY
- EXISTING PAVEMENT.
- 3. TRENCH 6" OF HMA OR MATCH EXISTING ASPHALT, WHICHEVER IS GREATER, PER WSDOT STANDARD SPECIFICATIONS SECTION 5-04. CONCRETE, RESTORATION SHALL BE IN ACCORDANCE WITH SECTION 5-05 OF THE WSDOT/APWA SPECIFICATIONS.

4. NATIVE MATERIAL, BANK RUN GRAVEL, CSTC OR CONTROL DENSITY FILL

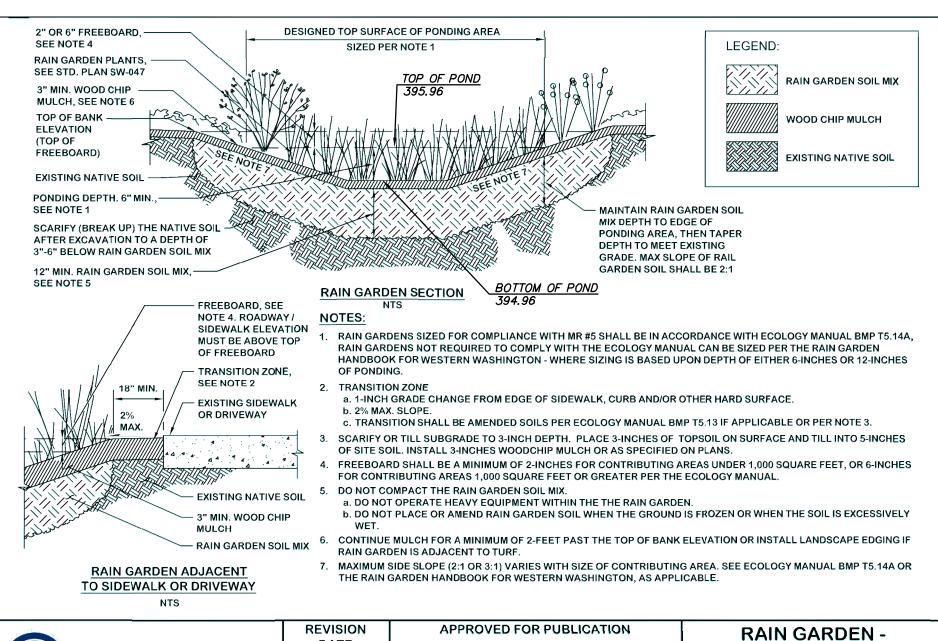
- (CDF) A MINIMUM OF 6" FROM TOP OF EXISTING ASPHALT.
- 5. NEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER CSS-1 & SEAL WITH HOT ASPHALT CEMENT.
- BE ACCOMPLISHED BY USING ASPHALT, OR STEEL PLATES. 7. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER WSDOT STANDARD SPECIFICATIONS

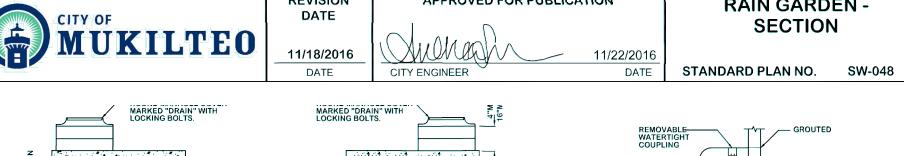
6. TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL

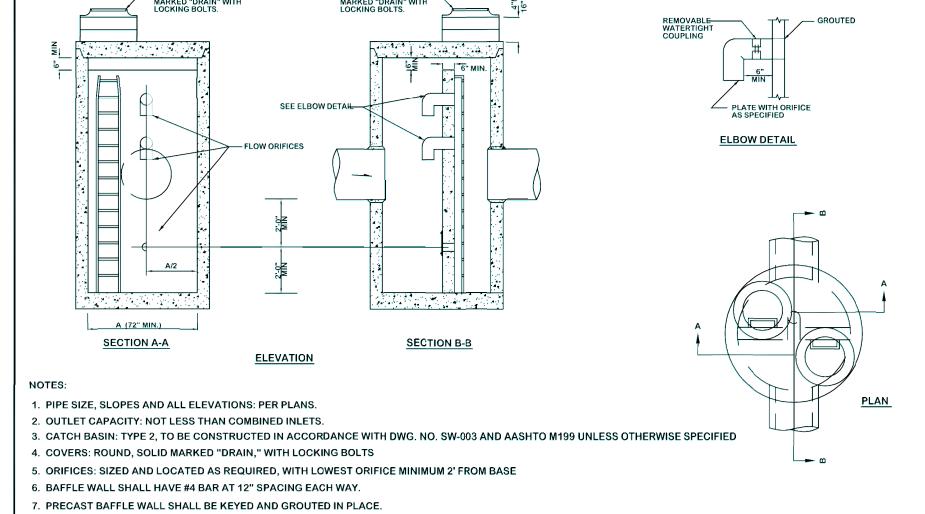
- 8. COVER DEPTH OVER UNDERGROUND UTILITIES SHALL CONFORM TO FEDERAL AND STATE REGULATIONS.
- 9. TRENCHES IN CONCRETE PAVEMENT SHALL BE RESTORED USING TIE BARS OR DOWEL BARS IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-04.



UTILITY TRENCH RESTORATION DETAIL







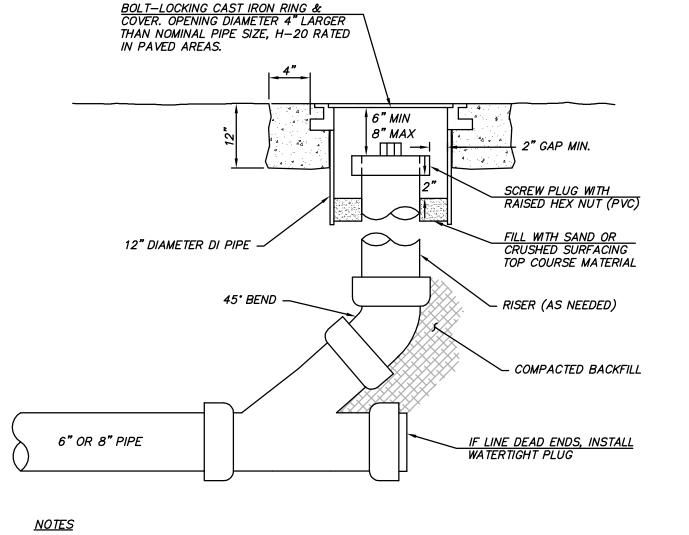


FOR USE IN NON-TRAFFIC AREAS ONLY SUCH AS ENCLOSED YARDS IN PRIVATE RESIDENCES AND ENCLOSED PLAY AREAS

YARD DRAIN

IN SCHOOL GROUNDS.

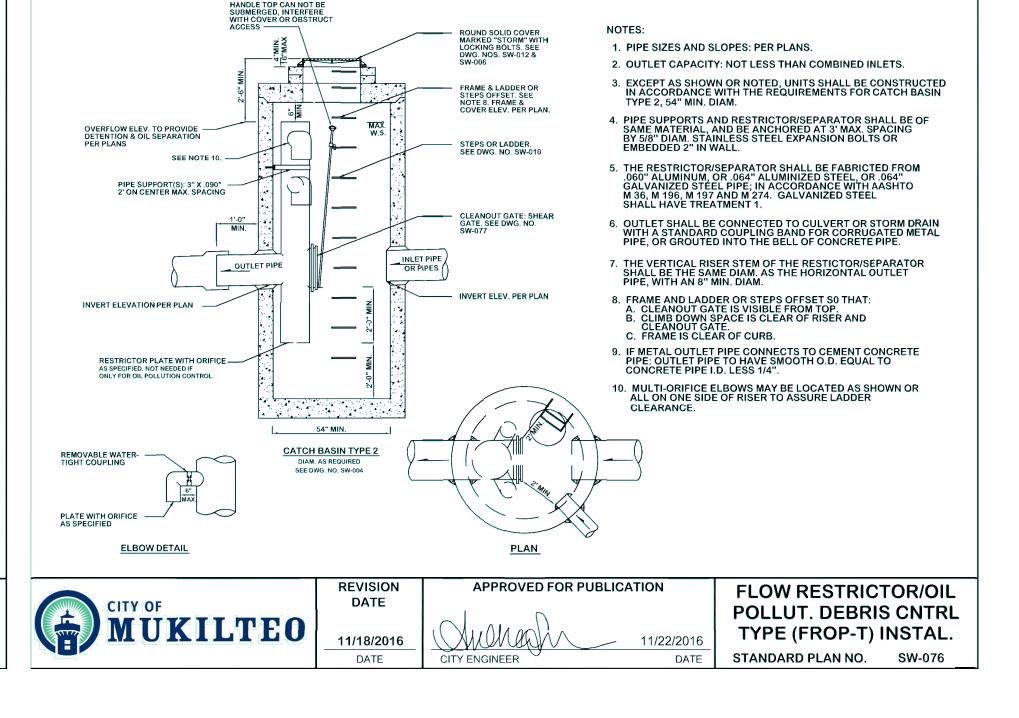
8. BOTTOM ORIFICE PLATE TO BE 1/4" MIN. GALVANIZED STEEL AND ATTACHED WITH 1/2" STAINLESS STEEL BOLTS. OMIT ORIFICE PLATE IF ONLY FOR OIL SEPARATION.



1. CAST IRON COVER SHALL READ "STORM".

2. LOCKING BOLTS FOR COVER SHALL BE 5/8" -11 NC STAINLESS STEEL TYPE 304 SOCKET (ALLEN) HEAD BOLTS, 2 INCHES LONG.







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ATWELL

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.ATWELL-GROUP.COM SCALE: AS NOTED

T.C. COLLERAN, PLA, AICP PROJECT ENGINEER: LUCAS ZIROTTI

PROJECT MANAGER:

LEE M. TOMKINS

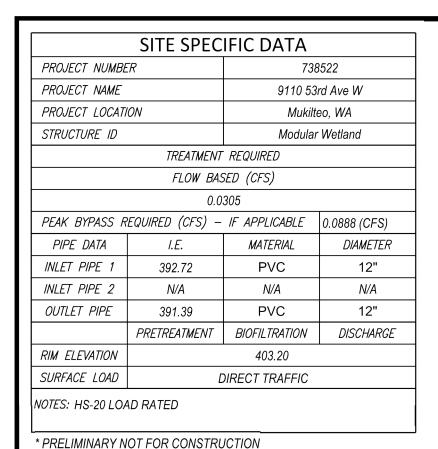
DESIGNER: 9/8/2023



21-073 SHEET NAME: DT-O2

sнт <u>**21**</u> ог <u>**22**</u>

JOB NUMBER:



PRELIMINARY NOT FOR CONSTRUCTION

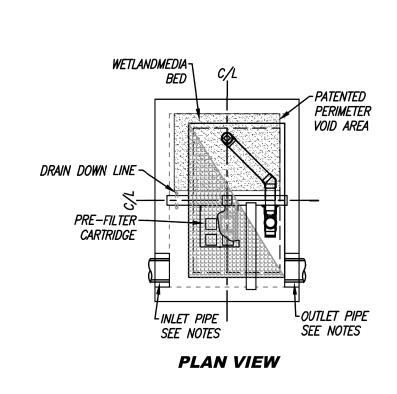
INSTALLATION NOTES

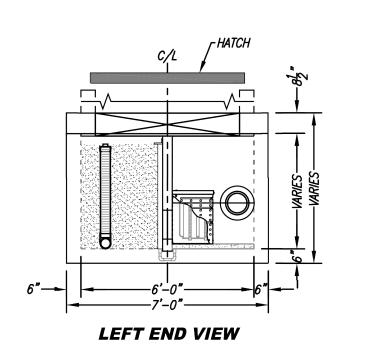
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- 2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER
 RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY
 THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING
 PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- 4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
- 5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- 6. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
- 7. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.

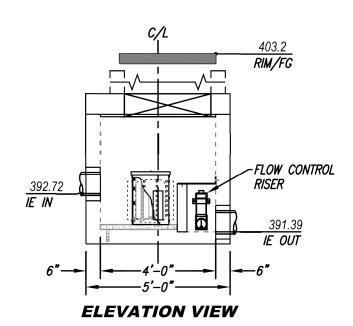
AND ACCESSORIES PLEASE CONTACT CONTECH.

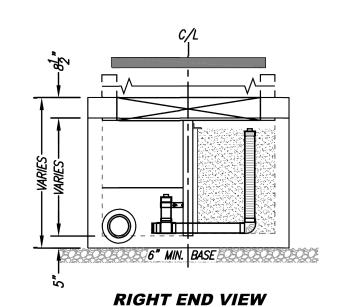
GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED. 2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS









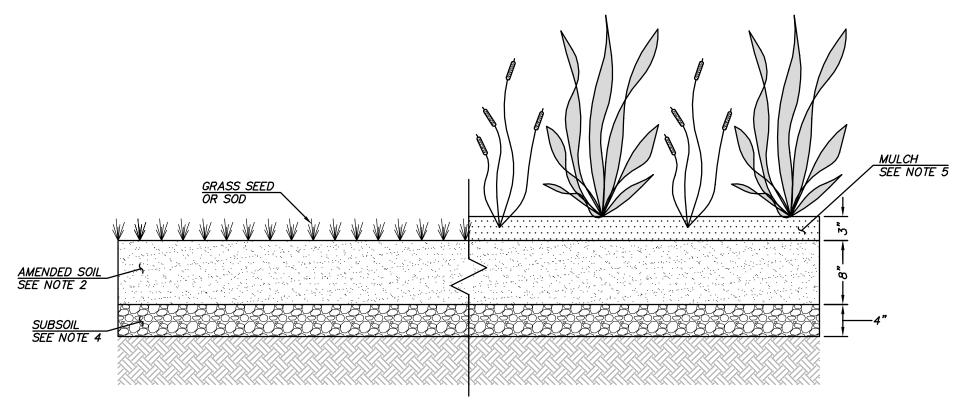
TREATMENT FLOW (CFS)	0.0305
OPERATING HEAD (FT)	1.4
PRETREATMENT LOADING RATE (GPM/SF)	0.5
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

R PATENT INFORMATION, GO TO

www.ContechES.com/IP

WWW.ContechES.com/IP

MWS-L-4-6-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL



SOIL AMENDMENT NOTES FOR BMP T5.13

REFERENCE: WA STATE DEPT. OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR W. WA NOT TO SCALE

NOTES FOR SOIL AMENDMENT:

GENERAL:

- 1. FOR PLANTING AREAS, THE MINIMUM ACCEPTABLE ORGANIC MATTER CONTENT BY DRY WEIGHT IS 10% (LOSS-ON-IGNITION TESTING).
- 2. FOR TURF AREAS, THE MINIMUM ACCEPTABLE ORGANIC MATTER CONTENT BY DRY WEIGHT IS 5% (LOSS-ON-IGNITION TESTING).
- 3. A MINIMUM ORGANIC-AMENDED DEPTH OF 8 INCHES (EXCEPT IN TREE PROTECTION AREAS) IS REQUIRED.
- 4. SUBSOIL SHALL BE SCARIFIED 4 INCHES BELOW AMENDED LAYER TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL.
- 5. PLANTING BEDS SHOULD BE MULCHED AFTER PLANTING WITH 2 TO 3 INCHES OF ORGANIC MATERIAL SUCH AS ARBORIST WOOD CHIP MULCH.
- 6. SOIL AMENDMENT CANNOT BE PLACED IN OVERLY SATURATED SOILS. IT IS RECOMMENDED THAT THE SOIL AMENDMENT BE PLACED BETWEEN MAY 1 AND OCTOBER 1, WHEN SOILS ARE TYPICALLY DRIEST AND LESS SUBJECT TO COMPACTION.
- 7. PRIOR TO SOIL INSTALLATION, APPLICANT WILL SUBMIT SOIL TEST VERIFICATION, INCLUDING TESTS FROM EITHER SUPPLIER OR CONTRACTOR (DEPENDING ON OPTION CHOSEN) TO VERIFY ORGANIC MATTER CONTENT AND THAT COMPOST MEETS WAC SPECIFICATIONS. SOIL VERIFICATION TEST METHOD MUST MEET ASTM D2974. THE VERIFICATION SHALL CLEARLY STATE THE FOLLOWING (AT A MINIMUM): TEST DATE, TEST METHOD USED, TESTING COMPANY, AND LOSS—ON—IGNITION (LOI) RESULTS.

FOR PROJECTS 4 LOTS OR LESS - YOU MUST IMPORT AMENDED SOIL MEETING THE REQUIREMENTS BELOW:

- 1. FOR PLANTING BEDS, A MIX BY VOLUME OF 40% COMPOST (MEETING WAC 173-350-220) WITH 60^ MINERAL AGGREGATE IS PRE-APPROVED TO MEET THE ORGANIC MATTER CONTENT BY DRY WEIGHT (LOSS-ON-IGNITION TEST).
- 2. FOR TURF AREAS, A MIX BY VOLUME OF 25% COMPOST (MEETING WAC 173-350-220) WITH 75% MINERAL AGGREGATE IS PRE-APPROVED TO MEET THE ORGANIC MATTER CONTENT BY DRY WEIGHT (LOSS-ON-IGNITION TEST).

FOR PROJECTS 5 LOTS OR GREATER — YOU MAY EITHER IMPORT AMENDED SOIL MEETING THE REQUIREMENTS ABOVE OR FOLLOW OPTION 1 OR OPTION 2 BELOW:

OPTION 1 - AMENDING EXISTING DISTURBED TOPSOIL:

WEIGHT (LOSS-ON-IGNITION TEST).

1. FOR PLANTING BEDS, 3 INCHES OF COMPOST (MEETING WAC 173-350-220) ON 9 INCHES SCARIFIED OR TILLED SOIL (TOTAL AMENDED DEPTH OF 12") IS PRE-APPROVED TO MEET THE ORGANIC MATTER CONTENT BY DRY WEIGHT (LOSS-ON-IGNITION TEST)

2. FOR TURF AREAS, 1.75 INCHES OF COMPOST (MEETING WAC 173-350-220) ON 10 INCHES SCARIFIED OR TILLED SOIL (TOTAL AMENDED DEPTH OF 12") IS PRE-APPROVED TO MEET THE ORGANIC MATTER CONTENT BY DRY WEIGHT.

OPTION 2 — AMENDING STOCKPILED TOPSOIL AND CLEARED AREAS: 1. STOCKPILE AND COVER SOIL WITH 3 INCHES OF WOOD CHIPS, WEED BARRIER, OR OTHER BREATHABLE MATERIALS THAT SHEDS

- MOISTURE YET ALLOWS AIR TRANSMISSION.

 2. TEST STOCKPILE MATERIAL (PRIOR TO ADDING COMPOST) FOR ORGANIC MATTER CONTENT TO DETERMINE WHETHER ADDITIONAL COMPOST MUST BE TILLED INTO THE STOCKPILED MATERIAL TO MEET THE REQUIRED ORGANIC MATTER CONTENT BY DRY
- 3. AFTER THE STOCKPILED MATERIAL HAS BEEN LAID, A SOIL SAMPLE WILL BE TAKEN BY THE APPLICANT/CONTRACTOR FOR EVERY 5,000 SF OR EVERY LOT (WHICHEVER IS LESS) TO TEST THAT THE SITE MEETS THE REQUIRED ORGANIC MATTER CONTENT BY DRY WEIGHT (LOSS-ON-IGNITION TEST).

ATWELL

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.ATWELL-GROUP.COM

SCALE: AS NOTED

PROJECT MANAGER:

T.C. COLLERAN, PLA, AICP

PROJECT ENGINEER:

LUCAS ZIROTTI

DESIGNER:
LEE M. TOMKINS

ISSUE DATE: **9/8/2023**

ND DATE BY REVISIONS PER CITY IST ROUND COMMENTS

2 4/21/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

3 9/6/23 LMT REVISIONS PER CITY 3ND ROUND COMMENTS

ARBOR GROVE CIVIL PLANS

A. K.P.

OF WASHING

OF WASHIN

9/8/23

JOB NUMBER:
21-073
SHEET NAME:
DT-03

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EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO

GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.