

18727 73RD AVE NE
MUCK CREEK MITIGATION



VICINITY MAP
N.T.S.

PROPERTY 1 (NORTH) INFORMATION:

PARCEL: #011410-0410
OWNER: CITY OF KENMORE
ADDRESS: 18727 73RD AVE NE, KENMORE, WA 98028
ZONING CATEGORY: R1
AREA: 1.34 ACRES
LEGAL DESCRIPTION: NO EASEMENTS, RESTRICTIONS, OR RESERVATIONS OF
RECORD WHICH WOULD BE DISCLOSED BY TITLE REPORT
ARE SHOWN.

LEGAL DESCRIPTION SHOWN HEREON IS BASED ON DEED
REC. NO. 20221114001021.

THE NORTHERLY 150 FEET OF LOT 2, BLOCK 9,
ALDERWOOD MANOR NO. 14, ACCORDING TO THE PLAT THEREOF
RECORDED IN VOLUME 26 OF PLATS, PAGE 4, RECORDS OF KING
COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

PROPERTY 2 (SOUTH) INFORMATION:

PARCEL: #011410-0412,
OWNER: PARADALIS GROUP III LLC
ADDRESS: 18707 73RD AVE NE, KENMORE, WA 98028
ZONING CATEGORY: R1
AREA: 2.15 ACRES
LEGAL DESCRIPTION: 18707 73RD AVE NE 98028
ALDERWOOD MANOR #14 LESS N 150 FT LESS RD
PLAT BLOCK: 9
PLAT LOT: 2

PROJECT OWNER:

CITY OF KENMORE
18120 68TH AVE NE
KENMORE, WA 98028

CIVIL ENGINEER/
LANDSCAPE ARCHITECT:

OSBORN CONSULTING, INC.
1800 112TH AVE NE, SUITE 220-E
BELLEVUE, WA 98004
(425) 451-4009

SURVEYOR:

SAM
15241 NE 90th Street, Suite 100
Redmond WA 98052
(425) 823-5700

PROJECT PURPOSE:

THE CITY OF KENMORE (CITY) HAS IDENTIFIED THE 18727 73RD AVE NE AS A MITIGATION SITE FOR THE PLANNED "68TH AVENUE NE PEDESTRIAN AND BICYCLE IMPROVEMENTS" PROJECT. THE PROJECT INCLUDES GRADING TO CREATE ADDITIONAL FLOODPLAIN STORAGE, REMOVAL OF INVASIVE OR NON-NATIVE VEGETATION, AND WETLAND ENHANCEMENT. THE PROJECT WILL ALSO INCLUDE ENHANCEMENTS TO THE STREAM CHANNEL INCLUDING CHANNEL REALIGNMENT, ADDING LARGE WOODY MATERIAL (LWM), AND DEVELOPING A STABLE RIFFLE-POOL STREAM PATTERN.

PROJECT SENSITIVE AREAS, IMPACTS, AND MITIGATION:

THE PROJECT WILL INCLUDE TEMPORARY IMPACTS TO MUCK CREEK (TYPE F STREAM) AND ADJACENT WETLANDS (WETLAND A, RIVERINE WETLAND, CATEGORY II). THE PURPOSE OF THIS PROJECT IS TO ENHANCE THE FUNCTION OF EACH OF THESE SENSITIVE AREAS, SO THE PROJECT WILL BE SELF MITIGATING, AS SHOWN ON THE FOLLOWING SHEETS. THE PROJECT IS ALSO IN THE FLOOD HAZARD AREA OF SWAMP CREEK. THE PROJECT INCLUDES SIGNIFICANT CUT TO INCREASE FLOOD STORAGE ON THE SITE, SO THE PROJECT WILL NOT RESULT IN ADVERSE IMPACTS TO THE FLOOD HAZARD AREA.

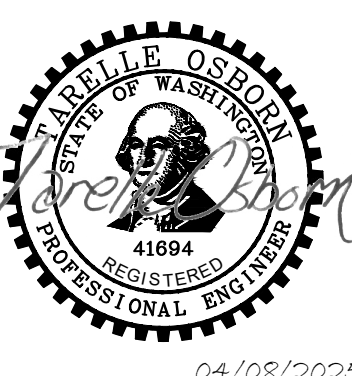
ACCEPTED BY:


CITY OF KENMORE

DATE _____



Know what's below.
Call before you dig.



DESIGNED BY MZ	<div>Osborn Consulting</div>	www.osbornconsulting.com						<div>CITY OF KENMORE DEPARTMENT OF PUBLIC WORKS 18120 68TH AVE NE KENMORE, WA 98028</div>	<div>MUCK CREEK MITIGATION 18727 73RD AVE NE COVER SHEET</div>	JOB# / DWG 10-230113	DATE 04/03/2025
DRAWN BY AS										SCALE	SHEET
CHECKED BY TO										H: N/A V: N/A	1 of 13
			NO.	DATE	REVISION	BY					

ADT	AVERAGE DAILY TRAFFIC
APPROX.	APPROXIMATE, APPROXIMATELY
BMP	BEST MANAGEMENT PRACTICE
BW	BOTTOM OF WALL
CFS	CUBIC FEET PER SECOND
CHNL	CHANNEL
CL	CENTERLINE, CLASS
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CRZ	CRITICAL ROOT ZONE
CTR	CENTER
CY	CUBIC YARDS
DI	DUCTILE IRON
DIA	DIAMETER
E	EAST, EASTING
EG	EXISTING GRADE
ELEV	ELEVATION
FIG	FIGURE
FLEX	FLEXIBLE
FT	FOOT, FEET
HB	HORIZONTAL BEND
HMA	HOT MIX ASPHALT
HPA	HYDRAULIC APPROVAL
HVF	HIGH VISIBILITY FENCE
IE	INVERT ELEVATION
IN, "	INCH
LCL	LOCAL LOW POINT
LF	LINEAR FOOT
MAX	MAXIMUM
MJ	MECHANICAL JOINT
MPH	MILES PER HOUR
MON	MONUMENT
N	NORTH, NORTHING
N.T.S.	NOT TO SCALE
NUD	NORTHSHORE UTILITY DISTRICT
OHWM	ORDINARY HIGH WATER MARK
PSE	PUGET SOUND ENERGY
R	RADIUS
REQS	REQUIREMENTS
RJ	RESTRAINED JOINT
ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SF	SQUARE FEET
STA.	STATION
STD	STANDARD
SSMH	SANITARY SEWER MANHOLE
TBM	TEMPORARY BENCHMARK
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
VB	VERTICAL BEND
W	WEST

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KENMORE MUNICIPAL CODE (KMC), CITY OF KENMORE 2021 ROAD STANDARDS (COKRS), 2016 KING COUNTY SURFACE WATER DESIGN MANUAL (AS AMENDED BY CITY OF KENMORE), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS (CURRENT EDITION), AND THE CONDITIONS OF PRELIMINARY APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER OF RECORD TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE CITY OF KENMORE.
2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED AGAINST THE EXISTING CODES AND STANDARDS AT THE TIME OF APPLICATION. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE CITY OF KENMORE PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF KENMORE PRIOR TO CONSTRUCTION.
3. APPROVAL OF THIS ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.).
4. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY'S INSPECTOR, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. CONSTRUCTION ACTIVITIES ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH FRIDAY. NO CONSTRUCTION IS TO TAKE PLACE ON SUNDAYS OR HOLIDAYS.
7. IT SHALL BE THE APPLICANT'S/ CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY ADDITIONAL CONSTRUCTION EASEMENTS/ NECESSARY BEFORE BEGINNING ANY OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL BY THE CITY PRIOR TO CONSTRUCTION.
8. UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL STANDARD REQUIREMENTS ARE SUBMITTED TO THE CITY OF KENMORE 30 DAYS PRIOR TO CONSTRUCTION.
9. DATUMS SHALL BE NAVD 88 AND NAD 83/91 (KMC 17.15.130), UNLESS OTHERWISE APPROVED BY THE CITY OF KENMORE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, 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 CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. THE MOST CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY THE CITY OF KENMORE.

10. SEASONAL CLEARING IS LIMITED BETWEEN OCTOBER 1 AND APRIL 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE CITY OF KENMORE.

1. APPROVAL OF THE PROJECT'S EROSION AND 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.)
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (KCSWDM APPENDIX D) DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED PER THE STANDARDS BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
6. 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 AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.).
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

- KENMORE STANDARD EROSION AND
SEDIMENT CONTROL RECOMMENDED
CONSTRUCTION SEQUENCE:**

- PROJECT GENERAL NOTES:**

1. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT. ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATER, OR ALLOW PARTICULATE EMISSIONS TO ENTER THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL FROM THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.
2. CONTRACTOR SHALL RETAIN ANY WOODY MATERIAL REMOVED FOR CONSTRUCTION (DEFINED AS TREES CALLED FOR REMOVAL ON SHEET 4, OR OTHER TREES NOT SHOWN ON THE PLANS BUT LOCATED WITHIN THE LIMIT OF WORK, BETWEEN 4-6 INCH DIAMETER, AND LONGER THAN 6 FEET, OR PARTS OF SAID TREES) AND UTILIZE THEM FOR DEFORMABLE GRADE CONTROL OR AS LOGS (SEE STREAM PLAN ON SHEET 7).

1. THE TREE PROTECTION AREA SHALL BE DEFINED AT THE CRITICAL ROOT ZONE (CRZ) PLUS AND ADDITIONAL 3-FT OUTSIDE OF THE CRZ, AS SHOWN ON DETAIL 3 ON SHEET 5. REFER TO KMC 18.57.090.
2. DO NOT USE AREA BEYOND THE CLEARING LIMITS FOR ANY REASON. USE OF THE AREA WITHIN THE FENCE SHALL BE ONLY AS APPROVED BY ENGINEER.
3. CONTROL SOIL MOISTURE WITHIN THE TREE PROTECTION AREA. PREVENT FLOODING OF THE SOIL AND PROTECT ROOT AREAS FROM RUNOFF FROM CEMENT, OIL AND ALL OTHER CONTAMINANTS.
4. THE FOLLOWING STEPS SHALL BE IMPLEMENTED FOR REMOVAL OF TREES WITHIN THE CRITICAL ROOT ZONE OF TREE TO REMAIN:
 - A. REMOVE TREE BRANCHES TO AVOID DAMAGE TO THE CANOPY OF TREES TO REMAIN.
 - B. NO MACHINERY SHALL BE USED FOR TREE REMOVAL.
 - C. GRIND STUMPS TO 6" BELOW FINISH GRADE. DO NOT EXCAVATE.
5. CUT OFF ROOTS CLEANLY WITH APPROPRIATE TOOL WHEN ROOTS ARE EXPOSED DUE TO APPROVED DEMOLITION ACTIVITIES. AVOID ALL TEARS AND BREAKS IN ROOT SURFACES. DURING THE TIME OF EXPOSURE KEEP ROOTS MOIST WITH WET MULCH, COMPOST OR TOPSOIL. HAND DIG TRENCHES IN AREAS WITH EXTENSIVE ROOTS. LEAVE INTACT AND UNDAMAGED ROOTS LARGER THAN TWO INCHES IN DIAMETER. PLACE UTILITY CONDUIT EITHER UNDER ROOTS BY TUNNELING OR OVER ROOTS WITH 18" MINIMUM BEDDING.

- PROJECT TESC GENERAL NOTES:**

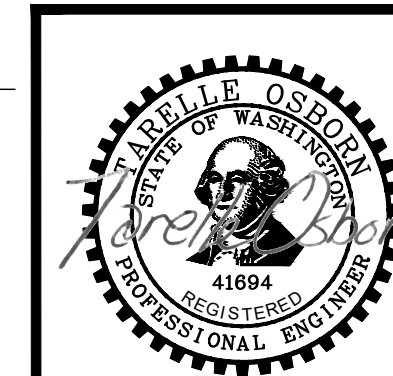
3. TESC MEASURES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL LOCATE TO ACCOMMODATE SITE CONDITIONS AND WORK SCHEDULE.
2. ALL VEGETATION WITHIN CLEARING AND GRUBBING LIMITS SHALL BE REMOVED UNLESS NOTED OTHERWISE. ALL VEGETATION OUTSIDE DESIGNATED LIMITS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED WITHIN THE PLANS.
3. TEMPORARY SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED WATTLES, END RUNS AND UNDER CUTTING BENEATH WATTLES. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF KENMORE TO NOTIFY, FACILITATE AND MAINTAIN ACCESS TO ACCOMMODATE WORK OUTSIDE OF THE RIGHT-OF-WAY WITH PROPERTY OWNERS.
5. ANY AREA NEEDING TESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
6. CONTRACTOR MUST SUBMIT A STOCKPILING PLAN, PER THE SPECIFICATIONS, TO THE CITY FOR APPROVAL PRIOR TO WORK IF THE CONTRACTOR PLANS TO STOCKPILE. ALL STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND PROTECTED FROM EROSION BY MECHANICAL OR VEGETATIVE MEANS.
7. ALL PROPERTIES ADJACENT TO THE PROJECT SHALL BE PROTECTED FROM SEDIMENT DEPOSITION.
8. SEDIMENTS TRANSPORTED ON TO A ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENTS SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
9. ALL POLLUTANTS, INCLUDING WASTE MATERIALS THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
10. CONTRACTOR SHALL IMPLEMENT BEST PRACTICES TO CONTROL CONSTRUCTION DUST AND NOISE PER THE SPECIFICATIONS.
11. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
12. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SILT PREVENTION MEASURES, SUCH AS DRIP PANS. CONTRACTOR MUST HAVE A SPILL KIT ONSITE DURING CONSTRUCTION AND CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
13. MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR PH IN THE RECEIVING WATER.
14. REMOVE TESC AND RETURN EROSION CONTROL AREAS TO ORIGINAL GROUND CONDITIONS UPON COMPLETION.
15. REFER TO THE KCSWDM APPENDIX D FOR BMP REQUIREMENTS AND DETAILS.
16. WHEN DEWATERING IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE APPROVED BY THE CITY OF KENMORE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO DISCHARGE TO THE WETLAND OR STREAM. THE DISCHARGE SHALL BE DESIGNED SO THAT THE RETURNING WATERS DO NOT CAUSE EROSION.

DETAIL REFERENCE NUMBER _____ → 1 Known _____

SHEET ON WHICH THE DETAIL APPEARS _____ → #### C _____

DETAIL REFERENCE NUMBER _____ → 1 **(TITLE)** _____

SHEET FROM WHICH THE DETAIL WAS TAKEN _____ → ### N.T.S. _____



FILE NAME: C:\PW\OSBORN\WORKING\DM52353\IP24_10-180049_EXIST.DWG
PLOT TIME: 4/3/2025 4:28 PM
USER NAME: ALEKSANDRA SLATALA

PARCEL: 012604-9221
ADDRESS: 18816 71ST AVE NE,
KENMORE, WA 98028
OWNER: AMY HENNE

PARCEL: 011410-0408
ADDRESS: 18801 73RD AVE NE, KENMORE, WA 98028
OWNER: DAVID JOHNSON

PARCEL: 011410-0405
ADDRESS: 18817 73RD AVE NE, KENMORE, WA 98028
OWNER: DANIEL DOUGHERTY

TPN: 011410-0405

PARCEL: 011410-0410
ADDRESS: 18727 73RD AVE NE, KENMORE, WA 98028
OWNER: CITY OF KENMORE

PARCEL: 011410-0412
ADDRESS: 18707 73RD AVE NE,
KENMORE, WA 98028
OWNER: PARADALIS GROUP III LLC

TPN: 011410-0412

PARCEL: 012604-9222
ADDRESS: 18712 71ST AVE NE,
KENMORE, WA 98028
OWNER: TONY LU

TPN: 012604-9221

TPN: 012604-9222

DATUM
ORIGINATING BENCHMARK:
CITY OF KENT MONUMENT NO. 8528. A 2" BRASS DOME IN CONCRETE WITH PUNCHMARK,
DOWN 0.80' BELOW RIM.
VERTICAL DATUM: NAVD '88
ELEVATION: 38.20'
TEMPORARY BENCHMARK
TBM-A
SET AXIS REBAR & CAP LOCATED 1.1' SOUTH OF THE SOUTHERLY EDGE OF SITE DRIVEWAY.
ELEVATION: 38.84'
TBM-B
SET AXIS MAG AND WASHER LOCATED 17.1' SOUTH OF SDMH #1631, SET ON THE FACE OF
CURB.
ELEVATION: 40.41'
BASIS OF BEARINGS
WASHINGTON STATE PLANE COORDINATE SYSTEM, - NORTH ZONE NAD83
HELD A BASIS OF BEARING OF NORTH 01°43'08" WEST BETWEEN THE FOUND EASTERLY
CORNER OF TAX PARCEL 011410-0412 AND THE MONUMENT FOUND ON BANK ROAD AND
73RD AVE NE.

REFERENCES
(R1) RECORD OF SURVEY FOR VIRGINIA WILLIAMS, UNDER VOLUME 139, PAGES 283 UNDER
RECORDING NUMBER 20000905900007.
(R2) RECORD OF SURVEY FOR CITY OF KENMORE, UNDER VOLUME 175, PAGES 278
THROUGH 280 UNDER RECORDING NUMBER 20040823900019.
(R3) THE PLAT OF ALDERWOOD MANOR NO. 14, RECORDING NUMBER 192204181608090.
NOTES
EVIDENCE OF OCCUPATION OF LAND (FOR EXAMPLE: FENCES, STRUCTURES, PAVING,
GRAVELED SURFACES, ETC.) MAY NOT COINCIDE WITH THE DEEDED BOUNDARY LINES AS
SHOWN ON THIS DRAWING. THERE ARE AREAS ON THIS SURVEY APPEARING TO HAVE
DISCREPANCIES BETWEEN THE DEEDED BOUNDARY LINES AND CERTAIN EVIDENCE OF
OCCUPATION. WHERE DISCREPANCIES EXIST, THIS SURVEY RECOMMENDS THAT THE OWNER OR
POTENTIAL PURCHASER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO
INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL BOUNDARY DISPUTES.

WETLAND AND ORDINARY HIGH WATER NOTE
THIS SURVEY INDICATES THE LOCATION OF WETLAND ON ORDINARY HIGH WATER (OHW)
FLAGS AS PLACED BY MAKENNA LINDBERG ON 11/12/2022.
EQUIPMENT NOTES
PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED
UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA SYSTEM
1200 EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS
SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC
1201 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS
SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

DESIGNED BY
MZ
DRAWN BY
AS
CHECKED BY
TO
Osborn Consulting
www.osbornconsulting.com



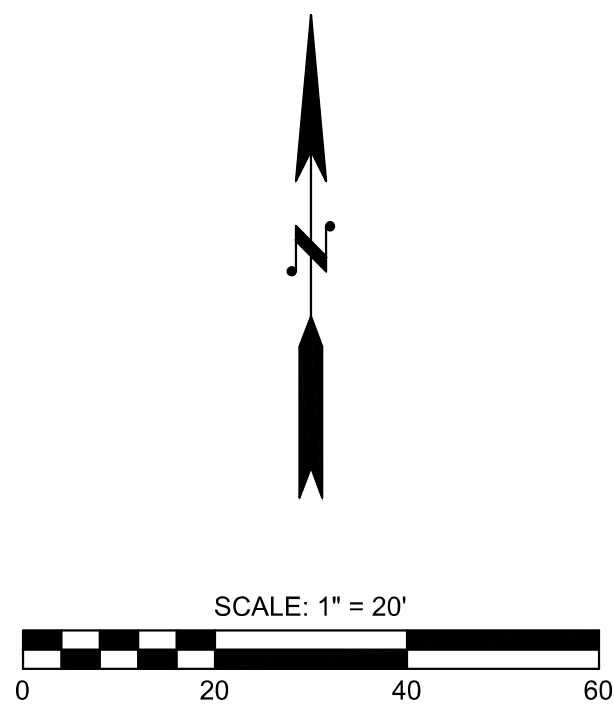
NO.	DATE	REVISION	BY



CITY OF KENMORE
DEPARTMENT OF PUBLIC WORKS
18120 68TH AVE NE
KENMORE, WA 98028

MUCK CREEK MITIGATION
18727 73RD AVE NE
EXISTING CONDITIONS

JOB# / DWG	10-230113	DATE	04/03/2025
SCALE	H: 1"=20' V: N/A	SHEET	3 of 13



LEGEND

- SET BENCHMARK
- FOUND MONUMENT IN CASE
- FOUND REBAR AND CAP AS NOTED
- SANITARY SEWER MANHOLE
- CATCH BASIN
- STORM DRAIN MANHOLE
- CULVERT
- SOIL LOG/TEST PIT
- SIGN
- POST
- WATER METER
- WATER VALVE
- STREET LIGHT
- UTILITY POLE W/UNDERGROUND CONDUIT
- UTILITY POLE
- WETLAND FLAG

PROPERTY LINE

- CHAIN LINK FENCE LINE (CLFNC)
- WOOD FENCE LINE (BFNC)
- WIRE FENCE LINE (HWFNC)
- DITCH LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- ORDINARY HIGH WATER LINE
- STREAM THALWEG LINE
- EDGE OF WATER LINE

EXISTING FLOODPLAIN LINE

- EXISTING RETAINING WALL
- ROCKERY

DECIDUOUS

CONIFER

CONCRETE PAVING

ASPHALT PAVING

BUILDINGS

EDGE OF WATER

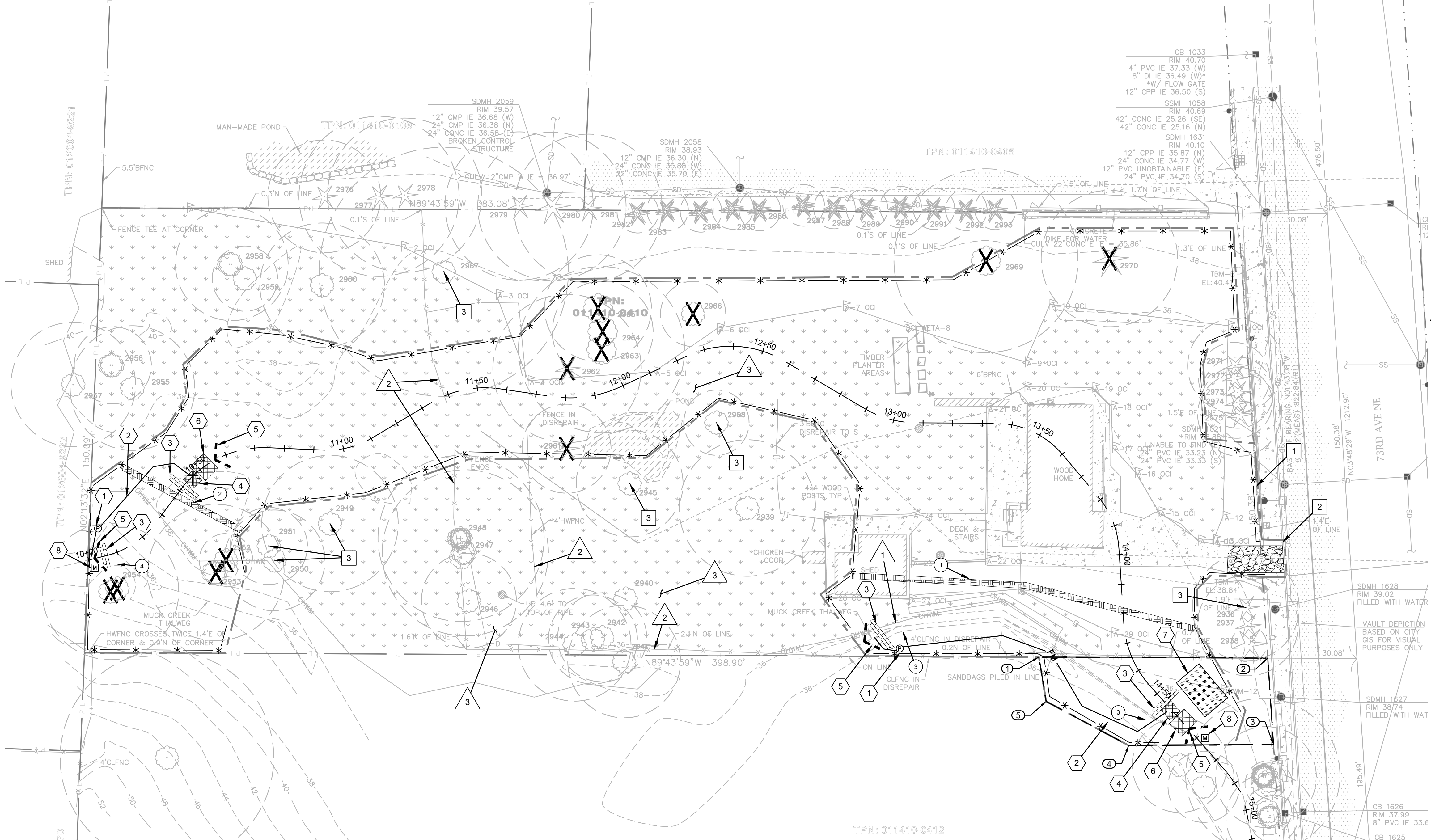
WETLANDS



Know what's below.
Call before you dig.



FILE NAME: C:\PW\OSBORN\WORKING\DM32353\IP24_10-180049_TESC.DWG
PLOT TIME: 4/3/2025 4:46 PM
USER NAME: DOUGLAS EHLEBRACHT



LEGEND

	CLEARING LIMITS		FILTER BAG
	TEMPORARY CONSTRUCTION EASEMENT LIMIT		RIPRAP MAT
	HIGH VISIBILITY SILT FENCE		PUMP
	FORCE MAIN		TURBIDITY MONITORING STATION
	STABILIZED CONSTRUCTION ENTRANCE		GRAVEL BAG
	SEDIMENT MAT		FISH SCREEN
	TEMPORARY BERM		REMOVE TREE (SEE NOTE 11)

- DEMOLITION CONSTRUCTION NOTES:**
- REMOVE SANDBAGS ALONG EXISTING STREAM BANK. ONLY REMOVE SANDBAGS LOCATED WITHIN THE GRADING AREA.
 - REMOVE EXISTING FENCE. FOR ALL AREAS OUTSIDE OF THE GRADING LIMITS, FENCE MUST BE REMOVED BY HAND.
 - REMOVE REMAINING DEBRIS FROM SITE. APPROXIMATE AREAS WITH PILES OF DEBRIS ARE SHOWN ON THE PLANS, BUT ADDITIONAL ITEMS MAY BE SCATTERED THROUGHOUT THE PARCEL. ALL ANTHROPOGENIC DEBRIS SHALL BE REMOVED.

POINT TABLE		
POINT #	NORTHING	EASTING
1	281994.3462	1293784.2085
2	281993.9870	1293861.3356
3	281964.8945	1293863.2721
4	281964.5149	1293814.4743
5	281979.3958	1293786.6240

GENERAL NOTES:

- ALL EXISTING STRUCTURES WILL BE REMOVED FROM THE SITE PRIOR TO CONSTRUCTION OF THIS PROJECT. STRUCTURE DEMOLITION WILL BE COMPLETED BY OTHERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL MACHINERY AND TOOLS.
- NO GROUND DISTURBANCE (MECHANICAL EQUIPMENT) SHALL OCCUR OUTSIDE OF THE CLEARING AND GRADING LIMITS.
- ALL TREES NOT SPECIFICALLY MARKED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED. ENGINEER CONCURRENCE IS REQUIRED PRIOR TO THE REMOVAL OF ANY UNMARKED TREES WITH A DBH OF 6-INCHES OR GREATER.
- THE CONTRACTOR SHALL SUBMIT THE TEMPORARY STREAM DIVERSION AND FISH EXCLUSION PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE TEMPORARY STREAM DIVERSION SYSTEM SHOWN ON PLAN IS ONLY A GUIDE.
- THE TEMPORARY STREAM DIVERSION SYSTEM AND PLAN SHALL MEET ALL PERMIT REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY STREAM DIVERSION MEASURES AFTER COMPLETION OF PROJECT.
- THE TEMPORARY STREAM DIVERSION SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTION.
- PEAK FLOW RATES ANTICIPATED DURING THE PERIOD OF CONSTRUCTION ARE NOTED ON DETAIL 1 ON SHEET 5. FLOW MAY BE HIGHER DURING HIGH RAINFALL EVENTS. CONTRACTOR SHALL BE PREPARED TO PROTECT WORK SITE DURING HIGHER FLOWS.
- FISH EXCLUSION AND FISH REMOVAL SHALL BE PERFORMED BEFORE IN-WATER WORK.
- PROTECT EXISTING STREET LIGHTS, CURB AND GUTTER IN PLACE.
- PRIOR TO CLEARING AND GRUBBING, THE ENGINEER SHALL VERIFY ALL TREES TO BE REMOVED IN THE FIELD. ENGINEER MAY DIRECT THE CONTRACTOR TO KEEP TREES IDENTIFIED FOR REMOVAL BASED ON SITE CONDITIONS AND RISK ASSESSMENT. SEE SPECIAL PROVISION 2-01.1 FOR ADDITIONAL INFORMATION.

TEMPORARY STREAM DIVERSION CONSTRUCTION NOTES:

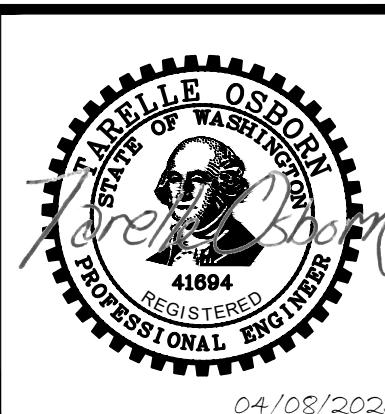
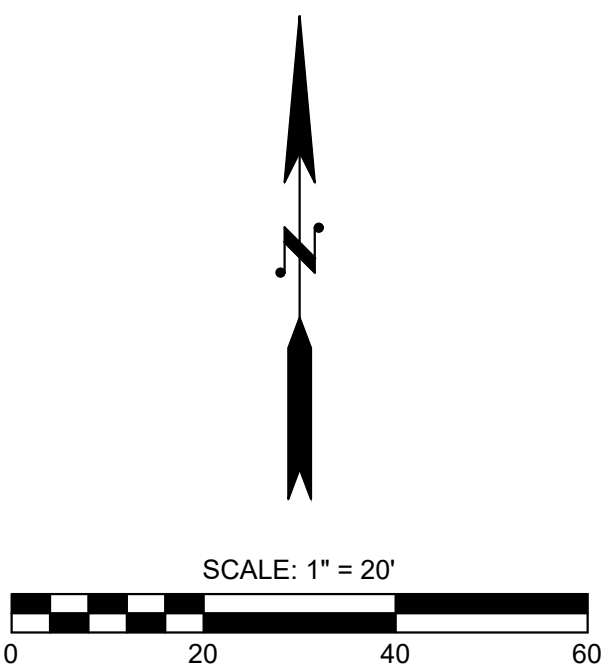
- INSTALL PRIMARY PUMP AND BACKUP PUMP. PUMPS SHALL BE SIZED PER THE PROJECT SPECIFICATIONS.
- INSTALL TEMPORARY STREAM DIVERSION PIPE. ADJUST LOCATION OF DIVERSION PIPE AS NEEDED TO PERFORM WORK. SEE DETAIL 1 ON SHEET 5.
- INSTALL GRAVEL BAG BERM. SEE DETAIL 1 ON SHEET 5.
- INSTALL TEMPORARY RIPRAP MAT TO PREVENT EROSION AT TEMPORARY STREAM DIVERSION OUTFALL. ALL RIPRAP SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE. SEE DETAIL 1 ON SHEET 5.
- INSTALL FISH SCREEN. SEE DETAIL 2 ON SHEET 5.
- INSTALL SEDIMENT MAT. SEE DETAIL 5 ON SHEET 5.
- INSTALL FILTER BAG FOR SEDIMENT REMOVAL FROM ANY DEWATERING ACTIVITIES THAT MAY BE NECESSARY DURING CONSTRUCTION. SEE DETAIL 4 ON SHEET 5.
- TURBIDITY MONITORING STATION. SEE CONTRACT SPECIFICATIONS FOR MONITORING REQUIREMENTS.

CONCEPTUAL STREAM DIVERSION SEQUENCE:

- MAINTAIN EXISTING STREAM CHANNEL. INSTALL TURBIDITY MONITORING STATIONS AND TEMPORARY BERMS (1) (2). PERFORM ALL GRADING AND STREAM CHANNEL CONSTRUCTION BETWEEN THE BERMS WHILE FLOW REMAINS IN THE EXISTING AND UNDISTURBED CHANNEL.
- INSTALL EASTERN STREAM DIVERSION (3) WITH ALL ITEMS INDICATED ON THIS SHEET AND PER TEMPORARY STREAM DIVERSION CONSTRUCTION NOTES. REMOVE BERM (1) AND PERFORM ALL GRADING AND STREAM CHANNEL CONSTRUCTION FOR THE PROJECT AREA IN EASTERN STREAM DIVERSION (3).
- REMOVE EASTERN STREAM DIVERSION (3). INSTALL WESTERN STREAM DIVERSION (4) WITH ALL ITEMS INDICATED ON THIS SHEET AND PER TEMPORARY STREAM DIVERSION CONSTRUCTION NOTES. REMOVE BERM (2) AND PERFORM ALL GRADING AND STREAM CHANNEL CONSTRUCTION FOR THE REMAINING PROJECT AREA.
- REMOVE WESTERN STREAM DIVERSION (4).

TESC CONSTRUCTION NOTES:

- MARK PROJECT LIMITS AND INSTALL HIGH VISIBILITY SILT FENCE PER WSDOT STD PLAN I-30.17-01. CLEAR AND GRUB WITHIN GRADING EXTENTS AND FOR TEMPORARY CONSTRUCTION ENTRANCE (APPROX 3,670 SY IN TOTAL).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE PER KCSWDM SECTION D.2.1.4.1 (APPROX 33 SY). PROTECT EXISTING WATER METER AND STORM DRAIN.
- PRESERVE AND PROTECT EXISTING TREE PER DETAIL 3 ON SHEET 5. SEE SHEET 2 FOR ADDITIONAL TREE PROTECTION NOTES. HIGH VISIBILITY FENCING INSTALLED ALONG THE CLEARING LIMITS MAY BE USED TO MEET THE FENCING REQUIREMENTS NOTED IN THE DETAIL.



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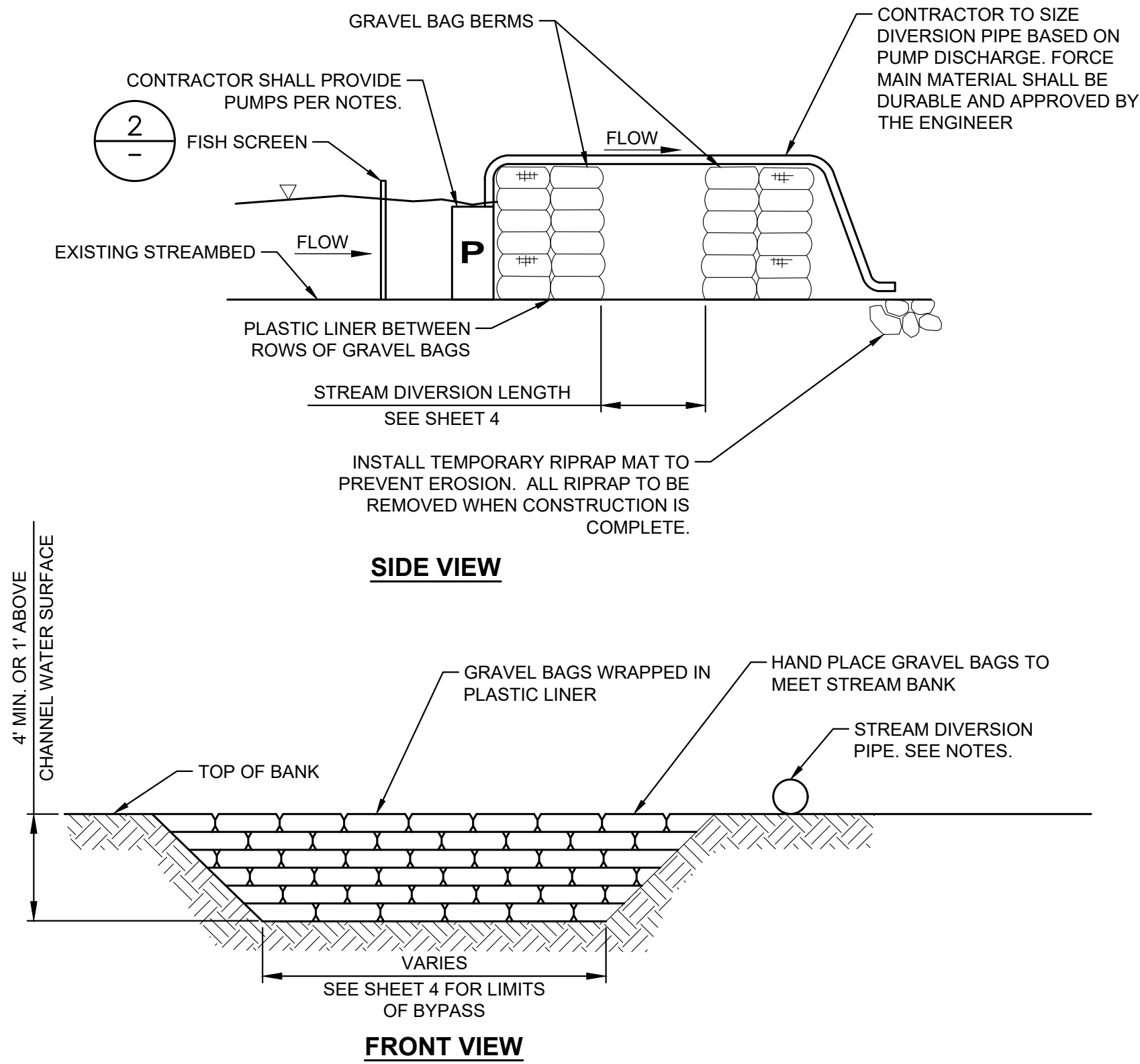
NO.	DATE	REVISION	BY



CITY OF KENMORE
DEPARTMENT OF PUBLIC WORKS
18120 68TH AVE NE
KENMORE, WA 98028

MUCK CREEK MITIGATION
18727 73RD AVE NE
SITE PREPARATION, STREAM DIVERSION & TESC
PLAN

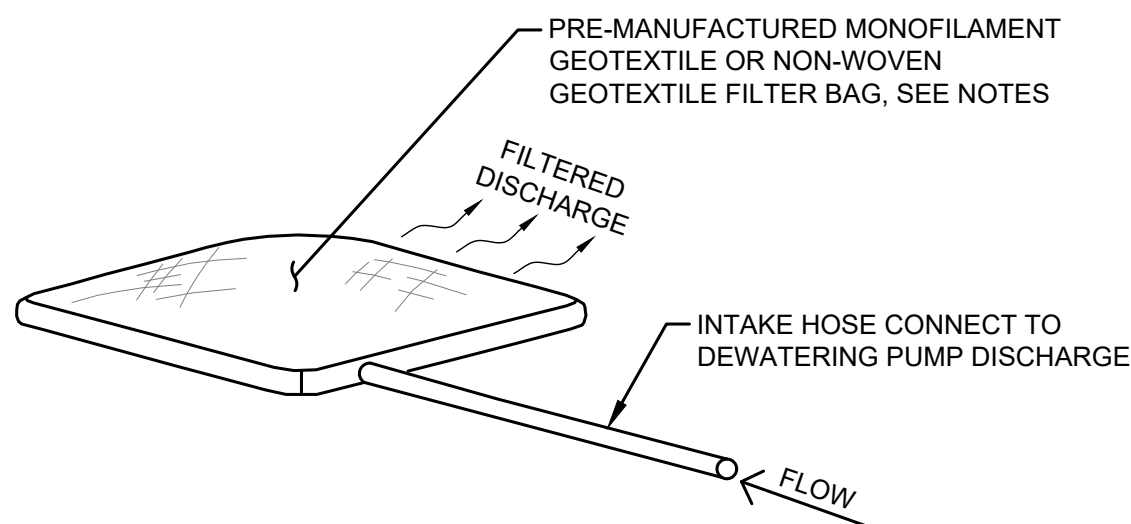
JOB# / DWG	10-230113	DATE	04/03/2025
SCALE	H: 1"=20' V: N/A	SHEET	4 of 13



- NOTES:**
1. TYPICAL 2-YR STORM IS 68.7 CFS.
 2. CONTRACTOR SHALL HAVE ON SITE, EMERGENCY DIVERSION PIPE, PUMPS, GENERATOR, AND APPURTENANCES IN THE EVENT OF HIGH FLOWS AS WELL AS BACKUP PUMP(S) IN CASE OF PRIMARY PUMP FAILURE. EMERGENCY DIVERSION PUMP INTAKE SHALL BE SCREENED TO PREVENT FISH FROM ENTERING DIVERSION SYSTEM. SEE THE CONTRACT PROVISIONS AND THE HPA FOR ADDITIONAL INFORMATION ON TEMPORARY STREAM DIVERSION.
 3. GRAVEL BAGS SHALL BE FILLED WITH ROUNDED PEA GRAVEL OR CLEAN SAND; NO ANGULAR OR CRUSHED MATERIALS MAY BE USED. GRAVEL BAGS SHALL BE WASTEHAULED AFTER REMOVAL OF BYPASS.
 4. PUMP INTAKE SCREEN SHALL BE BACKWATERED WITH THE PLACEMENT OF THE GRAVEL BAG BERM TO PREVENT FISH FROM GETTING IMPINGED OR ENTRAINED ON THE INTAKE SCREEN.

TEMPORARY STREAM DIVERSION DETAIL

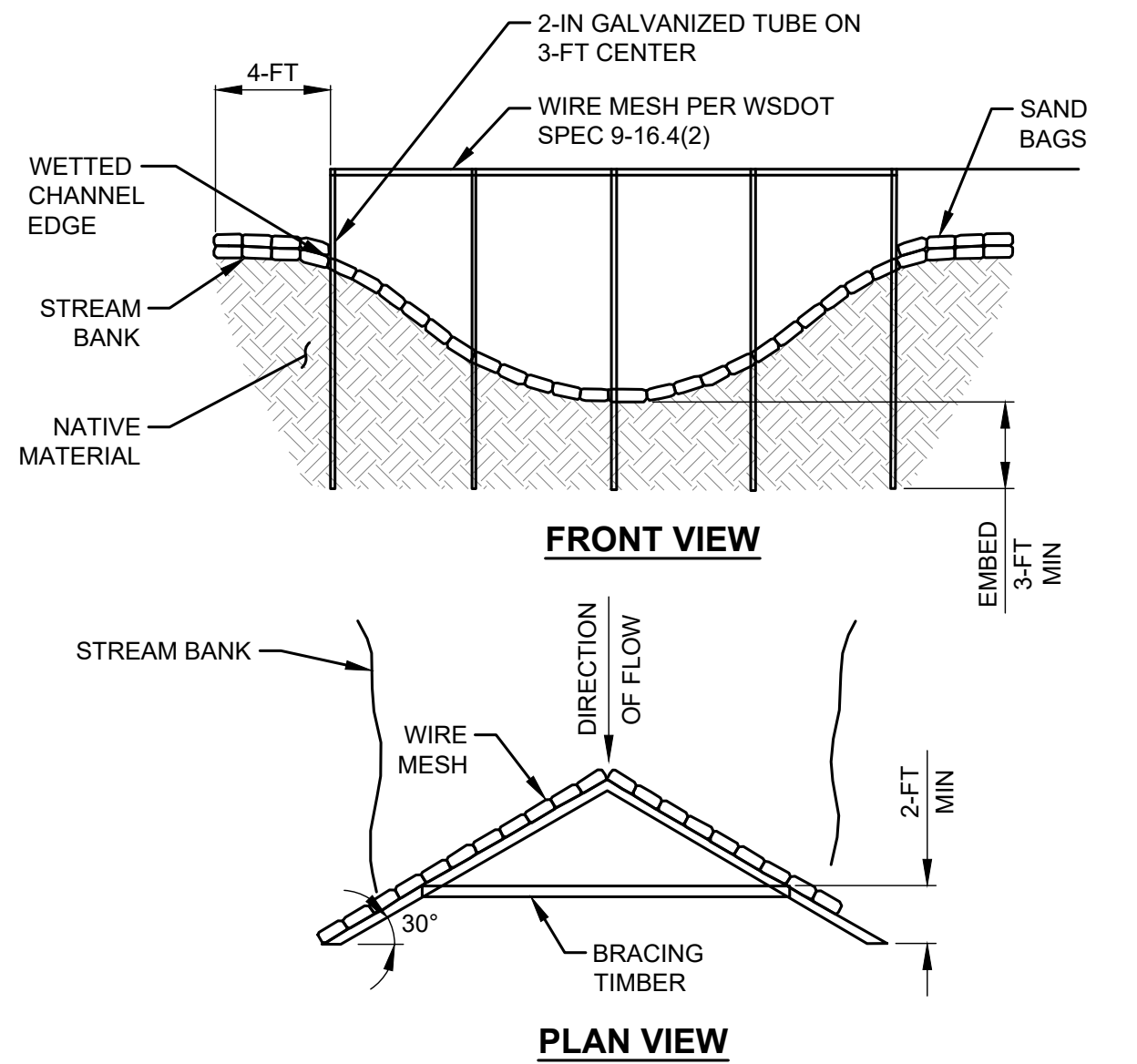
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- NOTES:**
1. FILTER BAG SHALL BE MINIMUM 10-FT X 15-FT AND REPLACED AS NEEDED TO ACCOMMODATE ACTUAL SEDIMENT LOAD CONDITIONS (I.E. VOLUME, TYPE OF SEDIMENT, ETC.)
 2. DRAIN FILTER BAG TO APPROVED RECEIVING AREA. RECEIVING AREA SHALL BE GRASSY AND UPLAND OF THE OHWM AND TURBIDITY MONITORING STATION.
 3. FILTER BAG SYSTEM TO BE INSPECTED DAILY WHEN IN USE TO VERIFY ADEQUATE PERFORMANCE.
 4. TURBIDITY MONITORING STATION INSTALLED AND MAINTAINED PER PERMIT REQUIREMENTS; SHOULD A TURBIDITY EXCEEDENCE OCCUR, THE FILTER BAG SYSTEM IS TO BE INSPECTED IMMEDIATELY AND REPLACED IF ANOTHER SEDIMENT SOURCE IS NOT IDENTIFIED.

FILTER BAG DETAIL

N.T.S.

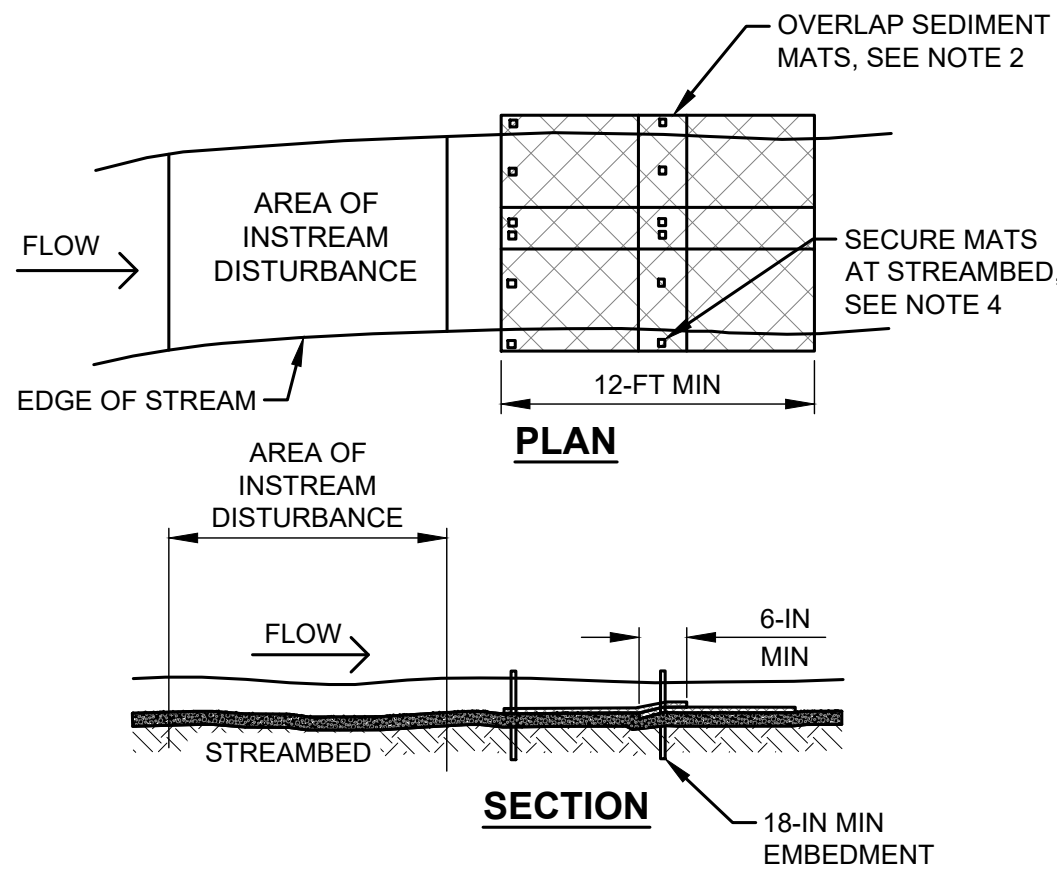


CONSTRUCTION SEQUENCE

1. INSTALL 2-IN GALVANIZED TUBES ON 3-FT CENTERS.
2. SECURE WIRE MESH TO 2-IN GALVANIZED TUBES WITH WIRE FASTENER.
3. SECURE 1/4-IN MAX. FISH NYLON NET TO UPSTREAM SIDE OF WIRE MESH WITH WIRE FASTENER.
4. SECURE NYLON FISH NET TO STREAM BOTTOM WITH SAND BAGS.
5. EXTEND SAND BAGS 4-FT MIN. INTO STREAM BANKS.
6. ADD BRACING TIMBER AS NEEDED TO SUPPORT THE SCREEN
7. REMOVAL OF DEBRIS FROM THE UPSTREAM SIDE OF THE FENCE IS NECESSARY OTHERWISE THE SCREEN WILL BECOME CLOGGED AND WATER MAY TOPPLE OR BREACH THE SCREEN.

FISH SCREEN DETAIL

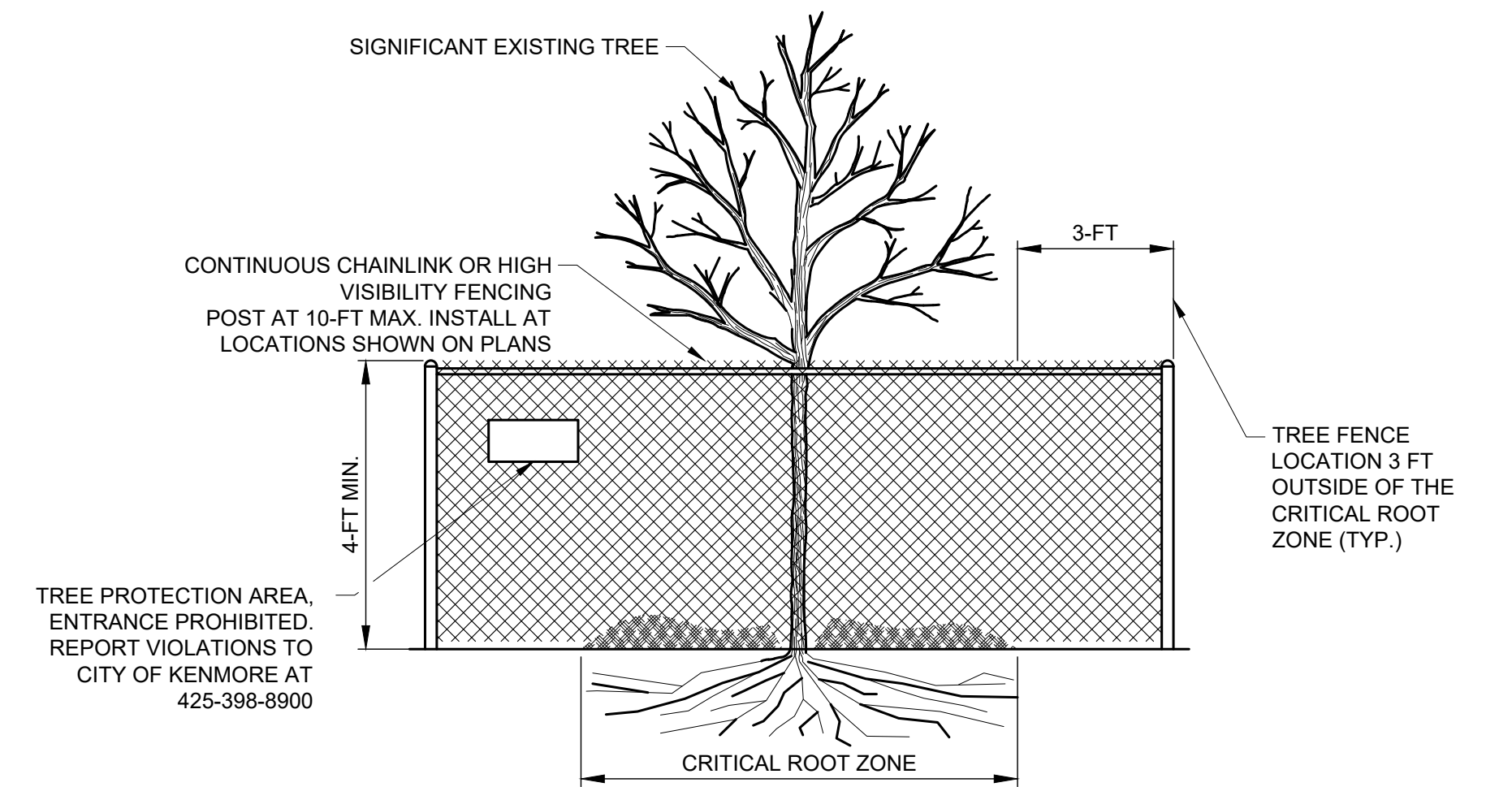
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- NOTES:**
1. INSTALL MATS FLAT ON THE STREAM BOTTOM AT DOWNSTREAM EDGE OF DISTURBED AREA IMMEDIATELY PRIOR TO INSTREAM DISTURBANCE AND REMOVE IMMEDIATELY AFTER INSTREAM ACTIVITIES ARE COMPLETED.
 2. OVERLAP THE TRAILING EDGE OF UPSTREAM MATS OVER THE LEADING EDGE OF DOWNSTREAM MATS BY AT LEAST 6-IN. OVERLAP SIDES A MINIMUM OF 6-IN.
 3. HOLD THE LEADING EDGE OF THE MATS TIGHTLY TO STREAMBED CONTOURS WITH ROCKS OR OTHER WEIGHTS.
 4. SECURE UPSTREAM CORNERS AND CENTERS OF MATS IN THE STREAMBED WITH 2-IN X 2-IN X 2-FT LONG WOOD STAKES.
 5. IF STREAM VELOCITY IS HIGH, ENGINEER MAY REQUIRE ADDITIONAL LENGTH OF SEDIMENT MAT.

SEDIMENT MAT DETAIL

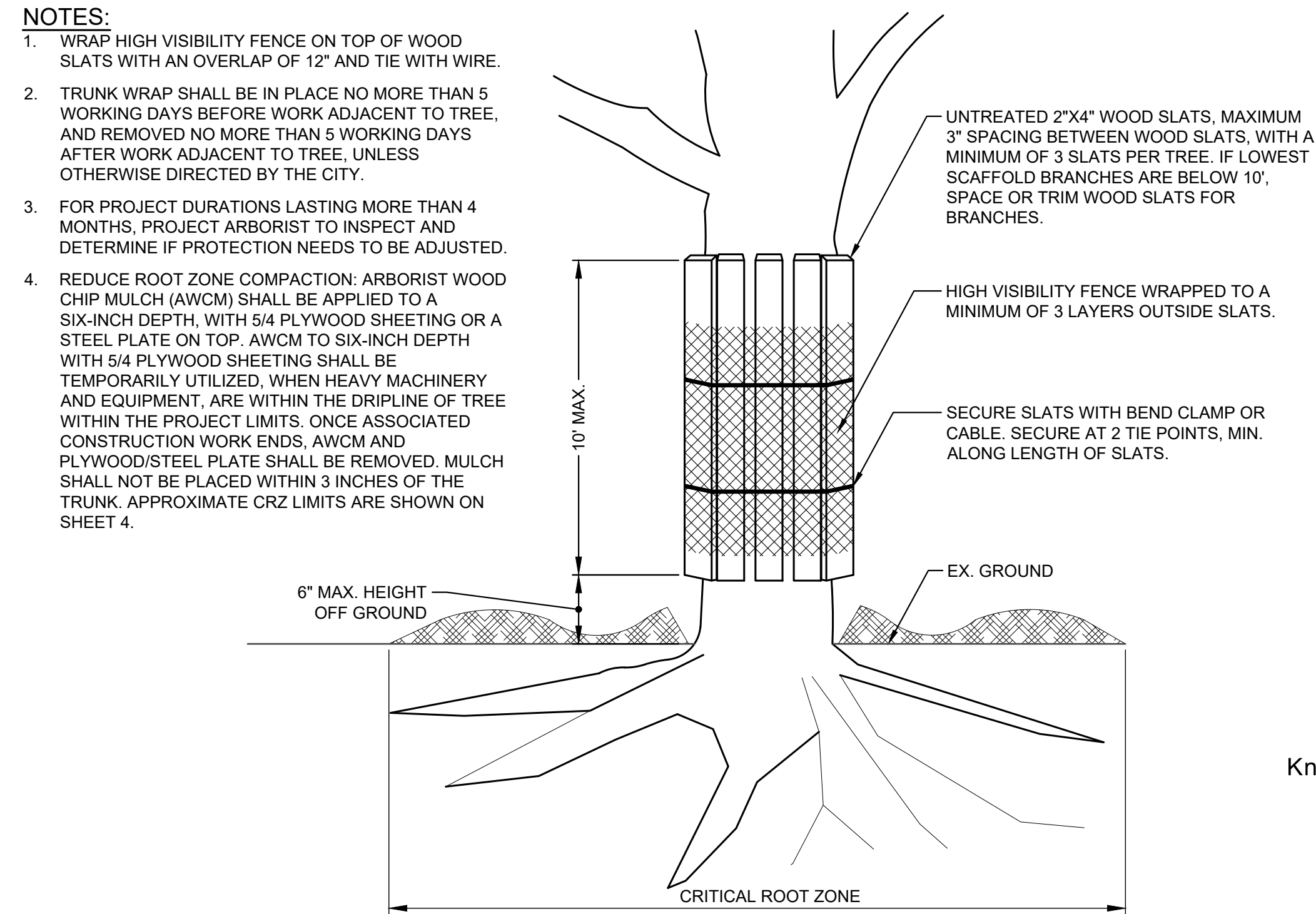
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- NOTES:**
1. CONTRACTOR SHALL PLACE THREE INCHES OF COMPOSTED WOODCHIPS OVER THE CRITICAL ROOT ZONE (CRZ) OF ALL RETAINED TREES TO RETAIN MOISTURE, INCREASE ORGANIC MATTER AND VISUALLY ESTABLISH THE CRZ. MULCH SHALL NOT BE PLACED WITHIN 3 INCHES OF THE TRUNK. APPROXIMATE CRZ LIMITS ARE SHOWN ON SHEET 4.
 2. HIGH VISIBILITY FENCE FASTENED, AS APPROVED BY THE ENGINEER, TO STEEL STAKES/ POLES DRIVEN SECURELY INTO THE GROUND SHALL BE PLACED MINIMUM THREE FEET BEYOND THE OUTER EDGE OF THE CRZ ZONE FOR ALL INDIVIDUAL TREES, GROVES OR OTHER DESIGNATED PROTECTION TREE AREAS. ANY DEVIATION FROM THE TREE FENCING METHODS LISTED ABOVE MUST BE AUTHORIZED IN WRITING BY THE CITY MANAGER IN ADVANCE.
 3. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER ONE (1) INCH DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
 4. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON-SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.
 5. FENCING SIGNAGE AS DETAILED ABOVE MUST BE POSTED EVERY FIFTEEN (15) FEET ALONG THE FENCE. SIGN TO BE MINIMUM 11"x17", AND MADE OF WEATHERPROOF MATERIAL.
 6. IF TREE PROTECTION FENCING AS DESCRIBED ABOVE IS INFEASIBLE DUE TO CONSTRUCTION ACTIVITIES, CONTRACTOR MAY PROTECT TREE USING TRUNK WRAP PER DETAIL 4 THIS SHEET. USE OF TRUNK WRAP PROTECTION MUST BE APPROVED BY THE ENGINEER AND AUTHORIZED IN WRITING BY THE CITY MANAGER.
 7. SEE ADDITIONAL TREE PROTECTION NOTES ON SHEET 2.

TREE PROTECTION FENCE DETAIL

N.T.S.

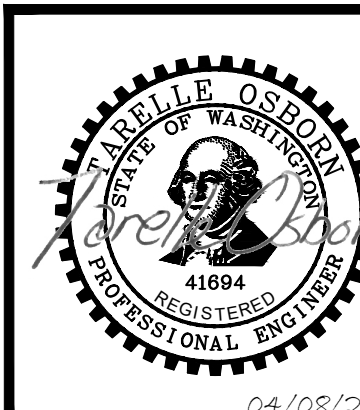


TRUNK WRAP DETAIL

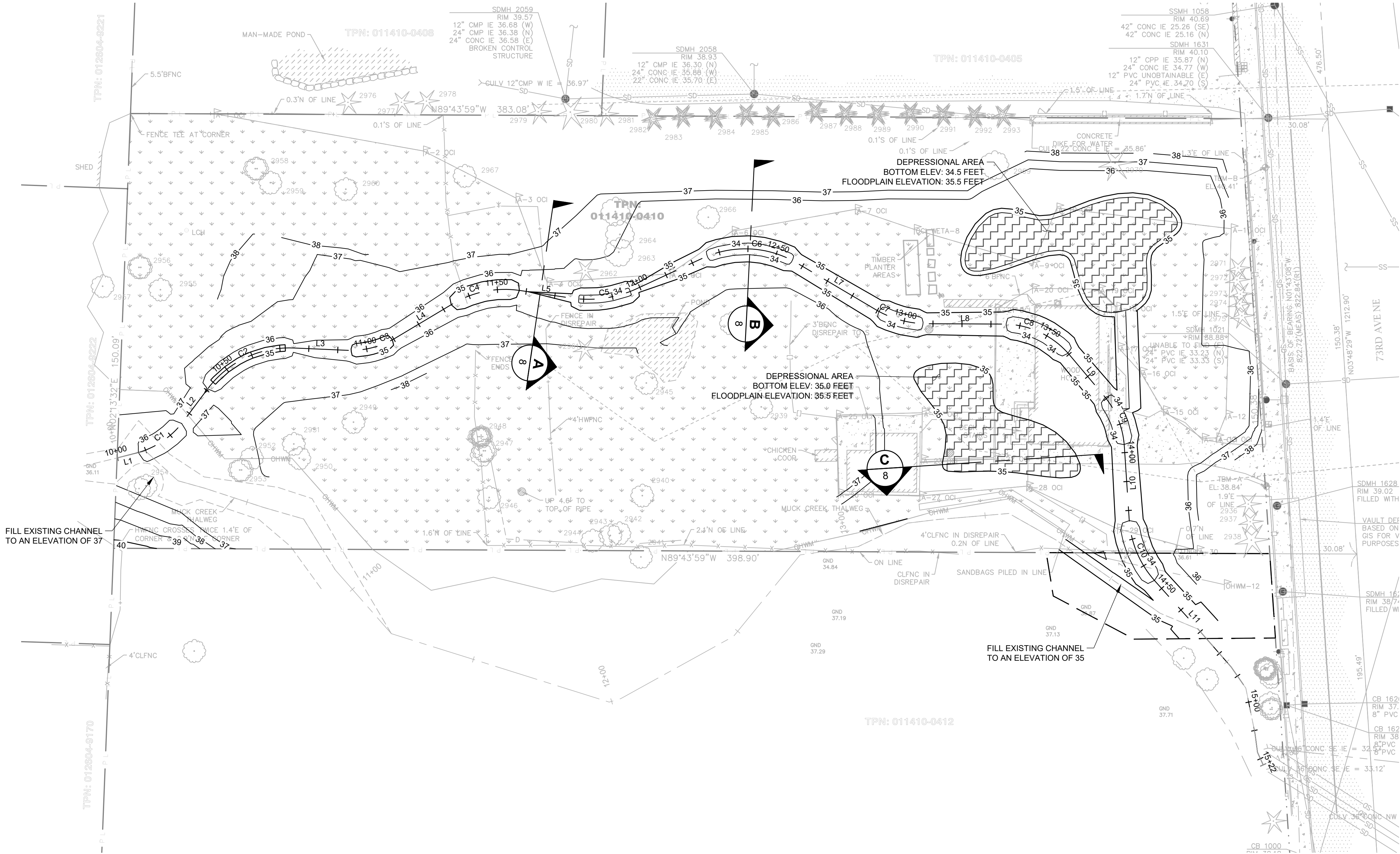
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FILE NAME: C:\PWL_OSBORN_WORKING\DM52353\24_10-180049_GRAD-1.DWG
PLOT TIME: 4/3/2025 4:29 PM
USER NAME: ALEKSANDRA SLATALA



GENERAL NOTES:

- SEE SHEET 7 AND SHEET 8 FOR PROPOSED STREAM CHANNEL PLAN AND PROFILE.
- SEE SECTIONS A, B AND C ON SHEET 8.
- ALL DISTURBED AREAS SHALL BE RESTORED PER SHEETS 10.
- ALL GRADES SHOWN ON THIS SHEET ARE FINISHED GRADES. EXCAVATED TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A DEPTH OF 1-FT, AND SUB GRADES SHALL BE ESTABLISHED TO ACCOMMODATE ALL SOIL AMENDMENTS SPECIFIED IN SPECIAL PROVISIONS SECTION 8-02 AND ON SHEET 11.

LEGEND:

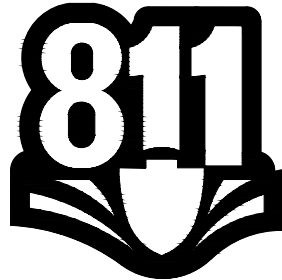
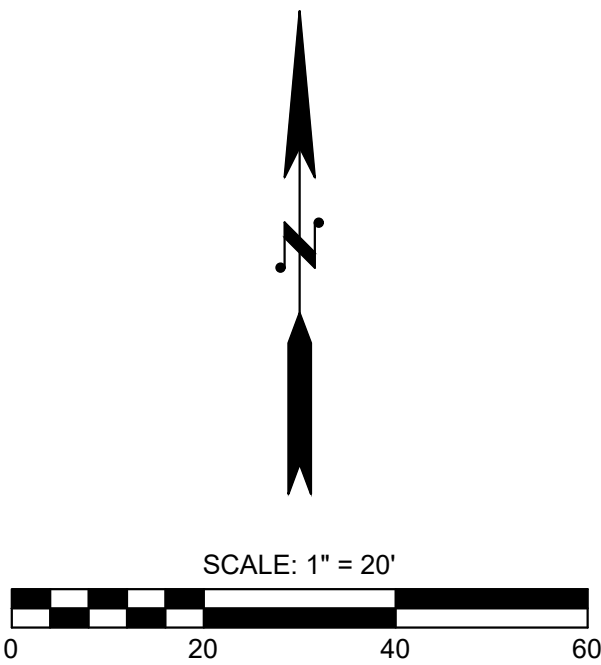
	GRADING/CUT LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	PROPERTY LINE
	TEMPORARY CONSTRUCTION EASEMENT LIMITS
	DEPRESSION AREA
	FILL AREA

TOTAL EXCAVATION VOLUME¹ - 1,609 CY

TOTAL FILL VOLUME¹ - 12 CY

¹ QUANTITIES SHOWN ARE NET VOLUMES, AND DO NOT INCLUDE OVER-EXCAVATION FOR PLACEMENT OF STREAMBED MATERIAL, TOP SOIL, MULCH, DEFORMABLE GRADE CONTROL, LARGE WOODY MATERIAL, OR ANY OTHER ITEMS.

MUCK CREEK			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L1		6.15	N75° 56' 29.44"E
C1	30.00	20.50	N56° 22' 08.12"E
L2		14.05	N36° 47' 46.80"E
C2	35.00	34.01	N64° 38' 12.59"E
L3		18.48	S87° 31' 21.61"E
C3	30.00	17.45	N75° 48' 46.07"E
L4		23.10	N59° 08' 53.75"E
C4	35.00	23.95	N78° 45' 11.65"E
L5		18.07	S81° 38' 30.46"E
C5	40.00	23.18	N81° 45' 19.51"E
L6		24.92	N65° 09' 09.49"E
C6	35.00	33.87	S87° 07' 25.79"E
L7		31.61	S59° 24' 01.06"E
C7	35.00	18.54	S74° 34' 31.17"E
L8		26.43	S89° 45' 01.27"E
C8	30.00	26.01	S64° 54' 40.64"E
L9		18.48	S40° 04' 20.01"E
C9	30.00	19.01	S21° 55' 18.79"E
L10		25.45	S3° 46' 17.58"E
C10	35.00	23.28	S22° 49' 32.81"E
L11		22.32	S41° 52' 48.05"E



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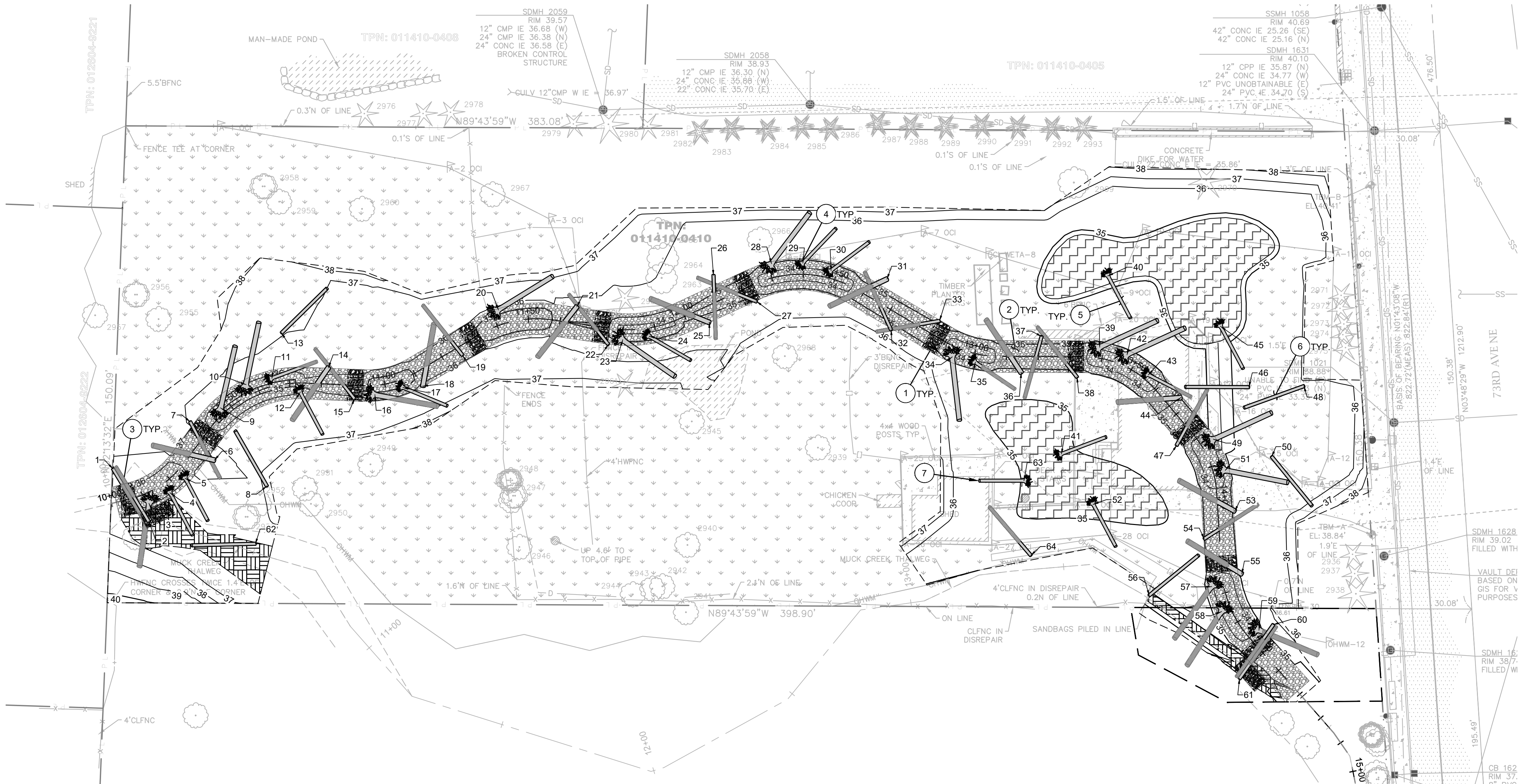


CITY OF KENMORE
DEPARTMENT OF PUBLIC WORKS
18120 68TH AVE NE
KENMORE, WA 98028

MUCK CREEK MITIGATION
18727 73RD AVE NE
GRADING PLAN

JOB# / DWG 10-230113	DATE 04/03/2025
SCALE H: 1"=20' V: N/A	SHEET 6 of 13

FILE NAME: C:\PWL_OSBNR\WORKING\DM52353\IP24_10-180049_STRM.DWG
PLOT TIME: 4/3/2025 4:29 PM
USER NAME: ALEKSANDRA SLATALA



GENERAL NOTES:

1. SEE SHEET 6 AND SHEET 8 FOR PROPOSED GRADING PLAN AND PROFILE.
2. SEE SECTIONS A, B AND C ON SHEET 8 FOR TYPICAL CROSS SECTIONS.
3. ALL DISTURBED AREAS SHALL BE RESTORED PER THE PLANTING PLAN ON SHEET 10.
4. LOCATIONS AND ORIENTATIONS OF LOG PIECES AS SHOWN ON THIS SHEET ARE APPROXIMATE. LOG INSTALLATION WILL BE DIRECTED IN THE FIELD BY THE ENGINEER. SEE SPECIAL PROVISIONS SECTION 8-34.

KEY NOTES:

- 1 DEFORMABLE GRADE CONTROL, SEE DETAIL 4 ON SHEET 9.
- 2 STREAMBED SEDIMENT, PLACE PER SECTION A ON SHEET 8.
- 3 CHANNEL SPANNING LOG POLE, PLACE PER DETAIL 1 ON SHEET 9.
- 4 BANK BURIED ROOTWAD LOG, PLACE PER DETAIL 2 ON SHEET 9.
- 5 ROOTWAD LOG PLACED IN FLOODPLAIN POND, PLACE PER DETAIL 3 ON SHEET 9.
- 6 FLOODPLAIN BURIED LOG POLE, PLACE PER DETAIL 3 ON SHEET 9.
- 7 FLOODPLAIN ROOTWAD LOG, PLACE PER DETAIL 1 ON SHEET 9.

LEGEND

- STREAMBED SEDIMENT
- DEPRESSION AREA
- FILL AREA
- DEFORMABLE GRADE CONTROL
- LARGE WOODY MATERIAL
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT LIMITS

LOG TYPE SCHEDULE

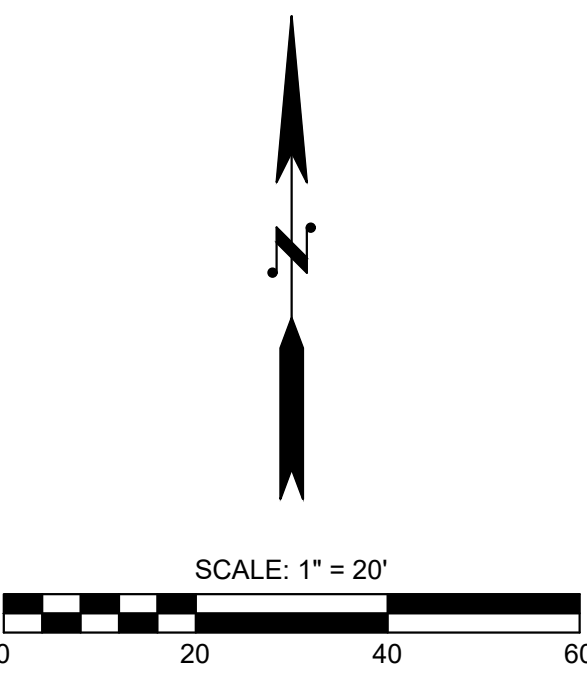
LOG TYPE	NUMBER OF LOGS
TYPE A - 20' LOG WITH ROOTWAD DBH 18"	15
TYPE B - 15' LOG WITH ROOTWAD DBH 12"	15
TYPE C - 20' LOG WITHOUT ROOTWAD DBH 18"	10
TYPE D - 20' LOG WITHOUT ROOTWAD DBH 12"	24
DEFORMABLE GRADE CONTROL SLASH (3-8" DBH 3-5")	26 CY

LARGE WOODY MATERIAL			
POINT #	DESCRIPTION	STATION	OFFSET
1	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	10+03.06	10.5
2	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	10+09.10	8.5
3	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	10+10.89	3.3
4	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	10+17.55	3.7
5	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	10+23.45	3.4
6	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	10+33.21	7.1
7	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	10+38.29	6.2
8	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	10+36.56	25.2
9	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	10+47.21	1.8
10	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	10+57.19	3.4
11	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	10+64.97	2.5
12	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	10+73.33	2.9
13	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	10+69.26	16.1
14	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	10+81.98	5.2
15	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	10+90.61	4.3
16	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	10+96.62	3.0

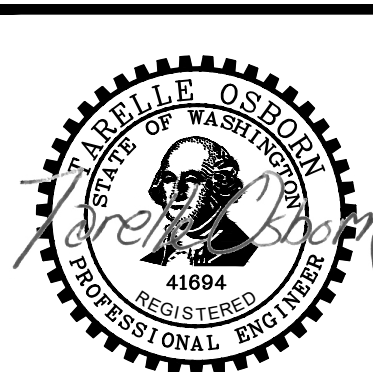
LARGE WOODY MATERIAL			
POINT #	DESCRIPTION	STATION	OFFSET
17	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	11+05.01	2.6
18	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	11+10.20	4.8
19	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	11+25.80	2.8
20	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	11+41.83	4.7
21	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	11+64.59	5.2
22	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	11+76.06	5.1
23	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	11+80.02	3.3
24	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	11+87.89	2.7
25	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	12+06.27	5.0
26	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	12+13.68	8.0
27	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	12+22.52	5.2
28	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	12+30.93	4.5
29	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	12+39.78	3.6
30	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	12+48.17	2.4
31	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	12+64.14	7.7
32	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	12+73.39	5.4

LARGE WOODY MATERIAL			
POINT #	DESCRIPTION	STATION	OFFSET
33	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	12+85.04	4.9
34	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	12+93.83	3.3
35	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	13+00.73	2.7
36	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	13+14.67	5.1
37	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	13+21.02	6.3
38	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	13+32.21	6.4
39	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	13+38.80	3.4
40	15' LOG WITH ROOTWAD DBH 12", DETAIL 3	13+38.34	26.0
41	15' LOG WITH ROOTWAD DBH 12", DETAIL 3	13+27.42	30.6
42	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	13+46.83	3.6
43	15' LOG WITH ROOTWAD DBH 12", DETAIL 2	13+55.18	1.8
44	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	13+66.93	4.5
45	15' LOG WITH ROOTWAD DBH 12", DETAIL 3	13+59.08	28.5
46	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	13+78.16	23.0
47	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	13+77.55	6.2
48	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	13+83.40	37.2

LARGE WOODY MATERIAL			
POINT #	DESCRIPTION	STATION	OFFSET
49	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	13+83.02	4.3
50	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	13+91.90	19.0
51	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	13+92.22	3.8
52	15' LOG WITH ROOTWAD DBH 12", DETAIL 3	13+74.90	38.2
53	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	14+04.55	5.3
54	20' LOG WITHOUT ROOTWAD DBH 18", DETAIL 1	14+12.63	4.8
55	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	14+24.70	6.2
56	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	14+26.83	23.6
57	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	14+27.34	3.8
58	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	14+35.04	3.1
59	20' LOG WITH ROOTWAD DBH 18", DETAIL 2	14+46.43	3.9
60	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	14+48.18	8.4
61	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 1	14+53.72	10.8
62	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	10+23.44	33.5
63	15' LOG WITH ROOTWAD DBH 12", DETAIL 3	13+15.68	39.0
64	20' LOG WITHOUT ROOTWAD DBH 12", DETAIL 3	14+14.22	59.6



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NO.	DATE	REVISION	BY



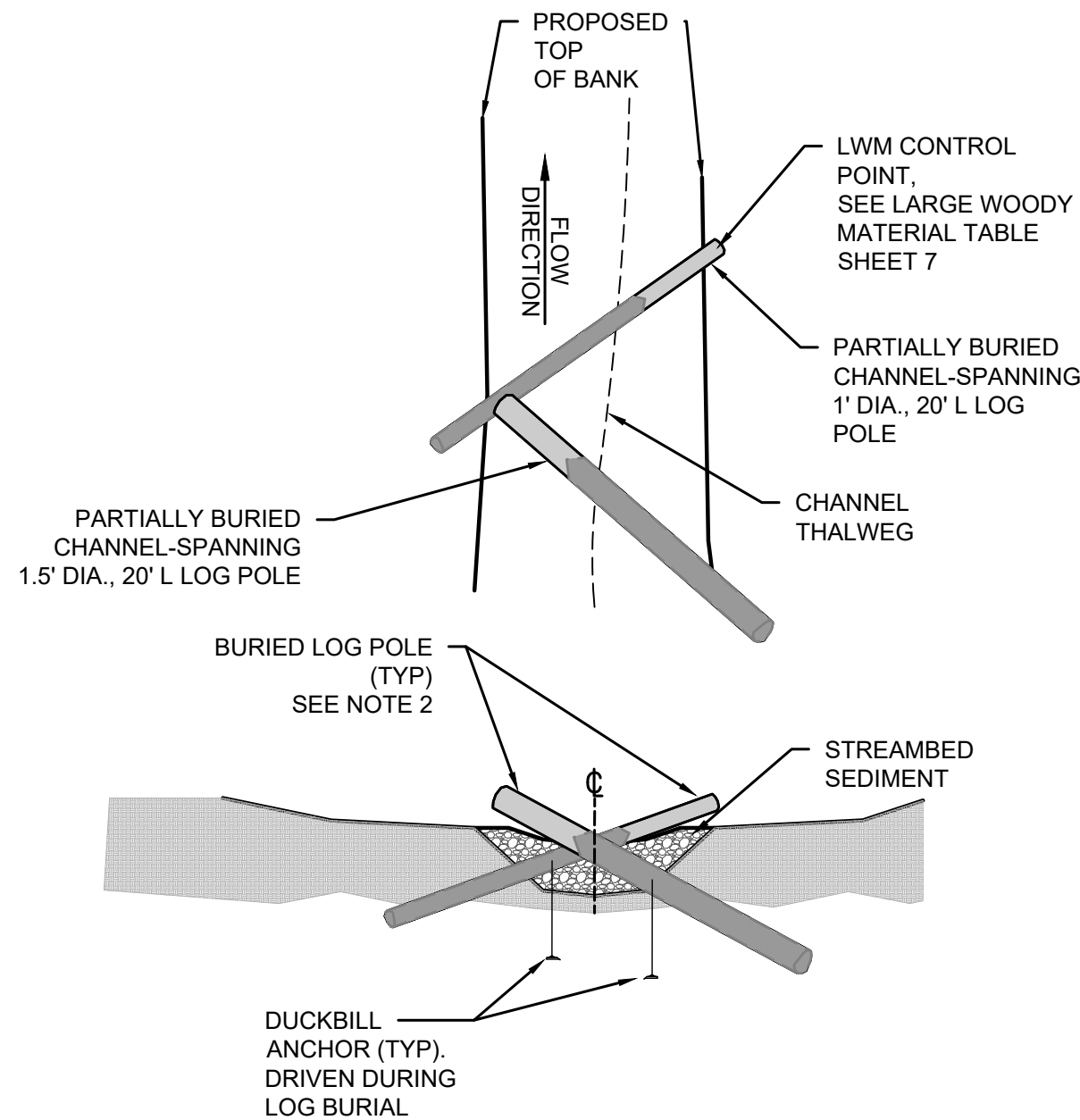
CITY OF KENMORE
DEPARTMENT OF PUBLIC WORKS
18120 68TH AVE NE
KENMORE, WA 98028

MUCK CREEK MITIGATION
18727 73RD AVE NE
STREAM PLAN

JOB# / DWG	DATE
10-230113	04/03/2025
SCALE	SHEET
H: 1"=20' V: N/A	7 of 13

FILE NAME: C:\PW_OSBORN\WORKING\DM52353\IP24_10-180049_STRM_DET.L.DWG
PLOT TIME: 4/3/2025 4:29 PM
USER NAME: ALEXANDRA SLATALA

PLAN



TYPICAL RIFFLE SECTION



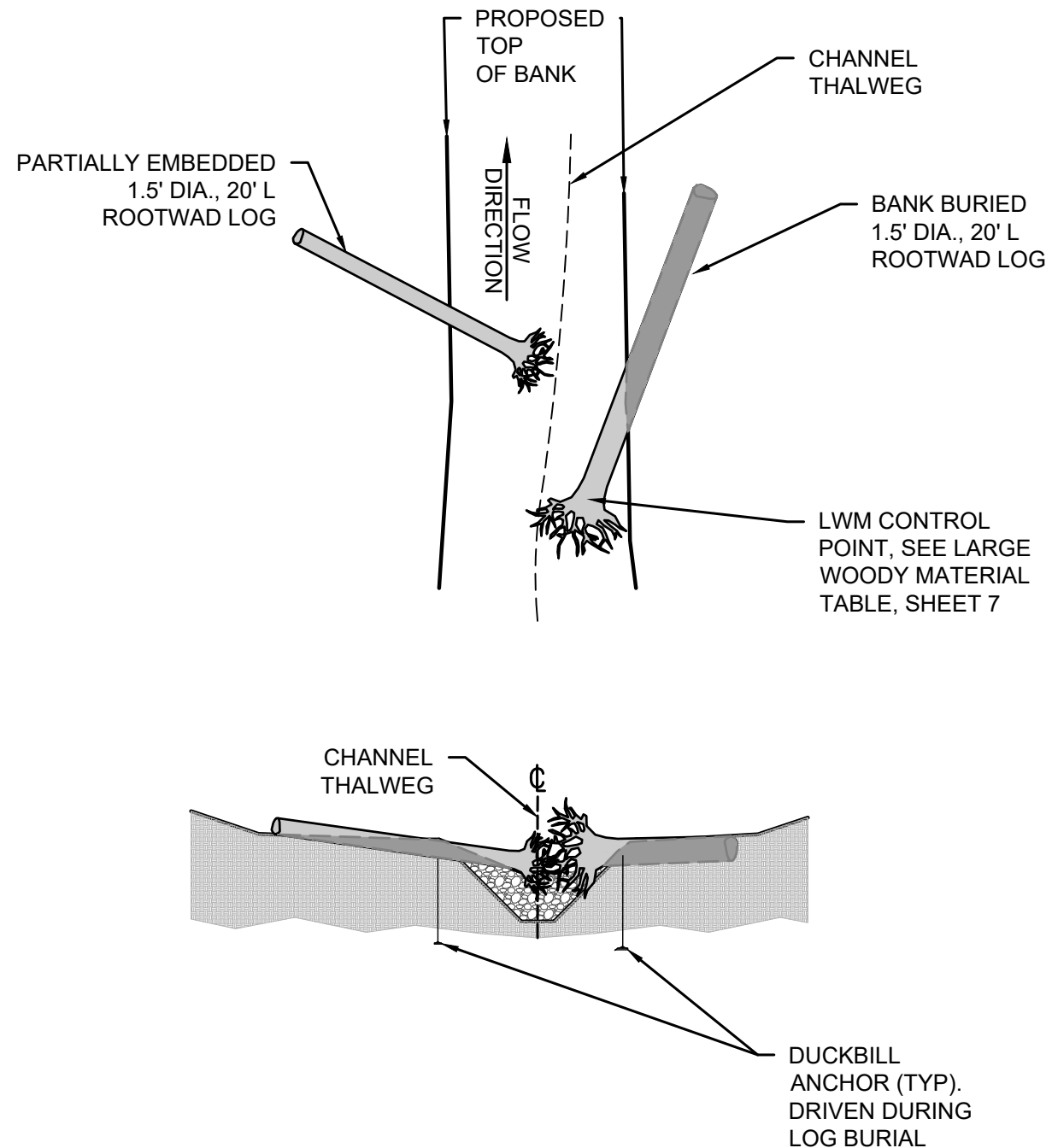
NOTES:

1. DETAIL APPLIES TO INSTALLATION ON EITHER BANK. DETAIL IS TYPICAL FOR RIFFLE SECTIONS BUT NOT IDENTICAL FOR EVERY RIFFLE. REFER TO SHEET 7 FOR LOCATION, APPROXIMATE BURIED LENGTH, AND ORIENTATION OF ALL LOGS. ALL LOGS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
2. BURY LOG POLES IN BANK AT A -15° OR GREATER ANGLE FROM HORIZONTAL AS DIRECTED BY THE ENGINEER. LOG POLE SHALL EXTEND INTO THE CHANNEL $\frac{1}{3}$ TO $\frac{1}{2}$ OF THE CHANNEL WIDTH AS FIELD DIRECTED BY THE ENGINEER.

LARGE WOODY MATERIAL GENERAL NOTES:

1. SEE SHEET 7 FOR APPROXIMATE LOG ORIENTATION. LOG INSTALLATION SHALL BE VERIFIED BY THE ENGINEER.
2. LOG AND GRADE CONTROL LOCATIONS MAY BE ADJUSTED BY THE ENGINEER. PROVIDE NOTICE TO ENGINEER AT LEAST 3 DAYS PRIOR TO LOG AND GRADE CONTROL INSTALLATION.
3. DUCKBILL ANCHORS ARE TO BE INSTALLED FOR LWM PIECES. SEE SPECIAL PROVISIONS 8-34 FOR ANCHORING REQUIREMENTS
4. EXISTING TREES THAT ARE REMOVED SHALL BE STOCKPILED AND INCORPORATED INTO THE LOG STRUCTURES AS FIELD DIRECTED BY THE ENGINEER.
5. ALL LWM DETAIL SECTIONS ON THIS SHEET ARE LOOKING DOWNSTREAM.

PLAN



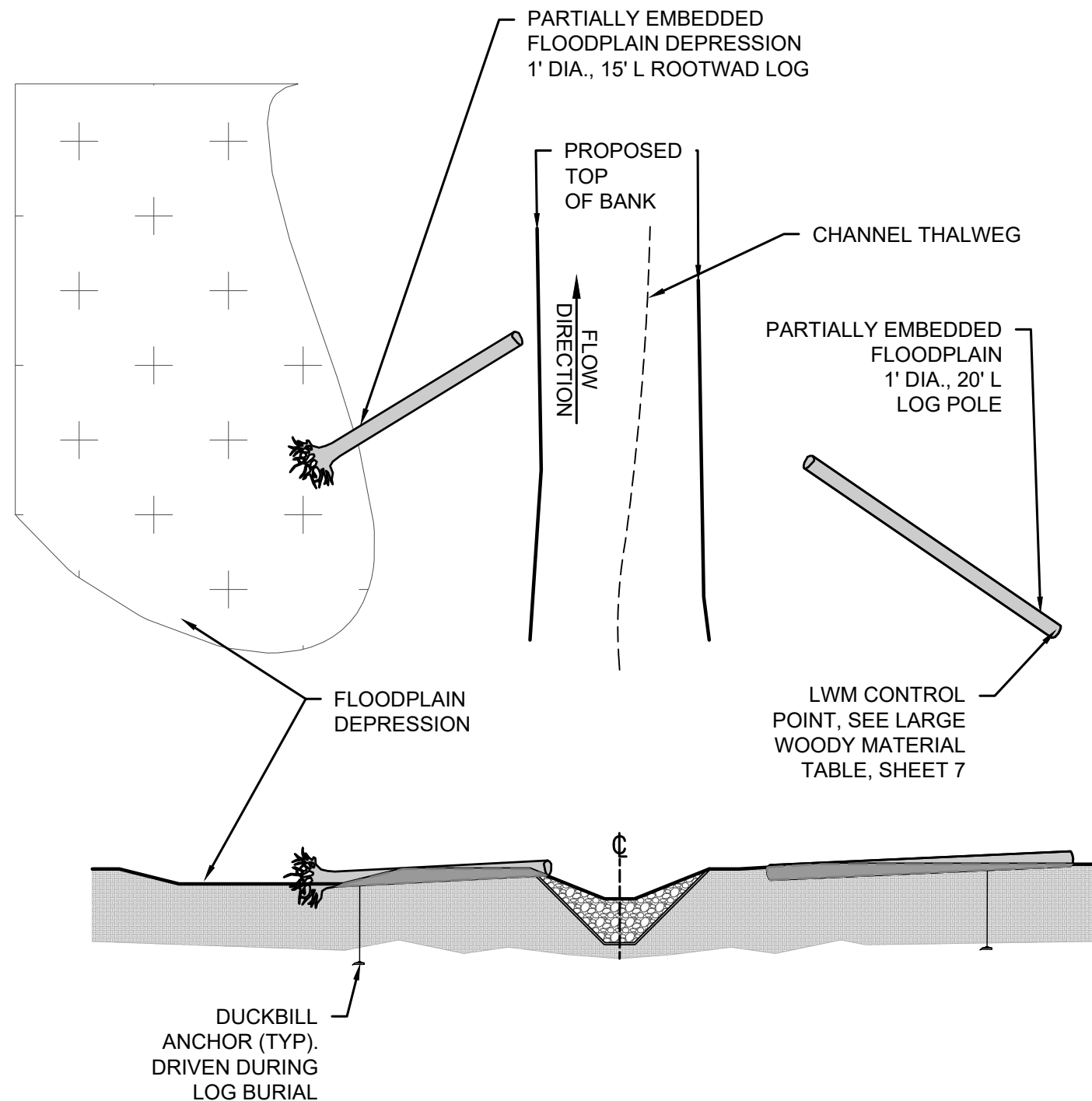
TYPICAL POOL SECTION



NOTES:

1. DETAIL APPLIES TO INSTALLATION ON EITHER BANK. DETAIL IS TYPICAL FOR POOL SECTIONS BUT NOT IDENTICAL FOR EVERY POOL. REFER TO SHEET 7 FOR LOCATION, APPROXIMATE BURIED LENGTH, AND ORIENTATION OF ALL LOGS. ALL LOGS SHALL BE INSTALLED AS FIELD DIRECTED BY THE ENGINEER.

PLAN



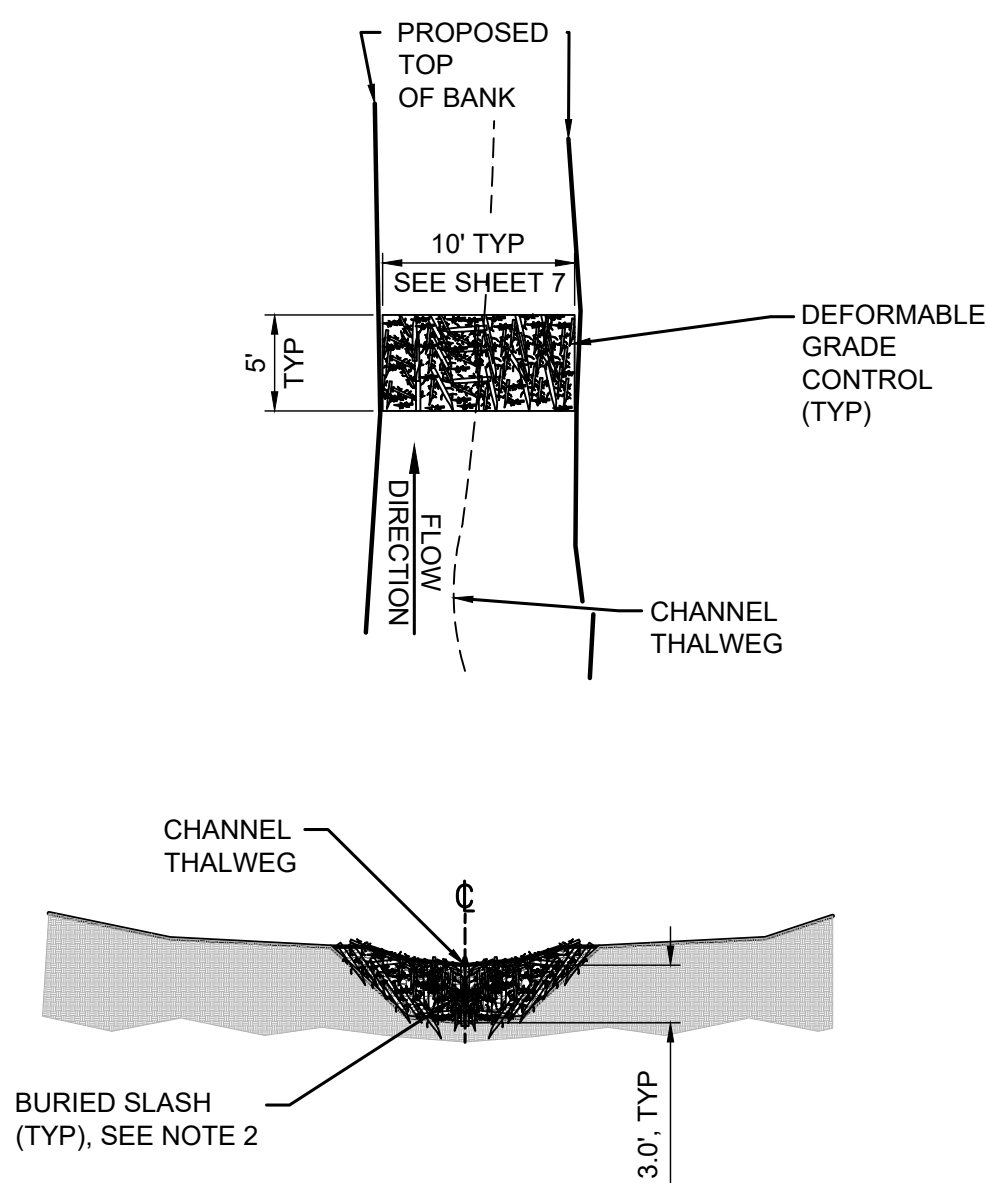
FLOODPLAIN



NOTES:

1. DETAIL APPLIES TO INSTALLATION ON EITHER BANK. DETAIL IS TYPICAL FOR FLOODPLAIN SECTIONS BUT NOT IDENTICAL FOR EVERY FLOODPLAIN. REFER TO SHEET 7 FOR LOCATION, APPROXIMATE BURIED LENGTH, AND ORIENTATION OF ALL LOGS. ALL LOGS SHALL BE INSTALLED AS FIELD DIRECTED IN THE FIELD BY THE ENGINEER

PLAN



DEFORMABLE GRADE CONTROL DETAIL



NOTES:

1. REFER TO SHEET FOR LOCATION AND ORIENTATION OF ALL DEFORMABLE GRADE CONTROLS.
2. SLASH SHOULD BE SLIGHTLY EXPOSED ABOVE FINISHED GRADE.
3. STREAMBED SEDIMENT, SHALL BE LAYERED OVER WOODY DEBRIS TO MAINTAIN COHESIVE MATRIX IN THE DEFORMABLE GRADE CONTROL. WOODY DEBRIS SHALL RANGE IN LENGTH (3FT-8FT) AND DBH (3IN-5IN). SLASH SHALL MAKE UP APPROXIMATELY 75% OF THE DEFORMABLE GRADE CONTROL BY VOLUME.

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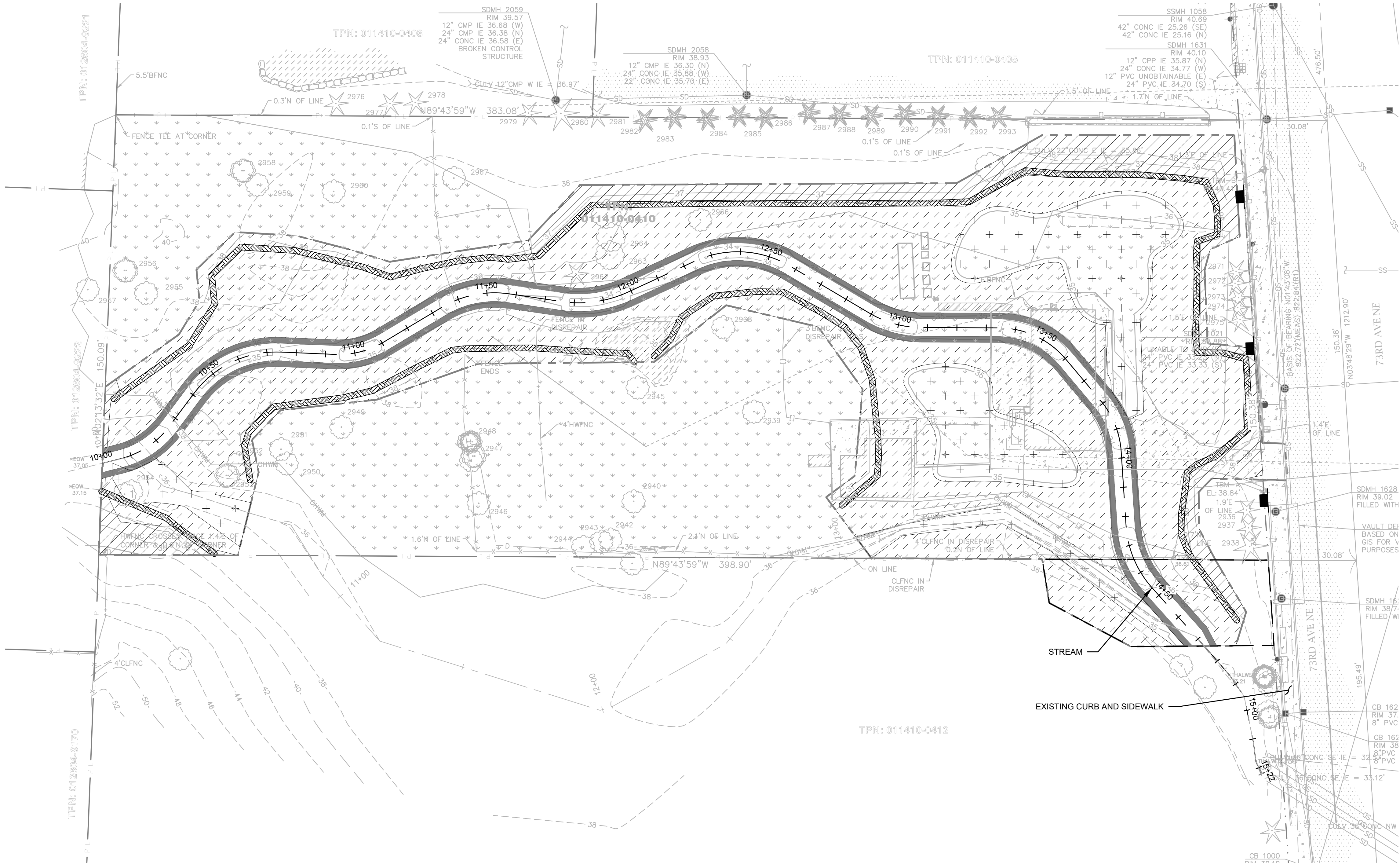
CITY OF KENMORE
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MUCK CREEK MITIGATION
18727 73RD AVE NE
STREAM DETAILS

JOB# / DWG 10-230113	DATE 04/03/2025
SCALE H: N/A V: N/A	SHEET 9 of 13



FILE NAME: C:\PW_OSBORN\WORKING\DM52353\24_10-180049_LAUD.DWG
PLOT TIME: 4/3/2025 4:30 PM
USER NAME: ALEXANDRA SLATALA

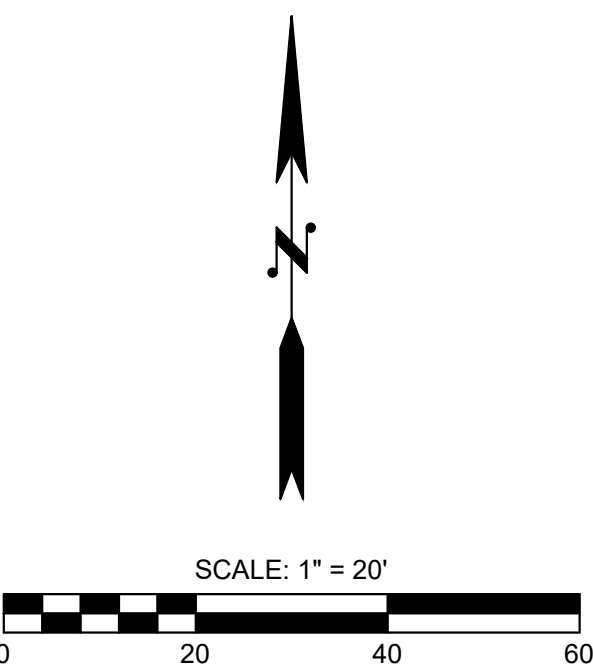


PLANTING PLAN NOTES:

1. FOR SOIL PREPARATION AND PLANTING NOTES, SEE SHEET 11.
2. FOR PLANT SCHEDULE, SEE SHEET 11.
3. FOR SOIL PREPARATION AND PLANTING DETAILS, SEE SHEETS 12 AND 13.
4. FOR GRADING PLAN, SEE SHEET 6.
5. SEE SHEETS 4 AND 5 FOR PROTECTION OF EXISTING TREES TO REMAIN.

LEGEND:

- PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- CLEARING LIMITS
- WETLAND AND RIPARIAN BUFFER PLANTING
- WETLAND PLANTING
- RIPARIAN UPLAND PLANTING
- STREAMSIDE PLANTING
- COMPOST SOCK
SEE DETAIL 1 ON SHEET 12
- CRITICAL AREA SIGN
SEE DETAIL 2 ON SHEET 12



Know what's below.
Call before you dig.



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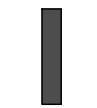


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MUCK CREEK MITIGATION
18727 73RD AVE NE
PLANTING PLAN

JOB# / DWG 10-230113	DATE 04/03/2025
SCALE H: 1"=20' V: N/A	SHEET 10 of 13

FILE NAME: C:\PW\OSBORN\WORKING\DM32353\P24_10-180049_LAUD-SCHED.DWG
PLOT TIME: 4/3/2025 4:55 PM
USER NAME: DOUGLAS EHLEBRACHT

PLANTING GROUP	LAYER	SCIENTIFIC NAME	COMMON NAME	WETLAND INDICATOR	CONTAINER TYPE	PLANTING GROUP AREA	DISTRIBUTION RATE	QTY	SPACING	NOTES
						(SF)	(%)	Ea.	(INCHES/ FT)	
Riparian Upland 	TREE	<i>Pseudotsuga mezesii</i>	Douglas Fir	FACU	#2 CONT.	3,832	12	4	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Picea Sitchensis</i>	Sitka Spruce	FAC	#2 CONT.		3	1	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Tsuga heterophylla</i>	Western Hemlock	FACU	#2 CONT.		5	1	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Acer circinatum</i>	Vine Maple	FACU	#2 CONT.		10	3	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Corylus cornuta</i>	Beaked hazelnut	FACU	#1 CONT.		10	18	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Sambucus racemosa</i>	Red elderberry	FACU	#1 CONT.		10	18	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Symphoricarpos albus</i>	Snowberry	FACU	#1 CONT.		20	39	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	GROUNDCOVER	<i>Polystichum munitum</i>	Western Sword Fern	FACU	#1 CONT.		30	68	48" O.C.	PLANT SPECIES IN GROUPS OF 5-7
	SEED MIX #1, SEE TABLE									
Wetland and Riparian Buffer 	TREE	<i>Thuja plicata</i>	Western Red Cedar	FAC	#2 CONT.	20,241	17	51	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Populus Balsamifera</i>	Black Cottonwood	FAC	#2 CONT.		3	8	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Prunus emarginata</i>	Bitter Cherry	FACU	#2 CONT.		3	8	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	TREE	<i>Alnus Rubra</i>	Red Alder	FAC	#2 CONT.		2	3	8' O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Rosa pisocarpa</i>	Swamp Rose	FAC	#1 CONT.		20	261	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Physocarpus capitatus</i>	Pacific Ninebark	FACW	#1 CONT.		10	126	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Rhamnus purshiana</i>	Cascara	FAC	#1 CONT.		10	127	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	GROUNDCOVER	<i>Athyrium filix-femina</i>	Lady Fern	FAC	#1 CONT.		15	188	48" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	GROUNDCOVER	<i>Juncus effusus</i>	Soft Rush	FACW	Plug		20	1,098	24" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SEED MIX #1, SEE TABLE									
Wetland Planting 	SHRUB	<i>Cornus stolonifera</i>	Red-osier dogwood	FACW	Livestake	5,230	20	114	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Salix lasisandra</i>	Pacific willow	FACW	Livestake		5	27	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Rubus spectabilis</i>	Salmonberry	FAC	Livestake		10	52	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	GROUNDCOVER	<i>Scirpus microcarpus</i>	Small Flowered Bulrush	OBL	Plug		15	216	24" O.C.	PLANT SPECIES IN GROUPS OF 5-7
	GROUNDCOVER	<i>Eleocharis palustris</i>	Creeping Spikerush	OBL	Plug		15	216	24" O.C.	PLANT SPECIES IN GROUPS OF 5-7
	GROUNDCOVER	<i>Carex obnupta</i>	Slough Sedge	OBL	Plug		20	279	24" O.C.	PLANT SPECIES IN GROUPS OF 5-7
	GROUNDCOVER	<i>Lysichiton americanus</i>	Skunk Cabbage	OBL	Plug		15	216	24" O.C.	PLANT SPECIES IN GROUPS OF 5-7
	SEED MIX #2, SEE TABLE									
Streamside Planting 	SHRUB	<i>Salix hookeriana</i>	Hooker's willow	FACW	Livestake	1,891	30	74	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Cornus stolonifera</i>	Red-osier dogwood	FACW	Livestake		35	86	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SHRUB	<i>Salix sitchensis</i>	Sitka willow	FAC	Livestake		35	86	36" O.C.	PLANT SPECIES IN GROUPS OF 3-5
	SEED MIX #2, SEE TABLE									

WETLAND INDICATOR ABBREVIATIONS:
FAC = FACULTATIVE PLANT
FACU = FACULTATIVE UPLAND PLANT
FACW = FACULTATIVE WETLAND PLANT

SEEDING GROUP	SCIENTIFIC NAME	COMMON NAME	DISTRIBUTION RATE	SEEDING RATE	PLANTING AREA
			(%)		
SEED MIX #1	<i>Deschampsia cespitosa</i>	Tufted hairgrass	35	60	28,763
	<i>Agrostis exarata</i>	Spike Bentgrass	30		
	<i>Anaphalis margaritacea</i>	Pearly Everlasting	5		
	<i>Carex pachystachya</i>	Chamisso Sedge	30		
SEED MIX #2	<i>Eleocharis palustris</i>	Creeping spike-rush	30	60	5,882
	<i>Carex obnupta</i>	Slough Sedge	35		
	<i>Sagittaria latifolia</i>	Wapato	10		
	<i>Scirpus microcarpus</i>	Small Fruited Bulrush	25		

FOR PERMITTING PURPOSES ONLY, REFER TO PLANT SCHEDULE FOR REQUIRED NUMBER OF TREES

TREES UNITS REQUIRED	1.3 ACRES = 40 TREE UNITS
TREE UNITS REMAINING ON SITE	28.7
TREE UNITS NEEDED	11.3
#2 SIZE CONIFERS @.2 TREE UNITS EA.	57 TREES = 11.4 TREE UNITS
#2 DECIDUOUS @.1 TREE UNITS EA.	22 TREES = 2.2 TREE UNITS
TOTAL TREE UNITS PROVIDED	13.6 TREE UNITS

SOIL PREPARATION AND PLANTING NOTES:

- PRE-CONSTRUCTION MEETING REQUIRED PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS TO REVIEW CONDITIONS AND IDENTIFY COORDINATION REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARITY WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES. VERIFY ALL UTILITY LOCATIONS, PADS, AND APPURTENANCES PRIOR TO PLANTING ACTIVITY. DO NOT BLOCK ACCESS TO UTILITY STRUCTURES. IDENTIFY DISCREPANCIES IMMEDIATELY TO CITY OF KENMORE.
- ESTABLISH SUB-GRADE ELEVATIONS THAT WILL ACCOMMODATE FULL PLANTING SOIL DEPTHS SHOWN IN SPECIFICATIONS. ACCOMMODATE DEPTHS TO ALLOW FOR COMPOST ADDED FOR SUBGRADE PREPARATION AND SUBGRADE OPERATIONS.
- SUB-GRADE PREPARATION FOR ALL PLANTING AND SEEDED AREAS SHALL BE AS FOLLOWS:
A. RIP SUB-GRADE TO A DEPTH OF 12" AND INSTALL TOPSOIL TYPE B PER THE SPECIFICATIONS.
B. REMOVE COBBLES, CONCRETE, ASPHALT AND OTHER DEBRIS OVER 1" IN DIA.
C. TILL IN 6 INCHES OF ORGANIC COMPOST INTO THE SUB-GRADE TO A DEPTH OF TWELVE (12) INCHES. TILLING THE COMPOST INTO THE SOIL SHALL BE ACCOMPLISHED BY TILLING IT TWICE, THE SECOND TIME PERPENDICULAR TO THE FIRST.
- ALL PLANT MATERIAL TO MEET CONDITION REQUIREMENTS ESTABLISHED IN WSDOT SPEC SECTION 8-02.3(6)A. ALL PLANTS SHALL BE PLANTED DURING THE PLANTING WINDOW FOR WESTERN WASHINGTON, OCTOBER 1 THROUGH MARCH 1 FOR NON-IRRIGATED PLANTS.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN (NOT FIELD COLLECTED), CONTAINERIZED OR CUTTINGS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS, FREE OF DEFECTS, DISEASE, AND ALL FORMS OF INFESTATION. MEASUREMENTS, CALIPER, BRANCHING, GRADING QUALITY, BALLING AND BURLAPPING PLANT MATERIAL SHALL CONFORM TO MINIMUM STANDARDS OF ANSI Z60.1, LATEST EDITION.
- ALL CONTAINER GROWN NURSERY STOCK SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED, AND ESTABLISHED IN THE CONTAINER IN WHICH IT IS GROWING. CONTAINER GROWN NURSERY STOCK SHALL HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL WHEN THE CONTAINER IS REMOVED, BUT SHALL NOT HAVE EXCESSIVE ROOT GROWTH ENIRCILING THE INSIDE OF THE CONTAINER.
- PRIOR TO INSTALLATION, ALL PLANT MATERIAL PROPOSED FOR USE ON THE PROJECT SHALL BE APPROVED BY THE ENGINEER AT THE TIME OF DELIVERY TO THE SITE FOR CONFORMANCE WITH THE REQUIREMENTS OF THE PLANT SCHEDULE, PLANT SPECIFICATIONS, AND STORAGE AND HANDLING REQUIREMENTS. CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO WEEKS NOTICE PRIOR TO DELIVERY TO THE ENGINEER.
- LAYOUT OF PLANTING AREAS AND PLACEMENT OF TREES, SHRUBS, GROUNDCOVERS, SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.TREES SHALL BE PLACED FIRST, THEN SHRUBS, AND THEN GROUNDCOVERS. TREES SHALL BE STAKED PER DETAILS WITHIN 24 HOURS OF INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
- DURING INSTALLATION NOTIFY THE CITY OF KENMORE OF ANY CONDITIONS THAT MAY BE HARMFUL TO PLANT LIFE SUCH AS; POOR DRAINAGE, HAZARDOUS MATERIALS, ETC. MAKE RECOMMENDATIONS TO ADDRESS THE SPECIFIC SITUATION IMMEDIATELY TO THE CITY OF KENMORE.
- UPON COMPLETION OF PLANT INSTALLATION, APPLY MEDIUM COMPOST PER WSDOT SPEC 9-14.5(8) AS MULCH TO ALL PLANTING BEDS INCLUDING WETLAND AREAS, AND TREE PITS. TREE AND SHRUB AREAS SHALL RECEIVE THREE (3) INCHES OF MULCH. FINELY GRADE MULCH AWAY FROM TREE TRUNKS AND SHRUB STEMS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNKS OR STEMS. MATCH FINISH SURFACE OF MULCH WITH ADJACENT FINISH GRADES. SEE NOTE BELOW FOR REQUIREMENTS FOR SECOND MULCH APPLICATION.
- FINISH GRADE (TOP OF MULCH) IN PLANTING BEDS AND FINISH GRADE OF TURF SHALL BE 1/2" BELOW TOP OF HEADER, WALL, CURB, OR FINISHED SURFACE OF ADJACENT WALK OR PAVED AREAS.
- ALL AREAS OF BARE SOIL, OR AREAS IMPACTED BY VEHICULAR USE OF ANY KIND, OR STORAGE OF MATERIALS OUTSIDE OF THE CLEARING LIMITS SHALL RECEIVE FULL SUBGRADE PREPARATION, INCLUDING COMPOST AMENDMENTS AND SHALL RE-ESTABLISH FINAL DESIGN CONDITION AND SHALL BE AT CONTRACTOR'S COST.
- THE CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY FOLLOWING INSTALLATION. THE CONTRACTOR SHALL MAINTAIN THE PLANTED AREAS FOR THE LENGTH OF TIME SPECIFIED IN PLANTS SPECIFICATIONS SECTION AFTER ACHIEVING COMPLETION OF PLANTING.
- PLANT ESTABLISHMENT PROCEDURES SHALL INCLUDE WATERING, PROTECTION FROM INSECTS OR DISEASE, WEEDING, PRUNING, MOWING, AND OTHER ACTIVITIES AS MAY BE REQUIRED AND AS IDENTIFIED IN SECTION 8-02.3(13) AND OTHER RELATED SECTIONS. CONTRACTOR SHALL IMMEDIATELY REPLACE ANY PLANT MATERIALS THAT ARE NOT VIGOROUS OR TYPICAL OF SIZE AND SPECIES. TREE STAKES SHALL BE KEPT SECURE AT ALL TIMES. DEFECTIVE MATERIALS AS DETERMINED BY THE ENGINEER SHALL BE REPLACED IMMEDIATELY WITH PLANT MATERIALS OF THE SAME SPECIES AT A SIZE TO MATCH EXISTING ADJACENT MATERIALS.
- UPON COMPLETION OF THE PLANT ESTABLISHMENT PERIOD, APPLY MEDIUM COMPOST PER WSDOT SPEC 9-14.5(8) TO ALL PLANTED AREAS AND REMOVE ALL TREE STAKES 14 DAYS PRIOR TO END OF ONE YEAR WARRANTY PERIOD.
- UPON COMPLETION OF THE WARRANTY PERIOD, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR FINAL INSPECTION TO THE CITY OF KENMORE. AN INSPECTION SHALL BE CONDUCTED WITH THE ENGINEER AND THE CONTRACTOR PRESENT, AND FOLLOWING REPLACEMENT OR REPAIR OF DEFICIENT ITEMS NOTED IN THE INSPECTION. A NOTIFICATION OF ACCEPTANCE OF ALL WORK SHALL BE ISSUED BY THE ENGINEER TO THE CONTRACTOR.

SEEDING NOTES:

- THE GRASS SEED MIX SHALL MEET OR EXCEED THE FOLLOWING:
A) MINUMUM PURE SEED PERCENT: 98 PERCENT
B) MINIMUM GERMINATION PERCENT: 85 PERCENT
C) MAXIMUM WEED SEED PERCENT: 0.5 PERCENT
- HAND BROADCAST SEED TO BE USED SHALL MEET THE REQUIREMENTS OF 9-14.3 OF THE WSDOT STANDARD SPECIFICATIONS. SEED SHALL BE PACKED IN CLEAN, SOUND CONTAINERS OF UNIFORM WEIGHT.



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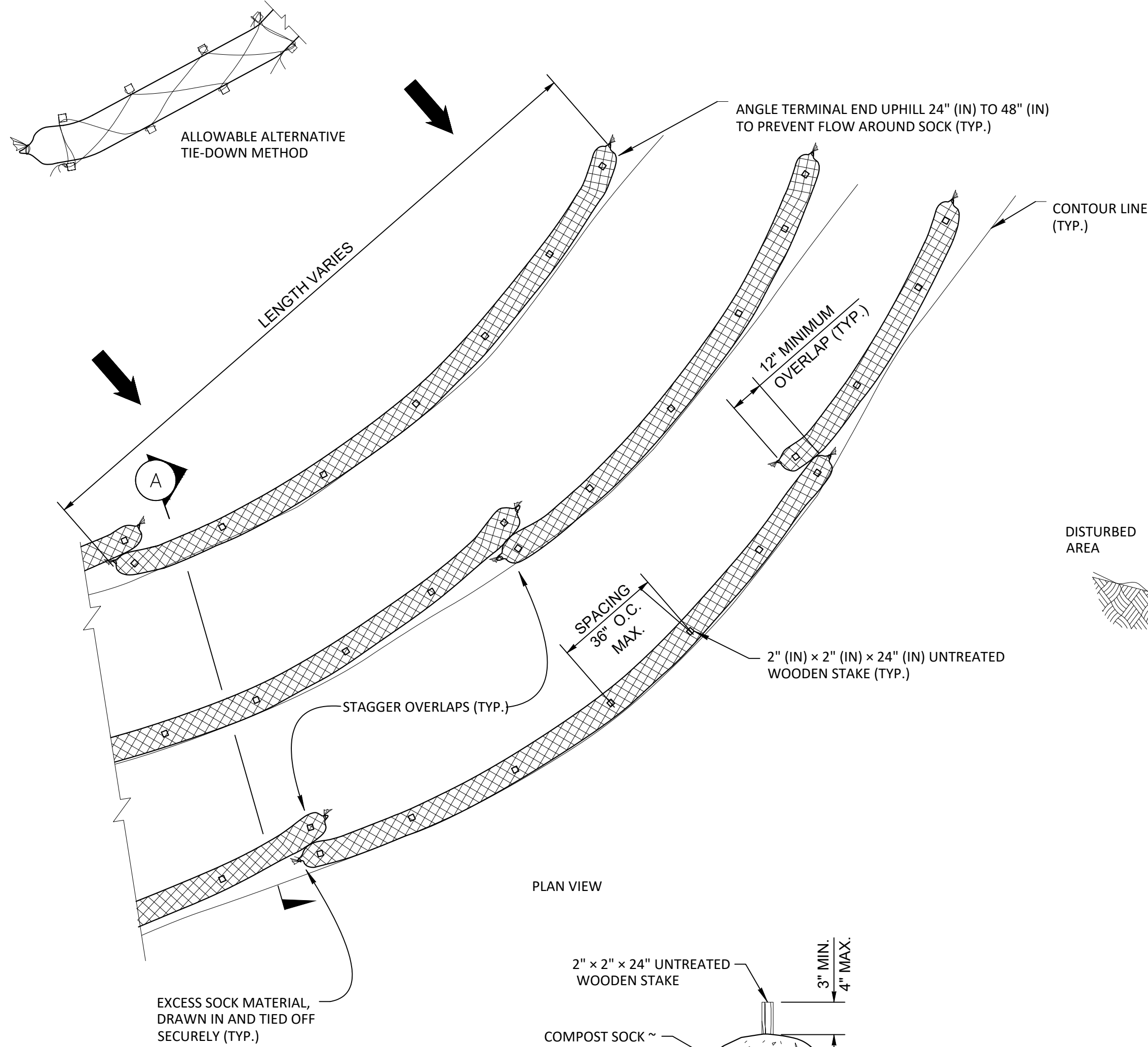


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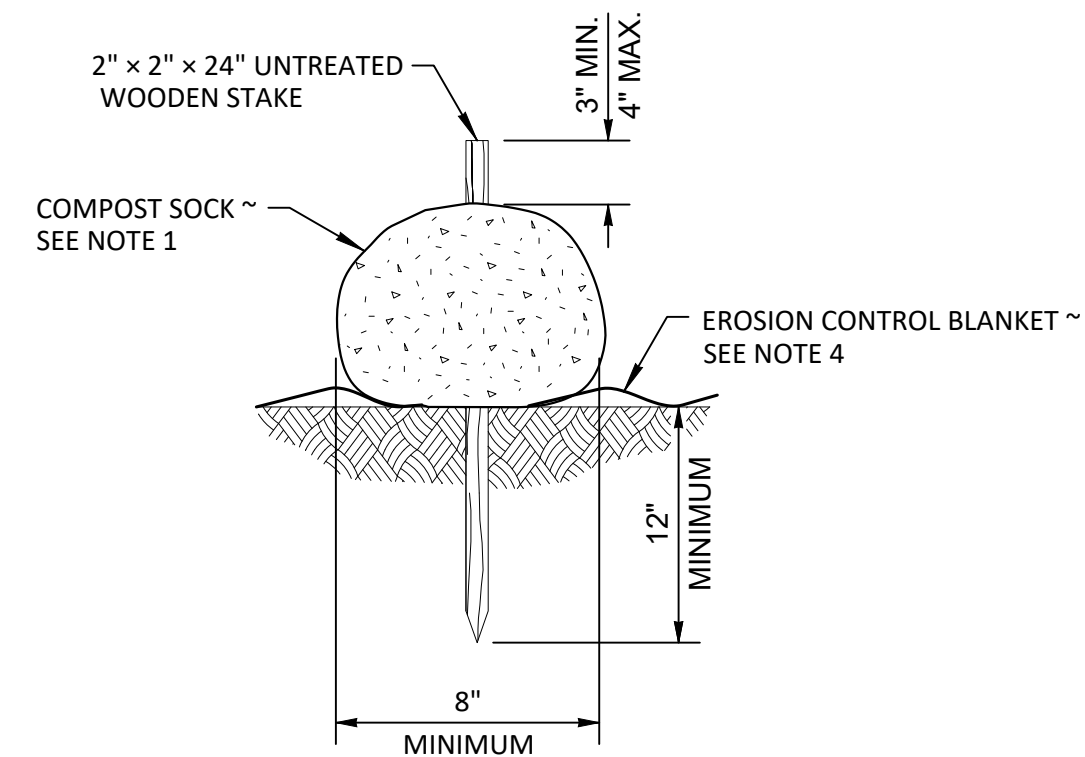
MUCK CREEK MITIGATION
18727 73RD AVE NE
VEGETATION SCHEDULE

JOB# / DWG 10-230113	DATE 04/03/2025
SCALE H: N/A V: N/A	SHEET 11 of 13

FILE NAME: C:\PW\OSBORN\WORKING\MS2353\24_10-180049_LAUD_DET-1.DWG
PLOT TIME: 4/3/2025 4:30 PM
USER NAME: ALEXANDRA SLATALA



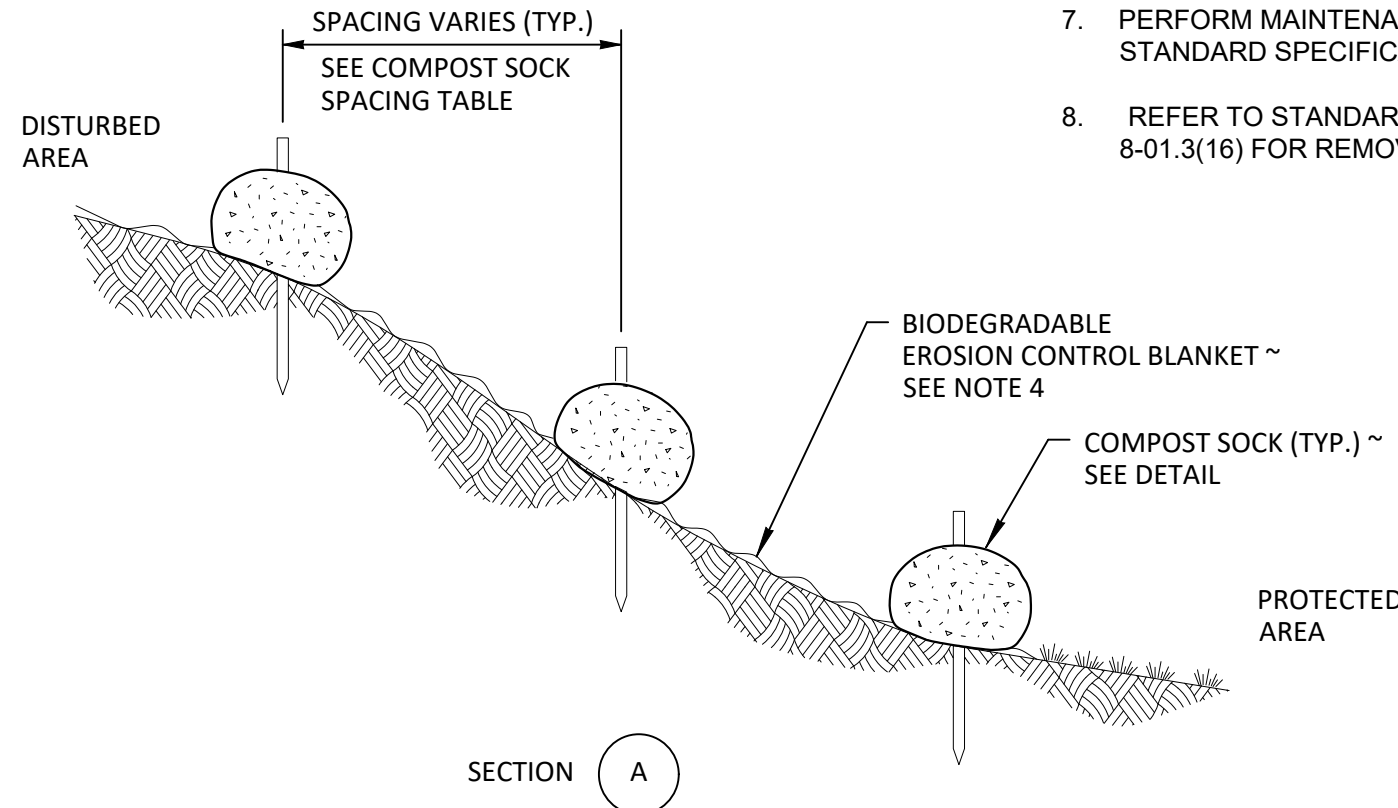
8" DIAMETER MINIMUM COMPOST SOCK SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	5' - 0"
2H : 1V	10' - 0"
3H : 1V	15' - 0"
4H : 1V	20' - 0"



1
10

COMPOST SOCK
N.T.S.

1. COMPOST SOCK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 9-14.6(6).
2. SECURELY KNOT EACH END OF COMPOST SOCK. OVERLAP ADJACENT COMPOST SOCK ENDS 12" BEHIND ONE ANOTHER AND SECURLEY TIE TOGETHER.
3. COMPOST TO BE DISPERSED ON SITE AS DETERMINED BY THE ENGINEER, WHEN VEGETATION COVERS THE SURFACE.
4. IF EROSION CONTROL BLANKET IS SPECIFIED, PLACE COMPOST SOCK ON TOP OF BLANKET. SEE STANDARD PLAN I-60.10-01.
5. INSTALL COMPOST SOCK PERPENDICULAR TO FLOW ALONG CONTOURS.
6. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK WITHOUT COMPROMISING THE INTENDED FUNCTION OF THE COMPOST SOCK PER STANDARD SPECIFICATION, SECTION 8-01.3(12) AS DETERMINED BY THE ENGINEER.
7. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION , SECTION 8-01.3(15).
8. REFER TO STANDARD SPECIFICATION, SECTION 8-01.3(16) FOR REMOVAL.

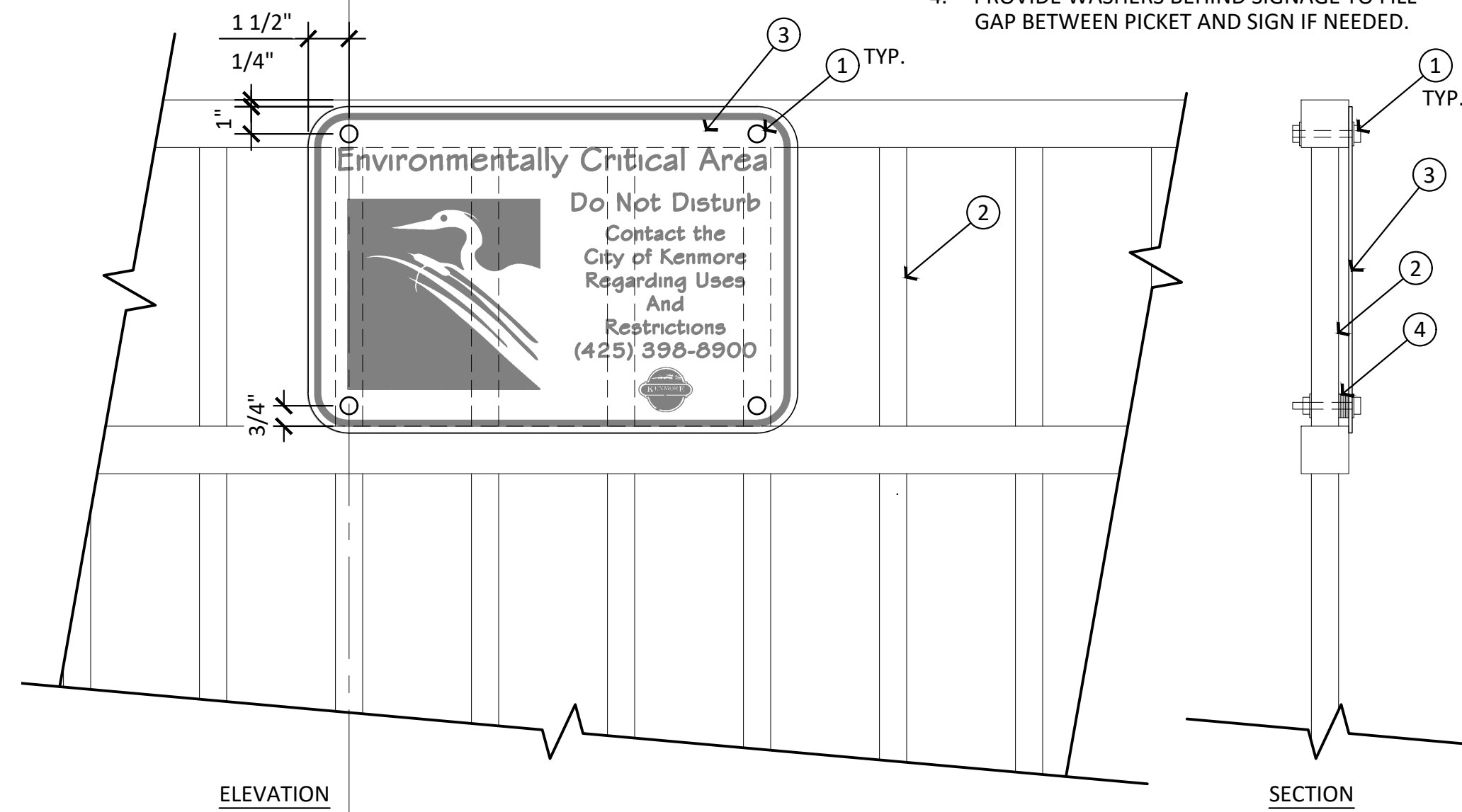


NOTES

- A. SIGNAGE LOCATION WILL BE FIELD VERIFIED BY CITY OF KENMORE STAFF. VERIFY LOCATION PRIOR TO INSTALLATION.
- B. HOLE THROUGH SIGN AND RAIL FOR CARRIAGE BOLT TO BE 3/8" DIAMETER.

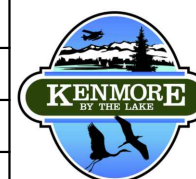
LEGEND

1. 5/16 X 3" HOT DIPPED GALVANIZED CARRIAGE BOLT WITH HEX NUT AND (2) WASHERS. CUT OFF EXCESS LENGTH ADJACENT TO NUT.
2. EXISTING FENCE.
3. 12" X 18" CRITICAL AREA SIGN
4. PROVIDE WASHERS BEHIND SIGNAGE TO FILL GAP BETWEEN PICKET AND SIGN IF NEEDED.

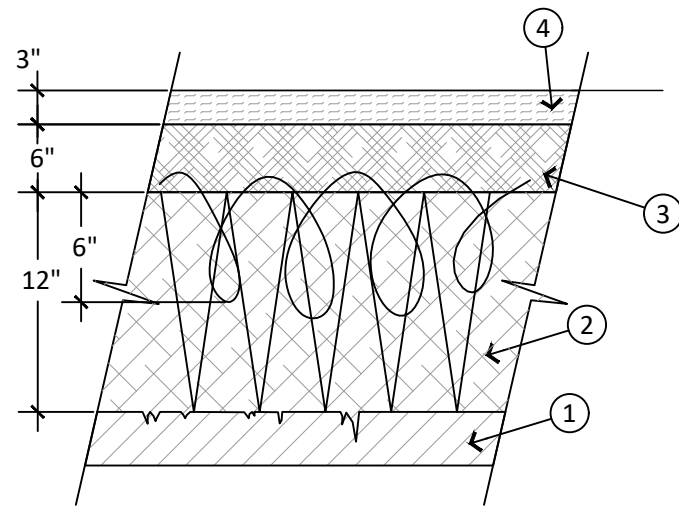


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CRITICAL AREA SIGN MOUNTING ON EXISTING FENCE
N.T.S.



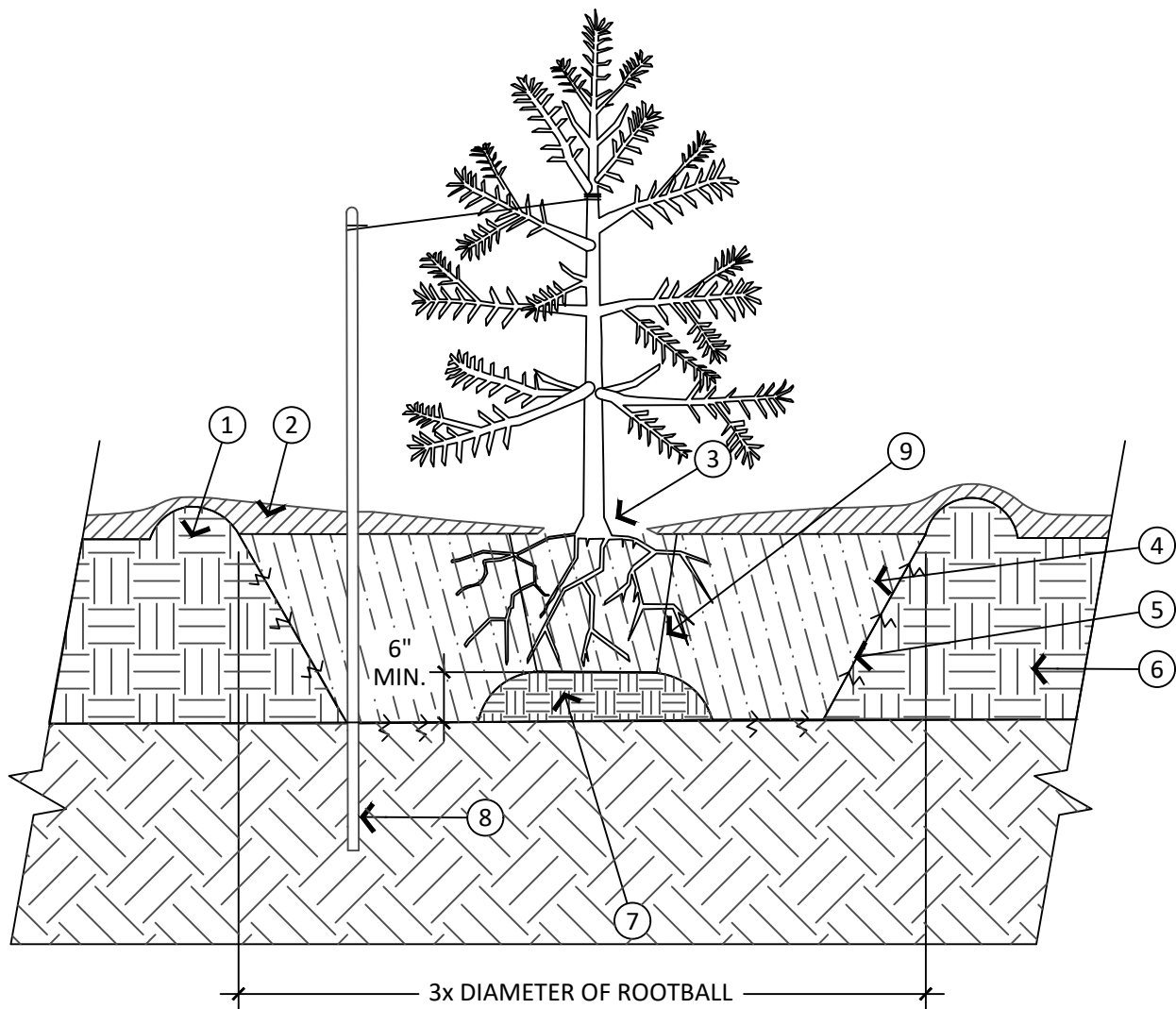
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PLOT TIME: 4/3/2025 4:30 PM
USER NAME: ALEXANDRA SLATALA



1. 12" DEEP RIPPED SUBGRADE IN ALL PLANTING AREAS.
2. 12" TOPSOIL TYPE B, INSTALLED PER SPECIFICATIONS.
3. 6" COMPOST INCORPORATED INTO THE TOP 12" OF SOIL.
4. PLACE 3" DEPTH UNIFORM LAYER OF COMPOST AFTER PLANTING IS COMPLETE.

1 PLANTING AND SEEDING AREA SOIL PREPARATION

N.T.S.

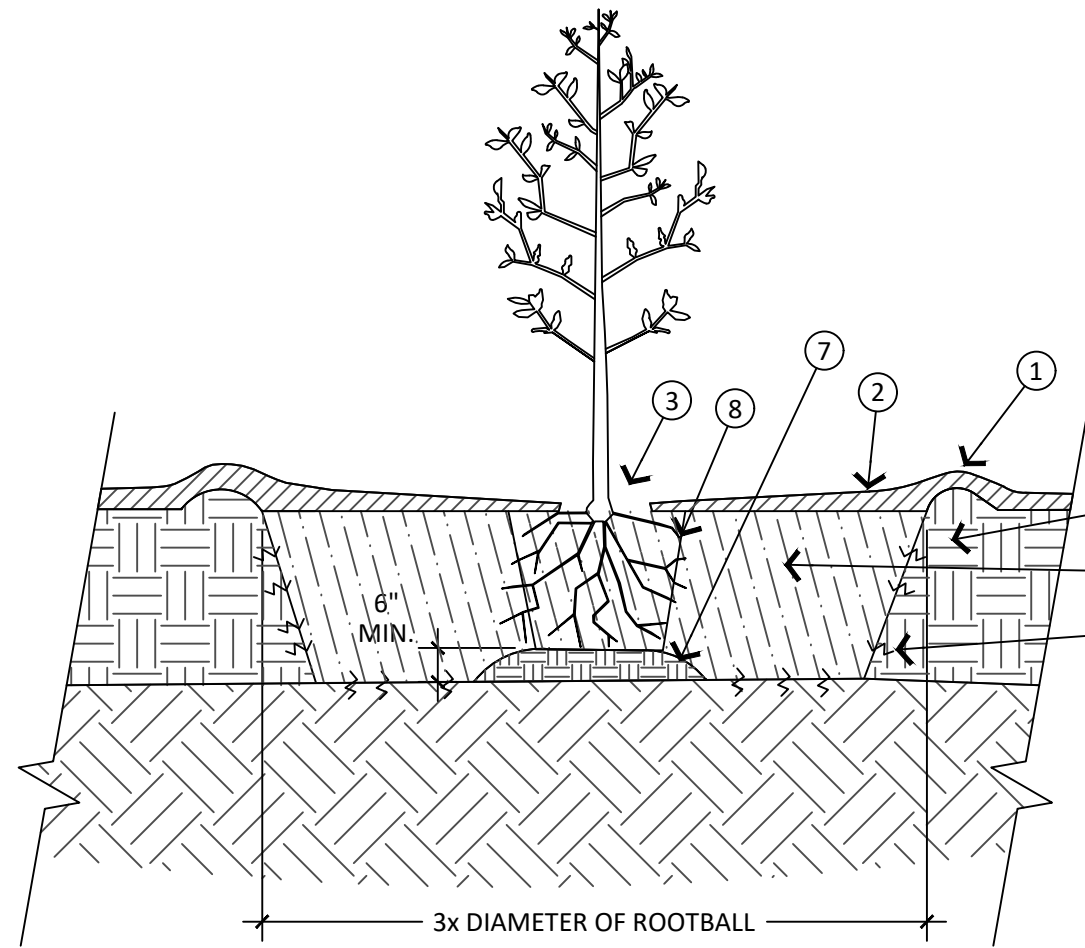


1. 6" BERM
2. 3" MIN. COMPOST LAYER - DO NOT PLACE COMPOST DIRECTLY AGAINST TREE TRUNK. 6" DIA. CIRCLE OF MULCH AROUND TREE.
3. TOP OF ROOTBALL CROWN TO BE SLIGHTLY ABOVE GRADE OF PLANTING SITE.
4. BACKFILL WITH SOIL FROM PIT EXCAVATION. WATER SETTLE SOIL AFTER PLANTING.
5. ROUGHEN SIDES AND BOTTOM OF THE HOLE
6. PREPARED SUBGRADE AND TOPSOIL TYPE B
7. RETAIN UNDISTURBED NATIVE SOIL OR COMPACT PREPARED SUBGRADE FOR FIRM BASE.
8. 36" TALL BAMBOO STAKE.
9. COMPLETELY REMOVE CONTAINER BEFORE PLANTING.

NOTES:
A. DO NOT PLANT IN WET CONDITIONS. PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.

2 CONIFEROUS TREE PLANTING

N.T.S.

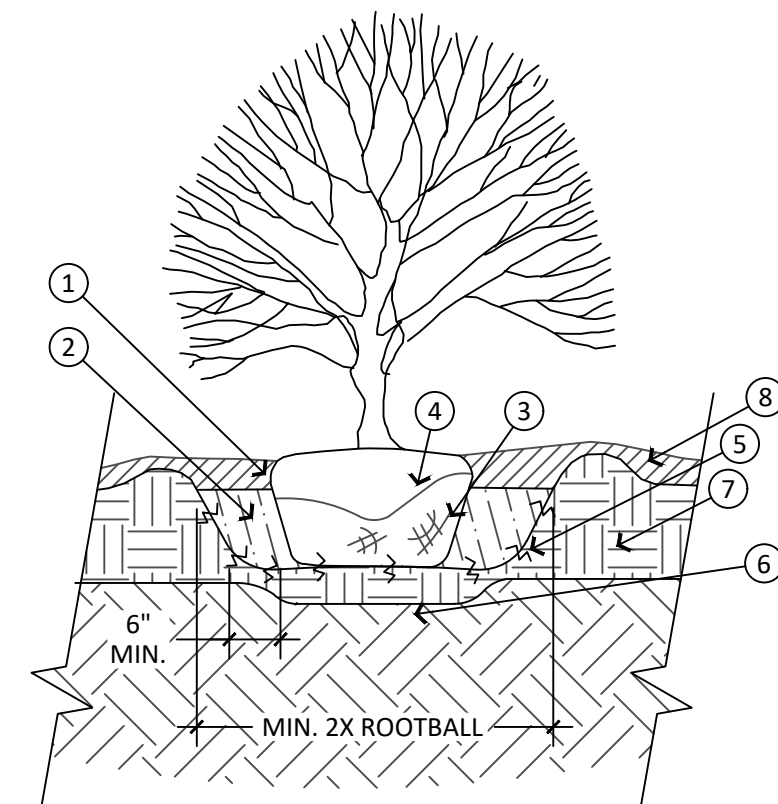


1. 6" BERM.
2. 3" MIN. COMPOST LAYER - DO NOT PLACE COMPOST DIRECTLY AGAINST TREE TRUNK.
3. SET SO ROOT FLARE OR FIRST ROOT IS 1" ABOVE FINISHED GRADE.
4. BACKFILL WITH SOIL FROM PIT EXCAVATION WATER SETTLE SOIL AFTER PLANTING.
5. ROUGHEN SIDES AND BOTTOM OF THE HOLE.
6. PREPARED SUBGRADE AND TOPSOIL TYPE B PER SPECIFICATIONS.
7. RETAIN UNDISTURBED NATIVE SOIL OR COMPACT PREPARED SUBGRADE FOR FIRM BASE.
8. COMPLETELY REMOVE CONTAINER BEFORE PLANTING

NOTE
A. DO NOT PLANT IN WET CONDITIONS. PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.

3 DECIDUOUS TREE PLANTING

N.T.S.

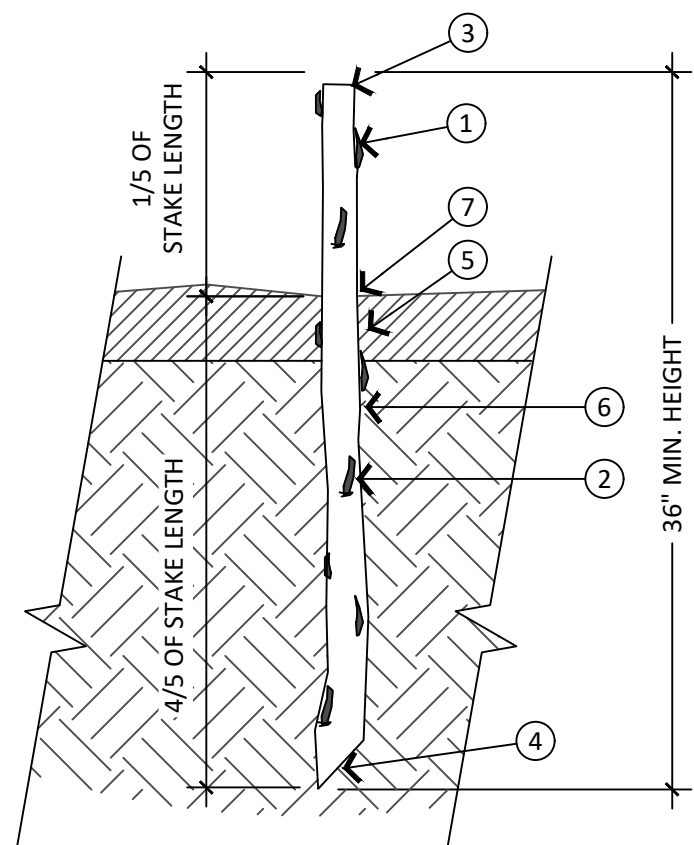


1. 3" MIN. COMPOST - FEATHER BACK FROM STEM.
2. BACKFILL WITH SOIL FROM PIT EXCAVATION.
3. COMPLETELY REMOVE CONTAINER.
4. SET SO FIRST ROOT EMERGING FROM MAIN STEM IS 1" ABOVE FINISHED GRADE.
5. ROUGHEN SIDES AND BOTTOM OF HOLE.
6. COMPACT SOIL FOR FIRM BASE.
7. PREPARED SUBGRADE AND TOPSOIL TYPE B.
8. WHEN PLANTING SHRUBS WITHIN PLANTING BED, EXTEND COMPOST TO EDGE OF BED.

NOTES:
A. DO NOT PLANT IN WET CONDITIONS, PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.
B. SPACING TO BE TRIANGULAR UNLESS SHOWN OTHERWISE.

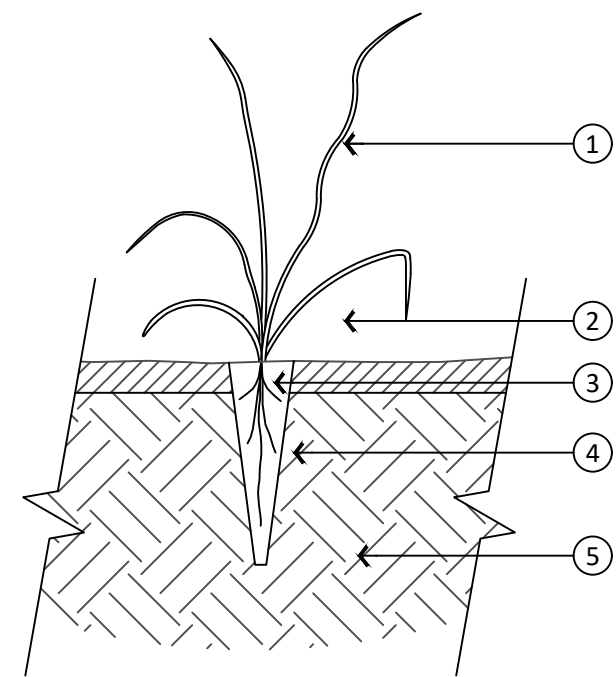
4 SHRUB PLANTING

N.T.S.



1. MINIMUM 2 NODES ABOVE GROUND
2. MINIMUM 2 NODES UNDERGROUND
3. SQUARE CUT ON TOP
4. ANGLE CUT 30° ON BOTTOM
5. TAMP SOIL AND COMPOST AROUND CUTTING FOR FULL CONTACT AT NODES
6. PRE-DIG HOLES WITH POLE IF EXISTING SOIL IS TOO HARD FOR EASY INSERTION
7. CUTTINGS TO BE PLANTED PERPENDICULAR TO GROUND SURFACE

NOTE
A. CUTTINGS TO BE BETWEEN 3/4" AND 1-1/2" IN DIAMETER.
B. CUTTINGS SHALL CONFORM TO REQUIREMENTS ESTABLISHED IN WSDOT SPEC SECTION 8-02.3(8)A AND SHALL BE PLANTED ONLY DURING THEIR SPECIFIED PLANTING WINDOW OF OCTOBER 1 THROUGH MARCH 1.



1. AVOID BREAKING OR BURYING OF TOP GROWTH
2. PLANT AT SAME DEPTH AS GROWN IN NURSERY
3. DIG HOLE W/ DIBBLE, SMALL SHOVEL OR TROWEL TO FULL ROOT DEPTH. PLACE PLANT SO ROOTS ARE FULLY EXTENDED INTO PLANTING HOLE. DO NOT FORCE ROOTS INTO TOO SMALL OR SHALLOW A PLANTING HOLE
4. BACKFILL WITH SOIL FROM HOLE TO ENSURE GOOD ROOT/SOIL CONTACT
5. TOPSOIL TYPE B

5 LIVESTAKE PLANTING

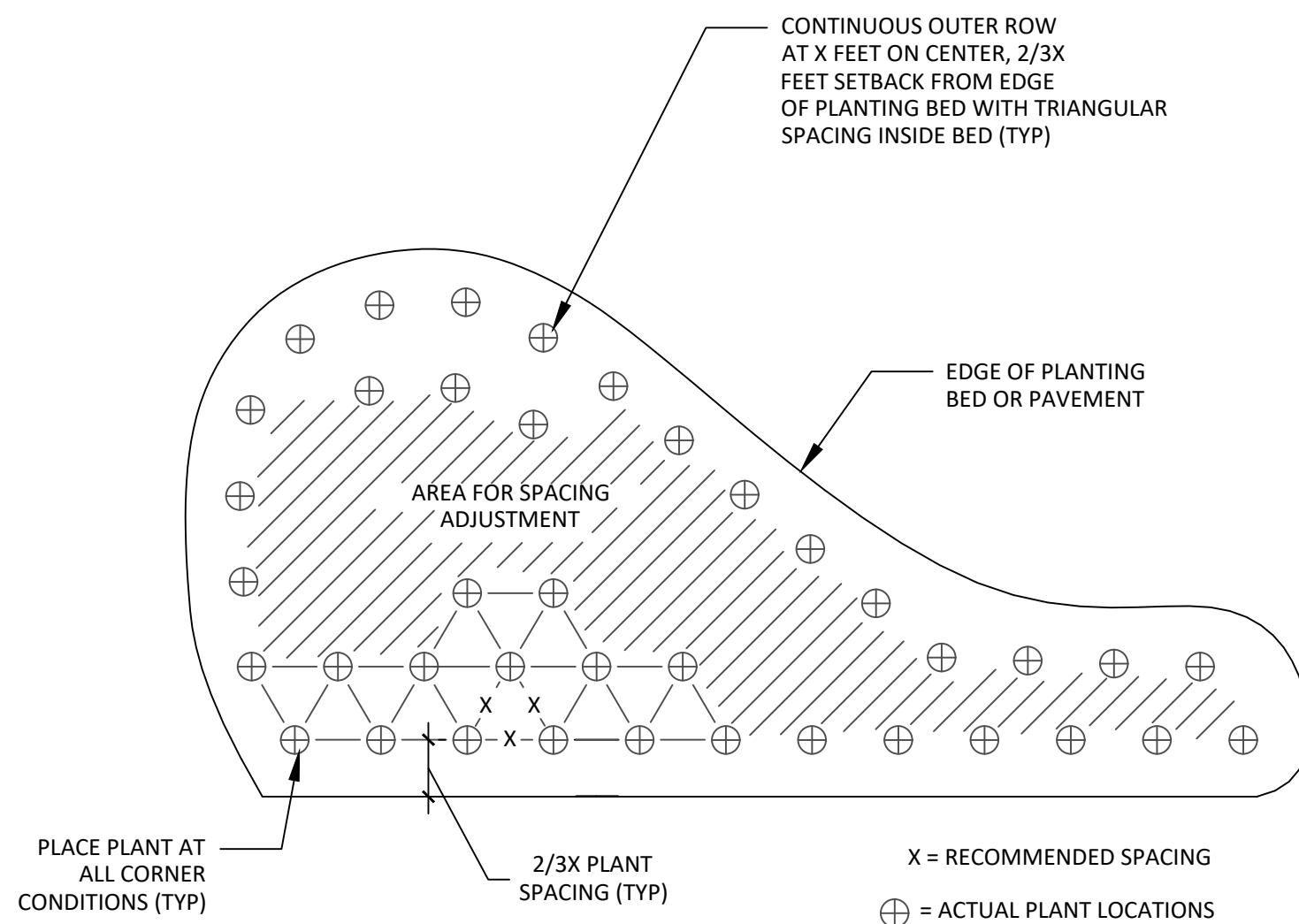
N.T.S.

6 PLUG PLANTING

N.T.S.

7 PLANTING LAYOUT

N.T.S.



PLACE PLANT AT ALL CORNER CONDITIONS (TYP)

2/3X PLANT SPACING (TYP)

X = RECOMMENDED SPACING
⊕ = ACTUAL PLANT LOCATIONS

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SO
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NO.	DATE	REVISION	BY



CITY OF KENMORE
DEPARTMENT OF PUBLIC WORKS
18120 68TH AVE NE
KENMORE, WA 98028

MUCK CREEK MITIGATION
18727 73RD AVE NE
PLANTING DETAILS - 2

JOB# / DWG 10-230113	DATE 04/03/2025
SCALE H: N/A V: N/A	SHEET 13 of 13

