

# GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF MUKILTED 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 CONFERENCE.
- 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 CONTACT PERSON: TBD PHONE
- MOBILE
- 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 START OF CONSTRUCTION.
- 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. 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 Y-08.3(3) AND Z- 3 3(14) D OF THE WSDOT STANDARD SPECIFICATIONS.
- 12. 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.
- 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. 14. 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. 15. 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-35 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: CITY OF MUKILTED FINAL ACCEPTANCE OF THE PROJECT AND: UPON COMMENCEMENT AND COMPLETION OF THE 2 YEAR WARRANTY PERIOD FOR THE STORM DRAINAGE SYSTEM. AN INVOICE DETAILING THE FLUSHING AND CLEANING SHALL BE PROVIDED TO THE CITY.
- 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.
  - 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. 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.

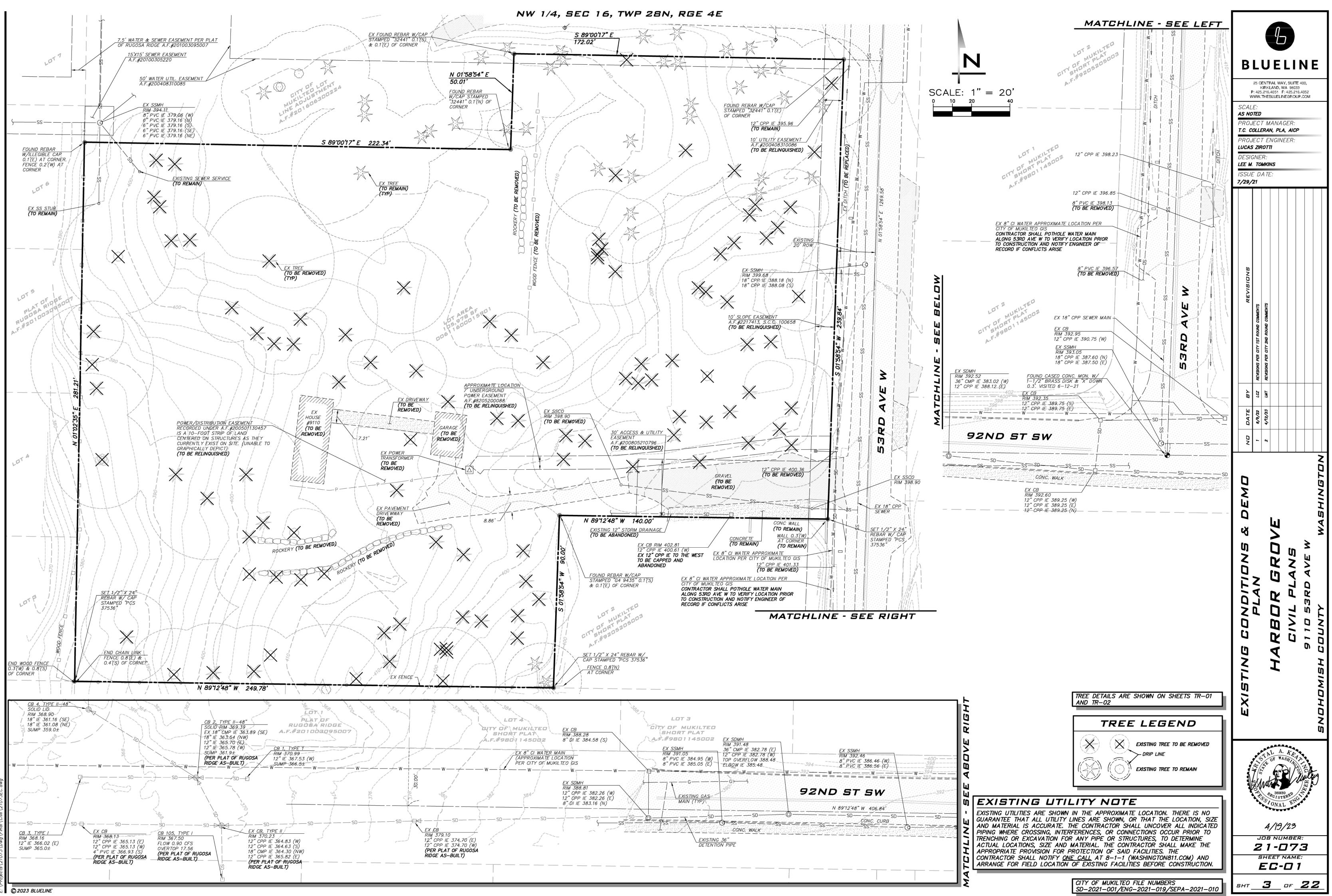
PROPOSED FEATURES EXISTING FEATURES BOUNDARY - ADJACENT PARCEL LINE ← BLOW OFF \_\_\_\_\_ GRAVEL ■RIGHT—OF—WAY - ADJACENT RIGHT-OF-WAY \_\_\_\_\_ -0-POWER POLE — LOT LINE \_\_\_\_\_ - CENTERLINE ASPHALT PAVEMENT GUY ANCHOR — FLOW & CURB \_\_\_\_\_ - EASEMENT X → STREET LIGHT - CENTER LINE — — — — — — SURFACE FEATURES \_\_\_\_ SIDEWALK ----- SAWCUT LI LI LI LI LI LI LI ANDING FOOTPRINT  $\square$  JUNCTION BOX — — EASEMENT — — —190— — — 10' CONTOURS O GAS METER — — — — — — BUILDING SETBACK (BSBL) ----- 2' CONTOURS GAS VALVE — — — SD— **STORM DRAIN PIPE** TELECOMM RISER — — — — SS— **SEWER MAIN** GRADING AND TESC FEATURES — — — W — WATER MAIN TRAFFIC SIGNAL INTERIM CATCH BASIN INTERIM CATCH BASIN
 PROTECTION (INSERT) 190 10' PROPOSED CONTOURS ----- OPT --- AERIAL POWER/TELECOMM 🗆 🛛 MAIL BOX \_\_\_\_ SIGN — — — G— GAS MAIN FILTER FABRIC FENCE RIPRAP BOLLARD CONSTRUCTION FENCE CONIFEROUS TREE CLEARED AREA ··· ----- INTERCEPTOR SWALE ----- DITCH OR SWALE INTERCEPTOR CULVERT 4 CATCH BASIN, TYPE I DECIDUOUS TREE ------ TEMPORARY STORM PIPE LIMITS OF CLEARING CATCH BASIN, TYPE II CONIFEROUS TREE  $\triangleleft$  SD PIPE FLOW PROPOSED UTILITIES TO BE SAVED YARD DRAIN SEWER MANHOLE - STORM DRAIN PIPE DECIDUOUS TREE **O** SEWER MANHOLE ----------------------------------SEWER MAIN PIPE FLOW  $\lhd$  ss pipe flow 🔍 FIRE HYDRANT Q FIRE HYDRANT ASPHALT — — — — — — WATER MAIN AIR/VAC RELEASE VALVE ⊞— WATER METER CATCH BASIN, TYPE I BLOW OFF CONCRETE 🖂 GATE VALVE TEE W/ CONC BLOCKING CATCH BASIN, TYPE II TEND W/ CONC BLOCKING GRAVEL PIPE FLOW

LEGEND

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM									
WASHINGTON									
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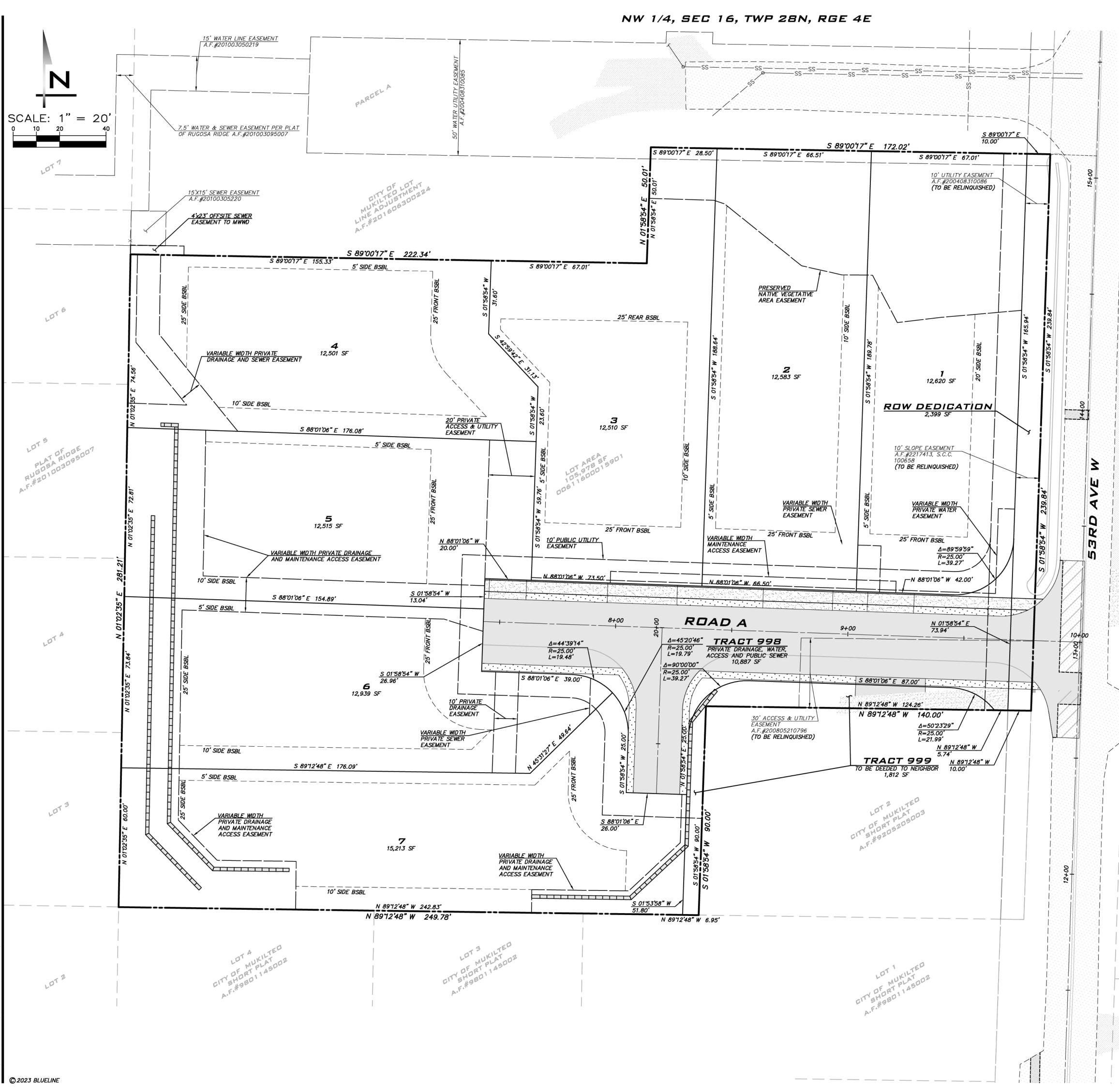
# EXISTING UTILITY NOTE

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.



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# 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 LAND.

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 DETERMINTS TAL MAINTENANCE IS NOT BEING PERFORMED, CITY SHALL ENDER 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.

I. 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 CRANTS IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S F LE VL NEER \_ \_ (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).

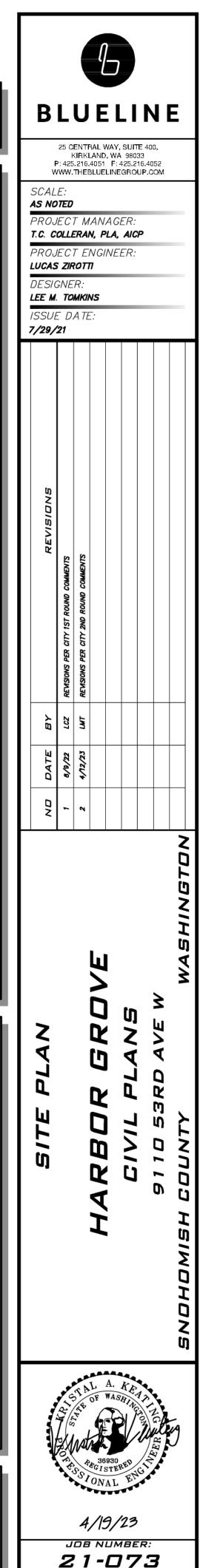
SUBJECT TO A PUBLIC UNDERGROUND AND/OR OVERHEAD ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM EASEMENT FOR THE PURPOSE SHOWN THEREIN AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT RECORDED UNDER SNOHOMISH COUNTY AUDITOR'S FILE NUMBER \_\_\_\_\_ (SHOWN ON MAP).

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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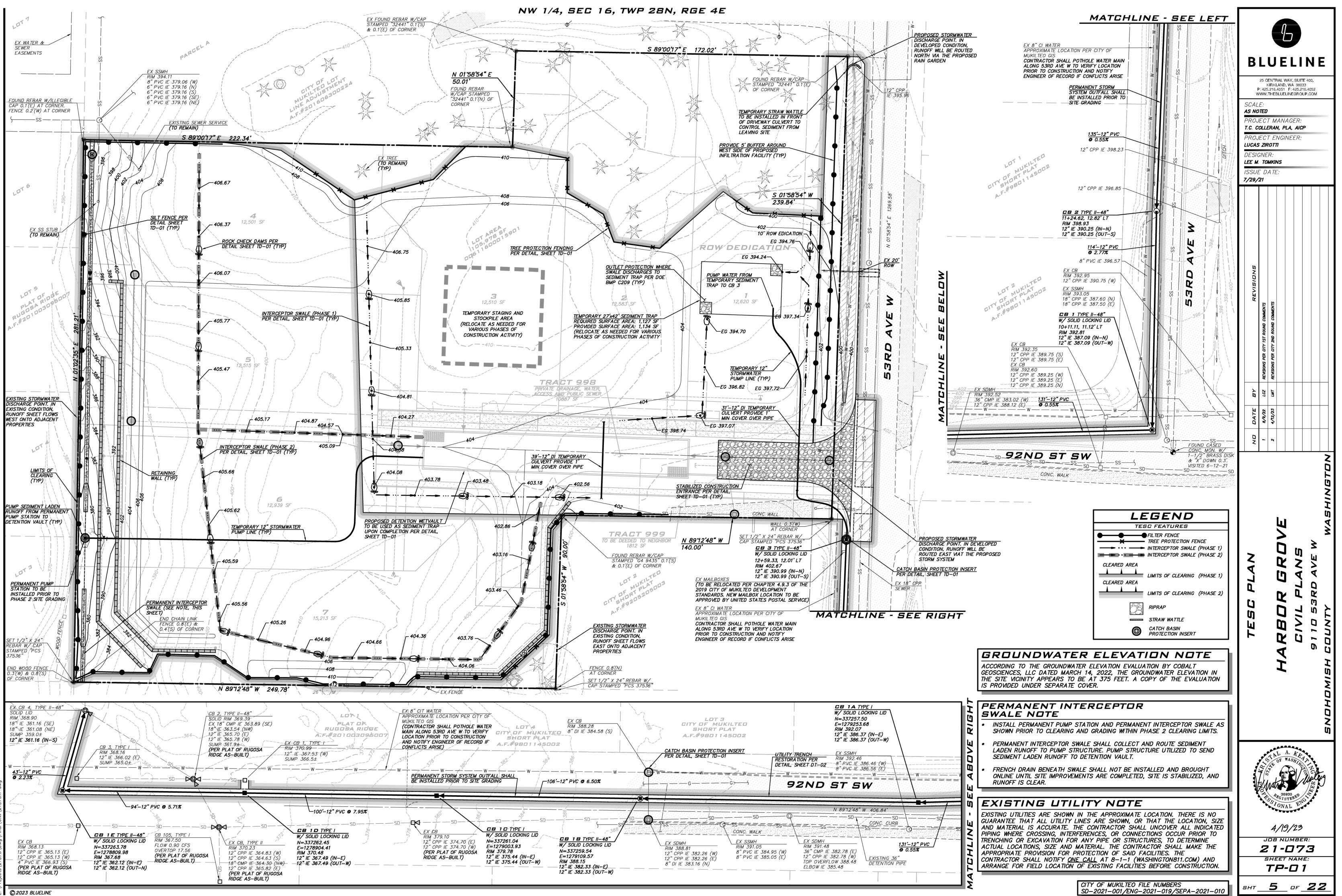
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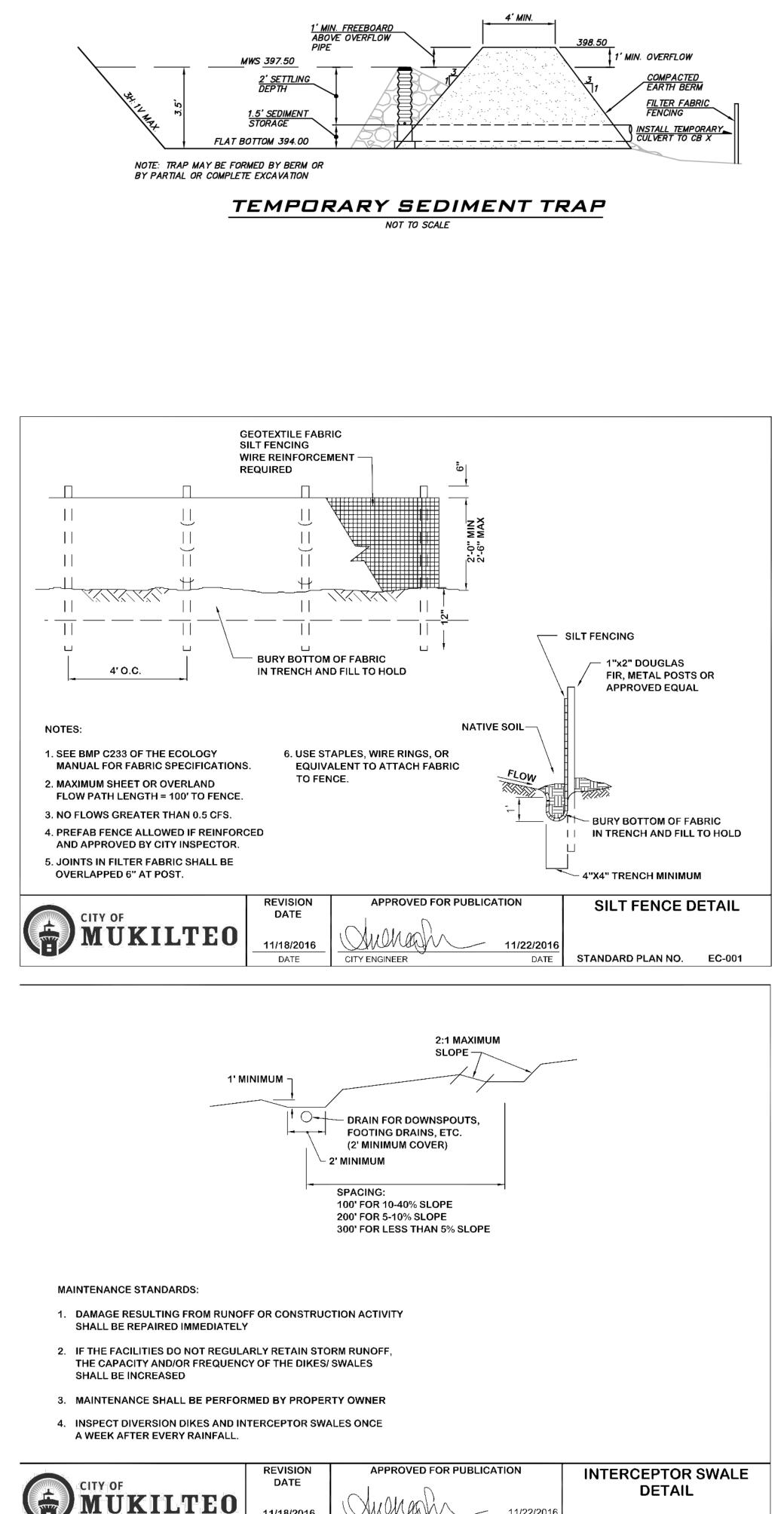
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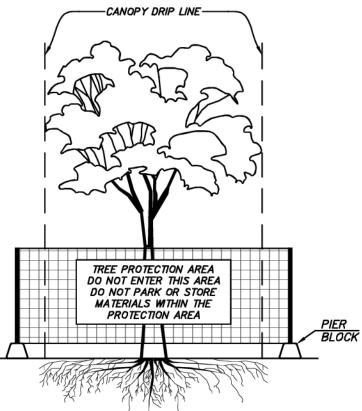
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DATE

11/18/2016

DATE

CITY ENGINEER



### NOTES:

- 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 POSTS OR STAKES INTO MAJOR ROOTS.
- 2. INSTALL TREE PROTECTION FENCES PRIOR TO BEGINNING CONSTRUCTION. WORK WITHIN THE PROTECTION FENCING SHALL BE DONE MANUALLY. DO NOT
  - STOCKPILE CONSTRUCTION MATERIALS, SUPPLIES, SOILS OR DEBRIS WITHIN THE TREE PROTECTION FENCES, NOR ALLOW VEHICLE PARKING OR EQUIPMENT STORAGE. • CEMENT TRUCKS MUST NOT BE ALLOWED TO DEPOSIT WASTE OR WASH OUT
  - MATERIALS FROM THEIR TRUCKS WITHIN THE TREE PROTECTION FENCES. • 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
  - REMAIN UNTIL THE FENCING IS TAKEN DOWN. THE TREE PROTECTION FENCES NEED TO BE CLEARLY MARKED AS "TREE PROTECTION AREAS" WITH FOUR-INCH OR LARGER LETTERS

TREE PROTECTION FENCE

# SITE GRADING AND CONSTRUCTION SWPPP NOTES

- ENGINEER) AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS DARREN RIDDLE (425) 512-7099.
- 2. SOILS IN MUKILTED 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.
- MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- 4. STOCKPILES SHALL BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEEDING IS PREFERRED.
- ENGINEER'S NAME AND PHONE NUMBER IS KRISTAL KEATING, PE (425) 216-4051.
- 7. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT CITY ADOPTED INTERNATIONAL BUILDING CODE.

- GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER EXPERIENCED IN SOIL MECHANICS.
- AS THE SLOPE IS BEING CONSTRUCTED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- PROCTOR.
- 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.
- PLAN INCLUDE PROJECTS THAT: 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 IS PERCENT ADJACENT OR ON-SITE; 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.

- 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
  - SPECIFICATIONS). b. SEED AND MULCH ALL DISTURBED AREAS NOT OTHERWISE VEGETATED AT FINAL SITE STABILIZATION

# MAINTENANCE OF SILTATION BARRIERS

- BARRIER HEIGHT

# SEDIMENT TRAP GENERAL NOTES

- ADEQUATELY TREATED WITH SEDIMENT PONDS. THEREFORE, EROSION CONTROL PRACTICES SHALL BE EMPHASIZED AND PRIORITIZED.
- DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT, AND TO DETERMINE MAINTENANCE NEEDS.
- 3. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED IMMEDIATELY.
- SEDIMENT CLEANOUT AFTER EACH RAINFALL WHICH PRODUCES RUNOFF.
- 6. SECONDARY TREATMENT MAY BE NECESSARY IF THE SEDIMENT POND CANNOT EFFECTIVELY REMOVE THE FINE GRAIN SOILS.

### SOURCE CONTROL BMP'S

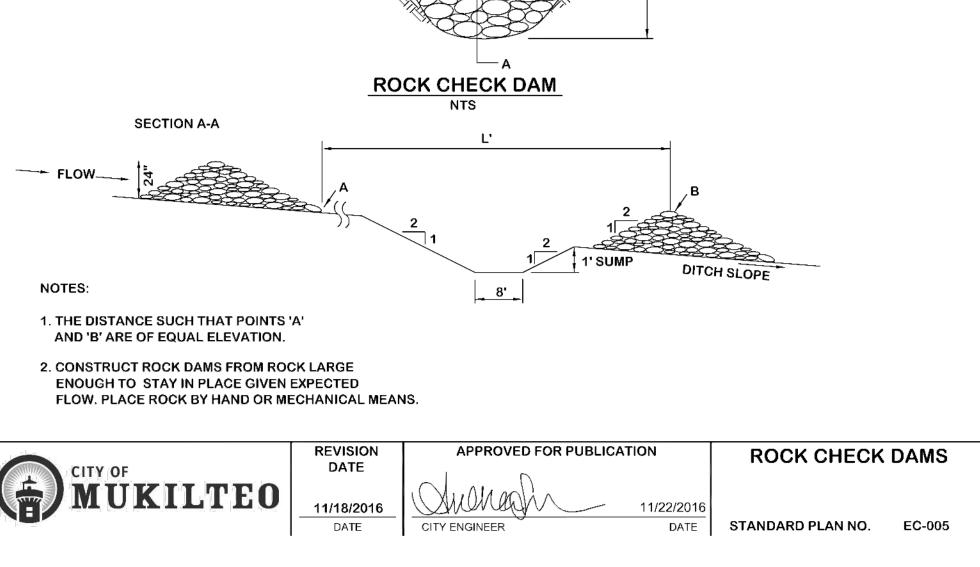
- 1. VEHICLE/EQUIPMENT WASHING & STEAM CLEANING (BMP S1.20 NO WASHING OF VEHICLES ON SITE (BMP S1.10)
- 2. EMERGENCY SPILL CLEANUP PLANS (BMP S1.80) NO CHANGE VEHICLE OIL OR OTHER VEHICLE MAINTENANCE ON SITE.
- 3. VEGETATION MANAGEMENT/INTEGRATED PEST MANAGEMENT (BMP S1.90) CERTIFIED PROFESSIONAL IS 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

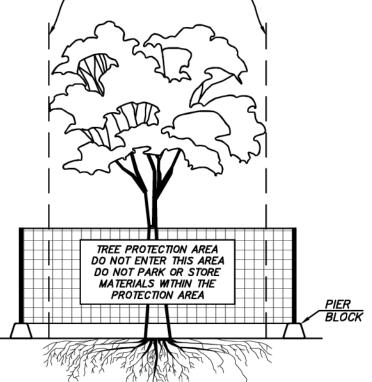
- 2. FLAG CLEARING LIMITS AND INSTALL SILT FENCE AS SHOWN.
- 3. INSTALL ROCK CONSTRUCTION ENTRANCES.

- TRAP AS SHOWN ON TESC PLAN.

- 11. PLACE AND POUR CURBS AND GUTTERS.
- 13. HYDROSEED REMAINING EXPOSED SOILS AND STABILIZE PROJECT.



NOT TO SCALE



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

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

5. THE DEVELOPER (OR PROJECT ENGINEER) IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT

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.

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

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

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

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

HAVE HIGH POTENTIAL FOR SEDIMENT TRANSPORT, AS DETERMINED BY THE CONSTRUCTION SITE SEDIMENT TRANSPORT POTENTIAL WORKSHEET; OR

# 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.

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

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 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

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

4. 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

5. WHEN THE SEDIMENT REACHES THE CLEANOUT LEVEL (TYPICALLY I-FOOT IN DEPTH), IT SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.

PRIOR TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE AND ATTEND PRE-CONSTRUCTION CONCERENCE WITH THE CITY OF MUKILTEO INSPECTION UNIT AND EROSION CONTROL SPECIALIST.

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.

12. PAVE ROADS WITH ATB AND PLACE DETENTION SYSTEM INTO FULL OPERATION.

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.

# 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.

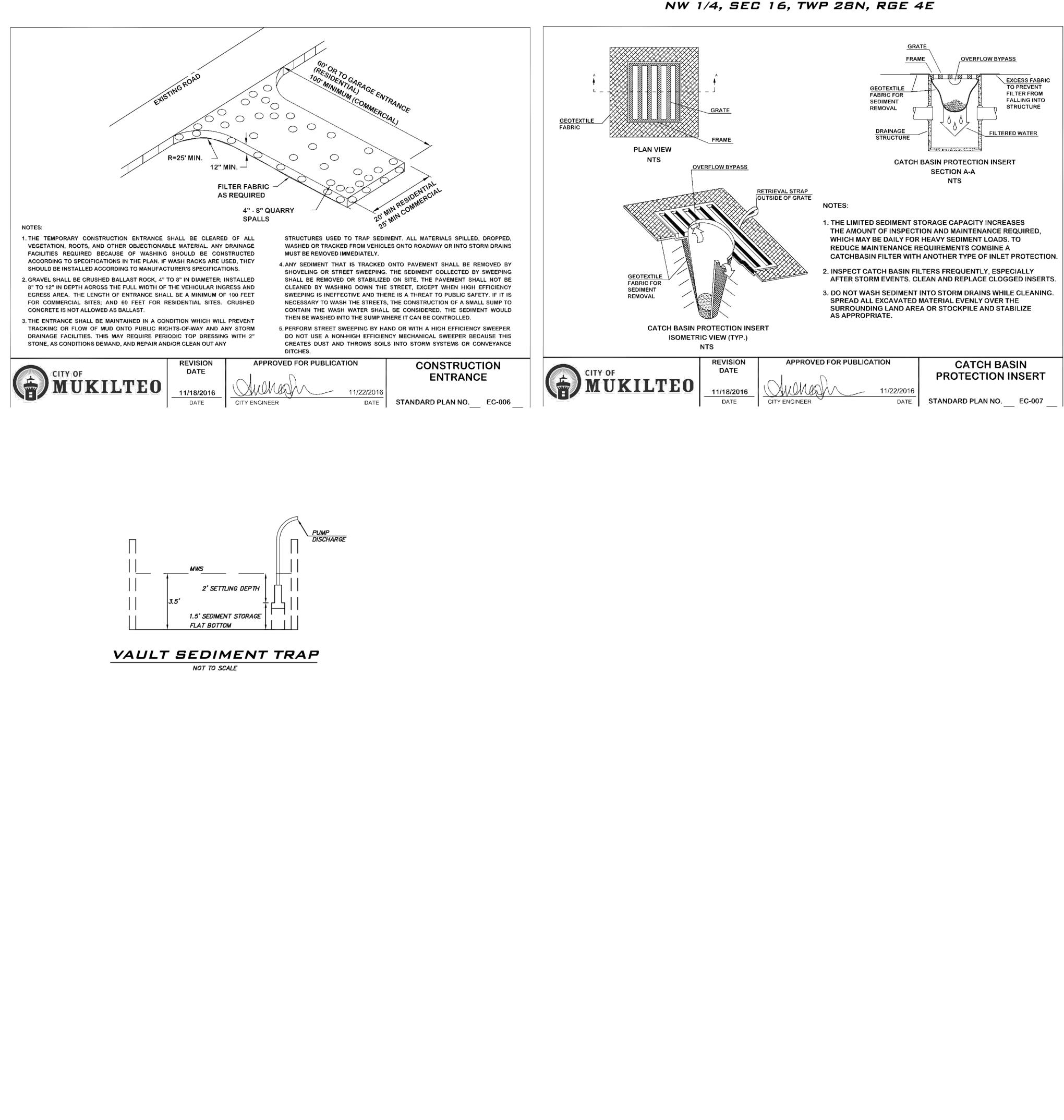
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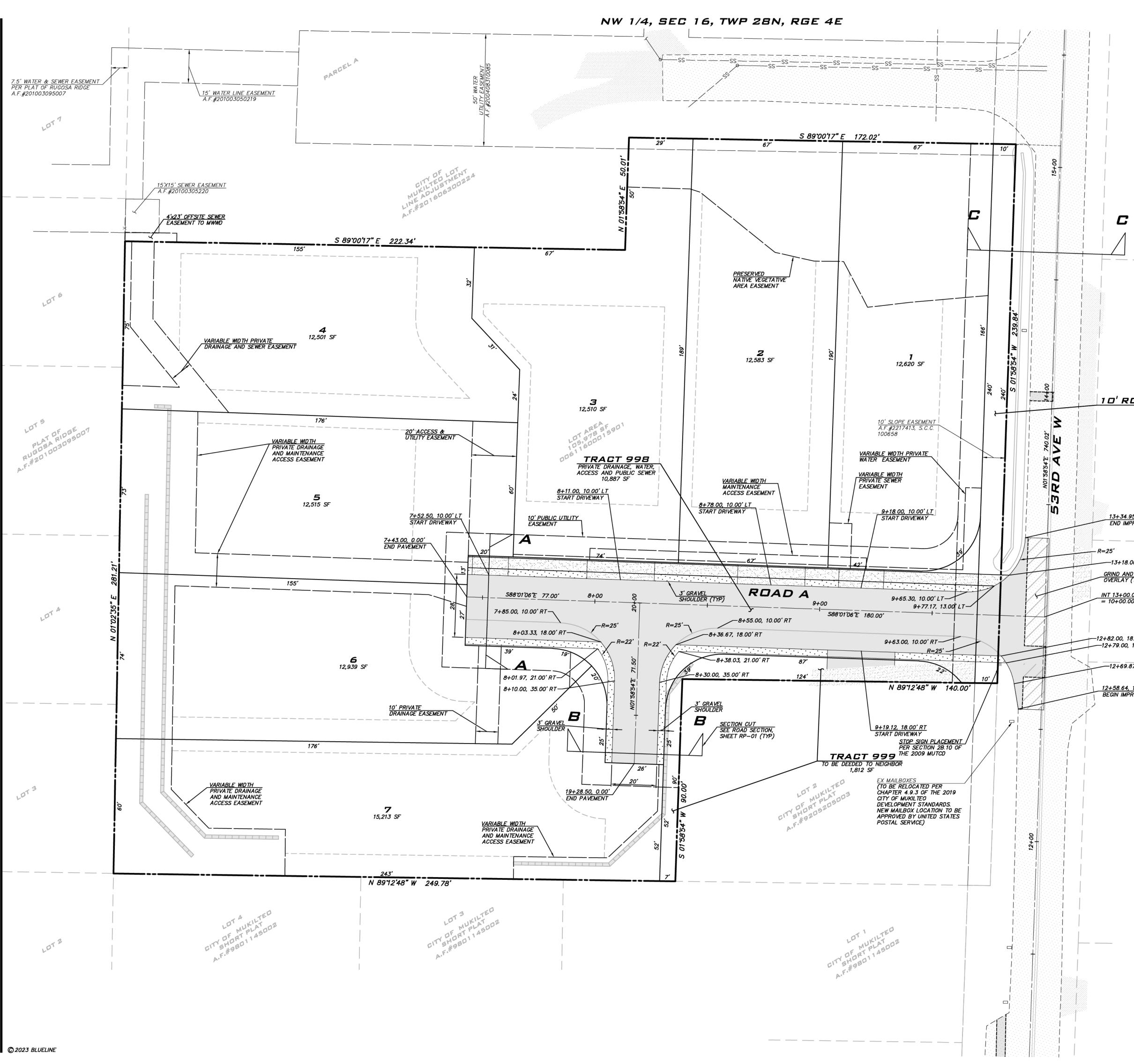
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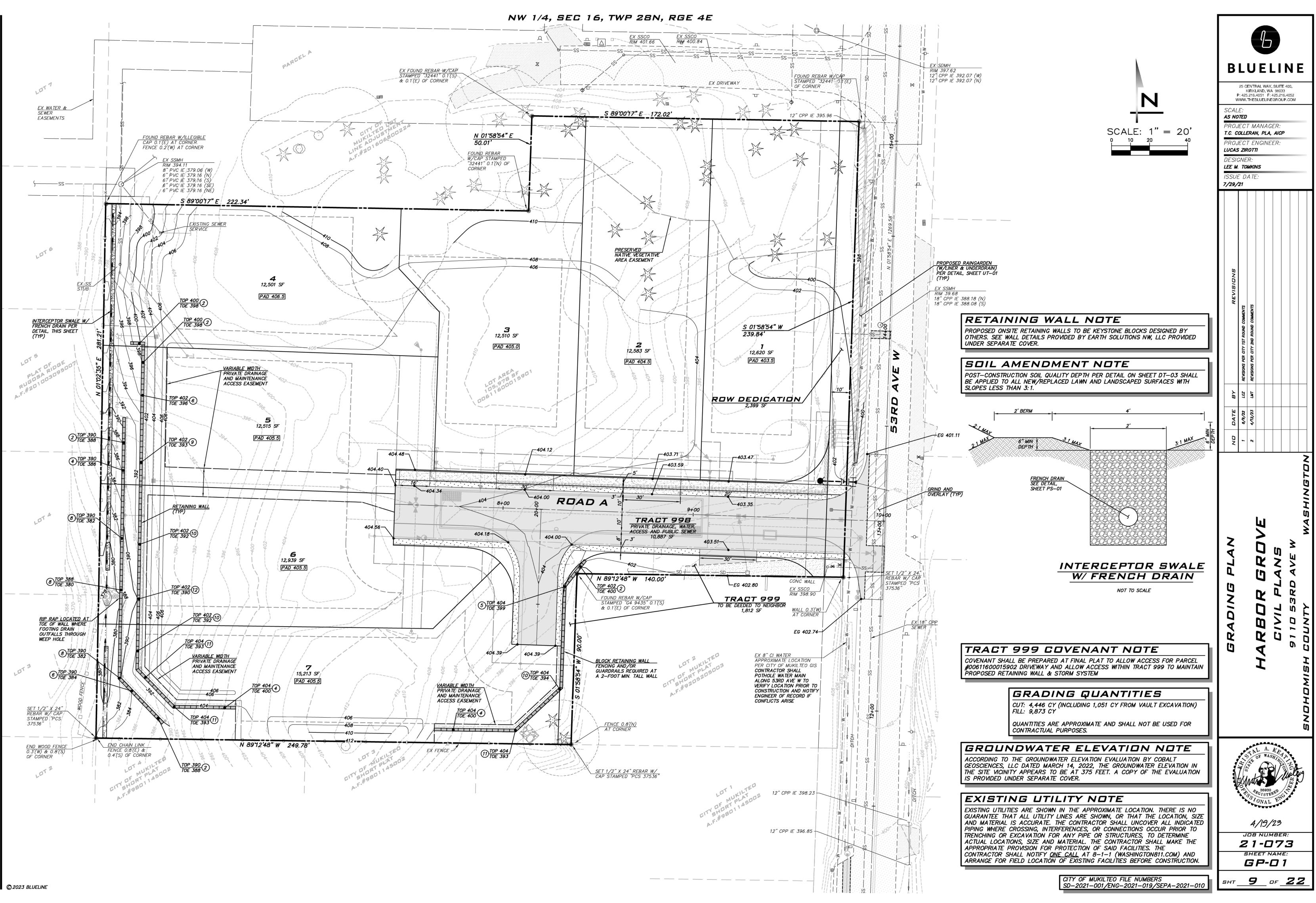
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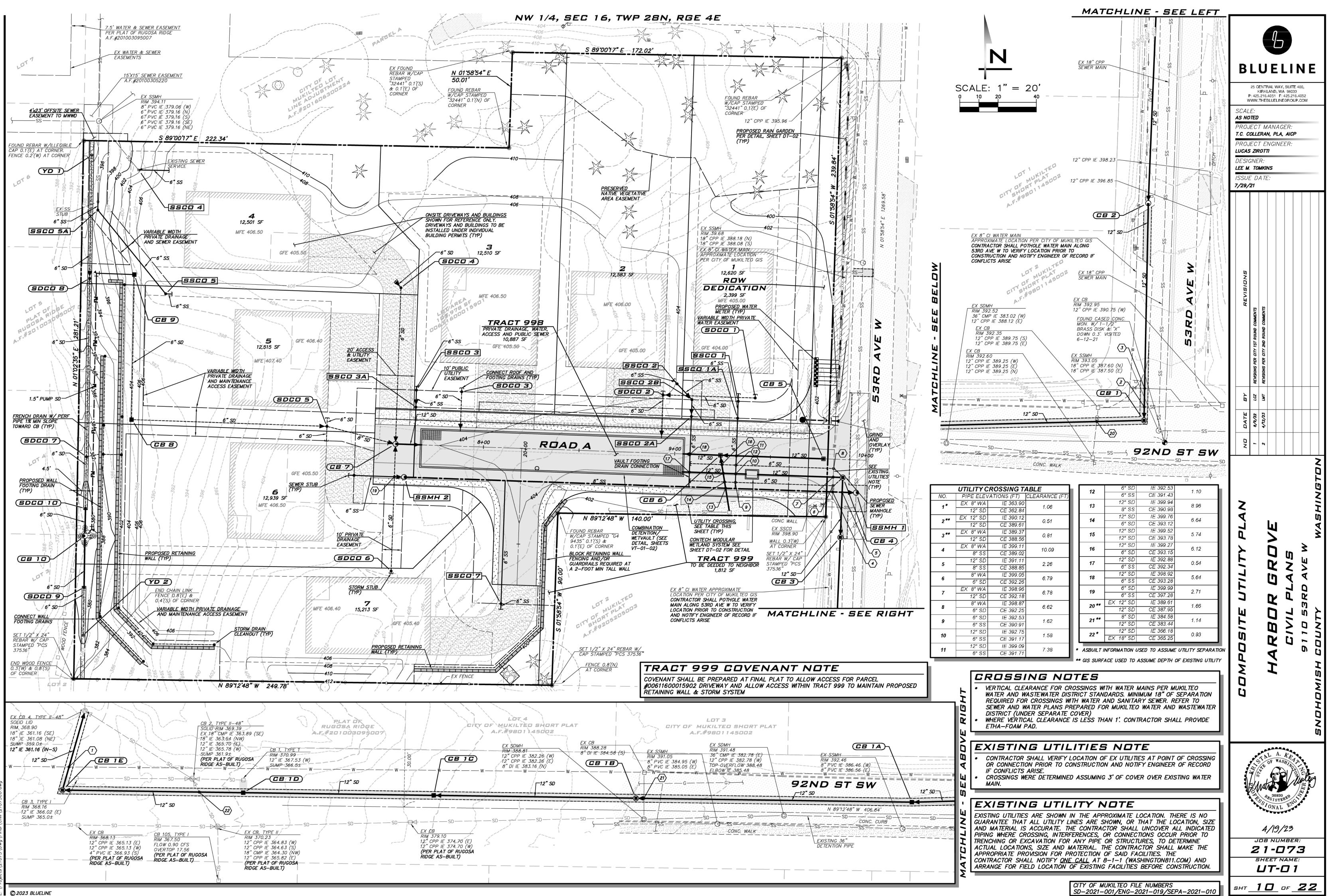


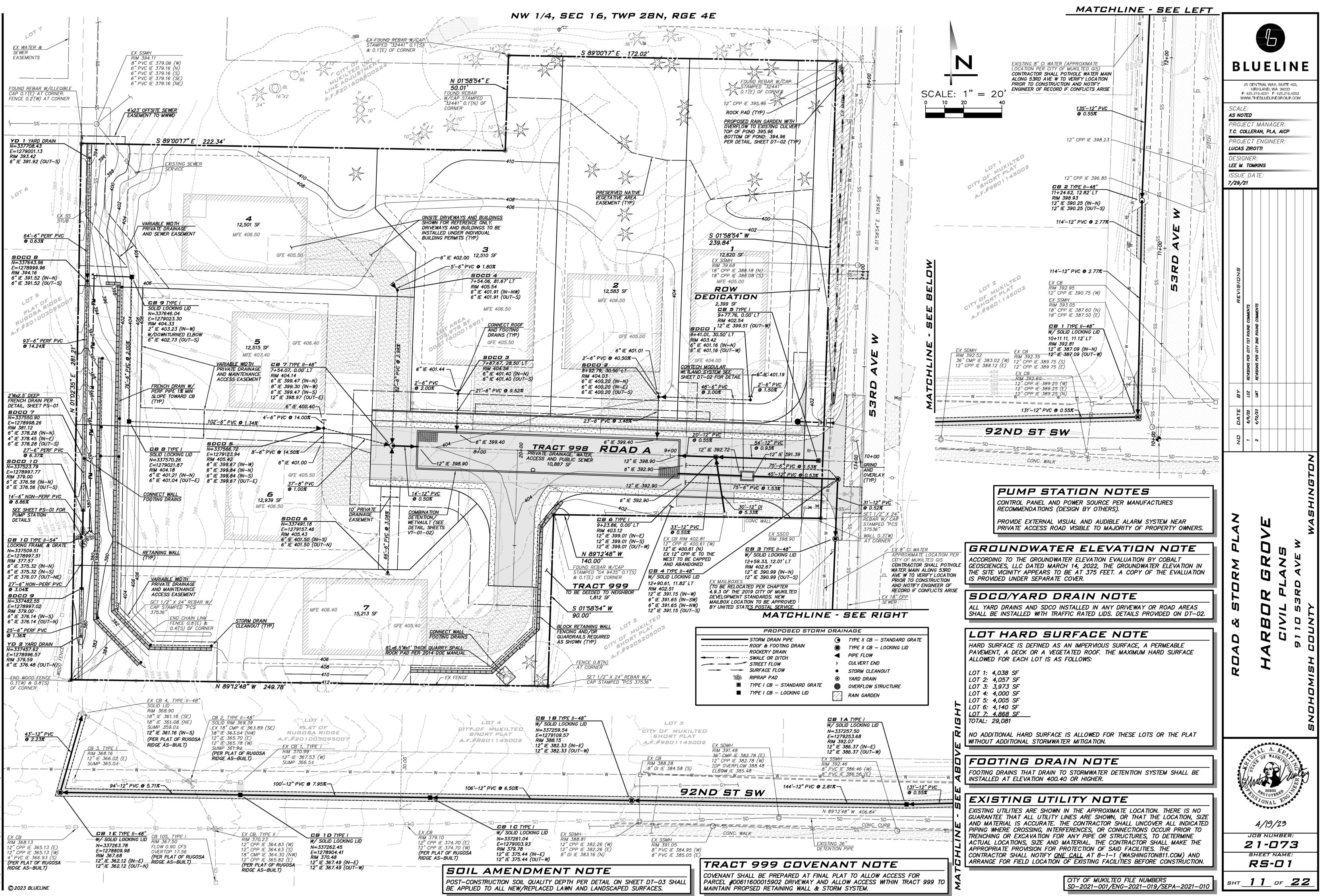
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<b>EXISTING UTILITY NOTE</b> EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE 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			DB	שא י	KETTON ASHING BEREN L EN 123 MBEE		5

CITY OF MUKILTEO FILE NUMBERS
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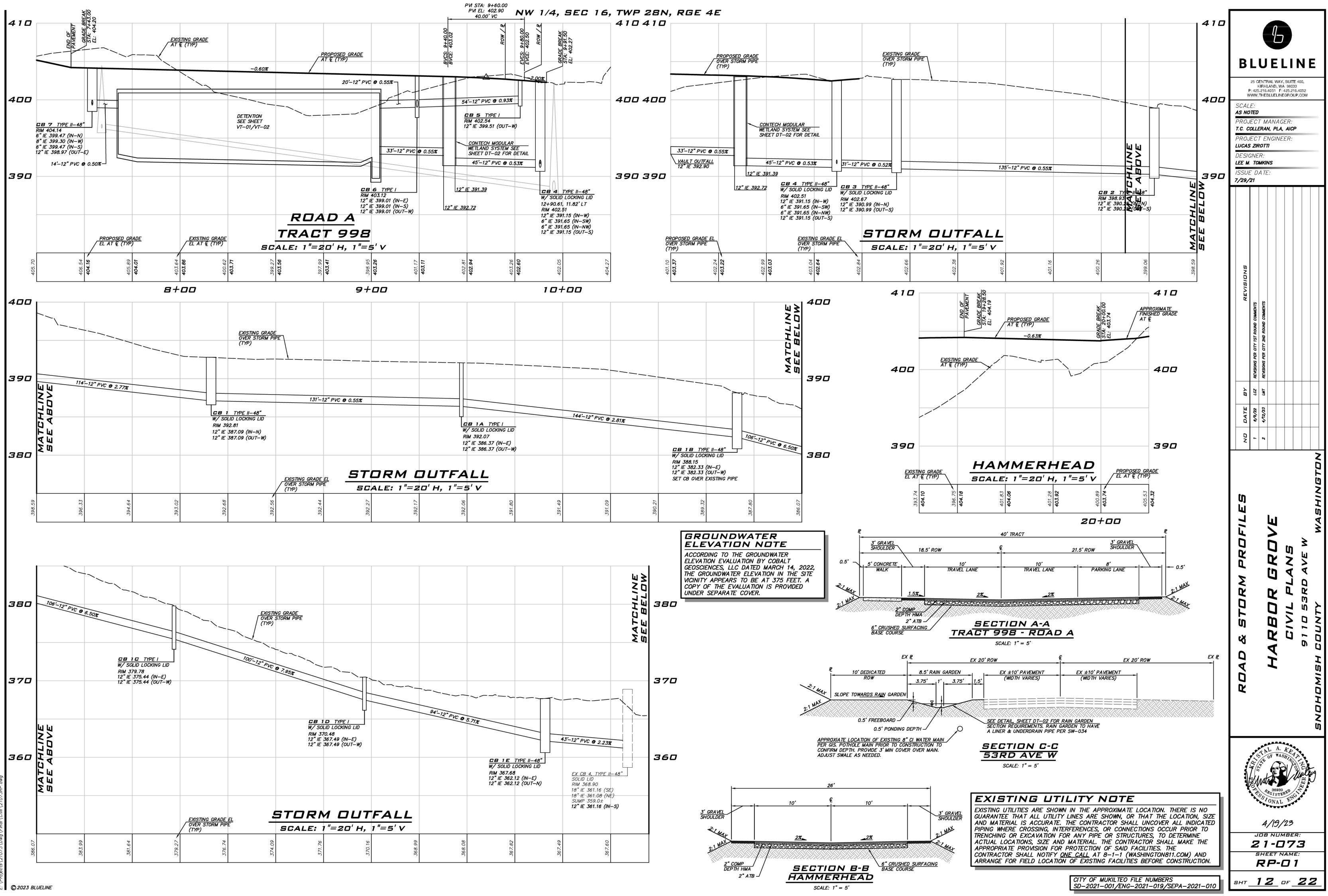




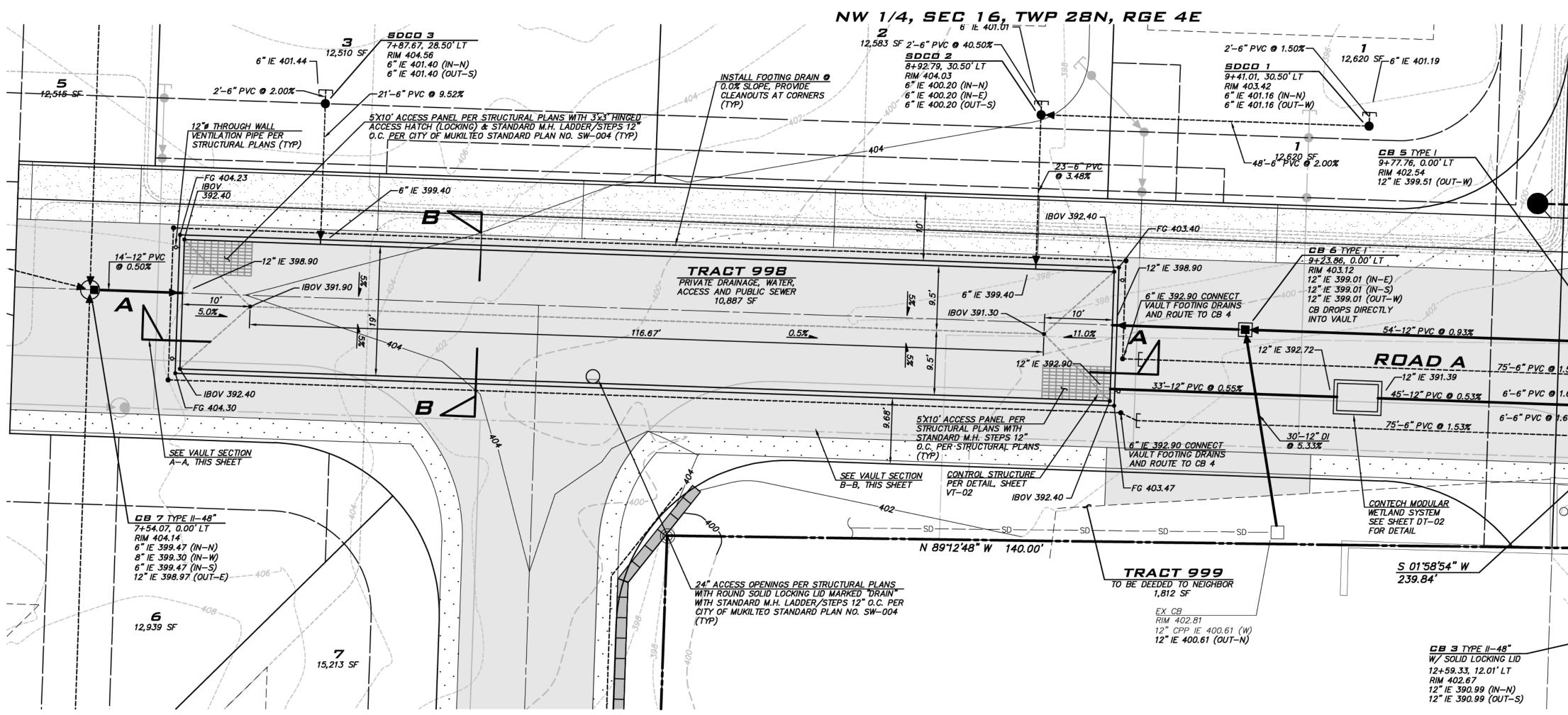


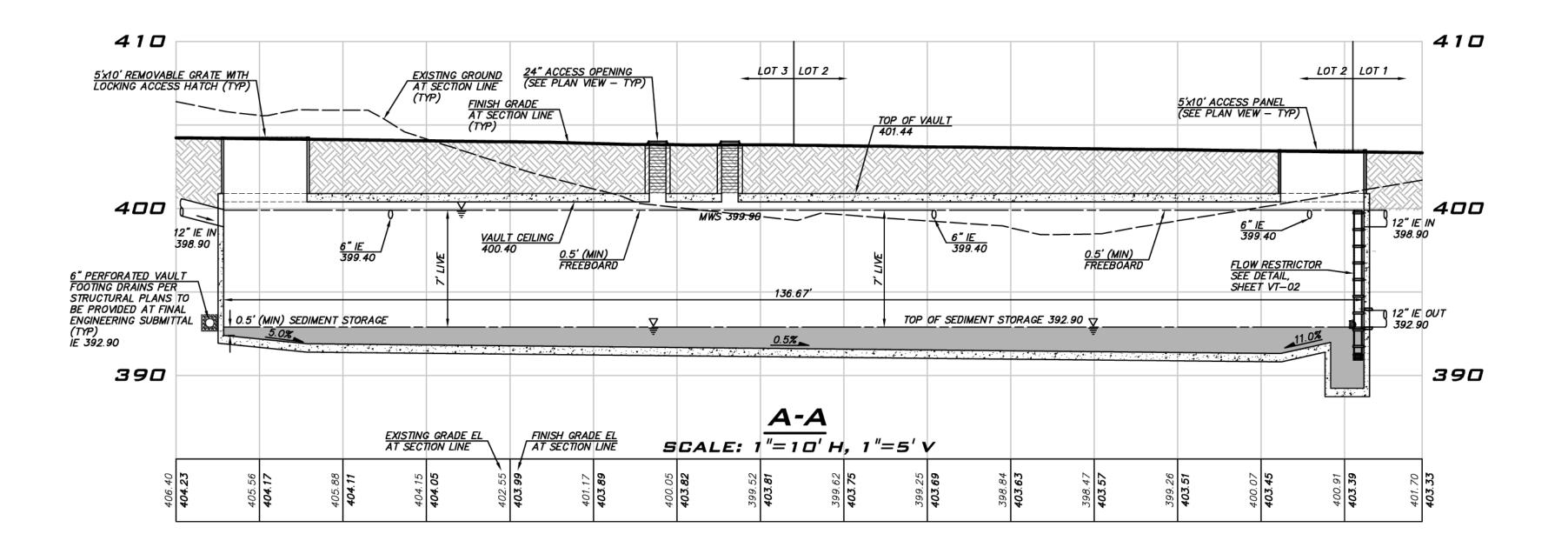
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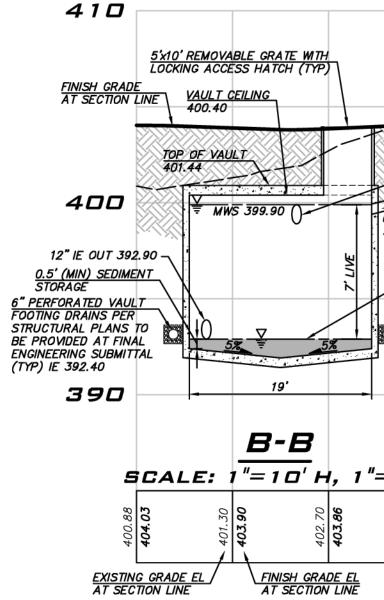




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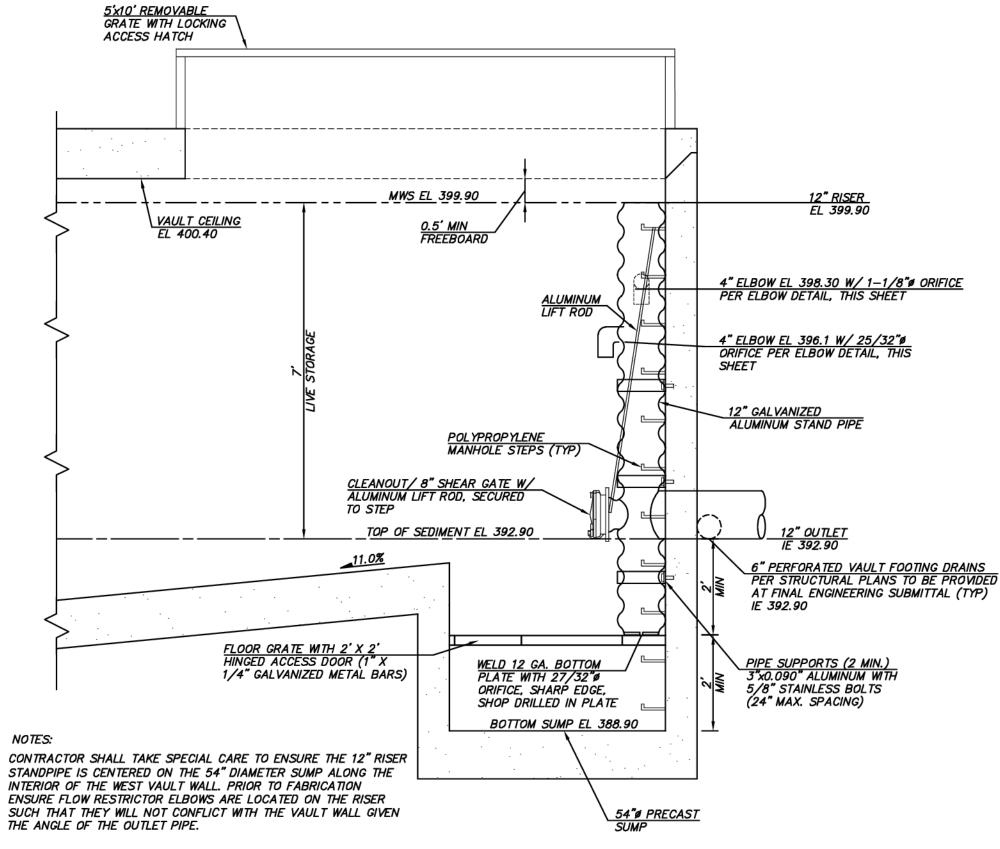




VAULT INF	0	11	
FG OVER VAULT:	403.40 (MIN) 404.30 (MAX)		LIVE
MAX WATER SURFACE: BOTTOM OF LIVE:	399.90 392.90	L	DEAD
BOTTOM OF DEAD:	388.90	14	

1         2,620 SF_6" IE 401.19         B         9         9+77.76, 0.00" LT         RIM 402.54         12" IE 399.51 (OUT-W)         9.01 (IN-E)         9.01 (IN-S)         9.01 (IN-E)         9.01 (IN-S)         9.01 (IN-W)         50 IDRECTLY         NT         54'-12" PVC 0 0.93%	$M_{\text{H}}$	P SCALL AS NO PROJU T.C. CO PROJU LUCAS DESIG LEE M.	25 CENTRAL W KIRKLAND, : 425.216.4051 WW.THEBLUEL E: TED ECT MANA DILERAN, PL ECT ENGIN ZIROTTI ENER: TOMKINS	F: 425.216.4052 INEGROUP.COM A <i>GER:</i> L <b>A, AICP</b>	
Y 45'-12" PVC @ 0.533       6'-6" PVC @ 1.67%         75'-6" PVC @ 1.53%       6'-6" PVC @ 1.67%         CONTECH MODULAR       6'-6" PVC @ 1.67%         WEILAND SYSTEM       55         SEE SHEET DT-02       FOR DETAIL         SO 1158'54" W       239.84'         W/ SOLID LOCKING LID       12+59.33, 12.01' LT         Rim 402.67       12" IE 390.99 (NU-N)         12" IE 390.99 (OUT-S)	$ \begin{array}{c}                                     $	NO DATE BY REVISIONS	1     8/9/22     LCZ     REVISIONS PER CITY 1ST ROUND COMMENTS       2     4/12/23     LMT     REVISIONS PER CITY 2ND ROUND COMMENTS		
410 Stor removable crate with COCKING ACCESS HATCH (TYP) TSECTION UNE TOP OF VAULT TOP OF VAULT		VAULT PLANS & SECTIONS	HARBOR GROVE	70	YTNU0
VAULT VOLUMES         REQD       PROVIDED         LIVE       17,080       18,088         XX,XXX       ACCORDING GEOSCIENCE THE SITE VI IS PROVIDED	<b>UNDWATER ELEVATION EVALUATION DUCLE</b> TO THE GROUNDWATER ELEVATION EVALUATION BY COBALT ES, LLC DATED MARCH 14, 2022, THE GROUNDWATER ELEVATION IN ICINITY APPEARS TO BE AT 375 FEET. A COPY OF THE EVALUATION TO UNDER SEPARATE COVER. <b>TING UTILITY NOTE</b> THISTIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE RIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED FRE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE THE PROVISION FOR PROTECTION OF SAID FACILITIES. THE DR SHALL NOTIFY <u>ONE CALL</u> AT 8–1–1 (WASHINGTON811.COM) AND FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION. CITY OF MUKILTEO FILE NUMBERS SD–2021–001/ENG–2021–019/SEPA–2021–010		21-1 <sup>SHEET</sup> VT-	ливек: <b>073</b> Паме:	

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NOTES:

### VAULT NOTES

- FOR ALL MAINTENANCE ACCESS POINTS AND PROPOSED PENETRATIONS
- CAST IN PLACE JOINTS
- CITY
- PIPES SEALED WITH GROUT
- SCHEDULE 40 PVC OR BETTER AND SHALL HAVE LOCKING DUCTILE IRON RINGS AND LIDS.
- 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. BENDS TOTALING 90° AND AT 100° MAX O.C.
- ACCESS OPENINGS TO HAVE OSHA CONFINED SPACE WARNING B. 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
- WRITING OF ALL DISCREPANCIES BETWEEN THE CIVIL DRAWINGS AND THESE DRAWINGS TO CONSTRUCTION.
- IRREGULARITIES. 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.

### 

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

CONTROL STRUCTURE

SCALE: 1" = 2'

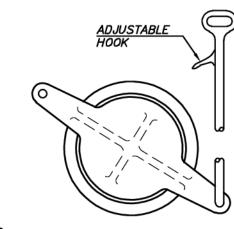
# DIMENSIONS DEPICTING OVERALL SIZE OF VAULT ARE FOR REFERENCE ONLY. SEE STRUCTURAL PLANS FOR TOTAL LENGTH, WIDTH, HEIGHT AND WALL THICKNESS DESIGN, AS WELL AS LOCATIONS JOINTS AND PENETRATIONS IN VAULT AND LID TO BE WATER TIGHT. PROVIDE WATERSTOPS IN

3. ALL WATERSTOPS TO BE INSTALLED PER PLAN AND SPECIFICATION AND TO BE INSPECTED BY

VENTILATION PIPES (MIN 12 INCH DIAMETER) PROVIDED AT CORNERS. VENT PIPE SHALL BE WALL DRAINS TO BE CONSTRUCTED OF A MINIMUM 6-INCH PERFORATED PVC PIPE SURROUNDED 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

DIMENSION AND ELEVATIONS SHOWN ON THESE DRAWINGS WITH THE CURRENT PERMITTED SET OF STRUCTURAL DRAWINGS, AND SHALL NOTIFY BOTH THE STRUCTURAL & CIVIL ENGINEERS IN

13. CONCRETE FINISH TO BE SMOOTH WITH NO FINS, VOIDS, ROCK POCKETS, OR OTHER



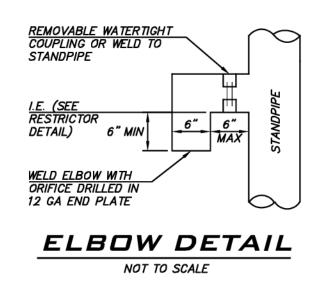
### NOTES:

1. SHEAR GATE SHALL BE: A. CAST IRON BODY AND GATE, OLYMPIC FDY, STD., OR EQUAL. 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.

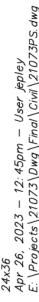
> SHEAR GATE NOT TO SCALE

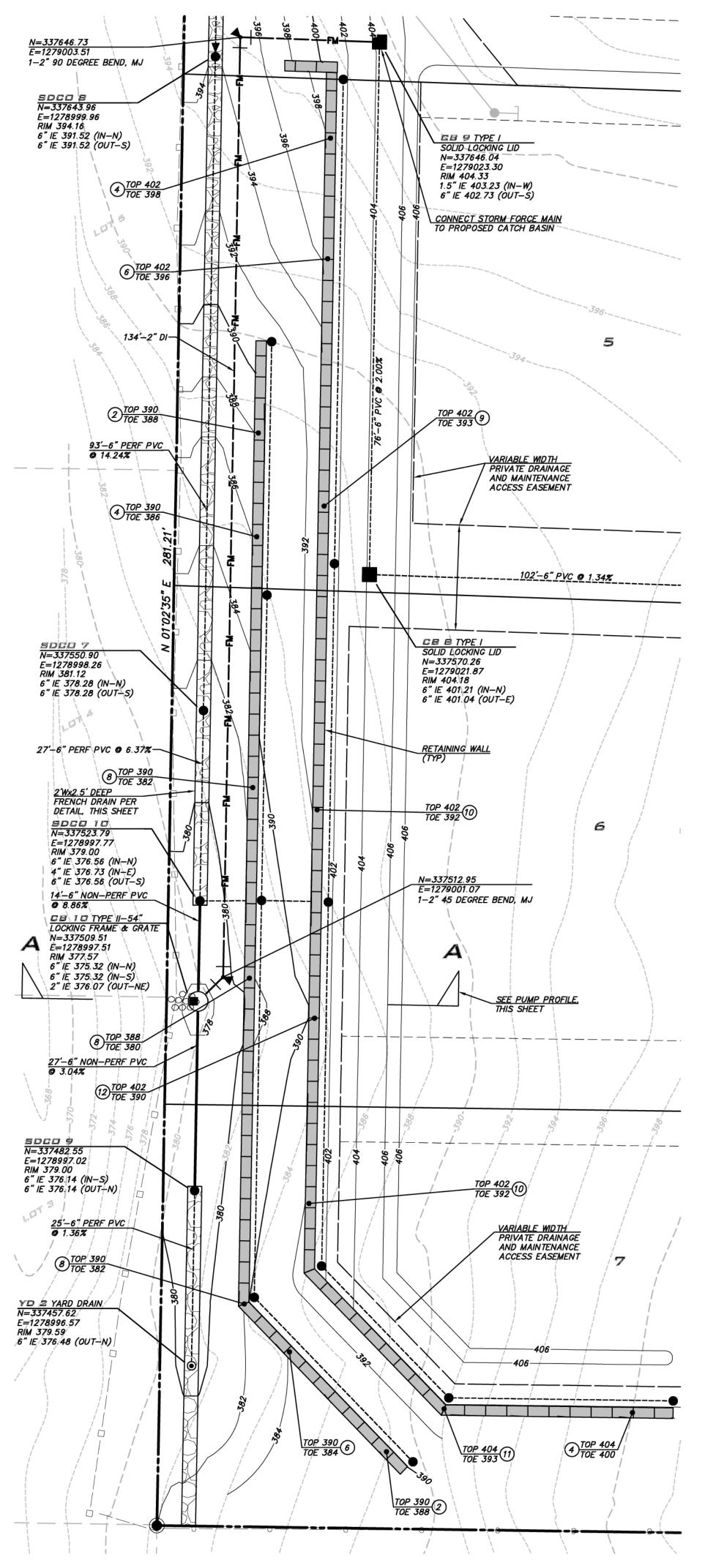


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VAULT DETAILS & NOTES			HARBOR GROVE	CIVIL PLANS	6	SNOHOMISH COUNTY WASHINGTON
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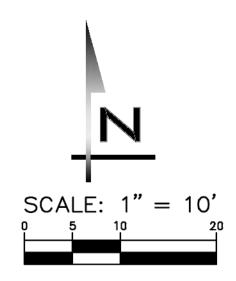
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# NW 1/4, SEC 16, TWP 28N, RGE 4E



# 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

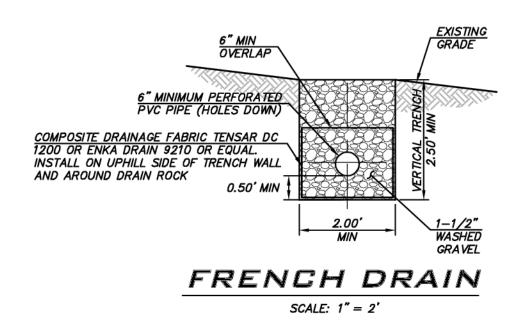
INSTALL PUMPS ON DISCONNECT RAIL SYSTEM

PROVIDE ON, OFF AND ALARM FLOAT SWITCHES

ALTERNATING DUPLEX PUMP SYSTEM CONTROL PANEL TO BE INSTALLED BY QUALIFIED ELECTRICIAN PER NATIONAL ELECTRICAL CODE

SECURE/LOCKABLE OUTDOOR DUPLEX CONTROL PANEL WITH BATTERY BACKUP ALARM

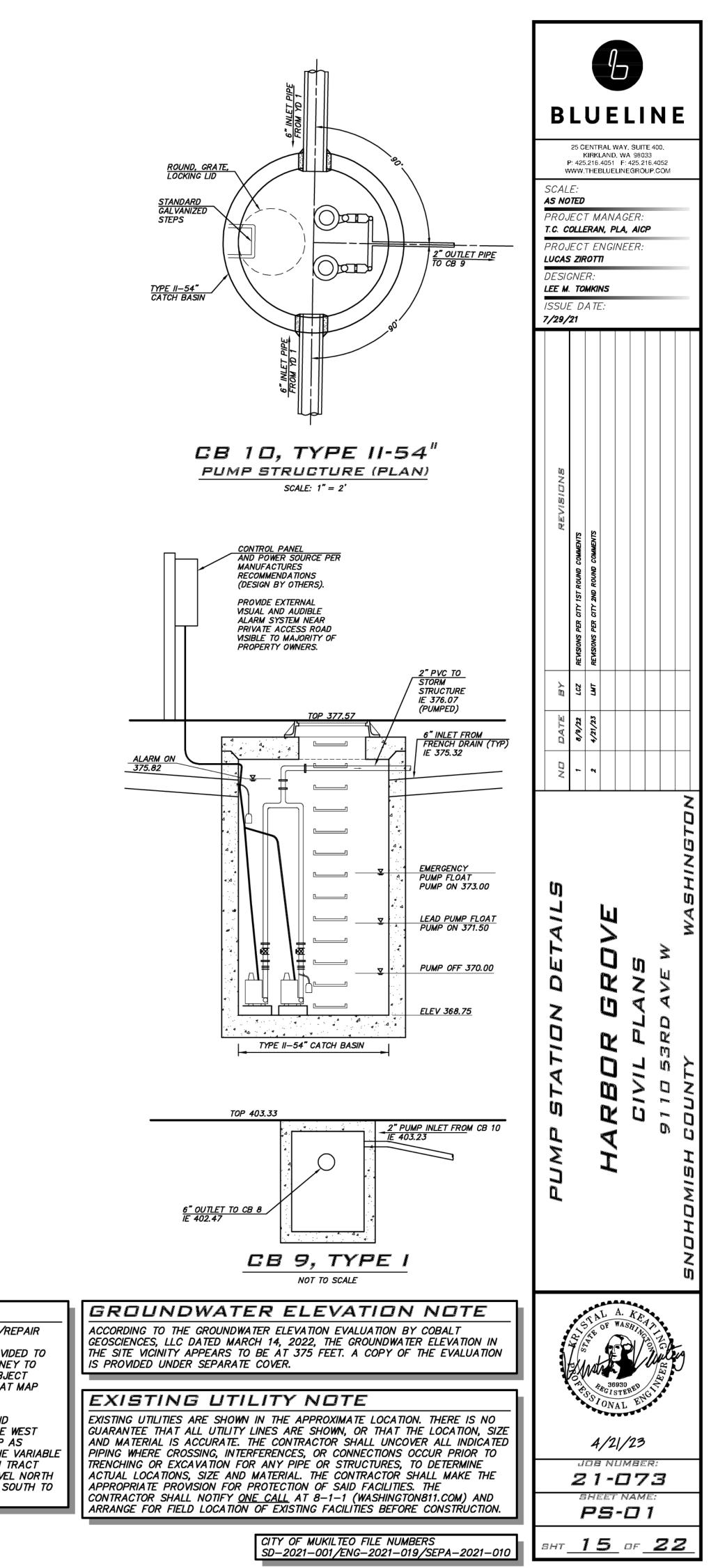
PUMPS SHALL ALTERNATE WITH ONLY ONE PUMP ON AT A TIME (NO TWO PUMP ON CONDITION) WITH MAXIMUM RUN TIME OF 30 MINUTES PER PUMP

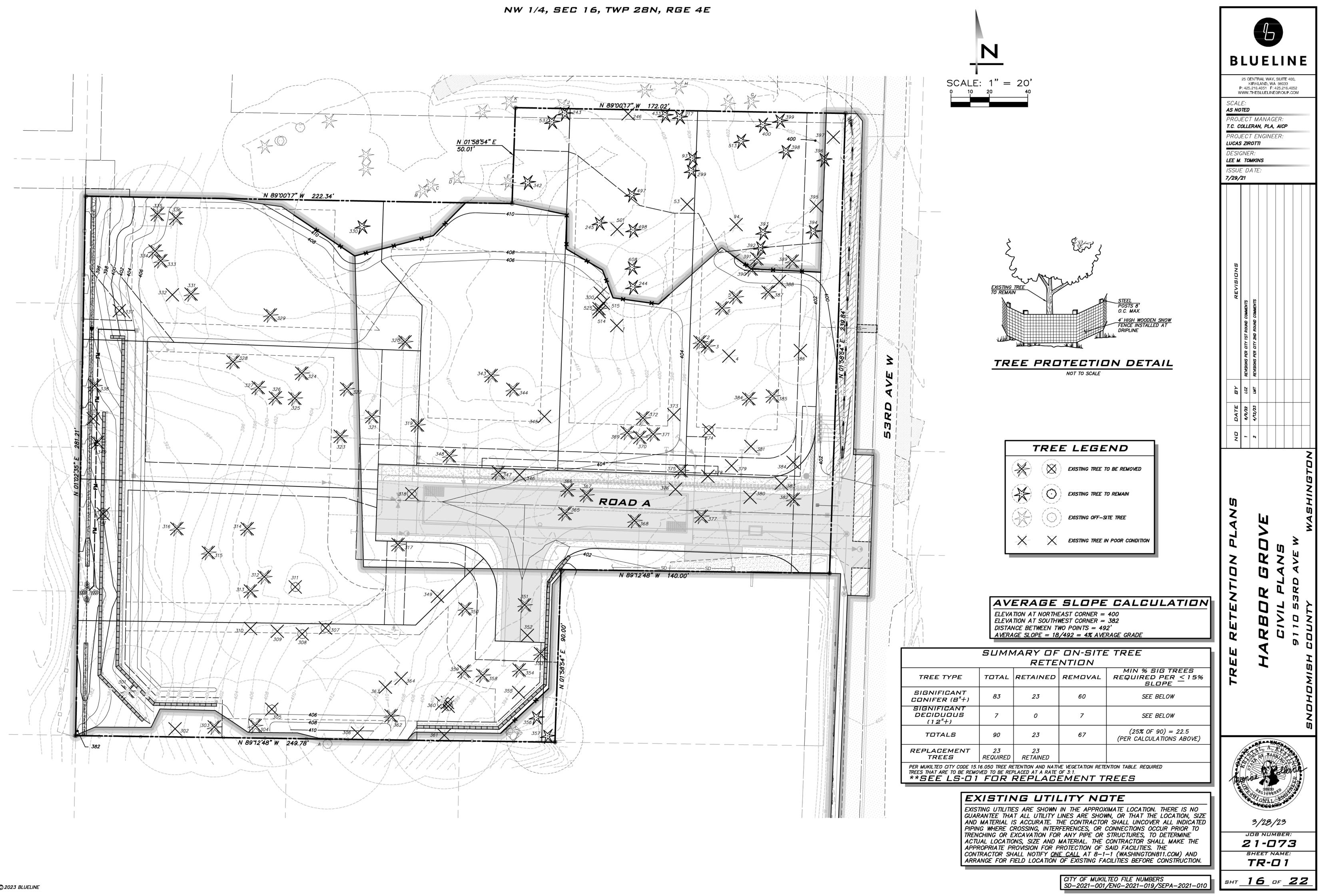


# PUMP MAINTENANGE NOTE

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.

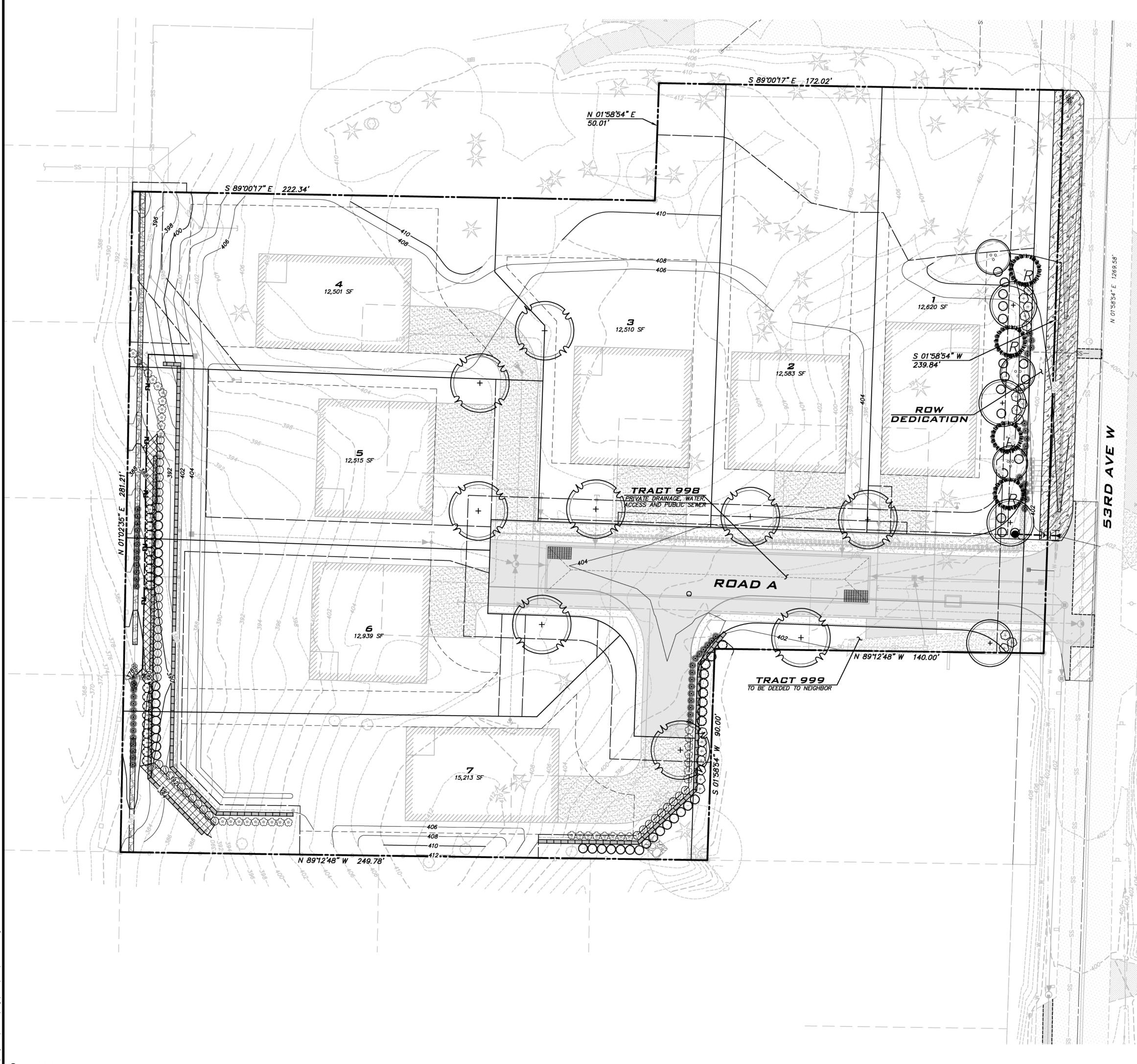




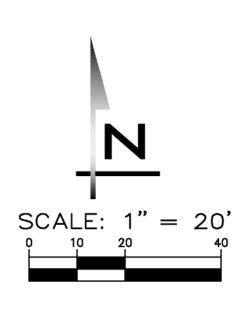
1								N	W 1/4, SE	C 16	5, TW	P 28N,	RGE	5 4E								
				Proposed Action	on CRZ/TPZ/LOD			Tagged on #340, co- dominant leaders with							Ivy @ root crown up to 15', free flowing sap, previous					Suppressed canopy, dead wood, broken branches, self-		
Tree	Adi Drip-			Ret. Poor Rem	n. Radius in feet	341 Bigleaf Bigleaf	22 22 20	OK included bark x2 @ 10', moss and lichen, typical of	1 20 20	20 20	377 Dou	glas 38 38	18		top loss, elongated branches, epicormic branch	1 18	18 18	18 498 Douglas 14 14	16	Wood, broken branches, sen K corrected lean towards : west, hanger, typical of	. 16	16 16 16
Tag # ID (in)	DBH radius	Wind- OK in firm Grove Heal	th Defects/Comments			Douolas		species							formation @ 20' towards					species		
#	(iii) (ft)			/iable healt emov	N W E S	342 Douglas fir	8 8 6	OK of species 1 Co-dominant leaders with	6 6	6 6	279 Dou	glas 16 16	15		Self-corrected lean towards east, serpentine trunk,	1 15	15 15	15 501 Douglas 24.5 24.9	5 18	Carpenter ants, woodpecker activity, taps hollow,	1 18	18 18 18
						343 Hemlock	6, 7 9 10	OK included bark x2 @ root crown, typical of species	1 10 10	10 10	fi	r 10 10	- 13		Suppressed canopy		10 10	fir 24.3 24.		asymmetric canopy towards west, lean towards west		
			Abnormal bark, shedding bark, popping bark, previous top loss, elongate			344 Western red cedar	. 9 9 9	OK Typical of species	1 9 9	99	379 Dou	glas 14 14	12		corrected lean towards south, previous top loss,	1 12	12 12	12		Co-dominant leaders with		
301 Douglas 25	25 15	Y Faiı	branches, woodpecker activity, torque crack @ ro	1	15 15 15 15	345 Black pine	e 12 12 16	Fair Trunk gall, serpentine trunk, typical of species		16 16		r			asymmetric canopy towards south			245 Douglas 39 39	18 Y F	included bark x2 @ 8', dead air wood, broken branches, hanger, previous top loss,	18	18 18 18
			crown up to 15' towards west			346 Western red cedar	9 9 8	Co-dominant leaders with Fair included bark x2 @ 10',	1 8 8	8 8					Self-corrected lean towards north, serpentine trunk,					elongated branches		
302 Red alder 20	20 12	Poo	r Dead top, previous top los @ 30', dead scaffold	ss 1	12 12 12 12	347 Hemlock	18 18 12	typical of species       Y     Fair   Nurse tree @ 6', typical of	1 12 12	12 12	380 Dou	glas 16 16 r 16 16	14		previous top loss, elongated branches, dead wood,	1 14	14 14	14 608 Douglas 16 16	10 0	Suppressed canopy, dead WK wood, broken branches,	10	10 10 10
			Exposed roots, cavity @ root crown towards west,				18 18 13	Thin canopy, dead wood, OK broken branches, exposed							broken branches, asymmetric canopy towards					typical of species Asymmetric canopy towards		
303 Douglas 42	42 14	Y Faiı	r previous top loss, elongate branches, typical of specie		14 14 14 14	546 Hellilock		roots, typical of species Topped @ 30', weak	1 13 13						Lean towards north, dead wood, broken branches,			244 Douglas 16 16	16 Y F	south, scraping wound air towards south, dead wood, i broken branches, thin	. 16	16 16 16
			woodpecker activity Previous top loss, elongate	ed		349 Douglas	29.8 29.8 18	Poor laterals, abnormal bark, shedding bark, popping	1 18 18	18 18	381 Dou	glas 18 18 r 18 18	16	Fair	dead twigs, moss and lichen, previous top loss,	1 16	16 16	16 Douglas 35 35	16 Pe	canopy		16 16 16
304 Douglas 48	48 18	ок	<ul> <li>branches, dead wood,</li> <li>broken branches, typical of</li> </ul>		18 18 18 18			bark Kink @ 50', dead wood,							elongated branches Serpentine trunk,			515 Douglas 16 16		oor cracks, bulge @ 8'		8 8 8
Rieloof			species Co-dominant leaders with			350 Douglas	34 34 20	Y Fair broken branches, previous top loss, elongated	1 20 20	20 20	382 Dou	glas 22 22	18		asymmetric canopy towards north, dead wood, broken	1 18	18 18			Co-dominant canopy,		
305 Bigleaf 16.7	16.7 16	Y Faii	r included bark x2 @ 6', wea leaders	ak 1	16 16 16 16			Previous top loss, elongated branches, dead wood,							branches, typical of species			525 Douglas 26.1 26.3	1 18 Y F	air asymmetric canopy towards west, dead wood, broken	1 18	18 18 18
306 Red alder 10.4	10.4 12	Fair	Suppressed canopy, low li r crown ratio <10%, moss	ive 1	12 12 12 12 12	351 Douglas	32 32 19	OK broken branches, asymmetric canopy towards	1 19 19	19 19	383 Dou	glas 29.5 29.1	5 20	Poor	Moss and lichen, serpentine trunk, lean towards east, previous top loss, elongated	1 20	20 20	20 Douglas		branches Ivy @ root crown up to 35', dead wood, broken		
			and lichen, failing south Moss and lichen, lean					north Exposed roots, cavity @							branches Bulge @ 20', low live crown			514 Douglas 32.5 32.1	5 18 F	branches, previous top loss, elongated branches		18 18 18
307 Japanese 10.7	10.7 14	ок	towards north, dead wood broken branches, typical o		14 14 14 14	352 Douglas fir	32 32 24	Fair root crown up to 1' towards west, woodpecker activity	1 24 24	24 24	384 Dou	glas 23.6 23.6	5 16	Fair	ratio <20%, previous top loss, elongated branches,	1 16	16 16	16 1 Douglas 18 18	18	Lean towards south, serpentine trunk,	1 18	18 18 18
			species Moss and lichen, lean			Douglas		Calloused wound @ root crown up to 1' towards							lean towards north Previous top loss, elongated			fir 10 10		asymmetric canopy towards south		
308 Japanese maple 10	10 16	Y OK/F	ai towards north, typical of species, cavity @ 5' up to the species of the specie	6' 1	16 16 16 16	353 fir		Y Fair west, low live crown ratio <20%, previous top loss, elongated branches		16 16	385 Dou	glas 21 21 r 21	18		branches, dead wood, broken branches, moss and	1 18	18 18	18 2 Douglas 16 16	12 Y F	Lean towards south, low live crown ratio <20%, previous top loss, elongated	1 12	12 12 12
			towards east Co-dominant leaders with included bark x2 @ 2',			Douolas		Dead wood, broken branches, no taper,							lichen, typical of species Lean towards east, moss		16			branches Lean towards south, self-		
309 Japanese maple 10, 8	13 18	Fair	r cavity on scaffold, dead scaffolds, dead wood, mos	ss   1	18 18 18 18	554 fir	16 16 16	OK suppressed canopy, typical of species		10 16	Soo Red a	alder 11 11	dT		and lichen Low live crown ratio <30%,	1 16	16 16	16 3 Douglas 28 28		corrected lean towards north, asymmetric canopy		16 16 16
			and lichen Ivy @ root crown up to 20					Previous top loss @ 30', strong leader, suppressed			387 Dou	glas 23.5 23.1	5 16		asymmetric canopy towards south, dead wood, broken	1 16	16 16			towards south, dead wood, broken branches, typical of		
310 Japanese maple 10	10 18	Fair	r lean towards west, moss and lichen, typical of	1	18 18 18 18	355 Douglas	14 14 12	Fair canopy, dead wood, broken branches, thin canopy,	1 12 12	12 12				r	branches, co-dominant canopy, typical of species			4 Douglas 18 18		Self-corrected lean towards air north, low live crown ratio	1 18	18 18 18
			Species Co-dominant leaders with included bark x2 @ root					asymmetric canopy towards south, lean towards south			388 Dou fi	glas 16 16 r 16	16	Fair	No taper, kink @ 20', previous top loss @ 40'	1 16	16 16	+		<5% Previous top loss, elongated		
311 Madrona 14, 4	14.5 14	ОК	<ul> <li>crown, ivy @ root crown u</li> <li>to 15', typical of species</li> </ul>		14 14 14 14		12 12 12	Y Fair asymmetric canopy towards 1	10 10						Abnormal bark, shedding bark, popping bark, dead			5 Douglas 21 21	18 Y F	branches, dead wood, air broken branches, dead	1 18	18 18 18
212 Western			Co-dominant leaders with included bark x2 @ root					east, typical of species			389 Dou	glas r 34.2 34.3	2 15	Y Fair	wood, broken branches, previous top loss, elongated	1 15	15 15	15		twigs, low live crown ratio		
312 Western red cedar 16, 8		ОК	crown, ivy @ root crown u to 6', twisted trunk, typica of species		10 10 10 10		20 20 14	YFairNurse tree, exposed roots,YFairasymmetric canopy towards1	14 14	14 14					branches, typical of species			6 Douglas 43.7 43.7	7 22 0	Previous top loss, elongated           branches, asymmetric           canopy towards south,	1 22	22 22 22
			Co-dominant leaders with included bark x2 @ root					west, typical of species           Abnormal bark, shedding			Dou	glas 22 22	16		Asymmetric canopy towards west, low live crown ratio <30%, abnormal bark,	1 16	16 16			nurse tree		
313 Western 4, 20 red cedar 4, 20	20.5 13	Y Faii	r crown, dead top, ivy @ roo crown up to 30',	ot 1	13 13 13 13	358 Douglas	49.7 49.7 21	bark, popping bark, low liveYFaircrown ratio30%, dead	1 21 21	21 21	1 <sup>390</sup> fi	r 22 22	10		shedding bark, horizontal crack @ 6' towards east	1 10	10 10					
			woodpecker activity Ivy @ root crown up to 10	)',				wood, broken branches, typical of species			Dau	alaa			Low live crown ratio <20%,							
314 Douglas 28	28 15	Y Faiı	r thin canopy, dead wood, broken branches, typical c species	of 1	15 15 15 15			Low live crown ratio <20%, asymmetric canopy towards west, previous top loss,			391 Dou	glas 29 29 r 29	18		previous top loss, elongated branches, red ring rot, typical of species	1 18	18 18	18				
315 Douglas 34	34 18	ок	Thin canopy, dead wood, broken branches, ivy @ ro	pot 1	18 18 18 18	359 Douglas fir	34 34 20	Y Fair calloused wound @ 15	1 20 20	20 20	392 Dou	glas 13 13	12		Suppressed canopy, dead wood, broken branches,	1 12	12 12	12				
			crown up to 20' Ivy @ root crown up to 20	)',				towards south, typical of species, abnormal bark,			393 Dou				previous top loss Dead wood, broken							
316 Scots pine 14	14 15	ОК	<ul> <li>serpentine trunk, moss an lichen, typical of species</li> </ul>	nd 1	15 15 15 15			shedding bark Co-dominant leaders with			<sup>393</sup> fi	r 35 35	18		branches, previous top loss, elongated branches	1 18	18 18					
317 Hemlock 26	26 21	ок	Nurse tree, thin canopy, dead wood, broken branches, typical of specie	es 1	21 21 21 21	360 Bigleaf maple	14, 28, 18 36 30	Y Fair cavity @ crotch, exposed roots, moss and lichen,	1 30 30	30 30		glas 36.6 36.0			Previous top loss, elongated branches, asymmetric							
318 Beech 18	18 24	Goo	d Typical of species	1	24 24 24 24			hypoxylon canker			<sup>394</sup> fi	r 36.6 36.6	6 22		canopy towards east, dead wood, broken branches, typical of species	1 22	22 22	22				
319 Hemlock 16	16 14	Y Faiı	Thin canopy, dead wood, r broken branches, exposed roots, typical of species		14 14 14 14	maple	18 18 20	Previous top loss @ 50', Fair asymmetric canopy towards south, dead scaffolds	1 20 20	20 20					Abnormal bark, shedding							
320 Western red cedar 44	44 18	ок	Nurse tree, large cavity up to 8', carpenter ants ,	P	18 18 18 18			Co-dominant leaders with			395 Dou	glas 22 22 r 22	16	Poor	bark, previous top loss @ 6', dead spur, asymmetric canopy towards east, taps	1 16	16 16	16				
			typical of species Co-dominant leaders with					included bark x2 @ root crown, abnormal bark,							hollow Suppressed canopy,							
white pine 6, 6		ОК	<ul> <li>included bark x4 @ root crown, typical of species</li> </ul>		10 10 10 10		14, 40 42.5 24	OK shedding bark, popping bark, woodpecker activity, previous top loss, elongated	1 24 24	24 24	396 Dou	glas 11 11 r 11	12	ок	previous top loss, lean towards east, asymmetric	1 12	12 12	12				
	10 10	ОК	<ul> <li>Dead wood, broken</li> <li>branches, typical of specie</li> <li>Thin canopy, low live crow</li> </ul>		10 10 10 10			branches, typical of species							canopy towards east Thin canopy, dead wood,							
323 Douglas 10 fir 10	10 14	ок	ratio <30%, typical of species		14 14 14 14	Develop		Previous top loss @ 50', weak leader, abnormal			397 Dou fi	glas 15 15 r 15 15	16		broken branches, asymmetric canopy towards northeast	1 16	16 16	16				
324 Douglas fir 10	10 14	Y Faii	Thin canopy, co-dominant canopy, typical of species	1	14 14 14 14	363 Douglas fir	28 28 28	Poor popping bark, failing towards north, laminated	1 28 28	28 28		glas (p) (p)	22		Previous top loss, elongated branches, dead wood,							
325 Douglas 4, 13	12.5 14	ок	Co-dominant leaders with included bark x2 @ root		14 14 14 14			root rot? No taper, abnormal bark,				glas 42 42 r 42	22		broken branches, typical of species	1 22	22 22	22				
Western 14		ОК	<ul> <li>crown, failing south, thin canopy, typical of species</li> <li>Thin canopy, typical of</li> </ul>			364 Douglas	18 18 18	shedding bark, popping Poor bark, previous top loss,	1 18 18	18 18	94 Dou fi	r í í	14	Poor	Previously girdled with wire @ 4', free flowing sap Suppressed capopy	1 14	14 14	14				
<sup>326</sup> red cedar <sup>14</sup> 327 Western	9 12	ок	species		14         14         14         14           13         13         13         13			elongated branches, laminated root rot? Asymmetric canopy towards			399 Dou	glas 13.8 13.8	8 8	Y Fair	Suppressed canopy, serpentine trunk, dead : wood, broken branches :	1 8	8 8	8				
327 red cedar 328 Western 328 red cedar 8	8 10	ОК	. Thin canopy, typical of		13         13         13         13           10         10         10         10	365 Hemlock	15 15 14	OK OK branches, exposed roots,	1 14 14	14 14	400 Dou	glas 26.2 26.2	2 10		Previous top loss, elongated branches, dead wood,	1 .	18	18				
<sup>320</sup> red cedar			species Previous top loss, elongate					typical of species Dead wood, broken			400 fi	r 26.2 26.3	z 18	Y Fair	broken branches, typical of species		18 18	16				
329 Douglas fir 72	72 45	ОК	<ul> <li>branches, scraping wound</li> <li>30' up to 40' towards east,</li> <li>typical of species</li> </ul>		45 45 45 45	366 Hemlock	7 7 8	Y Fair branches, suppressed canopy	1 8 8	8 8	E10 Dou	glas 28.8 28.8			Low live crown ratio <30%, previous top loss, elongated branches, dead wood,		10 10	18				
			typical of species Previous top loss, elongate	ed l		367 Douglas fir	14 14 14	Y Fair branches, suppressed canopy, typical of species	1 14 14	14 14	<sup>313</sup>   fi	r   20.0   28.3	- 10		branches, dead wood, broken branches, typical of species		18 18					
330 Douglas 61	61 45	ок	branches, dead wood, broken branches, previous	s 1	45 45 45 45	Douglas	32 32 18	Dead wood, broken branches, previous top loss,			93 Dou	glas 8 8 r 8	8	r Fair	Suppressed canopy, thin canopy	1 8	8 8	8				
Vestern 14			ivy @ root crown up to 50'	<sup>1</sup>		-	32 32 18	elongated branches, typical of species		18 18	299 Dou	glas			Ivy @ root crown up to 25', co-dominant canopy,		10					
<sup>331</sup> red cedar <sup>14</sup>	14 14	ОК	species Dead wood, broken		14 14 14 14	4 1 1		Kink @ 25', asymmetric canopy towards west, Fair provious top loss, alongated			299 fi	r 24 24	18		asymmetric canopy towards west, previous top loss, elongated branches	18	18 18					
332 Norway spruce 8	8 8	Fair	r branches, spruce adelgid, ivy @ root crown up to 50'	P	8 8 8 8	fir	26 26 16	Fair previous top loss, elongated branches, self-corrected lean		16 16		glas 26 26			Self-corrected lean towards north, woodpecker activity,							
333 Douglas 35	35 22		Previous ivy @ root crown up to 80', racoon scat, dea wood, broken branches,	ad	22 22 22 22	370 Douglas	13 13 12	Previous top loss @ 30', Poor moss and lichen, failing	1 12 12	12 12	53 50a	r 26 26	20		carpenter ants, dead wood, broken branches	1 20	20 20	20				
fir 35			previous top loss, elongate branches	ed				towards south Dead wood, broken							Girdled by barb wire fencing @ 4', co-dominant canopy,							
Develop			Asymmetric canopy toward east, previous top loss,	rds		371 Douglas	21.5 21.5 18	OK branches, previous top loss, elongated branches, low live	1 18 18	18 18	217 Dou	glas 30 30	22	Y Fair	low live crown ratio <30%, previous top loss, elongated	1 22	22 22	22				
334 Douglas 32 fir 32	32 22	ок	elongated branches, dead wood, broken branches,		22 22 22 22	Western		crown ratio <30% Asymmetric canopy towards							branches, dead wood, broken branches							
335 Douglas 8	8 12	ок	typical of species Asymmetric canopy toward west, perennial canker,	rds 1	12 12 12 12	red cedar	18 18 14	OK west, dead top, co-dominant canopy, typical of species	1 14 14	14 14	433 Dou	glas 16 16	10	V Eair	Suppressed canopy, asymmetric canopy towards	1 10	10 10	10				
335 fir 8			typical of species			Western		Cavity @ root crown up to 6' towards east, previous top			fi	r 10 16	10		south, no taper, typical of species	• 10	10 10					
336 Douglas 8	8 8	ок	Asymmetric canopy toward west, ivy @ root crown up 20', typical of species		8 8 8 8	373 red cedar	31 31 14	Fair Iowards east, previous top Ioss @ 10', weak leader, co- dominant canopy	1 14 14	14   14					Previous top loss, elongated branches, asymmetric							
Bigleaf			Moss and lichen, typical of					Co-dominant leaders with included bark x2 @ root			246 Dou fi	r 22 22	18	ОК	canopy towards west, dead wood, broken branches,	1 18	18 18		EXISTINI	J UTILITY NO	TE	L
337 Bigleaf 30	30 18	ОК	<ul> <li>species, slight lean toward west</li> </ul>		18 18 18 18	374 Bigleaf maple	36, 12 38 21	OK dead wood, broken	1 21 21	21 21					typical of species Asymmetric canopy towards				EXISTING UTILITIES	ARE SHOWN IN THE APPROX	IMATE LOCATION.	
338 Douglas 13	13 14	ок	Low live crown ratio < 30%	ed 1	14 14 14 14			branches, hanger, typical of species			243 Dou	glas 22 22	18	V Enir	east, dead wood, broken branches, previous top loss,	1 18	18 18		GUARANTEE THAT A AND MATERIAL IS A	LL UTILITY LINES ARE SHOW CCURATE. THE CONTRACTOR	N, OR THAT THE SHALL UNCOVE	E LOCATION, SIZE
339 Bigleaf maple 22	27 10	ОК	branches, typical of specie Moss and lichen, typical of		18 18 18 18	Douglas		Low live crown ratio <5%, previous top loss, elongated			"				elongated branches, exposed roots, moss and lichen				PIPING WHERE CROS TRENCHING OR EXC	SSING, INTERFERENCES, OR ( AVATION FOR ANY PIPE OR	CONNECTIONS OC STRUCTURES, TO	CUR PRIOR TO
maple 22			species Woodpecker activity,				16 16 15	OK branches, dead wood, broken branches, typical of species		15 15	537 Dou	glas 36 36	18		lichen Ivy @ root crown up to 15', hanger, dead wood, broken	1 18	18 18	18	ACTUAL LOCATIONS	SIZE AND MATERIAL. THE	CONTRACTOR SH. SAID FACILITIES.	ALL MAKE THE
340 Lodgepole 16	16 18	Y Fair	horizontal crack @ 12' towards east, asymmetric canopy towards south,		18 18 18 18			Co-dominant leaders with included bark x2 @ root			fi	r55			branches, typical of species Ivy @ root crown up to 30',				CONTRACTOR SHALL	NOTIFY <u>ONE CALL</u> AT 8–1 D LOCATION OF EXISTING FA	-1 (WASHINGTON	811.COM) AND
			typical of species			376 Douglas	12, 16 20 14	Fair crown, previous top loss, dead wood, broken	1 14 14	14 14	497 Dou	glas 19.7 19.7	7 18		pin point crack @ 5', free flowing sap, dead wood,	1 18	18 18	18				
© 2023 BLUELINE								branches, asymmetric canopy towards west			fi	r			broken branches, previous top loss, elongated branches						TEO FILE NUMBE /ENG-2021-019	RS /SEPA-2021-010
												<u> </u>			มาสาเปาธร		I	J			0_; 013	

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

16	Б								
18	BLUELINE								
18	25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM								
10	SCALE: AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP								
16	PROJECT ENGINEER: LUCAS ZIROTTI DESIGNER:								
16 8	LEE M. TOMKINS ISSUE DATE: 7/29/21								
18									
18									
12									
16	REVISIONS								
18	REVI								
18	ST ROUND COM								
22	REVISIONS PER CITY 1ST ROUND COMMENTS REVISIONS PER CITY 2ND ROUND COMMENTS								
	LAT REVIS								
	DATE L 8/9/22 L								
	TREE RETENTION DETAILS HARBOR GROVE CIVIL PLANS 9110 53RD AVE W SNOHOMISH COUNTY WASHINGTON								
E IS NO TION, SIZE INDICATED RIOR TO RMINE AKE THE M) AND TRUCTION.	3/28/23         З/28/23         ЗНЕЕТ NAME:         ТР. 02         БНЕ 17         05         21-073         3        <								
-2021–010	внт <b>17</b> ог <b>22</b>								



24x36 Apr 19, 2023 – 4:23pm – User Itomk E: \Projects\21073\Dwg\Final\Civil\21



### PLANT SCHEDULE

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

5 / 4 3 6 / 9 2 7 2 /

RAIN GARDEN

<u>RAIN GARDEN PLANTS PER SW-047</u> 2,494 SF -



# 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.

> CITY OF MUKILTEO FILE NUMBERS SD-2021-001/ENG-2021-019/SEPA-2021-010

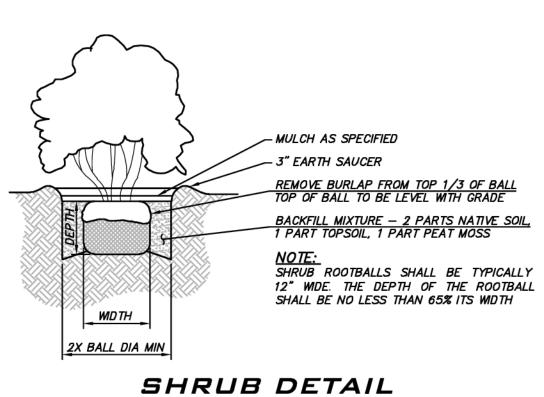
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w SCAL <b>AS NO</b> PROJ	2:425. WW. TED ECT OLLE ECT OLLE ECT OLLE ECT OLLE ECT OLLE	.216 Thee <b>RAI</b> <b>CAT</b> R:	ANA ANA N, PLA NGINE NS	: 425.216 IEGROUI GER: <b>, AICP</b>	i.4052 P.COM	
ND DATE BY REVISIONS	1 8/9/22 LCZ REVISIONS PER CITY 1ST ROUND COMMENTS	2 4/12/23 LMT REVISIONS PER CITY ZND ROUND COMMENTS				
LANDSCAPE PLANS			HARBOR GROVE	CIVIL PLANS	9110 53RD AVE W	SNOHOMISH COUNTY WASHINGTON
		3,	128,			}

LS-01

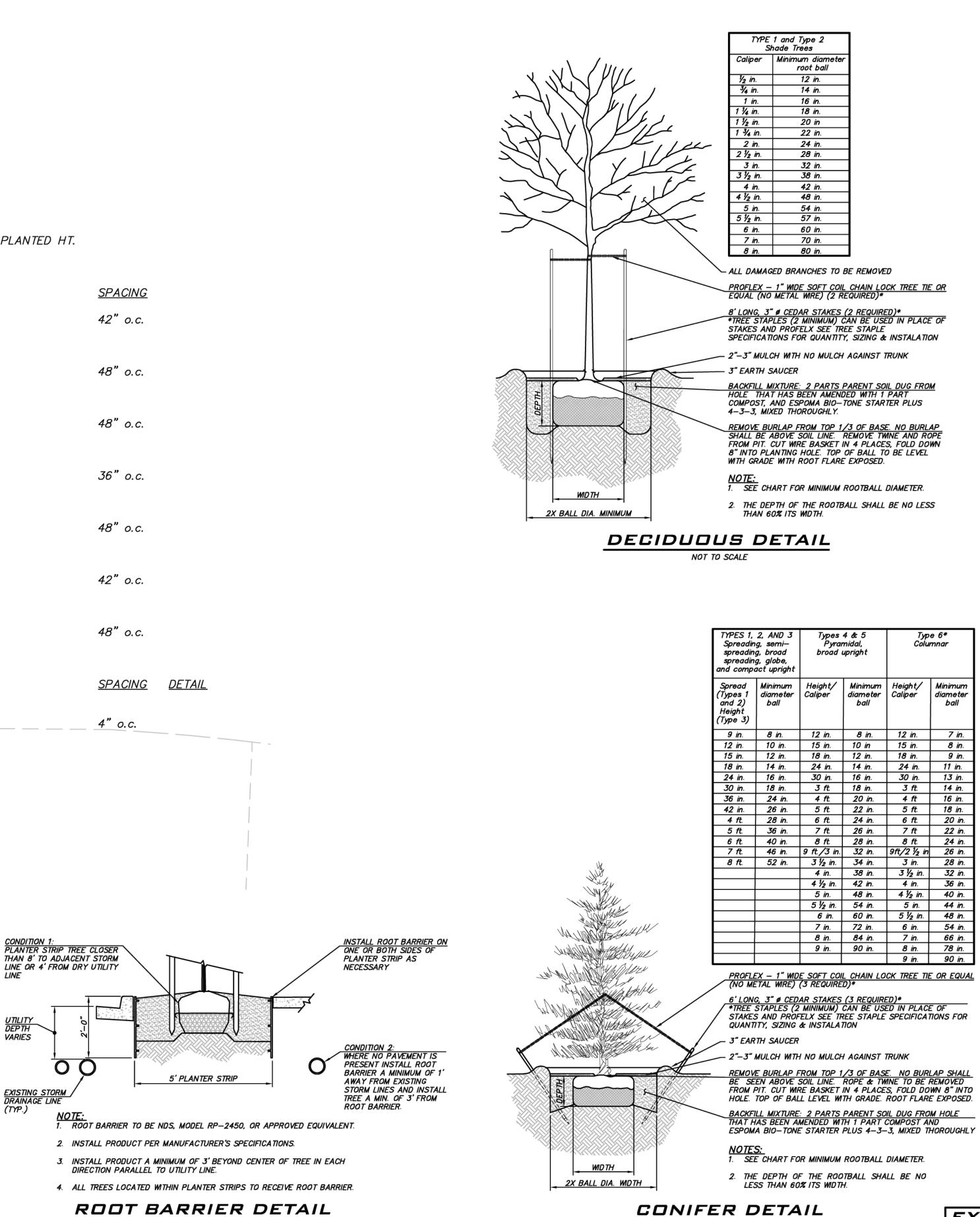
SHT **18** of **22** 

# PLANT SCHEDULE

	<u>TREES</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>SIZE</u>
		3	ACER CIRCINATUM VINE MAPLE	B & B	2" CAL
A.	- And	9	ACER RUBRUM 'FRANKSRED' TM RED SUNSET MAPLE	B & B	2" CAL
	+	4	CERCIDIPHYLLUM JAPONICUM KATSURA TREE	B & B	2" CAL
	REPLACEMENT TREES	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>SIZE</u>
		4	THUJA PLICATA 'EXCELSA' WESTERN RED CEDAR	B & B	8' MIN PLANTED HT.
	<u>SHRUBS</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>SIZE</u>	<u>HEIGHT</u>
	$\bigcirc$	42	CORNUS SERICEA 'ARTIC FIRE' ARTIC FIRE DOGWOOD	5 GAL	
	$\bigcirc$	9	LONICERA INVOLUCRATA TWINBERRY	5 GAL	
	(+)	20	LONICERA NITIDA 'BAGGESEN'S GOLD' BOXLEAF HONEYSUCKLE	5 GAL	
	е таба таба таба таба таба таба таба таб		PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS	1 GAL	
	$\bigcirc$	20	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	5 GAL	
	$\langle \circ \rangle$	36	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY	3 GAL	
	$\odot$	48	VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	5 GAL	
	<u>GROUND COVERS</u>	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CONT</u>	<u>SIZE</u>
		4,692	COTONEASTER DAMMERI 'CORAL BEAUTY' CORAL BEAUTY COTONEASTER	FLAT	
	RAIN GARI	DEN			
	RAIN GAI	R <u>DEN PLA</u>	<u>NTS PER SW-047</u> 2,494 SF		



NOT TO SCALE



NOT TO SCALE

UTILITY DEPTH

VARIES

EXISTING STORM DRAINAGE LINE (TYP.)

# LANDSCAPE NOTES:

- 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.

	DESIGNER: LEE M. TOMKINS JSSUE DATE: 7/29/21						
	REVISIONS	REVISIONS PER CITY 1ST ROUND COMMENTS	REVISIONS PER CITY 2ND ROUND COMMENTS				
	E BY	ZD7 Z	23 LMT				
	ND DATE	8/9/22	2 4/12/23				
	LANDSCAPE DETAILS			HARBOR GROVE	CIVIL PLANS	9110 53RD AVE W	SNOHOMISH COUNTY WASHINGTON
- - -	3/28/23 JOB NUMBER:					}	

21-073

SHEET NAME:

LS-02

SHT **19** of **22** 

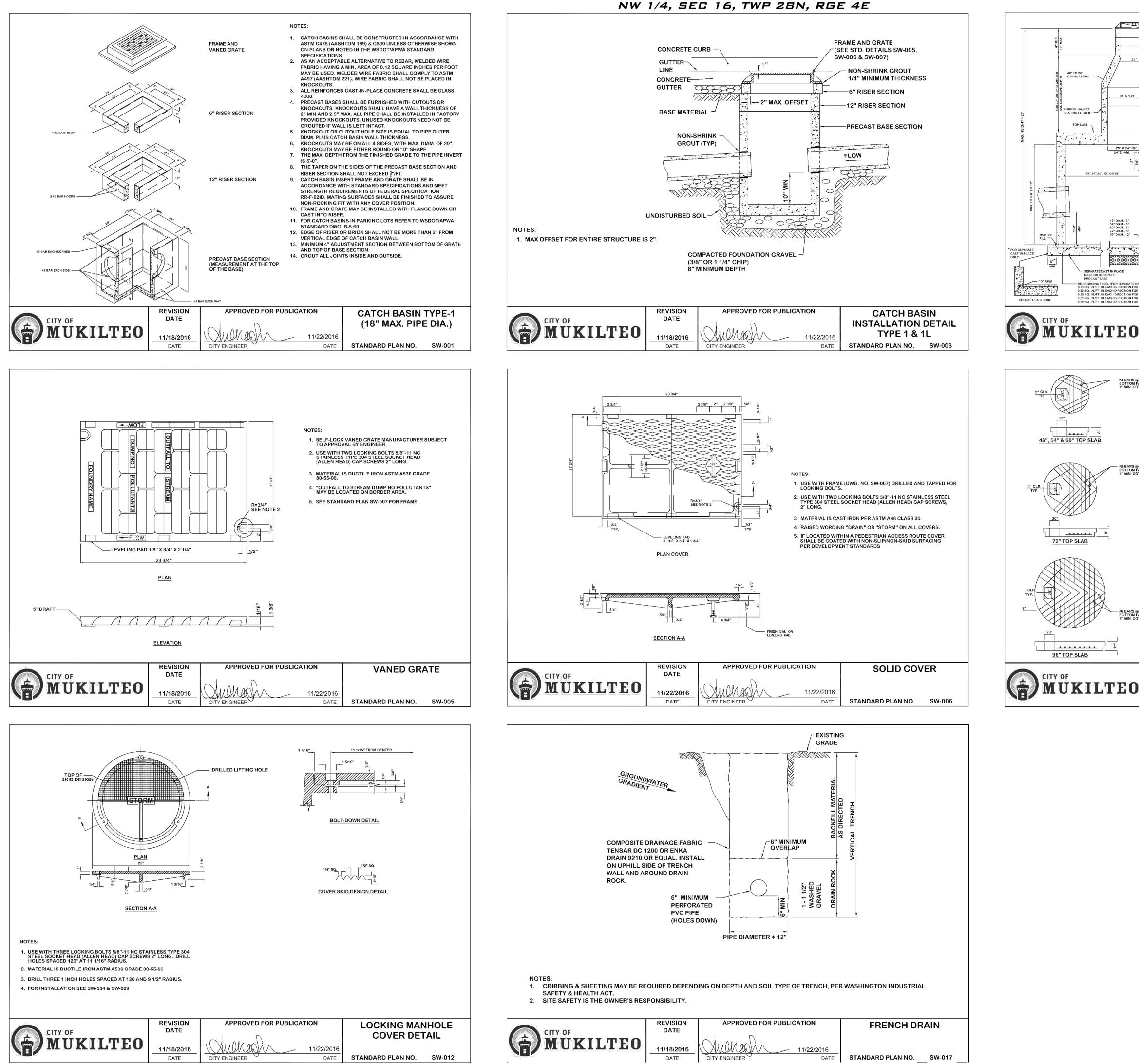
CITY OF MUKILTEO FILE NUMBERS SD-2021-001/ENG-2021-019/SEPA-2021-010

	Type 6* Columnar					
m er	Height/ Caliper	Minimum diameter ball				
	12 in.	7 in.				
	15 in.	8 in.				
	18 in.	9 in.				
	24 in.	11 in.				
	30 in.	13 in.				
	3 ft.	14 in.				
	4 ft	16 in.				
	5 ft.	18 in.				
	6 ft.	20 in.				
	7 ft	22 in.				
	8 ft.	24 in.				
	9ft/2 ½ in	26 in.				
	3 in.	28 in.				
	3 ½ in.	32 in.				
	4 in.	36 in.				
	4 ½ in.	40 in.				
	5 in.	44 in.				
	5 ½ in.	<b>48 in</b> .				
	6 in.	54 in.				
	7 in.	66 in.				
	8 in.	78 in.				
	9 in.	90 in.				

NOT TO SCALE

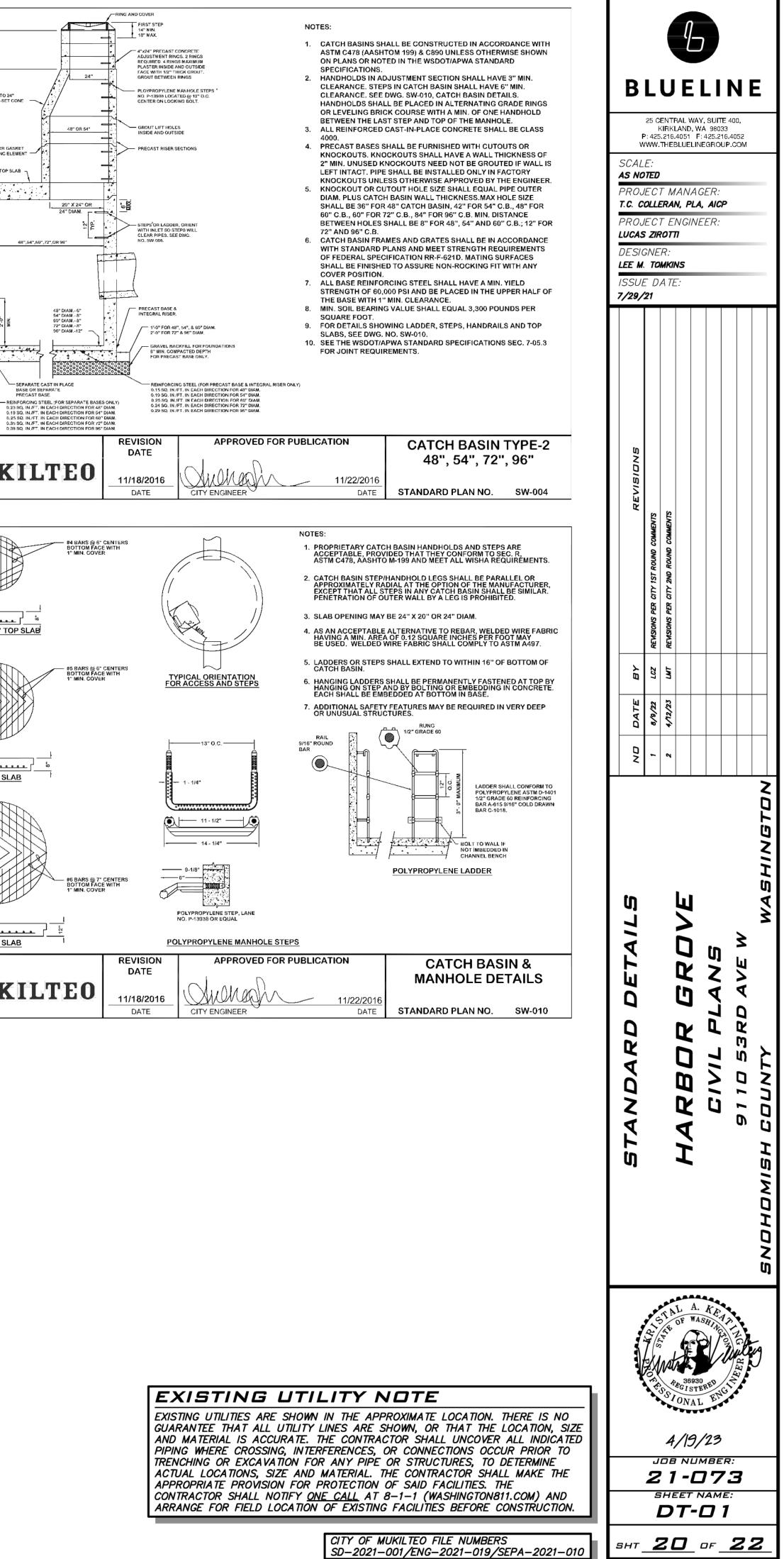
# EXISTING UTILITY NOTE

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.



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<u>....</u> 96" TOP SLAB MUKILTEO



# <u>NOTES</u>

# UTILITY TRENCH RESTORATION DETAIL

- 9. TRENCHES IN CONCRETE PAVEMENT SHALL BE RESTORED USING TIE BARS OR DOWEL BARS IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-04.
- 8. COVER DEPTH OVER UNDERGROUND UTILITIES SHALL CONFORM TO FEDERAL AND STATE REGULATIONS.
- SECTION 5-04.
- 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 BE ACCOMPLISHED BY USING ASPHALT, OR STEEL PLATES.
- SEAL WITH HOT ASPHALT CEMENT.
- (CDF) A MINIMUM OF 6" FROM TOP OF EXISTING ASPHALT. 5. NEAT LINE CUT, CLEAN, HEAT & TACK EDGES WITH SEALER CSS-1 &
- 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
- 2. EXISTING PAVEMENT. 3. TRENCH - 6" OF HMA OR MATCH EXISTING ASPHALT, WHICHEVER IS
- 1. A 2" HMA OVERLAY

SIX EVENLY SPACED HOLES-ON 10 3/8" BOLT CIRCLE FOR BOLTING TO FLANGE CONNECTION.

NOTES

LEVEL LINE

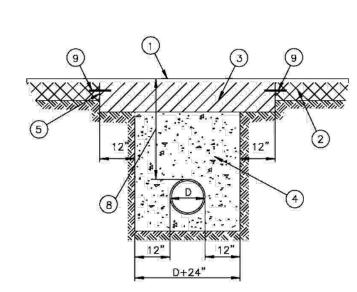
2. GATE SHALL BE 8" DIAM. UNLESS OTHERWISE SPECIFIED.

FRONT

7. MATING SURFACES OF LID AND BODY TO BE MACHINED FOR PROPER FIT 8. FLANGE MOUNTING BOLTS SHALL BE 3/8" DIAM. STAINLESS STEEL.

**UKILTEO** 

ASPHALT OR CONCRETE PAVEMENT:

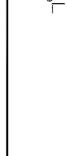


11/22/2016

DATE

6" OR 8" PIPE





STANDARD PLAN NO. SW-018

SEE NOTE 5

MAXIMUM OPENING

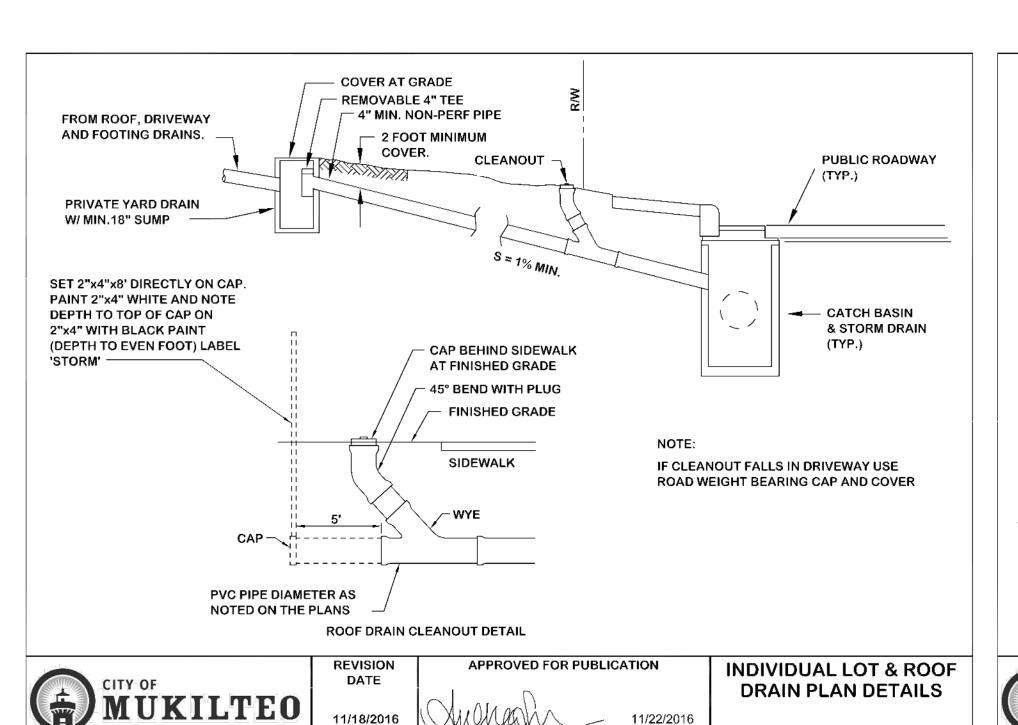
OF GATE

SHEAR GATE

DETAIL

STANDARD PLAN NO. SW-077

DATE



CITY ENGINEER

ADJUSTABLE LOCK HOOK WITH LOCK SCREW

1" ROD OR TUBING, VARIABLE LENGTH.

DATE

LIFT HANDLE

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RECOMMENDATIONS

1. SHEAR GATE SHALL BE ALUMINUM ALLOY PER ASTM B-26-ZG-32a OR CAST IRON ASTM A48 CLASS 30B AS REQUIRED.

5. GATE SHALL NOT OPEN BEYOND THE CLEAR OPENING BY LIMITED HINGE MOVEMENT, STOP TAB, OR SOME OTHER DEVICE.

REVISION

DATE

11/18/2016

DATE

3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.

6. NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.

LIFT HANDLE SHALL BE ATTACHED PER MANUFACTURER'S

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.

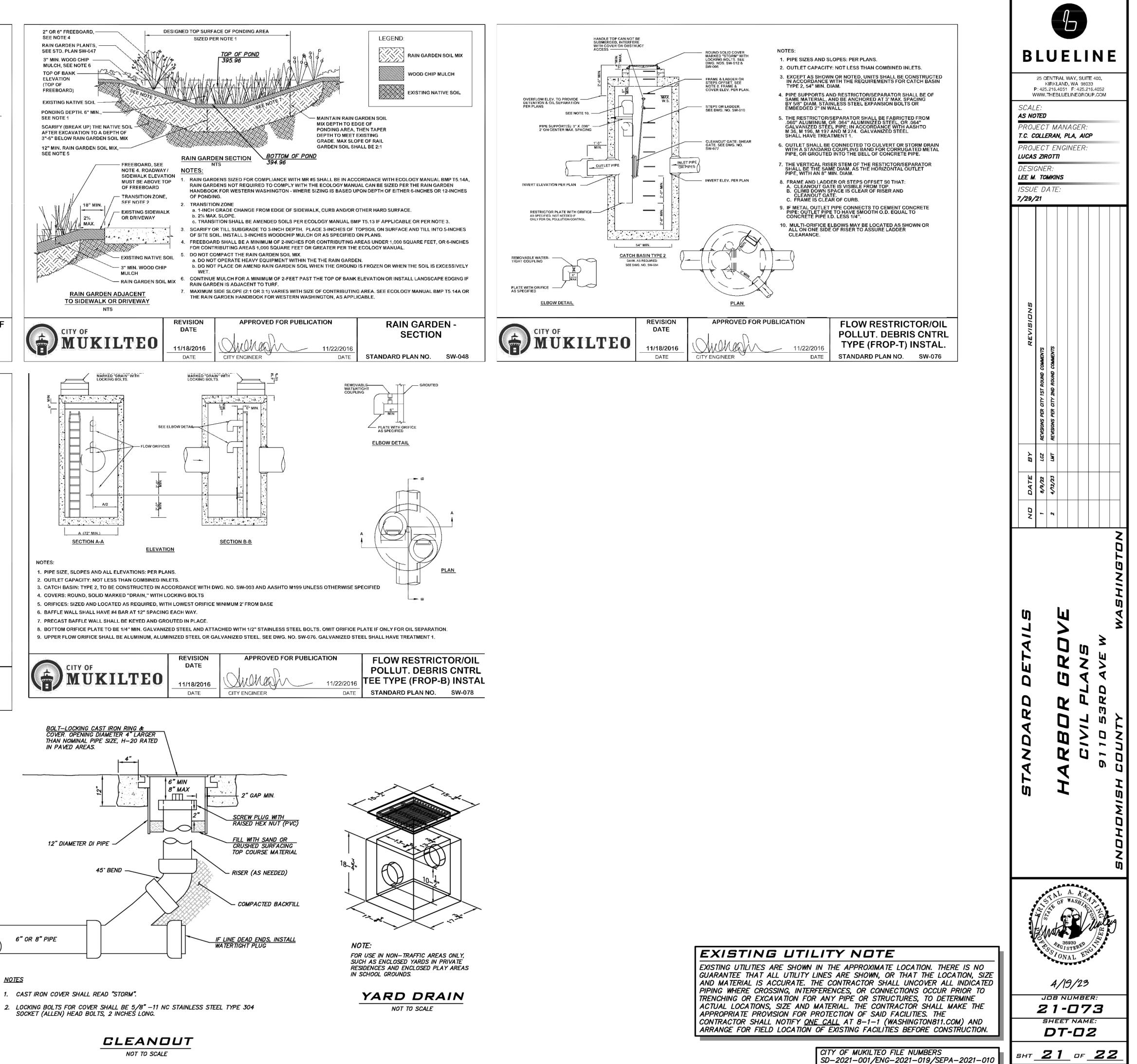
9. ALTERNATE CLEANOUT/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE, PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8" BOLT CIRCLEFOR BOLTING TO THE FLANGE CONNECTION.

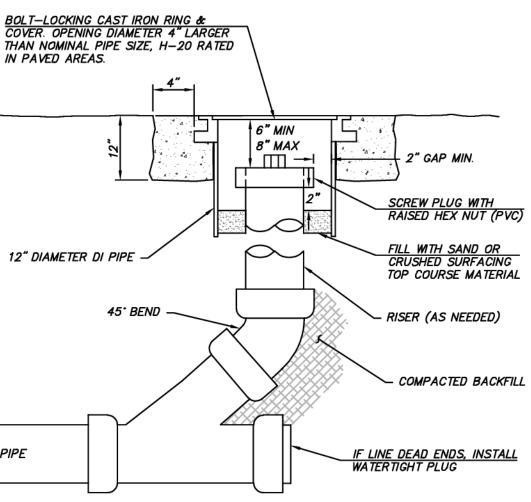
CITY ENGINEER

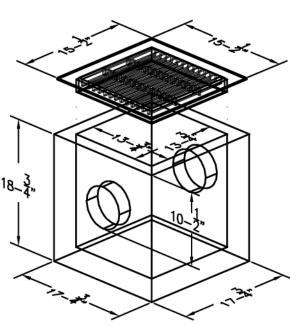
SIDE

APPROVED FOR PUBLICATION

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



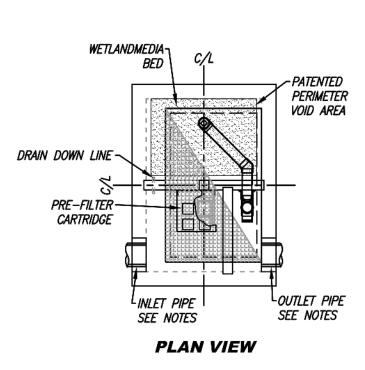








SITE SPECIFIC DATA							
PROJECT NUMBL	R	738522					
PROJECT NAME		9110 53rd Ave W					
PROJECT LOCAT	ION	Mukilteo, WA					
STRUCTURE ID		Modular Wetland					
TREATMENT REQUIRED							
FLOW BASED (CFS)							
0.0305							
PEAK BYPASS R	PEQUIRED (CFS) –	IF APPLICABLE	0.0888 (CFS)				
PIPE DATA	I.E.	MATERIAL	DIAMETER				
INLET PIPE 1	392.72	PVC	12"				
INLET PIPE 2	N/A	N/A	N/A				
OUTLET PIPE	391.39	PVC	12"				
	PRETREATMENT	BIOFILTRATION	DISCHARGE				
RIM ELEVATION	403.20						
SURFACE LOAD	DIRECT TRAFFIC						



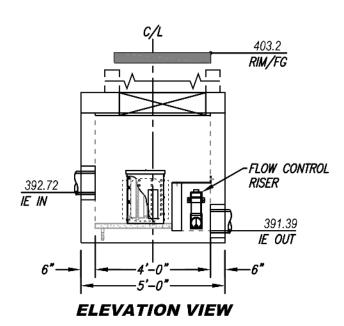
\* PRELIMINARY NOT FOR CONSTRUCTION

### INSTALLATION NOTES

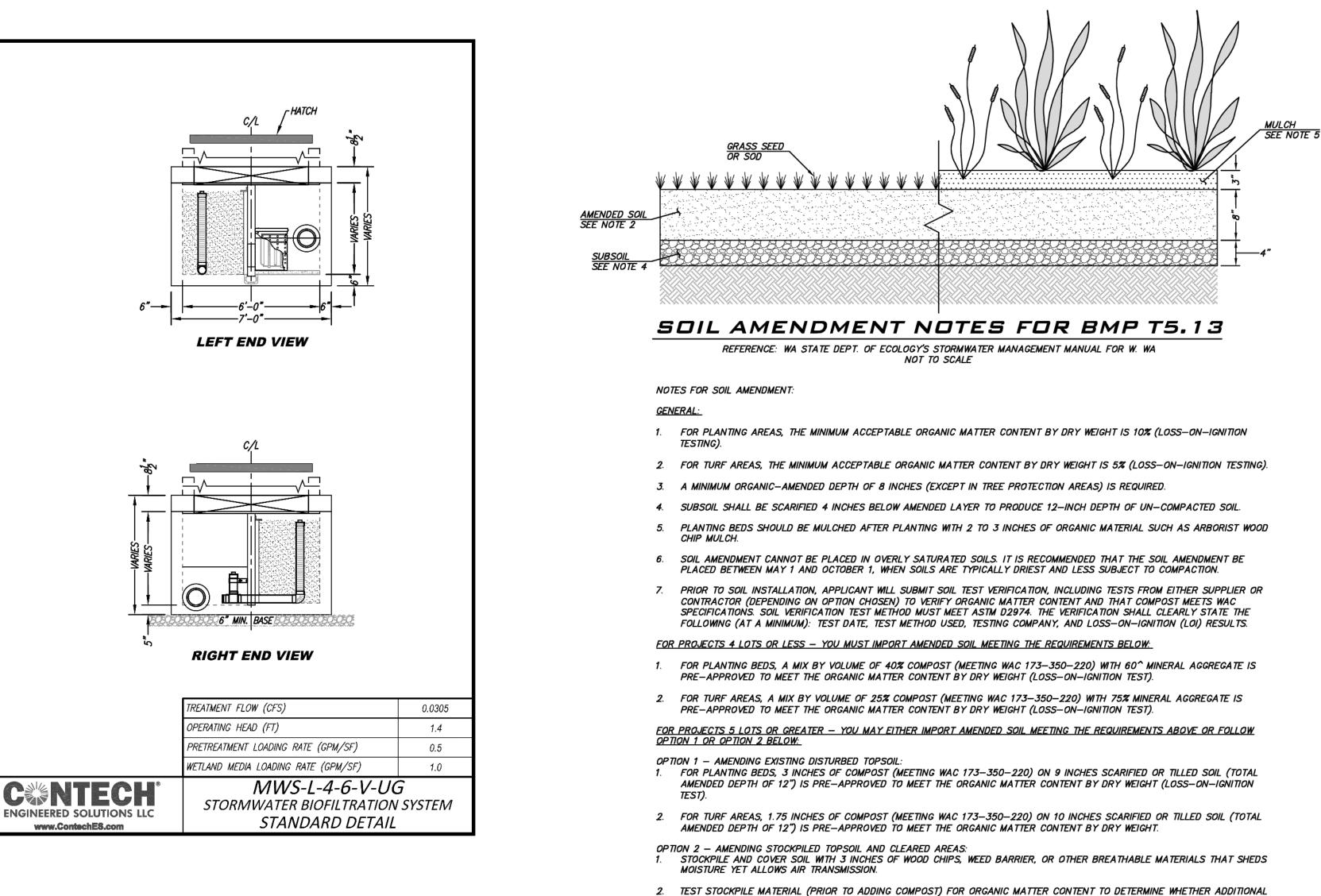
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- 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.
- 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.
- VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
- CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.

### GENERAL NOTES

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







- COMPOST MUST BE TILLED INTO THE STOCKPILED MATERIAL TO MEET THE REQUIRED ORGANIC MATTER CONTENT BY DRY WEIGHT (LOSS-ON-IGNITION TEST).
- 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).

# BLUELINE 25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM SCALE: AS NOTED PROJECT MANAGER: T.C. COLLERAN, PLA, AICP PROJECT ENGINEER: LUCAS ZIROTTI DESIGNER: LEE M. TOMKINS ISSUE DATE: 7/29/21 1ST 2ND 2017 PER 8 8 3 2 4 0 A - ~

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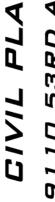
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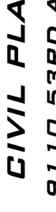
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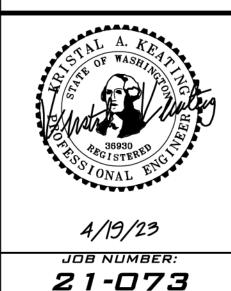
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SHEET NAME:

DT-03

SHT **22** of **22** 

EXISTING	UTIL	ITY	NOTE

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