

01-2023

CITY OF



NE 142ND STREET

SURFACE WATER DRAINAGE IMPROVEMENTS

JOB NO. SDC 0890000

JANUARY 2023

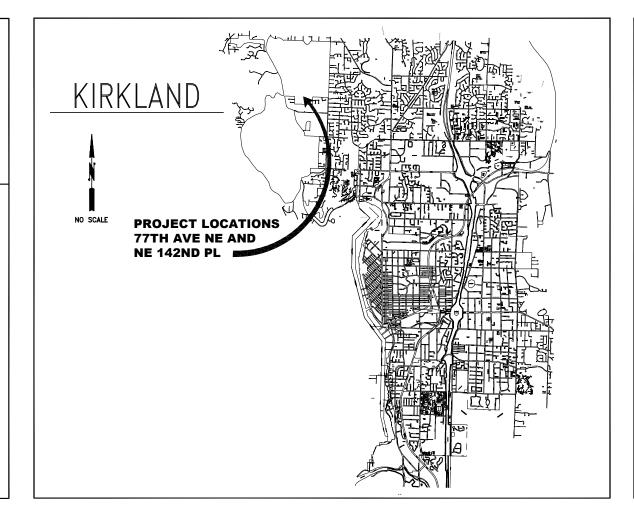
CITY OFFICIALS

PENNY SWEET JAY ARNOLD NEAL BLACK KELLI CURTIS AMY FALCONE COUNCIL MEMBER COUNCIL MEMBER JULIE UNDERWOOD

COUNCIL MEMBER PUBLIC WORKS DIRECTOR

CONTACT PERSONNEL

NAME	<u>AGENCY</u>	<u>PHONE</u>
I-WEN YANG, P.E. CM INSPECTOR TBD TBD TBD NORCOM NORCOM SPILL RESPONSE HOTLINE JEANNE COLEMAN BRAD LANDIS KEN McDOWELL RICHARD COX BRANDON HUMPHREY CONSTRUCTION COORDINATOR JOE FORDON JAY SCHWAB JASON ACCUARDI PHILIP FISK STEVE FOSS EMERGENCY ONE CALL UTILITY LOCATE	COK PROJECT ENGINEER PROJECT INSPECTOR COK FIELD REPRESENTATIVE COK FIELD REPRESENTATIVE COK POLICE DEPARTMENT COK PUGET SOUND ENERGY GAS VERIZON BUSINESS WOODINVILLE WATER DISTRICT SEATTLE PUBLIC UTILITIES NORTHSHORE UTILITY DISTRICT KING COUNTY METRO COMCAST FRONTIER COMMUNICATIONS ZAYO WAVE BROADBAND KING COUNTY WTD	425.587.3832 TBD 425.623.5086 425.496.4265 425.587.3400 425.587.3900 425.563.6550 425.201.0901 425.587.4104 206.684.8117 425.521.3736 206.684.2732 425.263.5348 425.263.4019 206.456.2858 425.988.3295 206.255.6047 911
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- 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS AND CURRENT WSDOT/APWA STANDARDS AND SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE BID AND CONTRACT DOCUMENTS MANUAL FOR THE NE 142ND STREET SURFACE WATER DRAINAGE IMPROVEMENTS
- 3. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN SO AS TO AVOID DAMAGE OR DISTURBANCE. THE UNDERGROUND UTILITY LOCATION SERVICE SHALL BE CONTACTED FOR FIELD LOCATION PRIOR TO ANY CONSTRUCTION. THE OWNER OR THEIR REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS. FOR UTILITY LOCATION IN KING COUNTY, CALL 811. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT UTILITY LOCATES ARE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR ACTIVITIES WITH LOCAL UTILITY COMPANIES TO ENSURE THAT ALL UTILITIES ARE INSTALLED ACCORDING TO THESE PLANS AND THE REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES.
- REFERENCES HEREIN TO "PLAN NO. CK.### ARE TO CITY OF KIRKLAND PRE-APPROVED PLANS (STANDARD DETAILS) AS INCLUDED, AND AS MAY BE AMENDED, ON THE DETAIL SHEETS. IF A NEEDED DETAIL IS NOT INCLUDED IN THE PROJECT SPECIFICATIONS, WSDOT STANDARD PLANS, OR PROJECT PLANS, THE CITY OF KIRKLAND PRE-APPROVED PLANS ARE TO BE REFERENCED.
- STOCKPILING OF CONSTRUCTION MATERIALS IN CITY OF KIRKLAND RIGHT OF WAY WITHOUT WRITTEN PERMISSION OF ENGINEER IS PROHIBITED.
- 7. SURVEY OF EXISTING UTILITIES DOES NOT INCLUDE ALL PRIVATE IRRIGATION SYSTEMS. CONTRACTOR SHALL CONFIRM LOCATION AND OPERATION OF ALL IRRIGATION SYSTEMS PRIOR TO DISCONNECTING. CONTRACTOR SHALL MAKE SAME DAY REPAIRS ON ANY SYSTEMS AND CONFIRM CORRECT OPERATION WITH HOMEOWNER WITHIN SEVEN DAYS AFTER REPAIR IS MADE. CONTRACTOR SHALL MOVE IRRIGATION FEATURES AS NECESSARY PRIOR TO PROPER INSTALLATION OF WATER SERVICE BOX.

STORM DRAINAGE PLAN NOTES:

- BEFORE ANY CONSTRUCTION MAY OCCUR, THE CONTRACTOR SHALL HAVE PLANS WHICH HAVE BEEN SIGNED AND APPROVED BY THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT, OBTAINED ALL CITY, COUNTY, STATE, FEDERAL AND OTHER REQUIRED PERMITS, HAVE POSTED ALL REQUIRED BONDS, PREPARED A SWPPP AND RECEIVED CITY APPROVAL, AND HAVE HELD A PRE-CONSTRUCTION CONFERENCE.
- 2. ALL STORM DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF KIRKLAND PUBLIC WORKS PRE-APPROVED PLANS AND POLICIES AND THE CITY OF KIRKLAND AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, PREPARED BY WSDOT AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE MOST UP TO DATE CITY OF KIRKLAND PUBLIC WORKS PRE-APPROVED PLANS ARE FOUND ON THE WEBSITE: https://www.kirklandwa.gov/Government/Departments/
- https://www.kirklandwa.gov/Government/Departments/
 Development-Services-Center/Tools-and-Resources/Pre-Approved-Plans
 ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE

WRITTEN APPROVAL, ALL CHANGES SHALL BE SUBMITTED TO

- 4. A COPY OF THE APPROVED STORM WATER PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SIMILARLY STABILIZED TO THE SATISFACTION OF THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS FOR THE PREVENTION OF ON-SITE EROSION AFTER THE COMPLETION OF CONSTRUCTION.
- . MINIMUM COVER OVER STORM DRAINAGE PIPES IN ROW OR VEHICULAR PATH SHALL BE 18 INCHES, UNLESS OTHER DESIGN IS APPROVED.
- ALL CATCH BASINS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED. CATCH BASINS WITH A DEPTH OF OVER FIVE FEET (5') TO THE PIPE INVERT SHALL BE A TYPE 2 CATCH BASIN. TYPE 2 CATCH BASINS EXCEEDING FIVE FEET (5') IN DEPTH SHALL HAVE A STANDARD LADDER INSTALLED.
- 8. ALL STORM DRAINAGE MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.
- 9. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF ONE FOOT (1') AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; 2"-MINUS ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING FOR CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON SITE.
- 10. ALL PIPE, MANHOLES, CATCH BASINS, AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH THE CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (WSDOT), THIS SHALL INCLUDE NECESSARY LEVELING OF THE TRENCH BOTTOM OR THE TOP OF THE FOUNDATION MATERIAL AS WELL AS PLACEMENT AND COMPACTION OF REQUIRED BEDDING MATERIAL TO UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF THE PIPE WILL BE SUPPORTED ON A UNIFORMLY DENSE, UNYIELDING BASE. IF THE NATIVE MATERIAL IN THE BOTTOM OF THE TRENCH MEETS THE REQUIREMENTS FOR "GRAVEL BACKFILL FOR PIPE BEDDING". THE FIRST LIFT OF PIPE BEDDING MAY BE OMITTED PROVIDED THE MATERIAL IN THE BOTTOM OF THE TRENCH IS LOOSENED, REGRADED, AND COMPACTED TO FORM A DENSE UNYIELDING BASE. ALL PIPE BEDDING SHALL BE APWA CLASS B TYPE 1 OR BETTER PIPE SHALL NOT BE INSTALLED ON SOD FROZEN EARTH, LARGE BOULDERS, OR ROCK. PIPE BEDDING FOR FLEXIBLE PIPES SHALL BE PEA GRAVEL TO THE SPRINGLINE OF THE PIPE.
- 11. CONSTRUCTION OF DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25NTU, AND NOT CONSIDERED A PROHIBITED DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-300) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR
- 12. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT DENSITY IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM AND DRIVEWAYS, AND 85 PERCENT DENSITY IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, CONFINED SPACE PROTECTION, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE A TRAFFIC CONTROL PLAN APPROVED BY THE CITY OF KIRKLAND. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS, TRAFFIC CONTROL, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY.
- 14. NO FINAL CUT OR FILL SLOPE SHALL EXCEED SLOPES OF TWO (2) HORIZONTAL TO ONE (1) VERTICAL WITHOUT STABILIZATION BY ROCKERY OR BY A STRUCTURAL RETAINING WALL.

- 15. ALL MANHOLE LADDERS SHALL BE FIRMLY ATTACHED AND EXTEND TO WITHIN 1' OF THE BOTTOM OF THE STRUCTURE.
- 16. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UTILITY LOCATIONS WHETHER OR NOT THESE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXERCISE ALL CARE TO AVOID DAMAGE TO ANY UTILITY. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE DEVELOPMENT ENGINEER PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT.
- 17. THE UNDERGROUND UTILITY LOCATION SERVICE SHALL BE CONTACTED FOR FIELD LOCATION OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. THE OWNER OR THEIR REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS. FOR UTILITY LOCATION KING COUNTY, CALL 1-800-424-5555. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT UTILITY LOCATES ARE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- 18. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, WIDTHS, THICKNESS, AND ELEVATIONS OF ALL EXISTING PAVEMENTS AND STRUCTURES THAT ARE TO INTERFERE WITH NEW WORK PROVIDE ALL TRIMMING, CUTTING, SAW CUTTING, GRADING, LEVELING, SLOPING, COATING, AND OTHER WORK, INCLUDING MATERIALS AS NECESSARY, TO CAUSE THE INTERFACE WITH EXISTING WORKS TO BE PROPER, ACCEPTABLE TO THE ENGINEER AND THE CITY OF KIRKLAND, COMPLETE IN PLACE AND READY TO USE.
- ALL INLET, MANHOLE, AND CATCH BASIN FRAMES AND GRATES SHALL NOT BE ADJUSTED TO GRADE UNTIL IMMEDIATELY PRIOR TO FINAL PAVING. ALL CATCH BASIN GRATES SHALL BE SET 0.10' BELOW PAVEMENT LEVEL.
- 20. OPEN CUT ROAD CROSSINGS FOR UTILITY TRENCHES ON EXISTING TRAVELED ROADWAY SHALL BE BACKFILLED ONLY WITH 5/8" MINUS CRUSHED ROCK AND MECHANICALLY COMPACTED (UNLESS OTHERWISE APPROVED BY THE CITY). FOR STREETS CLASSIFIED AS ARTERIALS OR COLLECTORS, BACKFILL FOR CROSSINGS SHALL BE CDF. CUTS INTO THE EXISTING ASPHALT SHALL BE NEAT LINE CUT WITH SAW OR JACKHAMMER IN A CONTINUOUS LINE. A TEMPORARY COLD MIX PATCH MUST BE PLACED IMMEDIATELY AFTER BACKFILL AND COMPACTION. A PERMANENT HOT MIX PATCH SHALL BE PLACED WITHIN 30 DAYS AND SHALL BE A MINIMUM OF 1" THICKER THAN THE ORIGINAL ASPHALT WITH A MINIMUM THICKNESS OR 2". SEE STANDARD D.02.
- 21. ALL DAMAGES INCURRED TO PUBLIC AND/OR PRIVATE PROPERTY BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPAIRED TO THE SATISFACTION OF THE CITY CONSTRUCTION INSPECTOR BEFORE PROJECT APPROVAL AND/OR THE RELEASE OF THE PROJECT'S PERFORMANCE BOND.
- GROUT ALL SEAMS AND OPENINGS IN ALL INLETS, CATCH BASINS, AND MANHOLES. JETSET GROUT AND SIMILAR PRODUCTS ARE NOT ALLOWED.
- 23. WHEN WIDENING AN EXISTING ROADWAY WHERE AN EXISTING TYPE 1 CATCH BASIN WILL REMAIN IN THE TRAVEL LANE, THE EXISTING FRAME AND COVER SHALL BE REPLACED WITH A ROUND, LOCKING FRAME AND COVER.
- 24. FOR OTHER THAN SINGLE-FAMILY DWELLINGS, ALL EXPOSED OR READILY EXPOSED INDOOR STORM DRAINAGE PIPING/PLUMBING SHALL BE LABELED WITH THE WORDS "STORM DRAIN" WITH MINIMUM 2 INCH HIGH LETTERS.
- 25. RECYCLED CONCRETE SHALL NOT BE USED AROUND STORMWATER FACILITIES.
- 26. ALL FASTENERS (BOLTS, NUTS, WASHERS, ETC.) ON MANHOLE AND CATCH BASIN LIDS TO BE STANDARD SIZE. NO METRIC FASTENERS ALLOWED.

PLANTING NOTES:

GENERAL PLANTING NOTES

- PLANT INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE
 WITH WSDOT STD SPEC 8-02; IN PARTICULAR STD SPEC
 8-02.3(7) SHALL BE FOLLOWED FOR PLANTING LAYOUT AND
 STD SPEC 8-02.3(8), 8-02.3(9), AND 8-02.3(12) FOR
 INSTALLATION. AND STD SPEC 8-02.3(13) FOR ESTABLISHMENT
- 2. ALL PLANTING MATERIAL SHALL BE NURSERY-GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO OR HARDIER THAN THOSE AT THE SITE AND COMPLY WITH WSDOT STD SPEC 9-14.6.
- 3. PLANTS SHALL BE HEALTHY, VIGOROUS, AND WELL-FORMED, WITH WELL DEVELOPED, FIBROUS ROOT SYSTEMS, FREE FROM DEAD BRANCHES OR ROOTS. PLANTS SHALL BE FREE FROM DAMAGE CAUSED BY TEMPERATURE EXTREMES, LACK OR EXCESS OF MOISTURE, INSECTS, DISEASE, AND MECHANICAL INJURY.
- PLANT NAMES SHALL CONFORM TO FLORA OF PACIFIC NORTHWEST BY HITCHCOCK AND CRONQUIST, UNIVERSITY OF WASHINGTON PRESS, 1973.
- PROTECT PLANTS AT ALL TIMES DURING PLANTING OPERATION TO PREVENT ROOTS FROM DRYING OUT.
- DO NOT INSTALL PLANT MATERIAL WHEN AMBIENT TEMPERATURE MAY DROP BELOW 35 DEGREES OR ABOVE 80 DEGREES. DO NOT INSTALL PLANTS WHEN WIND VELOCITY EXCEEDS 30MPH.
- 7. DO NOT PLANT SHRUB SPECIES WITHIN 6 FEET OF EXISTING TREES.
- MULCH SHALL BE WOOD CHIPS COMPRISED OF GROUND FIR OR HEMLOCK, PER STD SPEC 9-14.4(3), SEE SHEET 12 FOR AREAS OF FULL COVERAGE MULCH. SEE SHRUB AND GROUND COVER PLANTING DETAIL FOR MULCH COVERAGE AROUND SHRUBS, GROUND COVER, AND TREES. TAPER MULCH AWAY FROM STEMS OF PLANTS. ARBORIST WOODCHIPS, SAWDUST, BEAUTY BARK AND PRODUCTS LABELED "HOG FUEL" ARE NOT ACCEPTABLE
- SUBSTITUTION OF PLANT MATERIALS NOT ON THE PROJECT LIST WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE CITY, PER WSDOT STD SPEC 9-14.6(6).
- 10. PLANTING ZONES SHALL BE IRRIGATED AS NEEDED FOR THE FIRST ONE (1) YEAR AFTER PLANT ACCEPTANCE AND CONTRACT COMPLETION. THE IRRIGATION SYSTEM SHALL PROVIDE A WATERING PROGRAM CAPABLE OF DELIVERING AT LEAST ONE (1) INCH OF WATER PER WEEK FROM JUNE 1 THROUGH SEPTEMBER 30 FOR AT LEAST THE FIRST ONE (1) YEAR FOLLOWING PLANT INSTALLATION. A TEMPORARY ABOVE-GROUND SYSTEM IS PREFERRED, BUT IN THE ABSENCE OF A RELIABLE OR PRACTICABLE WATER SOURCE, ALTERNATIVE WATERING METHODS MAY BE USED. IF WATER IS SUPPLIED BY A NEARBY UTILITY, IT SHALL BE PAID FOR BY THE CONTRACTOR IN A TIMELY MANNER. APPLICATION SHALL BE IN A CONTROLLED, SLOW MANNER ALLOWING WATER TO SOAK INTO THE SOIL AND THAT DOES NOT GENERATE SURFACE BLINDEF
- 11. IN ALL PLANTING AREAS, 100 PERCENT SURVIVAL OF INSTALLED VEGETATION THROUGH A COMBINATION OF PLANT SURVIVAL AND PLANT REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE ONE (1) YEAR FOLLOWING CONTRACT COMPLETION.
- THE CONTRACTOR SHALL CONTROL INVASIVE COVER WITHIN THE PLANTING AREA FOR THE ONE (1) YEAR FOLLOWING CONTRACT COMPLETION.

SEQUENCE OF WORK

- STAKE THE BOUNDARIES OF THE IMPACT AREA LINE PER THE DESIGN.
- INSTALL TESC AND TREE PROTECTION FENCING PER THE DESIGN AT THE LIMITS OF GRADING TO PROTECT CRITICAL AREAS FROM CONSTRUCTION-IMPACTED STORMWATER.
- CARRY OUT THE CIVIL PROJECT CLEAR AND GRUB, GRADE, INSTALL UTILITY, BACKFILL, ETC. GRADE TO FINAL CONFIGURATION

- AMEND PLANTING AREA SOIL WITH FOUR (4) INCHES OF COMPOST. APPLY COMPOST EVENLY THROUGHOUT THE PLANTING AREA AS SHOWN ON THE PLANTING PLAN. DO NOT APPLY COMPOST BELOW OHWM.
- 5. MIX COMPOST INTO NATIVE (OR BACKFILLED) SOIL SO THAT THE TOP 14 INCHES OF COMBINED MATERIAL ARE DECOMPACTED AND MIXED (4 INCHES OF COMPOST INCORPORATED INTO THE TOP 10 INCHES OF NATIVE OR BACKFILLED MATERIAL). CAUTION: DO NOT "RIP" OR "ROTOTILL" INSIDE OF CRITICAL ROOT ZONES OF TREES TO BE RETAINED AS THIS CAN DAMAGE LIVE ROOTS. MODIFIED AMENDING (SUCH AS PIT AMENDING) MAY BE APPROVED IN ROOT ZONES OF SAVED TREES TO AVOID DAMAGE. THE CITY SHALL REVIEW AND APPROVE AMENDING PRIOR TO MOVING TO STEP #6.
- SPREAD A FOUR (4)-INCH LAYER OF WOODCHIP MULCH OVER THE PREPARED SOIL ABOVE THE OHWM. THE CITY SHALL REVIEW AND APPROVE MULCH DEPTH PRIOR TO PLANT INSTALLATION.
- 7. INSTALL PLANTS PER THE PLANTING PLAN AS FOLLOWS:
- a. PULL BACK WOODCHIP MULCH FROM THE PLANTING ARFA
- b. INSTALL THE PLANT AND REPLACE THE MULCH, ENSURING THE MULCH DOES NOT TOUCH THE STEM OF THE PLANT.
- c. PLANTS SHALL BE INSTALLED IN THE DORMANT SEASON THAT EXTENDS FROM OCTOBER 15. THROUGH MARCH 15.
- d. IF INSTALLED OUTSIDE OF THIS PERIOD, PLANTS SHALL BE WATERED HEAVILY IMMEDIATELY FOLLOWING INSTALLATION, AND PROVIDED SUPPLEMENTAL WATERING REGULARLY THROUGH THE FIRST DRY SEASON.
- e. THE CITY SHALL REVIEW AND APPROVE THE FINAL PLANT INSTALLATION PRIOR TO ACCEPTING THE PLANT INSTALLATION.
- 8. IMPLEMENT IRRIGATION SYSTEM PROGRAM

MAINTENANCE

THE SITE SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE OF THE AS-BUILT CONDITIONS.

- . CONTRACTOR SHALL COORDINATE AND ATTEND PLANT MAINTENANCE MEETING WITH THE CITY ONCE EVERY TWO (2) MONTHS FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE OF AS-BUILT CONDITIONS.
- FOLLOW PUNCH LIST ITEMS GENERATED DURING SITE MONITORING.
- 3. GENERAL WEEDING FOR ALL PLANTED AREAS:
 - EVERY TWO (2) MONTHS, REMOVE ALL COMPETING WEEDS AND WEED ROOTS BY HAND FROM THE BUFFER MITIGATION AREA
 - b. NO LINE TRIMMERS SHOULD BE USED INSIDE OF THE MITIGATION AREA AS THEY WILL DAMAGE NATIVE VEGETATION.
 - c. REPLACE ANY PLANT THAT DIES WITHIN ONE (1) YEAR OF CONTRACT ACCEPTANCE. REPLACEMENT OF DEAD PLANT(S) SHALL OCCUR AS SOON AS POSSIBLE WITHIN THE DORMANT SEASON (PLANTING DATES DESCRIBED IN ITEM 7c. AROYE)
 - d. IRRIGATION SHALL BE PROVIDED FOR THE ENTIRE PLANTED AREA WITH A MINIMUM OF 1 INCH OF WATER PROVIDED PER WEEK FROM JUNE 1 THROUGH SEPTEMBER 30 FOR AT LEAST THE FIRST ONE (1) YEAR FOLLOWING CONTRACT ACCEPTANCE.

Call 48 Hours Before You Dig

> 1-800-424-5555 UNDERGROUND SERVICE



THE CITY

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033

(425) 587-3800 www.kirklandwa.gov

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CONSULTANTS

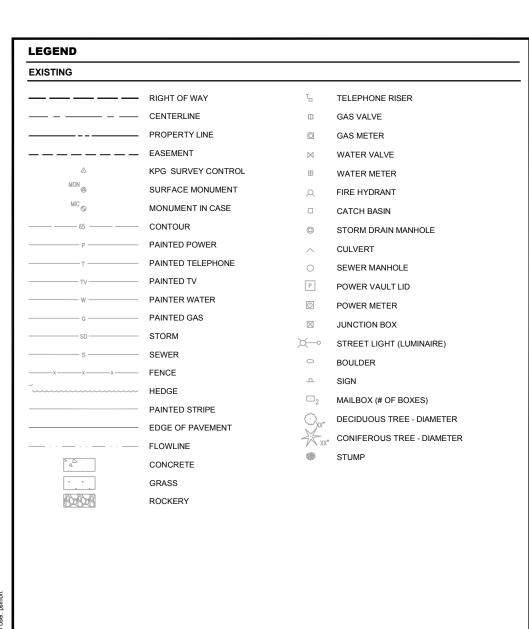
BHC Consultants, LLC 206.505.340

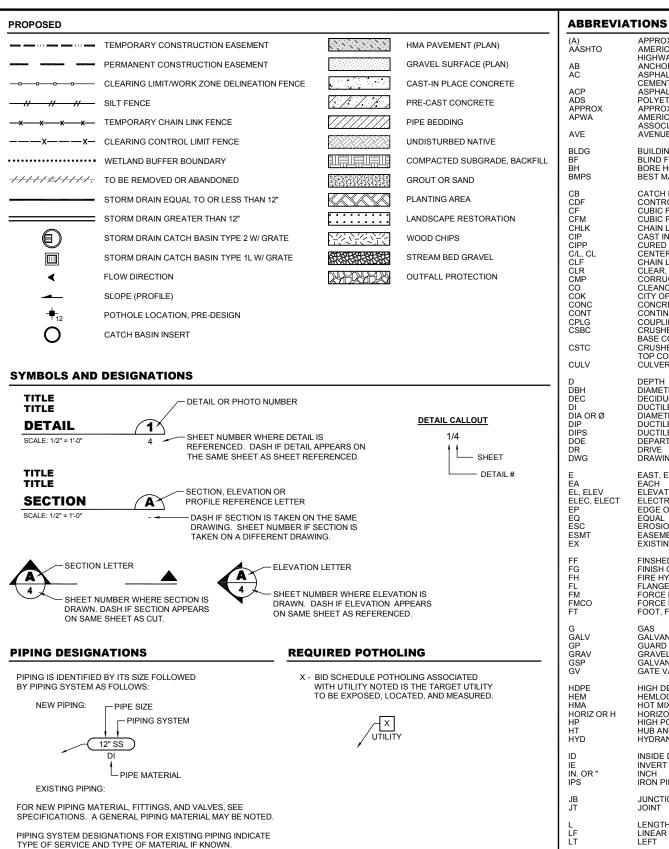
C. Talich, P.E. 01-2023
DESIGNED BY: DATE
P. Simon 01-2023
DRAWN BY: DATE
R. Dorn, P.E. 01-2023
CHECKED BY: DATE

CITY OF KIRKLAND
GENERAL NOTES

2
SCALE:
NTS
FILENAME:

P19-10634 2 Notes





(A)	APPROXIMATE	MDD	MAXIMUM DRY DENSITY
AASHTO AB	AMERICAN ASSOC. OF STATE HIGHWAY TRANSPORTATION OFFICIALS ANCHOR BOLT	MFR MH MIN	MANUFACTURER MANHOLE MINIMUM
AC	ASPHALT CONCRETE, ASBESTOS CEMENT	MJ MON	MECHANICAL JOINT MONUMENT
ACP ADS	ASPHALT CONCRETE PAVEMENT POLYETHYLENE PIPE	MW	MONITORING WELL
APPROX APWA	APPROXIMATE AMERICAN PUBLIC WORKS	N NE	NORTH NORTHEAST
AVE	ASSOCIATION AVENUE	NG NIC	NATURAL GAS NOT IN CONTRACT
BLDG	BUILDING	NO. OR # NPDES	NUMBER NATIONAL POLLUTION DISCHARGE
BF BH	BLIND FLANGE BORE HOLE	NPT	ELIMINATION SYSTEM NATIONAL PIPE THREAD
BMPS	BEST MANAGEMENT PRACTICES	NPW NTS	NON-POTABLE WATER NOT TO SCALE
CB CDF	CATCH BASIN, CORNER BAR CONTROLLED DENSITY FILL	NUD NW	NORTHSHORE UTILITY DISTRICT NORTHWEST
CF CFM	CUBIC FEET CUBIC FEET PER MINUTE	oc	ON CENTER
CHLK CIP	CHAIN LINK CAST IN PLACE	OD OH	OUTSIDE DIAMETER OVERHEAD
CIPP C/L, CL	CURED IN PLACE PIPE CENTERLINE	OHWM OP	ORDINARY HIGH WATER MARK OVERHEAD POWER
CLF CLR CMP	CHAIN LINK FENCE CLEAR, CLEARANCE CORRUGATED METAL PIPE	OPNG ORN	OPENING ORNAMENTAL
COK	CLEANOUT CITY OF KIRKLAND	P PE	POWER PLAIN END, POLYETHYLENE
CONC CONT	CONCRETE CONTINUOUS	PK PP/UG	POINT KNOWN POWER POLE W/ UNDERGROUND
CPLG CSBC	COUPLING CRUSHED SURFACING	PS PSF	PUMP STATION POUNDS PER SQUARE FOOT
CSTC	BASE COURSE CRUSHED SURFACING	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT
CULV	TOP COURSE CULVERT	PWR	POWER
D	DEPTH	R RD	RADIUS ROAD, ROOF DRAIN
DBH DEC	DIAMETER BREAST HEIGHT DECIDUOUS	REINF REQ'D	REINFORCEMENT REQUIRED
DI DIA OR Ø DIP	DUCTILE IRON DIAMETER DUCTILE IRON DIDE	RET RFCA	RETAINING RESTRAINED FLANGED COUPLING
DIPS DOE	DUCTILE IRON PIPE DUCTILE IRON PIPE SIZE DEPARTMENT OF ECOLOGY	RJ ROW, R/W	ADAPTER RESTRAINED JOINT RIGHT OF WAY
DR DWG	DRIVE DRAWING	RPM RT	REVOLUTIONS PER MINUTE RIGHT
E	EAST, ELECTRICAL	S	SOUTH, SLOPE, SEWER
EA EL, ELEV	EACH ELEVATION, ELBOW	SCH SD	SCHEDULE STORM DRAIN
ELEC, ELECT EP	ELECTRICAL EDGE OF PAVEMENT	SDMH SDR	STORM DRAIN MANHOLE STANDARD DIMENSION RATIO
EQ ESC ESMT	EQUAL EROSION AND SEDIMENT CONTROL EASEMENT	SE SERV SF	SOUTHEAST SERVICE SILT FENCE, SQUARE FEET
EX	EXISTING	SPEC SSFM	SPECIFICATION SANITARY SEWER FORCE MAIN
FF FG	FINSHED FLOOR FINISH GRADE	SSMH SS	SANITARY SEWER MANHOLE SANITARY SEWER
FH FL	FIRE HYDRANT FLANGE	SST ST	STAINLESS STEEL STREET
FM FMCO	FORCE MAIN FORCE MAIN CLEANOUT	STA STD	STATION STANDARD
FT	FOOT, FEET	STL SW	STEEL SOUTHWEST
G GALV	GAS GALVANIZED	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GP GRAV GSP	GUARD POST GRAVEL GALVANIZED STEEL PIPE	T TBM	TELEPHONE TEMPORARY BENCHMARK
GV	GATE VALVE	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
HDPE HEM	HIGH DENSITY POLYETHYLENE HEMLOCK	TV TVR	TELEVISION (CABLE) TELEVISION (CABLE) RISER
HMA HORIZ OR H	HOT MIX ASPHALT HORIZONTAL	TYP	TYPICAL
HP HT	HIGH POINT HUB AND TACK, HEIGHT	UGP UNO	UNDERGROUND POWER UNLESS NOTED OTHERWISE
HYD	HYDRANT	VAC	VACUUM
ID IE	INSIDE DIAMETER INVERT ELEVATION		VERTICAL
IN. OR " IPS	INCH IRON PIPE SIZE	W/ W WM	WITH WATER, WEST, WIDTH WATER METER
JB JT	JUNCTION BOX JOINT	WSDOT WS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION WATER SERVICE
L LF	LENGTH OR METAL ANGLE LINEAR FEET		Call 48 Hours
LT	LEFT		Before You Dig
M MAX	MAPLE MAXIMUM MAIL BOX		1-800-424-5555
MB	MAIL BOX		UNDERGROUND SERVICE



CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS

123 FIFTH AVENUE KIRKLAND, WA 98033 (425) 587-3800 www.kirklandwa.gov

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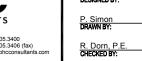


CONTRACTOR SHALL VERIFY ALL EXISTING PIPE MATERIAL AND

NOT RELY ON THIS DESIGNATION PRIOR

TO CONSTRUCTION.





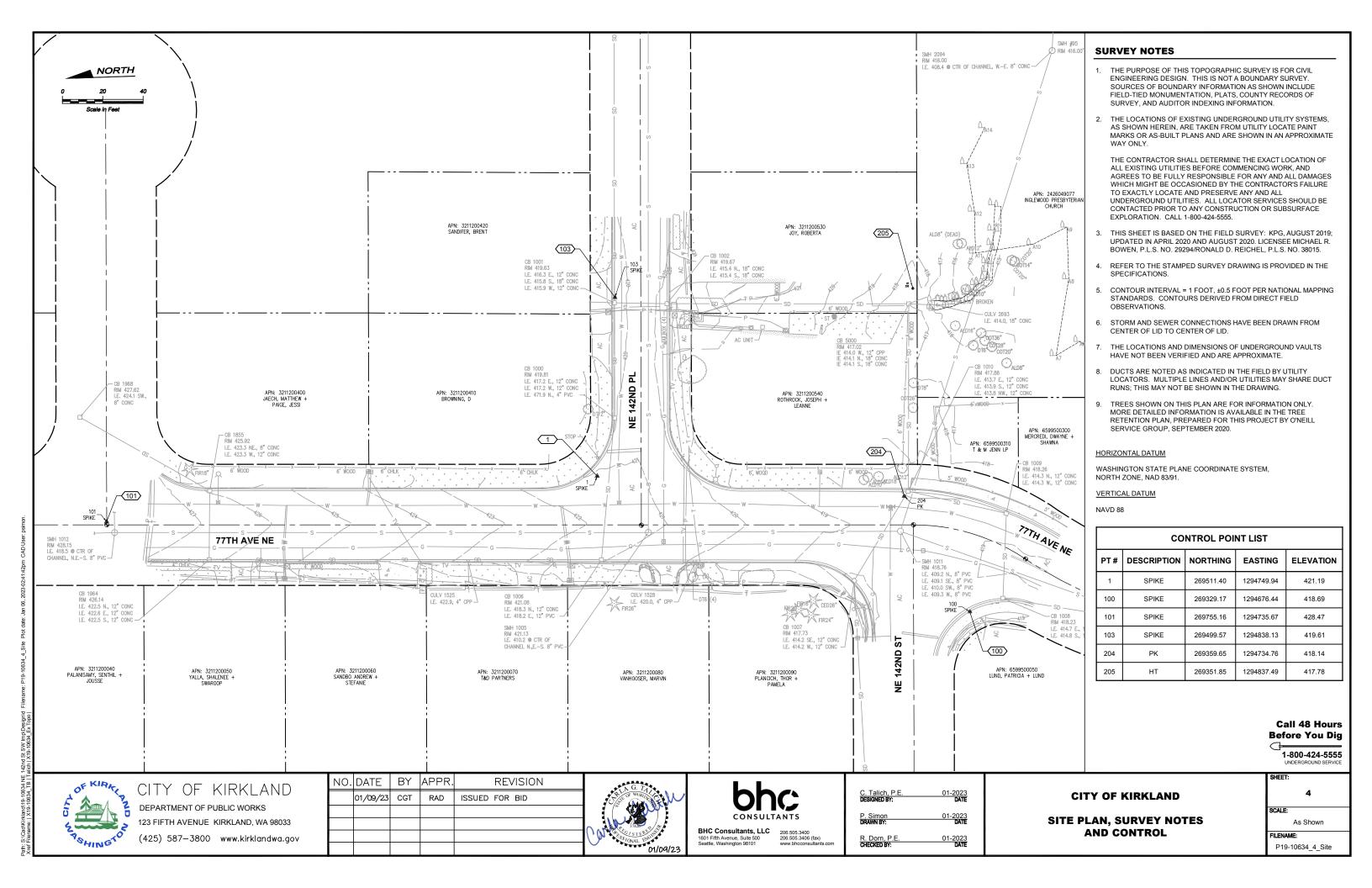
01-2023 DATE 01-2023 **CITY OF KIRKLAND**

LEGEND AND ABBREVIATIONS

SCALE:

FILENAME:

P19-10634_3_Lngd-Abb



- a. CONDUCT PRE-CONSTRUCTION MEETING.
- b. FLAG OR FENCE CLEARING LIMITS.
- c. POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.
- d. INSTALL CATCH BASIN PROTECTION.
- e. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- f. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- g. CONSTRUCT SEDIMENT PONDS AND TRAPS.
- h. GRADE AND STABILIZE CONSTRUCTION ROADS
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- k. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
- I. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT
- m. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
- n. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS SHALL BE STABILIZED, AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED MONETARY PENALTIES (KMC 1.12.200). THE MINIMUM PENALTY IS \$500. A FINE FOR A REPEAT VIOLATION SHALL BE MULTIPLIED BY THE NUMBER OF VIOLATIONS. AS FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATIONS TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOU PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND
- 3. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
- 5. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES. UTILITIES. ETC.).
- THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 8. A COPY OF THE APPROVED ESC PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 9. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- 10. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.

- 11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- 12. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
- 13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
- 14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL DENUDED SOILS SHALL BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOIL OWING: TIMEL IMPS:
- MAY 1 TO SEPTEMBER 30 SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
- OCTOBER 1 TO APRIL 30 SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
- STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
- 16. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- 17. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
- 18. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.
- 19. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
- 20. OFF-SITE STREETS SHALL CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
- 21. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, SHALL BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
- 22. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
- 23. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.

- 24. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPS. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 25. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3".
- 27. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
- 28. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- 29. ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.
- 30. IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
- 31. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
- 32. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
- 33. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM. OR POSSIBLY RE-LAYING THE STORM LINE.
- 34. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.

STORMWATER POLLUTION PREVENTION AND SPILL SITE PLAN REQUIREMENTS

THE SWPPS SITE PLAN SHALL BE CREATED BY THE CONTRACTOR. IT SHALL INCLUDE THE LOCATION AND DESCRIPTION OF BMPS REQUIRED TO PREVENT POLLUTION AND CONTROL SPILLS FROM CONSTRUCTION ACTIVITIES INCLUDING FINAL CLEANUP, AND FROM CHEMICALS AND OTHER MATERIALS USED AND STORED ON THE CONSTRUCTION SITE. THE SITE PLAN DRAWING ELEMENT OF THE SWPPS PLAN SHALL INCLUDE ALL OF THE INFORMATION REQUIRED FOR THE BASE MAP. INFORMATION REQUIRED BY WSDOT STANDARD SPECIFICATIONS SECTION 1-07.15(1), THE MINIMUM ELEMENTS IN THE SPECIAL PROVISIONS, AS WELL AS:

- EXISTING AND PROPOSED ROADS, DRIVEWAYS, PARKING AREAS, BUILDINGS, DRAINAGE FACILITIES, UTILITY CORRIDORS NOT ASSOCIATED WITH ROADWAYS, RELEVANT CRITICAL AREAS AND ASSOCIATED BUFFERS, AND PROPOSED TOPOGRAPHY
- IDENTIFY LOCATIONS WHERE LIQUIDS WILL BE STORED AND DELINEATE SECONDARY CONTAINMENT AREAS THAT WILL BE PROVIDED.
- IDENTIFY LOCATIONS WHERE CONSTRUCTION MATERIALS AND WASTES WILL BE GENERATED AND STOCKPILED (STOCKPILING OF MATERIAL IN RIGHT OF WAY IS SUBJECT TO ENGINEER APPROVAL PER GENERAL NOTE 6 SHEET 2).
- 4. IDENTIFY LOCATION OF FUELING FOR VEHICLES AND EQUIPMENT IF STATIONARY TANKS WILL BE USED.
- 5. DELINEATE CONTAINMENT AREAS FOR FUEL SPILLS.
- SHOW LOCATIONS OF LIGHTING AND SIGNAGE FOR FUELING DURING EVENING HOURS.
- DELINEATE MAINTENANCE AND REPAIR AREAS AND CLEARLY NOTE THAT DRIP PANS OR PLASTIC SHALL BE USED BENEATH VEHICLES. ALSO, CLEARLY NOTE THAT SIGNS SHALL BE POSTED THAT STATE NO VEHICLE WASHING MAY OCCUR IN THE AREA.
- DELINEATE TRUCK WASHOUT AREAS AND IDENTIFY THE LOCATION OF SLURRY/WASHWATER SUMPS AND RINSING AREA FOR TOOLS.
- 9. DELINEATE WHERE CHEMICALS WILL BE APPLIED AND IDENTIFY WHERE THEY WILL BE STORED.
- 10. IDENTIFY WHERE THE SPILL RESPONSE MATERIALS WILL BE STORED

Call 48 Hours Before You Dig

1-800-424-5555 UNDERGROUND SERVICE



CITY OF KIRKLAND

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206.505.3400 206.505.3406 (fax) www.bhcconsultants.com

C. Talich, P.E. DESIGNED BY:	01-2023 DATE
P. Simon	01-2023
DRAWN BY:	DATE
R. Dorn, P.E.	01-2023
CHECKED BY:	DATE

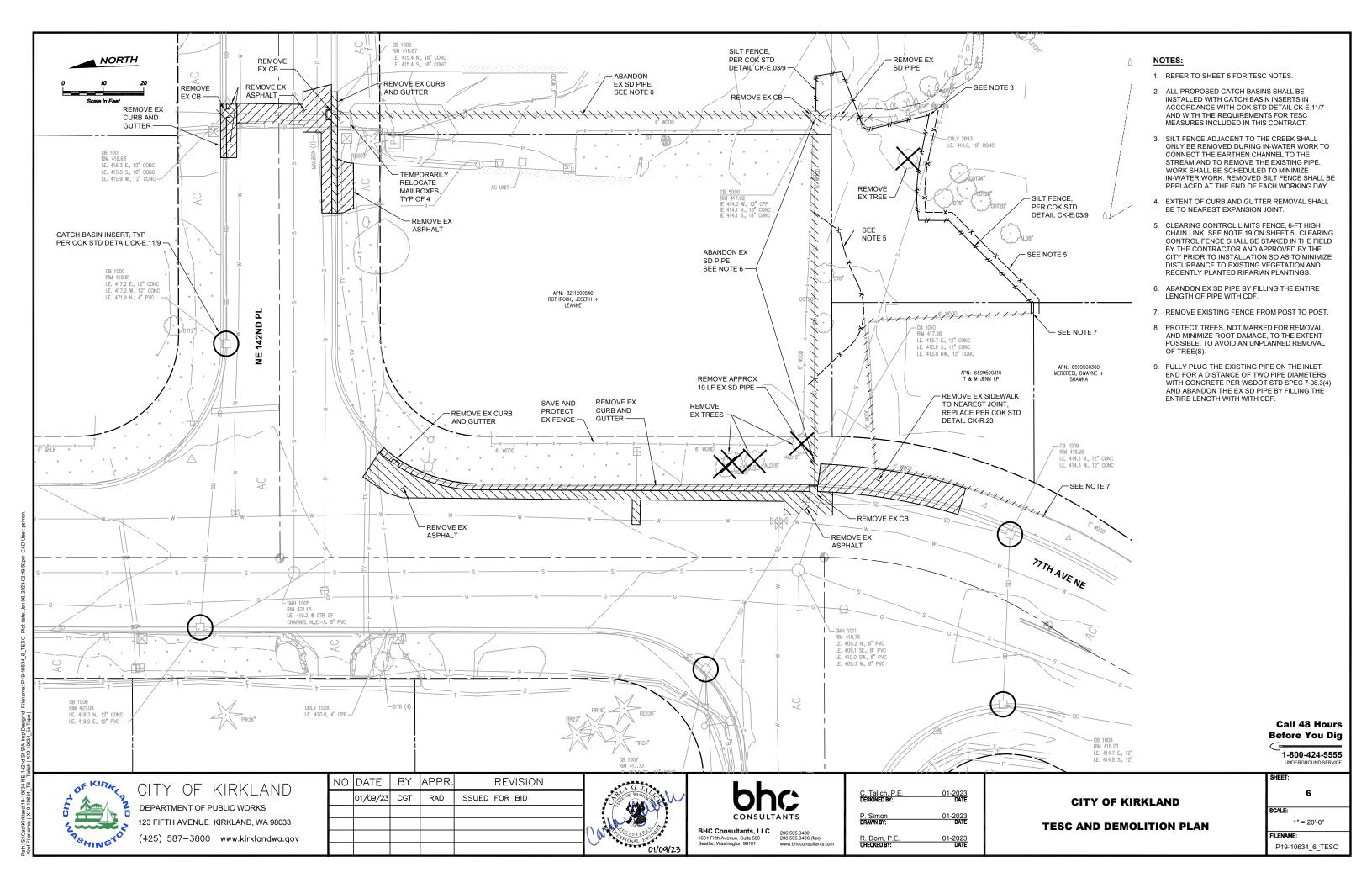
CITY OF KIRKLAND

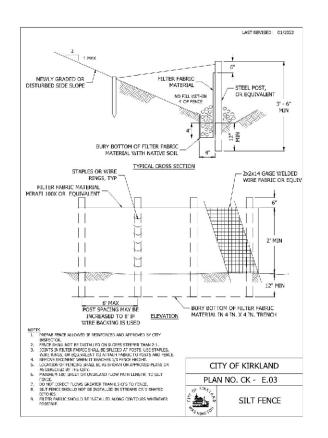
TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) NOTES

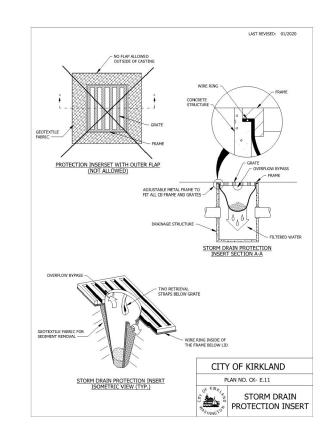
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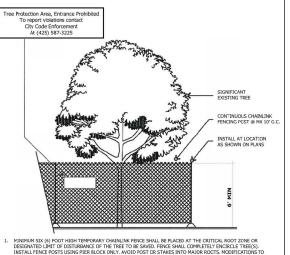
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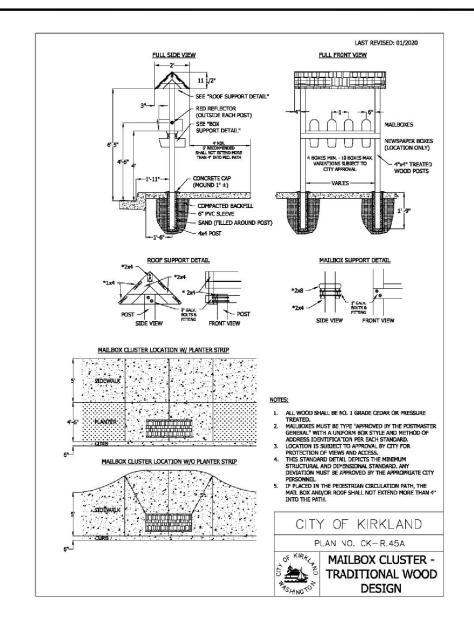
- NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BY ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PHANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY LAIDER THE SUPERVISION OF THE ON-SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.



TREE PROTECTION FENCING DETAIL

(for public and private trees)

TREE PROTECTION AREA **Entrance Prohibited** To report violations contact **City Code Enforcement** At (425) 587-3225



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1-800-424-5555

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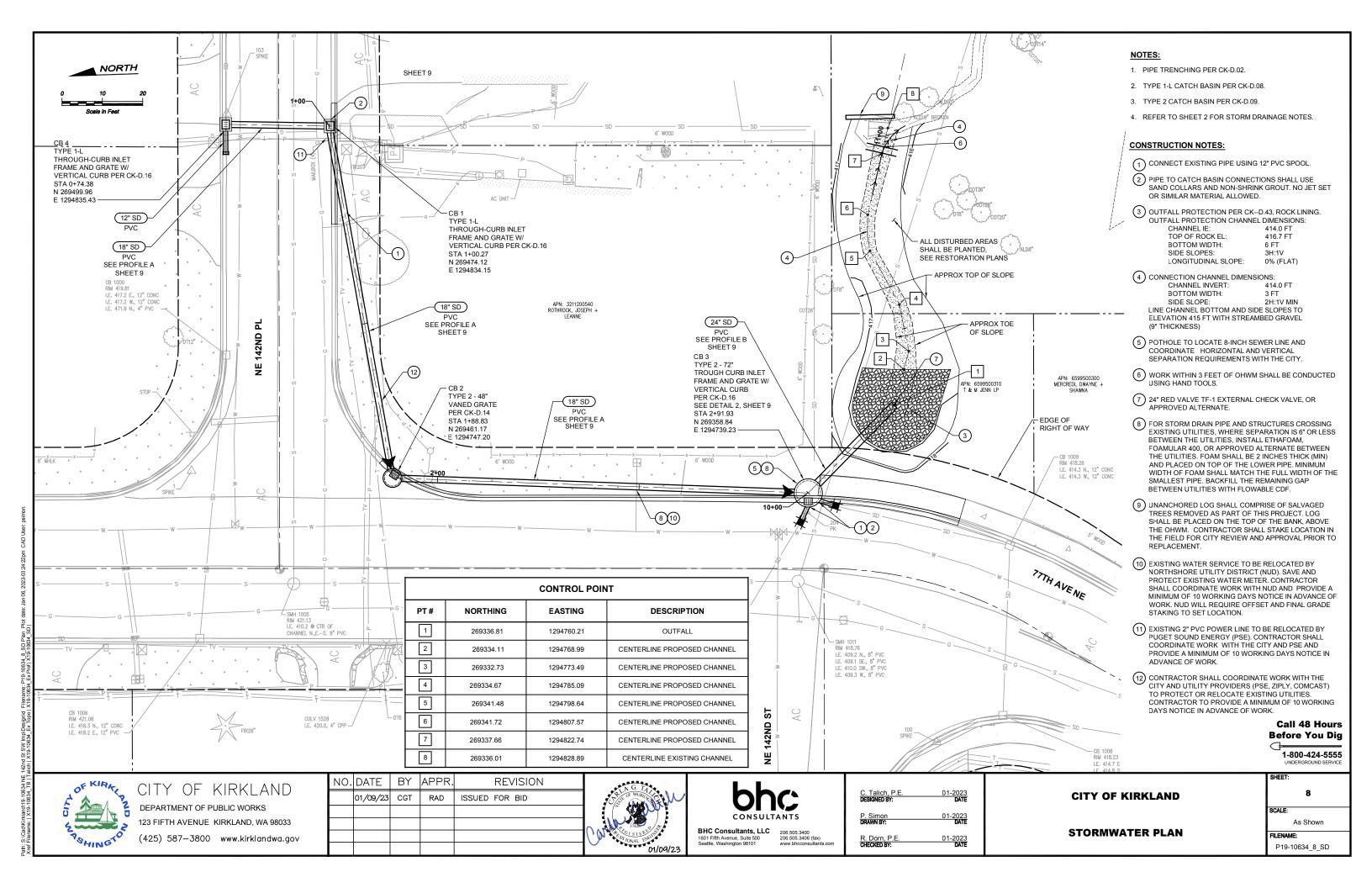


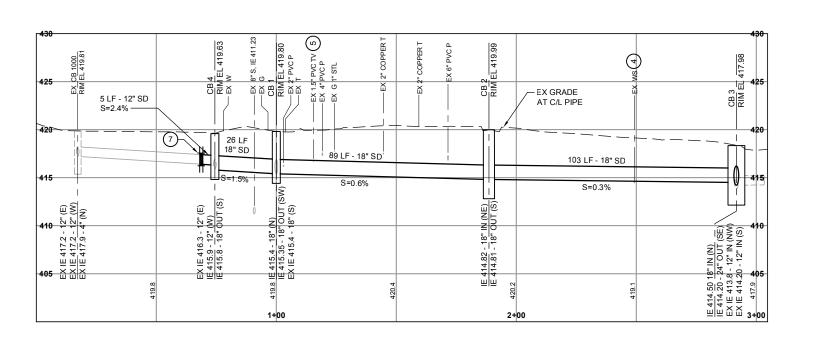
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CITY OF KIRKLAND TESC AND GENERAL DETAILS

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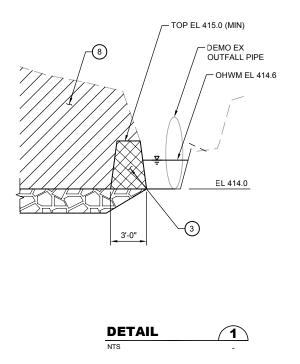
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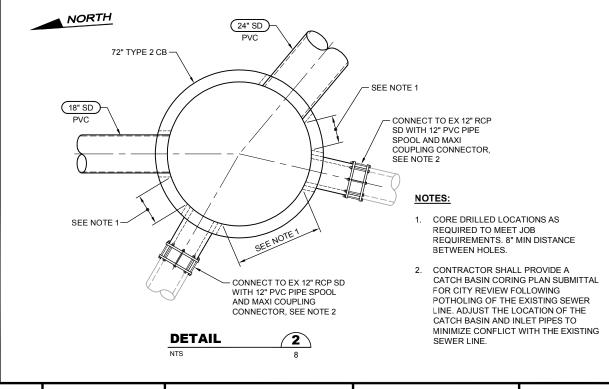




-PROPOSED GRADE AT C/L PIPE 430 __ 25 LF - 24" SD - CONNECTION S=0.20% CHANNEL 425 - EX GRADE ∞ 6 DEWO EX AT C/L PIPE ₩ W OUTFALL PIPE -SEE DETAIL 1/-EX 8" SS -<u>IE 414.15-</u> <u>CHANNEL</u> 10+00 11+00 B **PROFILE** SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"







NOTES:

- 1. PIPE TRENCHING PER CK-D.02.
- 2. TYPE 1-L CATCH BASIN PER CK-D.08.
- 3. TYPE 2 CATCH BASIN PER CK-D.09.
- 4. REFER TO SHEET 2 FOR STORM DRAINAGE NOTES.
- 5. PIPE SLOPE SHOWN IN PROFILE VIEW IS CALCULATED FROM C/L OF STRUCTURE TO C/L OF STRUCTURE.
- 6. PIPE TO CATCH BASIN CONNECTIONS SHALL USE SAND COLLARS AND NON-SHRINK GROUT. NO JET SET OR SIMILAR MATERIAL ALLOWED.

CONSTRUCTION NOTES:

- 1) STREAMBED GRAVEL, 6" TO 12" THICK.
- 2 OUTFALL PROTECTION PER CK-D.43 ROCK LINING.
- WORK WITHIN 3 FEET (HORIZONTALLY)OF THE OHWM SHALL BE CONDUCTED USING HAND TOOLS. DURING CHANNEL EXCAVATION, LEAVE EARTH IN PLACE TO SERVE AS A TEMPORARY BERM BETWEEN WORK AREA AND EXISTING CHANNEL. EARTH SHALL REMAIN IN PLACE DURING CONSTRUCTION. REMOVAL SHALL BE CONDUCTED USING HAND TOOLS AND TIMING SHALL BE APPROVED IN ADVANCE BY THE CITY.
- 4 EXISTING WATER SERVICE TO BE RELOCATED BY NUD. CONTRACTOR SHALL COORDINATE WORK WITH NUD AND PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE IN ADVANCE OF WORK. NUD WILL REQUIRE OFFSET AND FINAL GRADE STAKING TO SET LOCATION.
- (5) EXISTING 1.5" PVC TV. LOCATE AND COORDINATE WITH THE CITY PRIOR TO INSTALLATION OF 18" SD.
- 6 24" RED VALVE TF-1 EXTERNAL CHECK VALVE, OR APPROVED ALTERNATE.
- 7 CONNECT TO EX 12" RCP SD WITH MAXI COUPLING CONNECTOR. MATCH INVERT ELEVATION OF EXISTING 12" RCP SD.
- 8 CHANNEL EXCAVATION BEYOND 3 FEET (HORIZONTALLY) OF THE OHWM MAY BE CONDUCTED USING MACHINERY. WITHIN 3 FEET (HORIZONTALLY) OF THE OHWM, HAND TOOLS SHALL BE USED, UNLESS OTHERWISE APPROVED IN ADVANCE BY THE CITY.

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P. Simon 01-2023
DRAWN BY: DATE

R. DOTN, P.E. 01-2023
CHECKER BY: DATE

CITY OF KIRKLAND

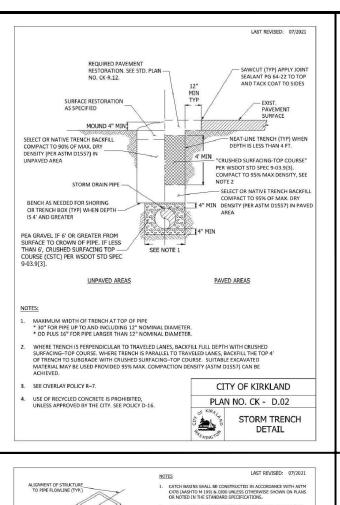
STORMWATER PROFILES

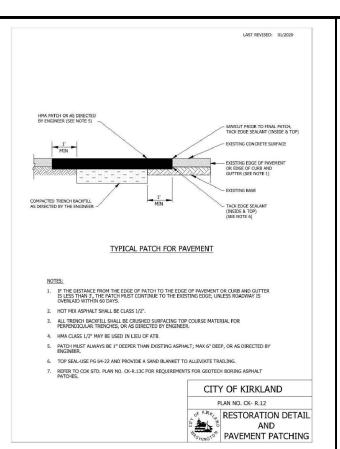
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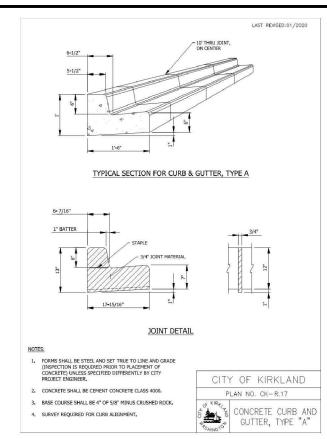
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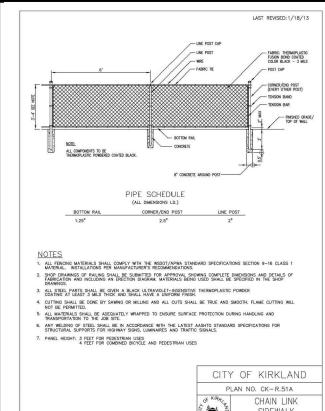
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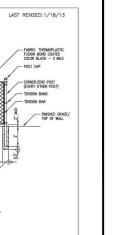
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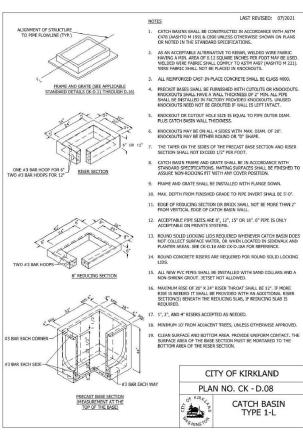


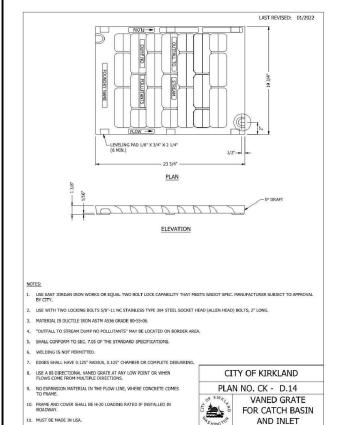


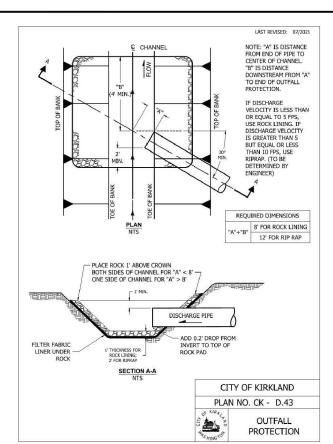


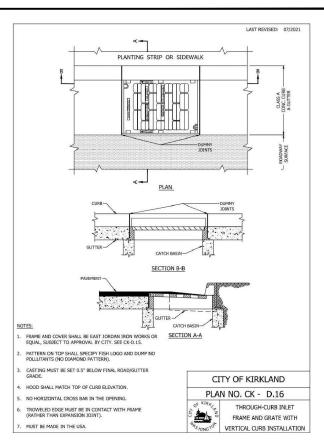
NOTES:

 PANEL HEIGHT FOR CHAIN LINK SIDEWALK SAFETY RAIL, CK-R.51A, SHALL BE 4 FEET.









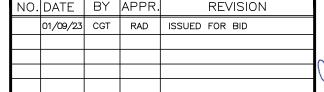


1-800-424-5555 UNDERGROUND SERVIC

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS 123 FIFTH AVENUE KIRKLAND, WA 98033

(425) 587-3800 www.kirklandwa.gov







BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101

206.505.3400
206.505.3406 (fax)
www.bhcconsultants.cc

C. Talich, P.E. DESIGNED BY:	01-2023 DATE
P. Simon DRAWN BY:	01-2023 DATE
R. Dorn, P.E. CHECKED BY:	01-2023 DATE

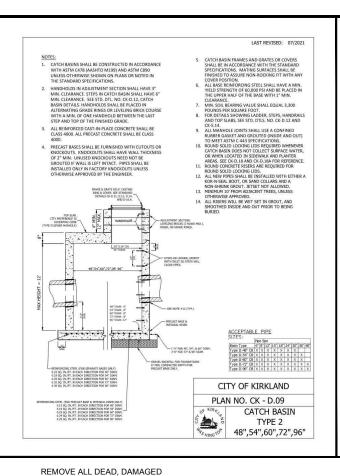
CITY OF KIRKLAND DETAILS

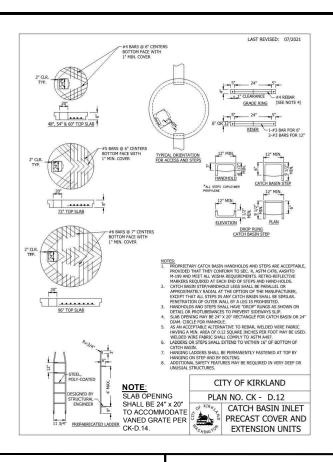
10 SCALE: NTS

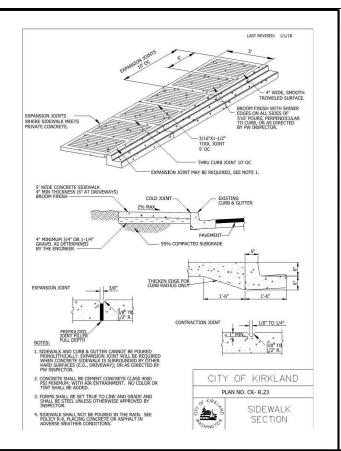
SIDE WALK SAFETY RAIL

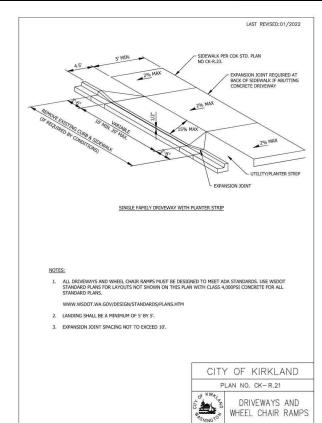
ILENAME:

P19-10634_10_Details



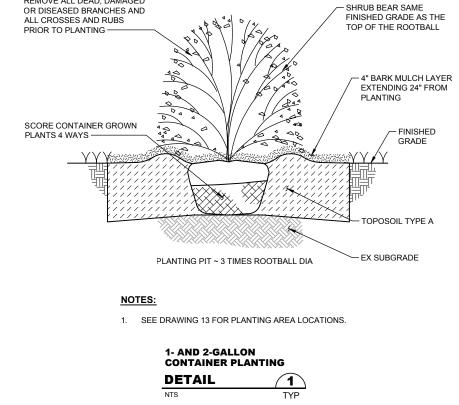






NOTES:

PLAN CK-D.12, NOTE 4 SHALL BE REVISED AS FOLLOWS: SLAB OPENING SHALL MATCH THE CASTING REFERENCED ON SHEET 8.



Call 48 Hours Before You Dig

1-800-424-5555

SONINGTO

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS 123 FIFTH AVENUE KIRKLAND, WA 98033

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NO.	DATE	BA	APPR.	REVISION
	01/09/23	CGT	RAD	ISSUED FOR BID





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C. Talich, P.E.	01-2023
DESIGNED BY:	DATE
A. Bradley DRAWN BY:	01-2023 DATE
R. Dorn, P.E. CHECKED BY:	01-2023 DATE

CITY OF KIRKLAND
DETAILS

SHEET:

11
SCALE:
NTS
FILENAME:
P19-10634_11_Details

