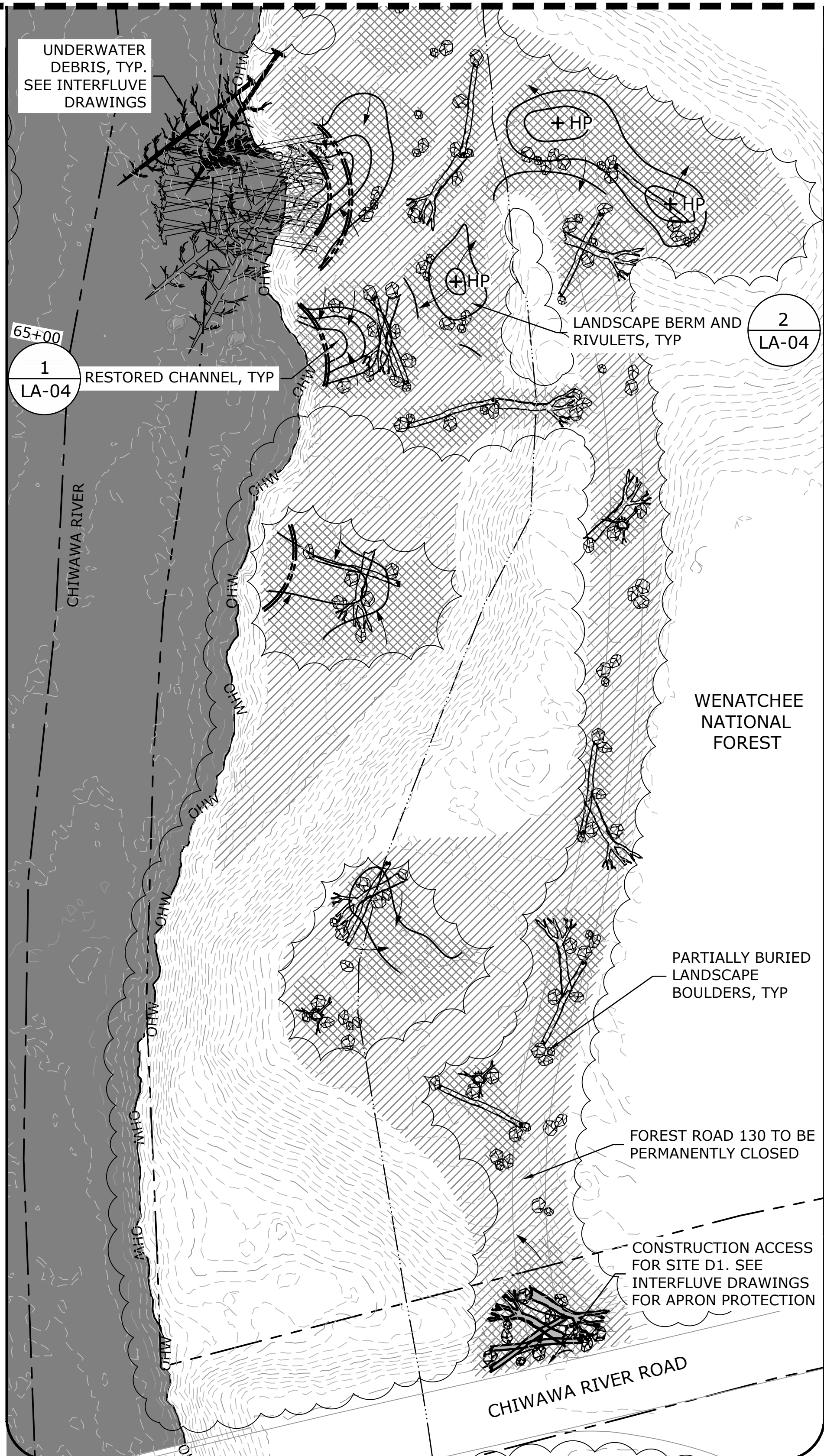
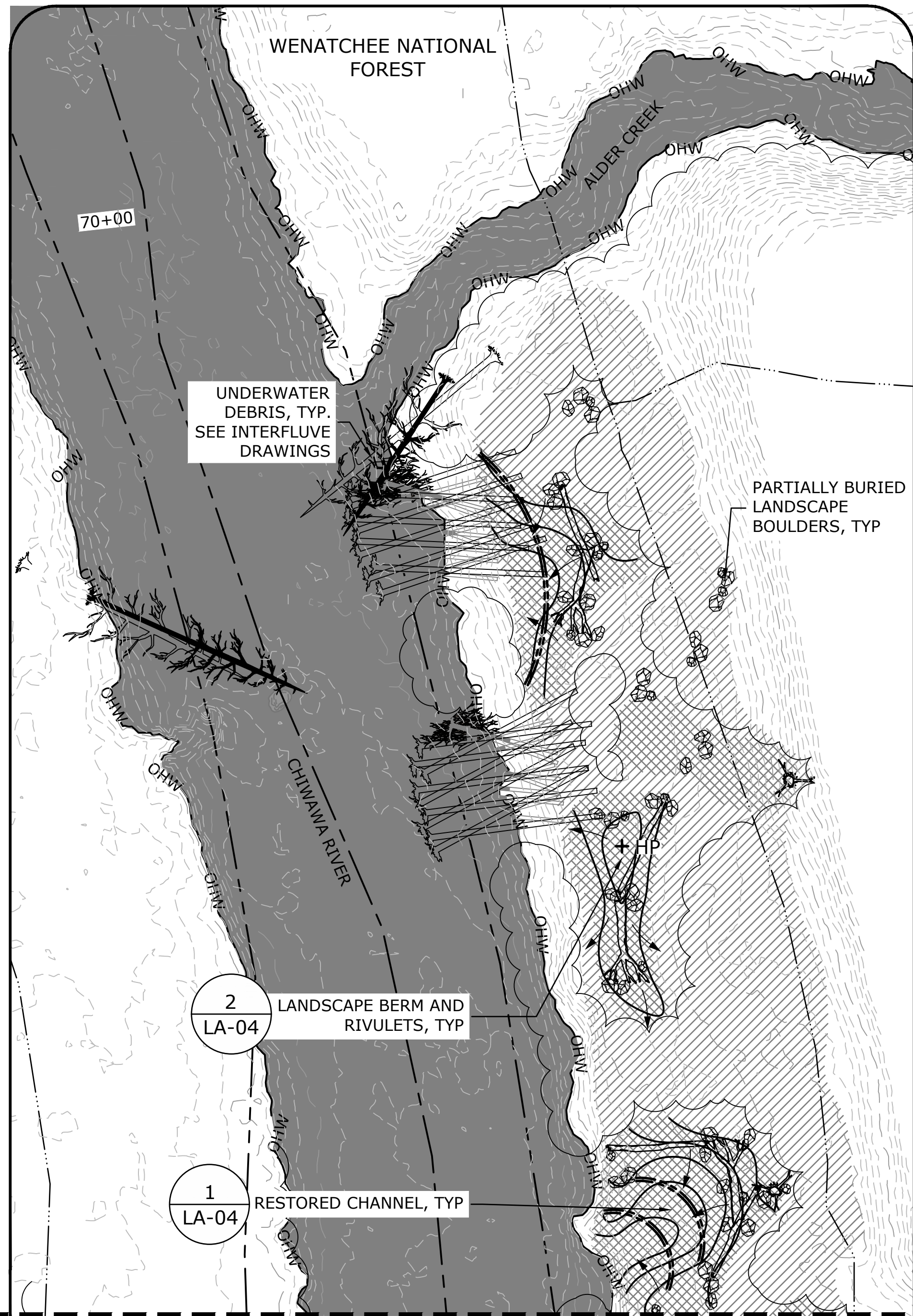


D1 NORTH

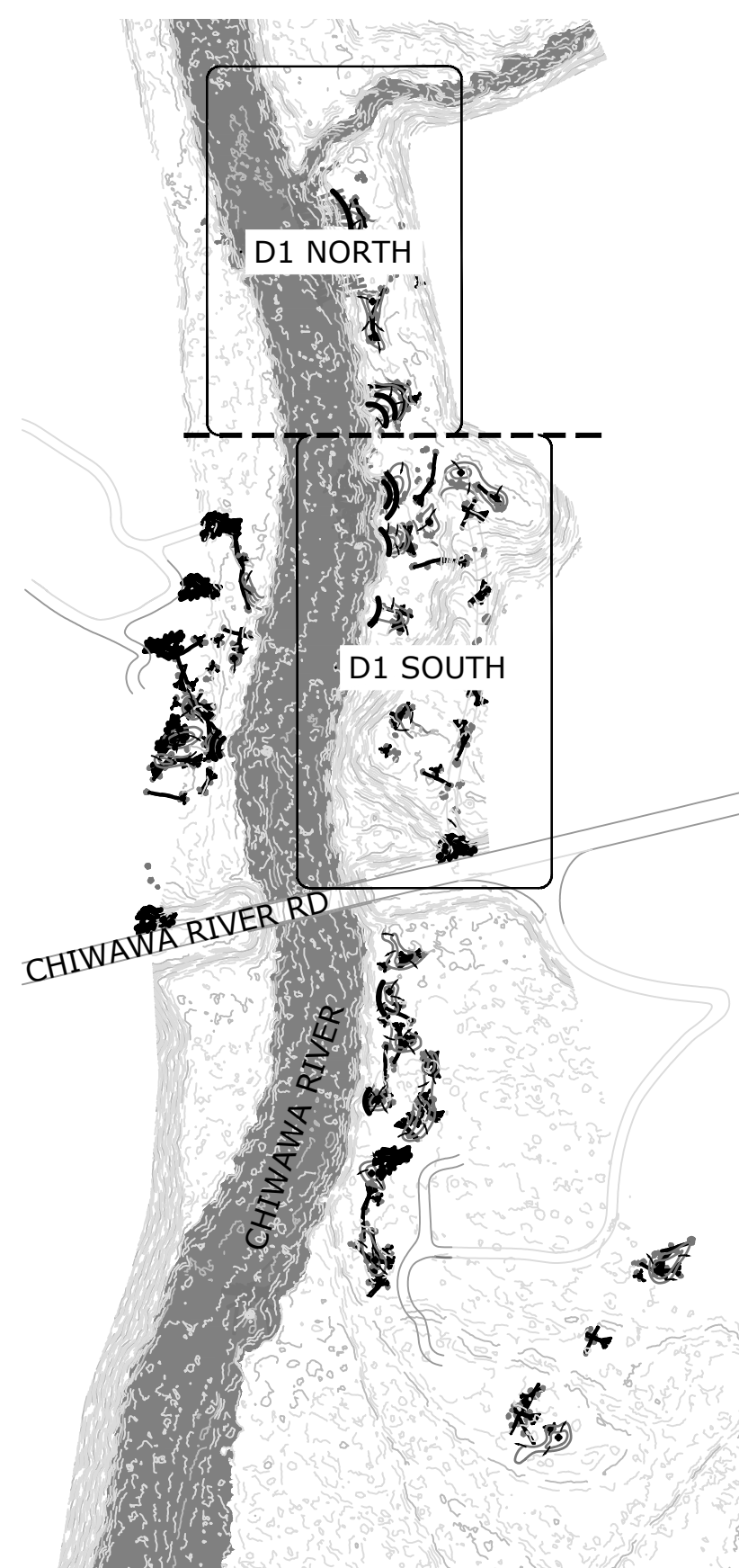
MATCHLINE - D1 NORTH

LANDSCAPE LEGEND



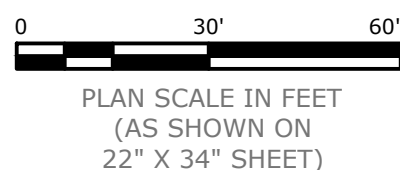
- NATIVE RESTORATION MIX 1
- NATIVE RESTORATION MIX 2
- 150' ROAD SETBACK
- 150' WETLAND BUFFER
- 100' STREAM BUFFER
- EXISTING CONTOURS (5')
- EXISTING CONTOURS (1')
- PROPERTY BOUNDARIES
- RIVER ALIGNMENT
- OHW ORDINARY HIGH WATER
- WILLOW FASCINES FOR EROSION CONTROL
- SLOPE DIRECTION OF REGRADED AREAS
- +HP HIGH POINT OF BERMS
- RECLAIMED LOGS AND ON-SITE WOODY DEBRIS
- FALLEN LOG AND ROOTWAD BARRIER

KEY MAP



LAST SAVED DATE
2024-12-09
DRAWN BY
JOSH GILLESPIE

CAD SYSTEM
AutoCAD 2015 (LMS TECH)
AutoCAD 2015 (LMS TECH)
SCJ LOWER CHIWAWA SITE D
RECOMMENDATIONS.DWG



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WENATCHEE, WA SEPTEMBER 2024

AREA D-1 RECOMMENDATIONS

LA-01
1 OF 4

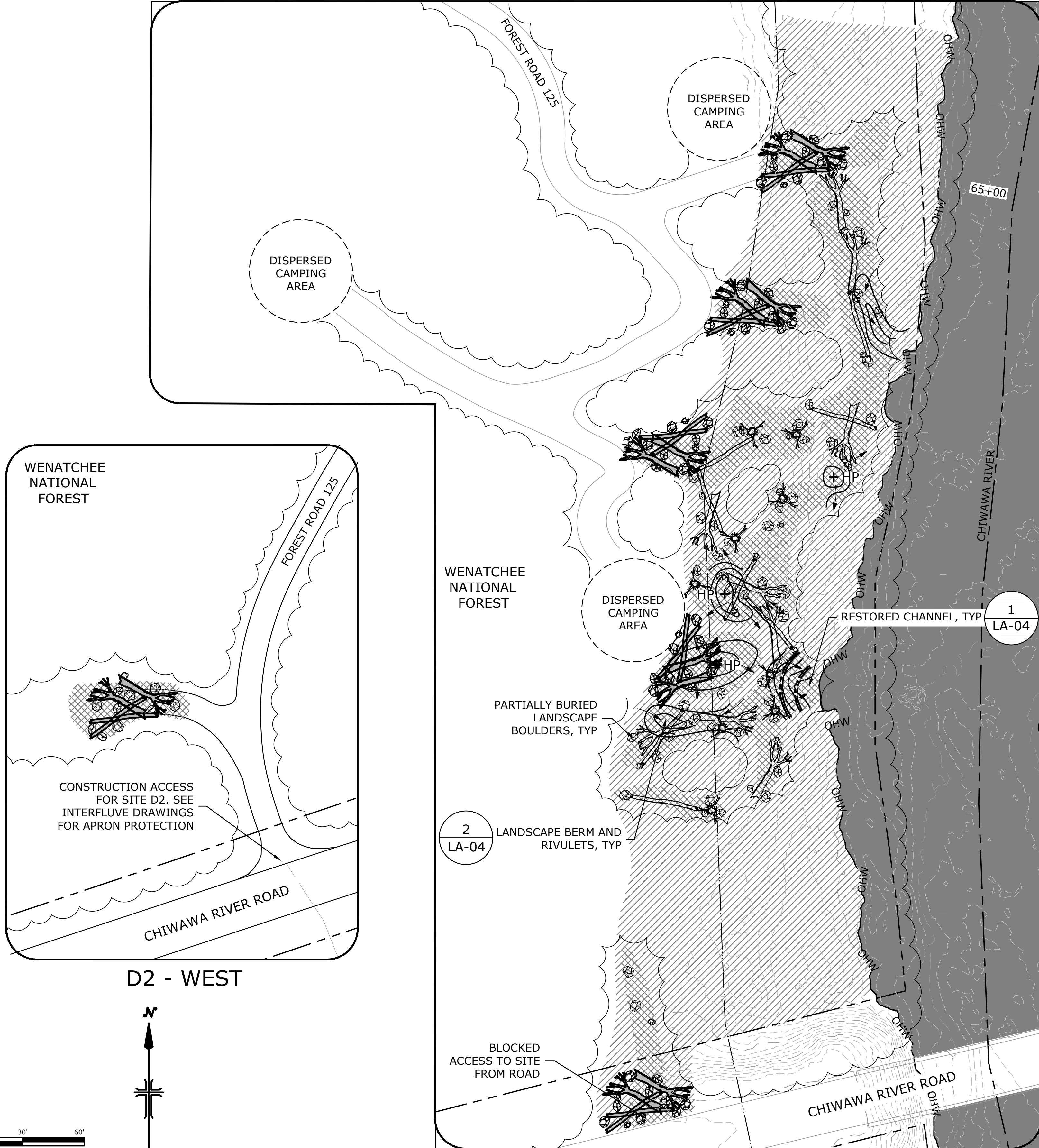
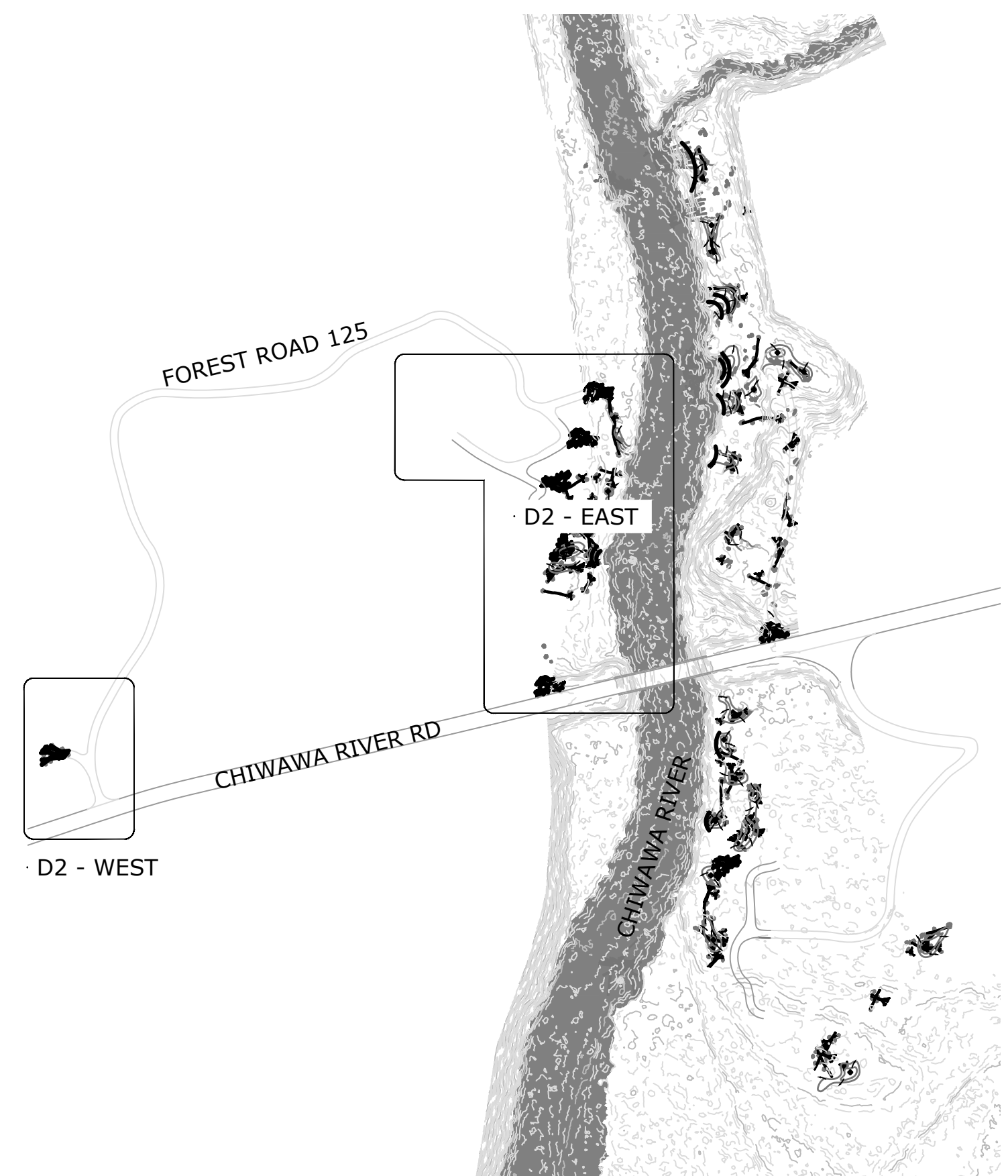
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LANDSCAPE LEGEND

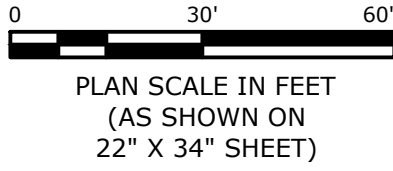
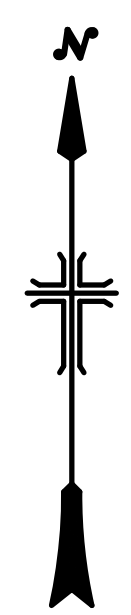
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-  FALLEN LOG AND ROOTWAD BARRIER

3
LA-04

KEY MAP



D2 - WEST



PLAN SCALE IN FEET
(AS SHOWN ON
22" X 34" SHEET)

D2 - EAST

LAST SAVED DATE: 2024-12-09
 DRAWN BY: JOSH GILLESPIE
 CAD SYSTEM: AutoCAD 2015 (LMS TECH)
 PROJECT: SCI LOWER CHIWAWA SITE D2 RECOMMENDATION.DWG

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AREA D-2 RECOMMENDATION









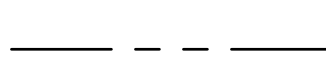
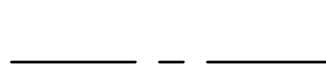

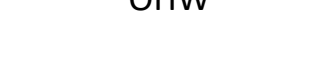


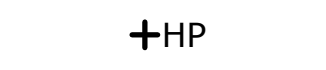
LA-02

2 OF 4

D3 NORTH

D3 EAST

LANDSCAPE LEGEND

-  NATIVE RESTORATION MIX 1
-  NATIVE RESTORATION MIX 2
-  150' ROAD SETBACK
-  150' WETLAND BUFFER
-  100' STREAM BUFFER
-  EXISTING CONTOURS (5')
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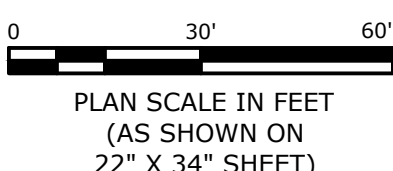
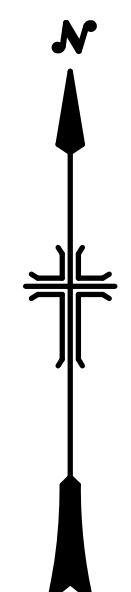
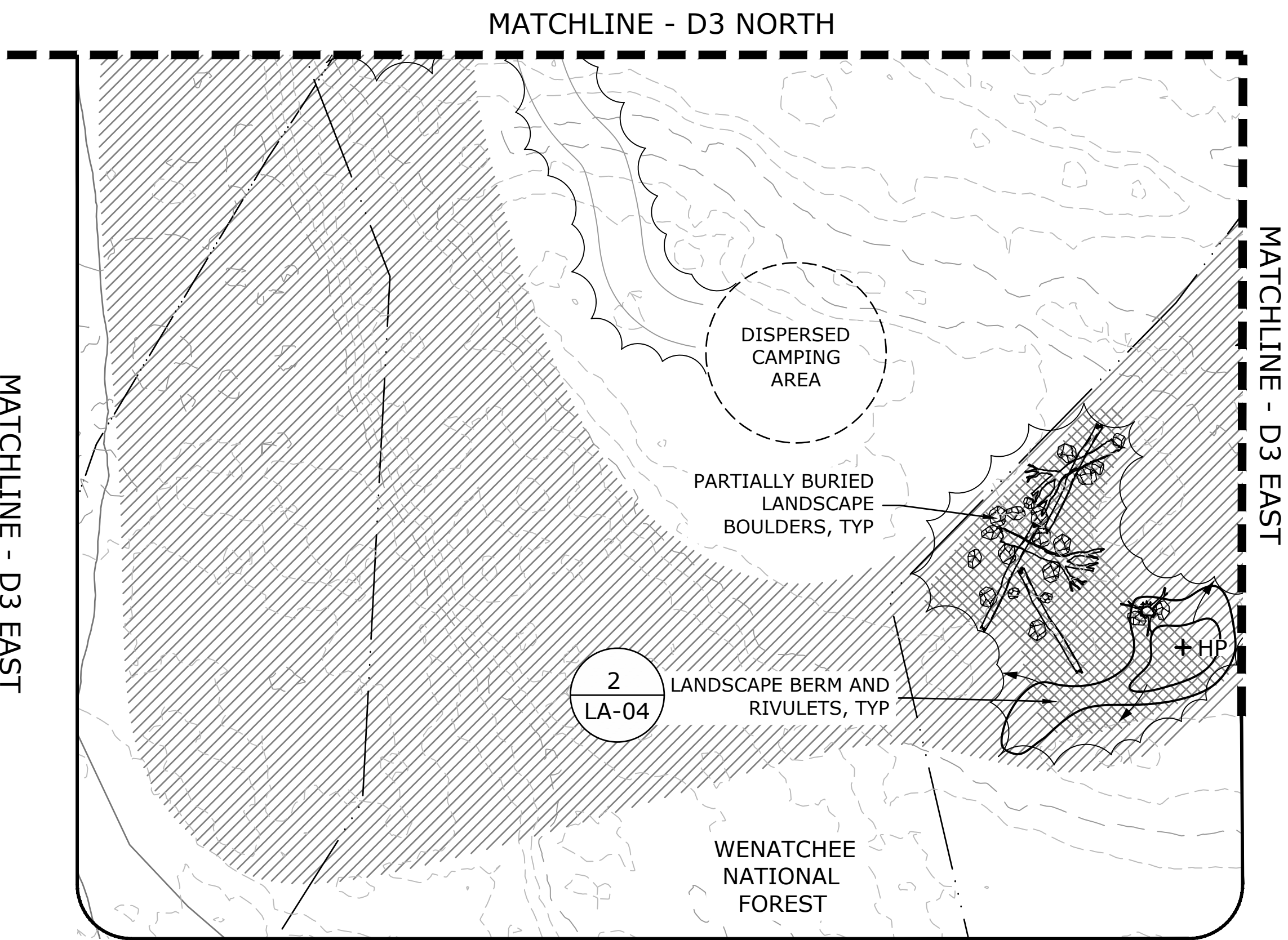
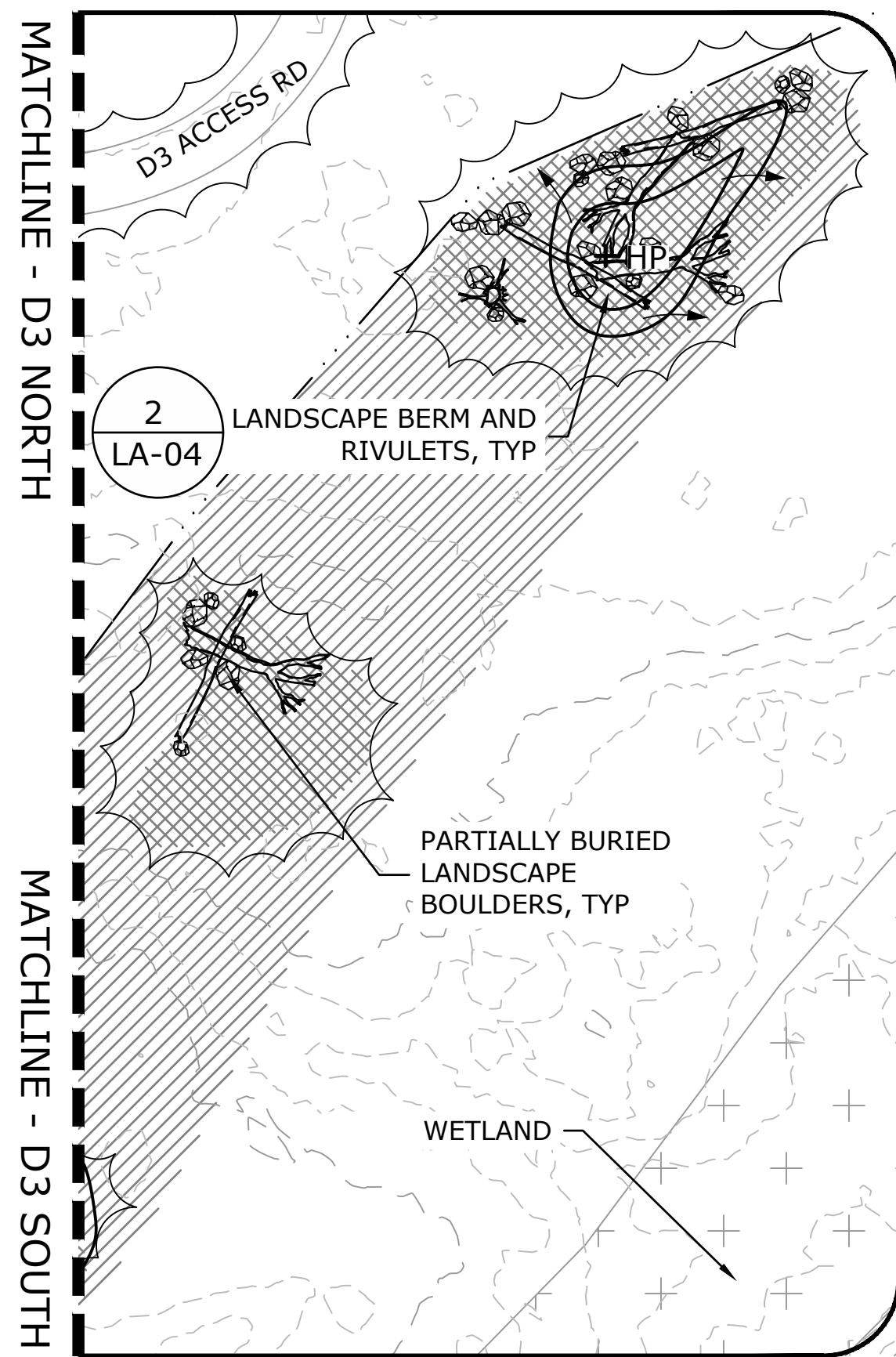
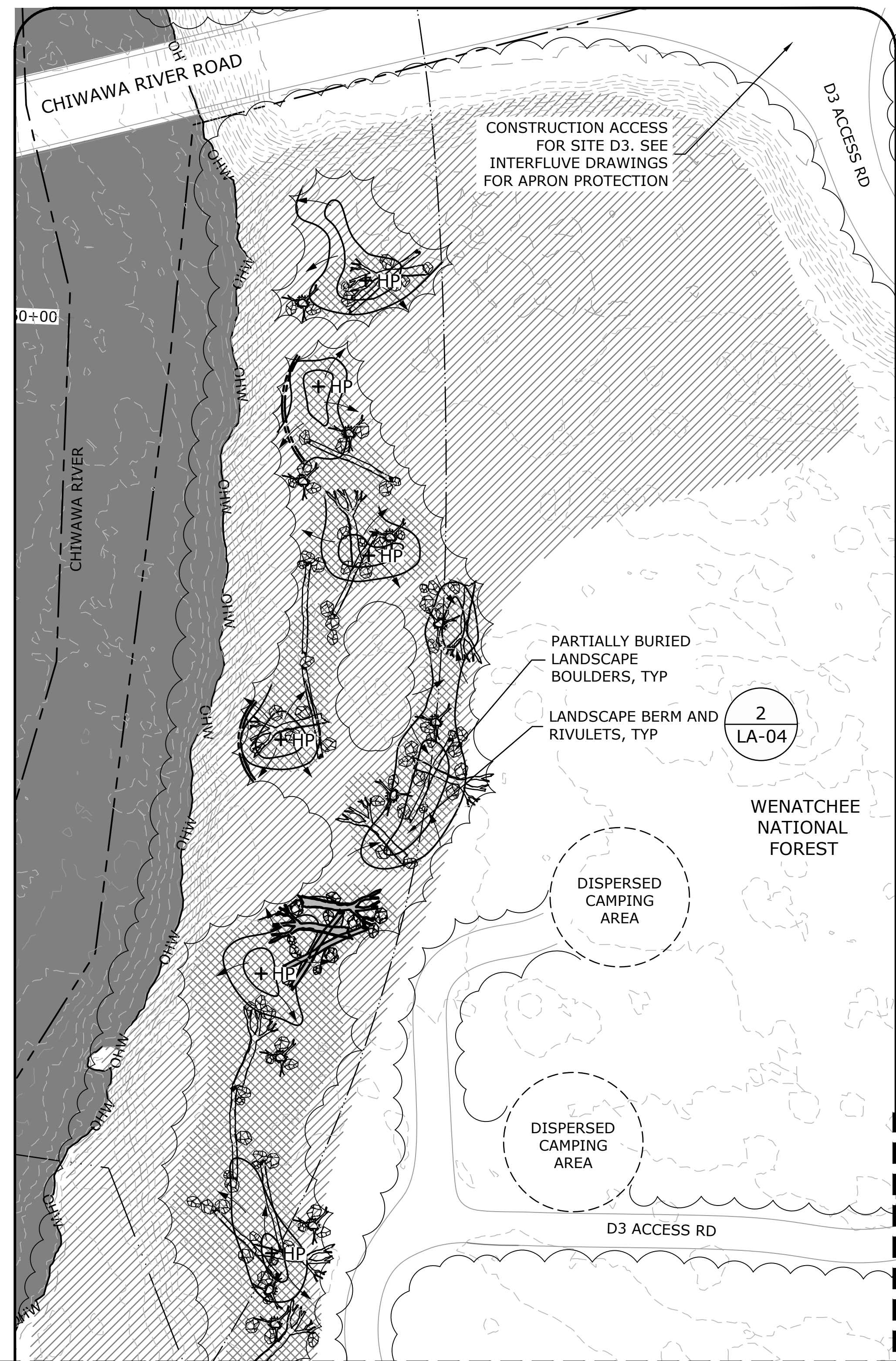
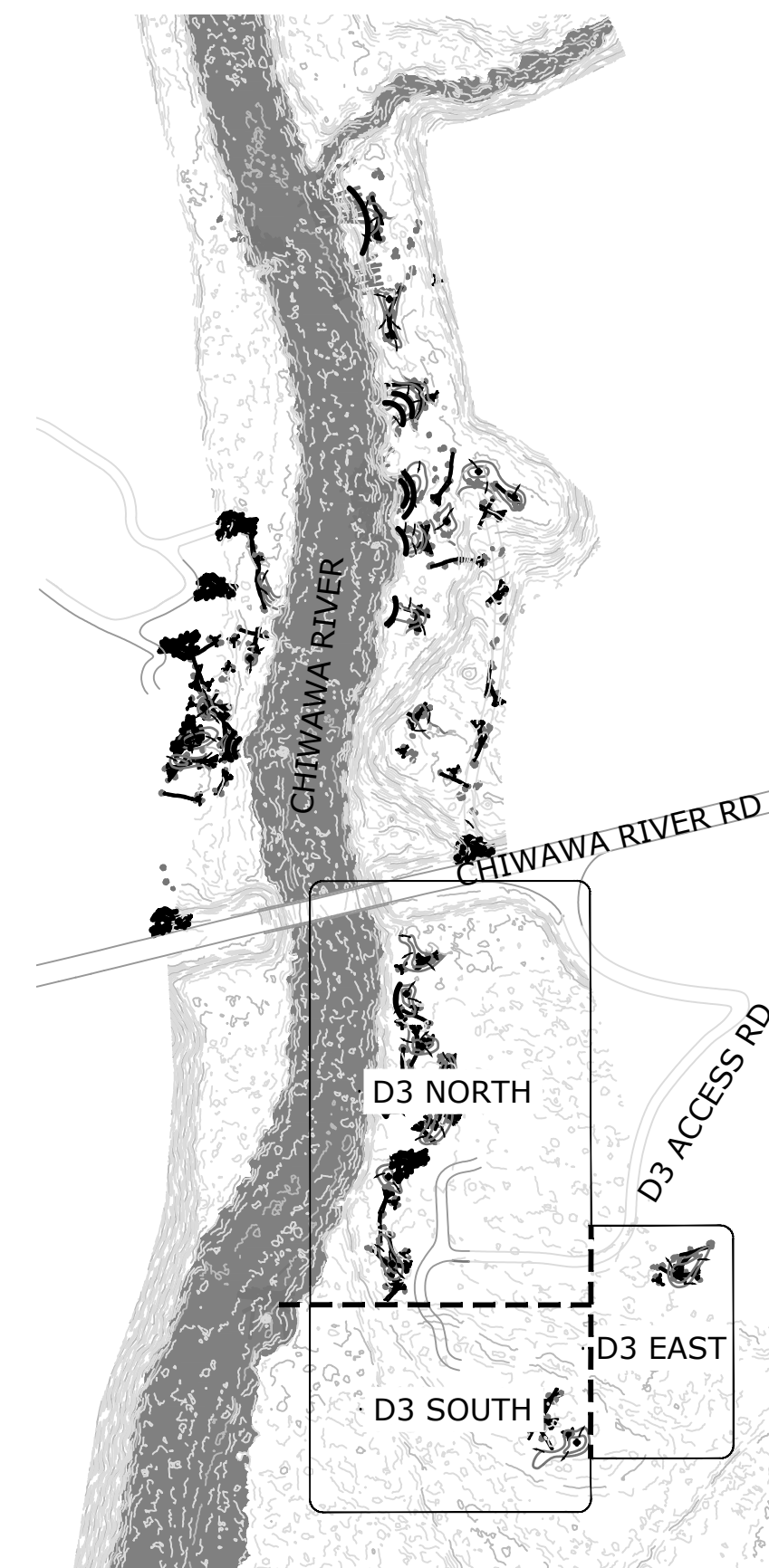
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LOWER CHIWAWA RIVER
RESTORATION

KEY MAP



PLAN SCALE IN FEET
(AS SHOWN ON
22" X 34" SHEET)

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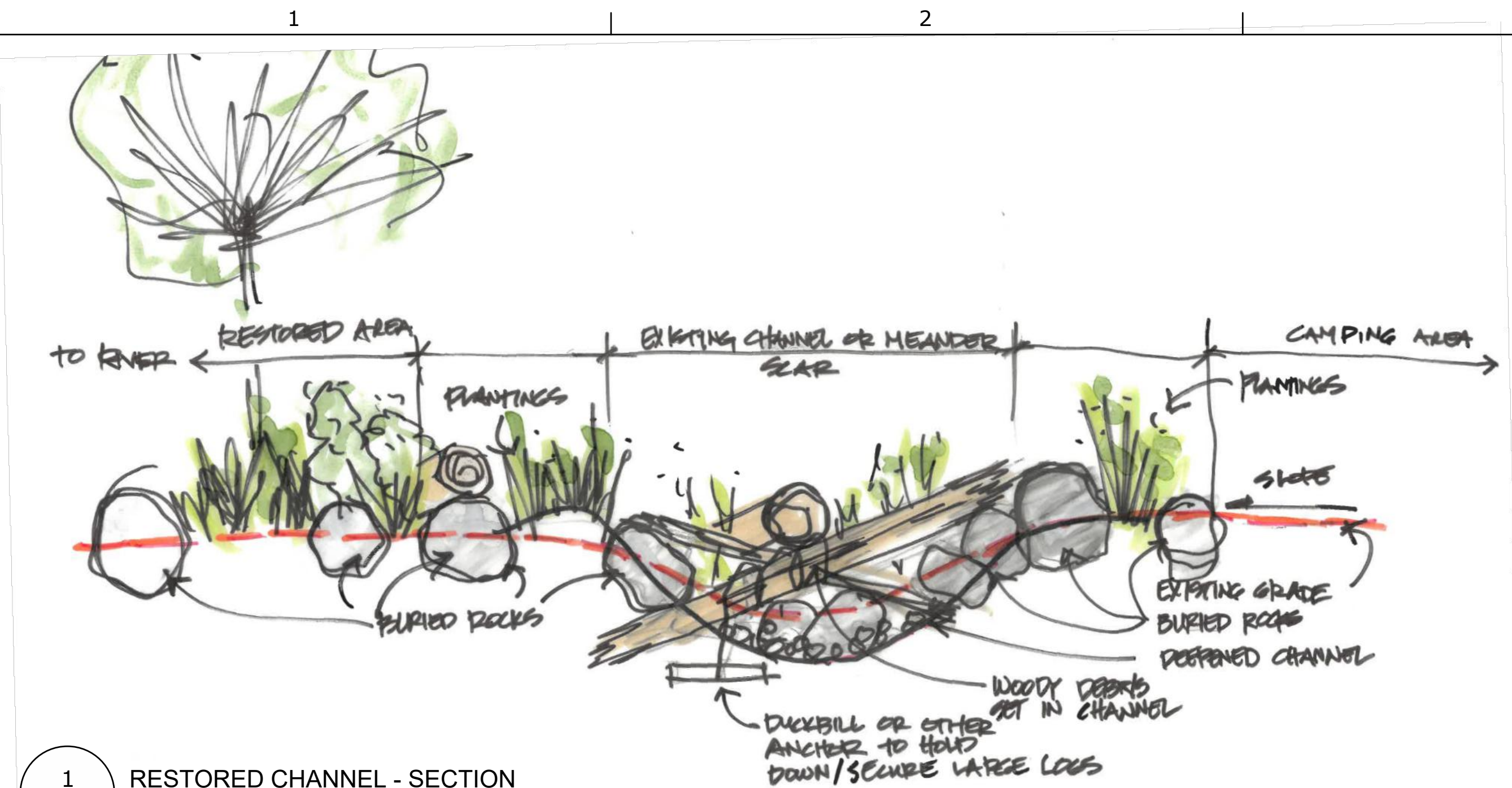
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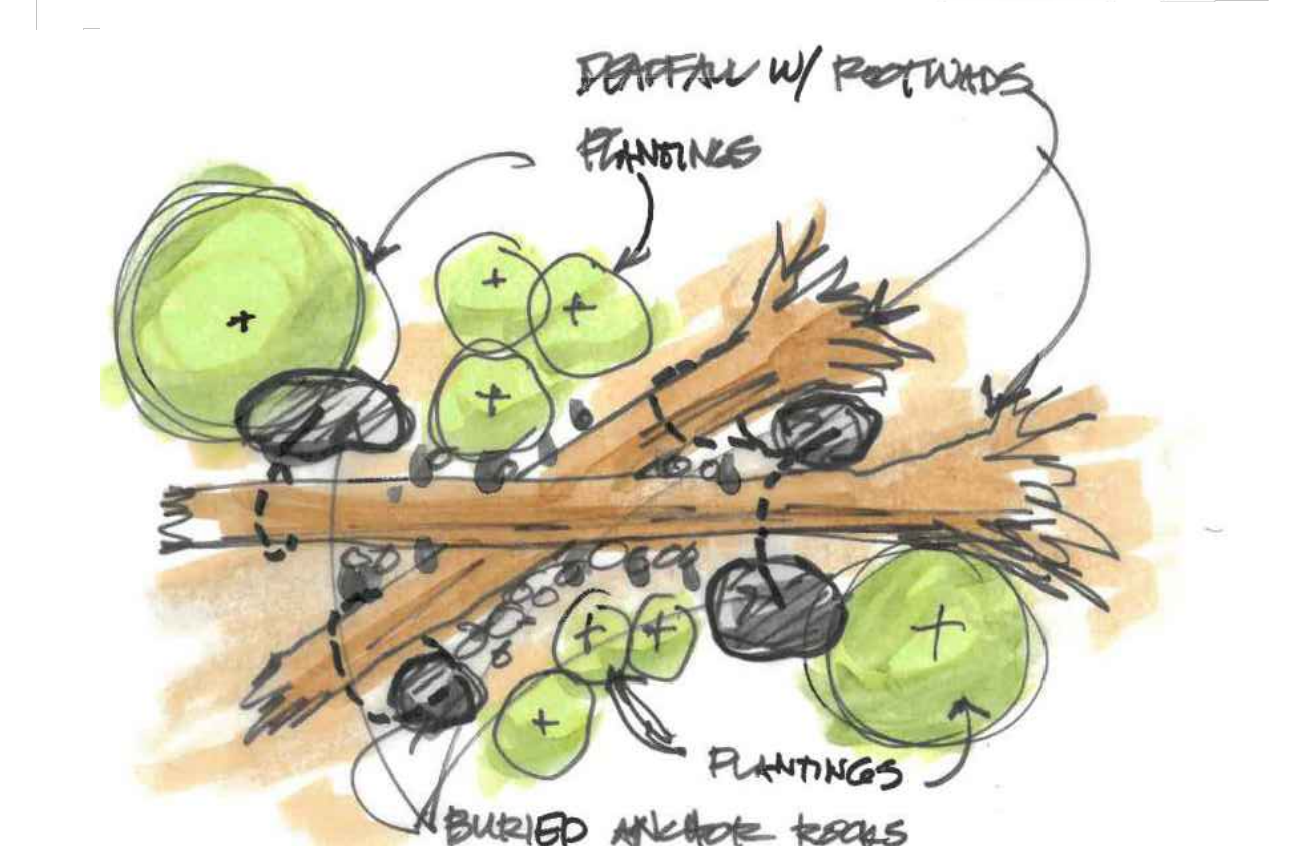
WENATCHEE, WA SEPTEMBER 2024

AREA D-3
RECOMMENDATIONS

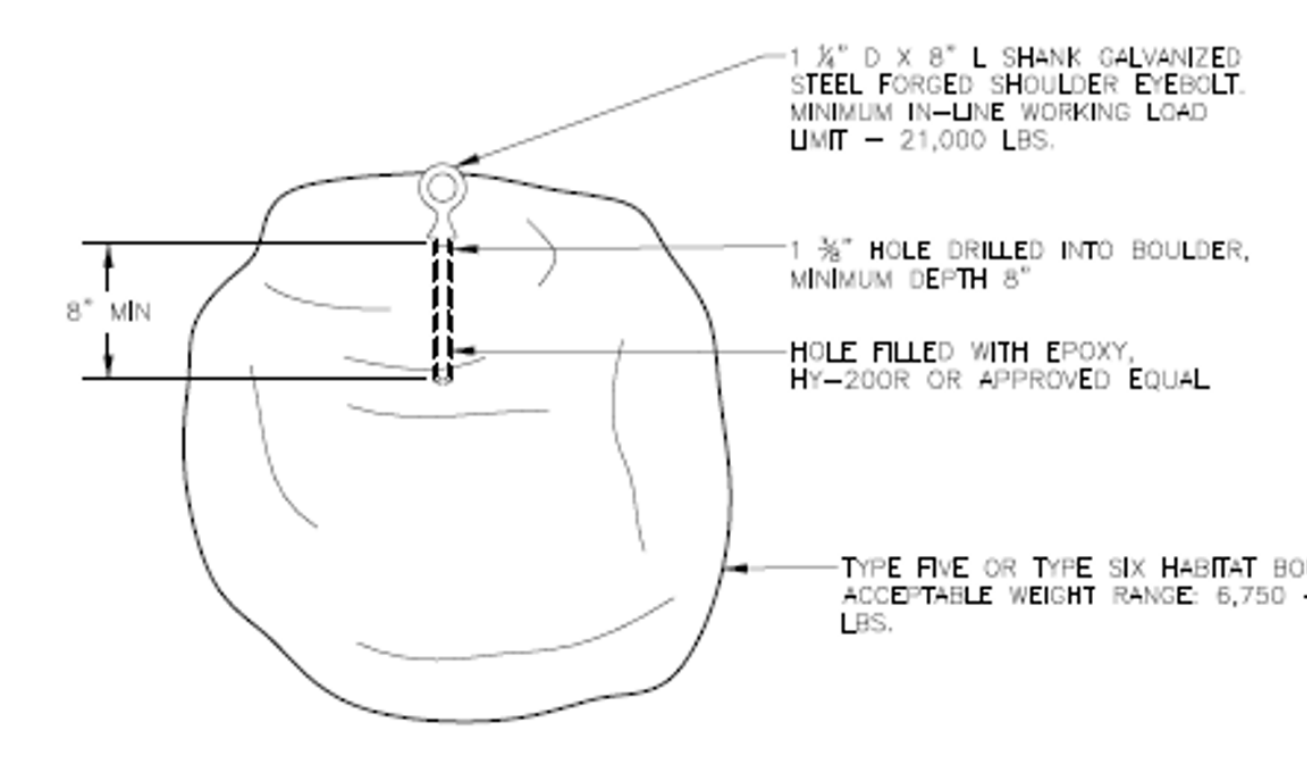
LA-03



1 RESTORED CHANNEL - SECTION
 LA-04



3 DEADFALL ANCHORING TO BOULDERS - PLAN VIEW
 LA-04



DEADFALL ANCHORING TO BOULDERS - SECTION

LANDSCAPE NOTES:

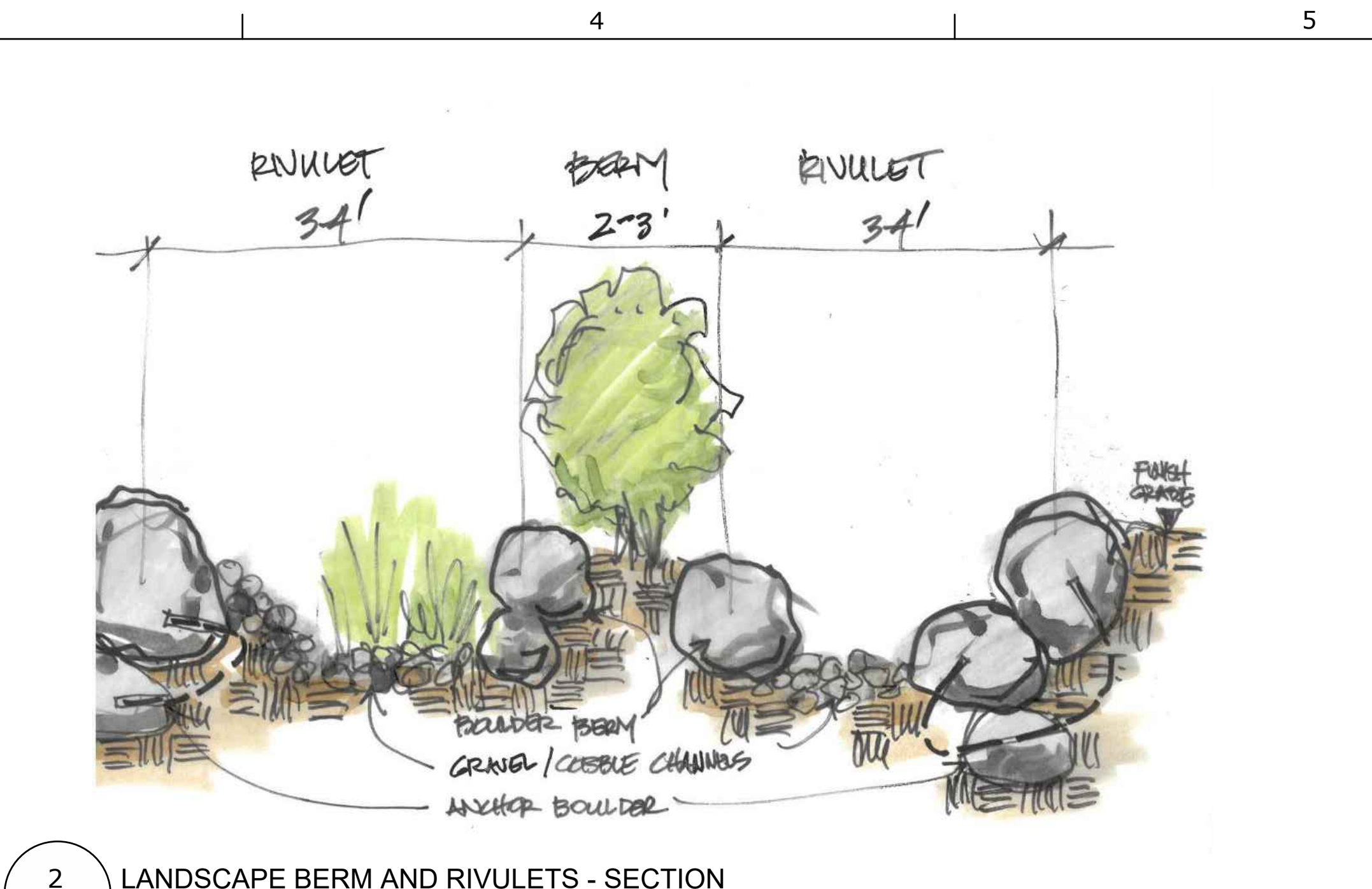
SITE CLEARING AND EROSION CONTROL
 CAREFULLY REMOVE INVASIVE PLANT SPECIES, INCLUDING ROOTS, TO PREVENT RE-ESTABLISHMENT. FOLLOW APPROVED METHODS FOR INVASIVE SPECIES REMOVAL, SUCH AS HAND-PULLING OR TARGETED HERBICIDE APPLICATION BY A CERTIFIED APPLICATOR.
 CLEAR DEAD OR DOWNED NON-NATIVE PLANT MATERIAL, LITTER, AND DEBRIS FROM THE RESTORATION AREA. RETAIN NATIVE WOODY DEBRIS AND DEADFALL THAT CAN PROVIDE HABITAT, STABILIZE SOIL AND CREATE BARRIERS FOR VEHICULAR MOVEMENT THROUGH THE SITE(S).
 INSTALL TEMPORARY EROSION CONTROL MEASURES, SUCH AS SILT FENCES, COIR LOGS, OR STRAW WATTLES, ALONG SLOPES, STREAMS, AND SENSITIVE AREAS PRIOR TO ANY SOIL DISTURBANCE TO PREVENT SEDIMENT RUNOFF.
 SEE INTERFLUVE'S PLANS, NOTES, AND SPECIFICATIONS FOR INSTALLING COIR LOGS OR FASCINES ALONG STREAMBANKS TO STABILIZE SOIL AND REDUCE EROSION POTENTIAL.
 FOR STEEPER SLOPES, USE A COMBINATION OF COIR LOGS AND LIVE STAKING (E.G., WILLOW STAKES) TO ESTABLISH NATURAL STABILIZATION AND RAPID REVEGETATION. SEE PLANS FOR AREAS.
 AVOID WORKING IN THE STREAM DURING SPAWNING SEASON OR SENSITIVE PERIODS FOR AQUATIC WILDLIFE. FOLLOW ALL LOCAL AND STATE REGULATIONS REGARDING IN-STREAM WORK TIMING.

NATIVE PLANT PROTECTION
 FLAG AND PROTECT EXISTING NATIVE TREES, SHRUBS, AND ANY AREAS WITH ESTABLISHED NATIVE VEGETATION. LIMIT DISTURBANCE TO THESE AREAS TO PRESERVE NATURAL HABITATS AND SOIL STRUCTURE.
 SET UP EXCLUSION ZONES AROUND LARGE TREES OR AREAS WITH SENSITIVE ROOT ZONES TO PREVENT DAMAGE DURING REMOVAL OR GRADING ACTIVITIES.

EQUIPMENT ACCESS AND STAGING
 REFER TO INTERFLUVE'S GENERAL NOTES AND SPECIFICATIONS FOR EQUIPMENT ACCESS AND STAGING.

SOIL PREPARATION
 LOOSEN COMPACTED SOILS BY SCARIFYING OR TILLING TO A DEPTH OF 6-12 INCHES WHERE FEASIBLE, TYPICALLY OUTSIDE OF EXISTING TREE DRILINES, AND ESPECIALLY IN AREAS DESIGNATED FOR PLANTING. AVOID OVER-TILLING TO MINIMIZE DISRUPTION TO SOIL STRUCTURE.
 AVOID OPERATING HEAVY EQUIPMENT NEAR ESTABLISHED ROOT ZONES, TYPICALLY UNDERNEATH DRILINES.
 INCORPORATE ORGANIC MULCH OR COMPOST INTO SOIL IF RECOMMENDED BY SOIL TESTING TO IMPROVE SOIL FERTILITY AND MOISTURE RETENTION.

WEED AND INVASIVE SPECIES MANAGEMENT
 CONDUCT A THOROUGH WEED CONTROL PHASE. USE APPROVED HERBICIDES FOR DIFFICULT-TO-REMOVE SPECIES OR REMOVE BY HAND AS APPROPRIATE.
 FOR AREAS HEAVILY IMPACTED BY INVASIVE SPECIES, CONSIDER A FALL AND SPRING CONTROL EFFORT BEFORE SEEDING OR PLANTING.
 GRADE THE SOIL TO CREATE MICRO-TOPOGRAPHIES THAT MIMIC NATURAL RIPARIAN CONTOURS, INCLUDING SLIGHT DEPRESSIONS TO RETAIN MOISTURE IN PLANTING AREAS.
 ENSURE SLOPES ARE STABLE WITH GENTLE TRANSITIONS TO REDUCE EROSION POTENTIAL. AVOID SHARP GRADES OR ABRUPT CHANGES THAT COULD LEAD TO SOIL EROSION.
 INSTALL BIODEGRADABLE EROSION CONTROL FABRIC, COIR MATS, OR STRAW BLANKETS ON STEEP SLOPES OR AREAS PRONE TO EROSION, SECURING THEM WITH STAKES OR LANDSCAPE STAPLES. AVOID USING PLASTIC NETTING THAT CAN ENTANGLE WILDLIFE.
 LEAVE OPENINGS IN EROSION CONTROL FABRIC FOR PLANTING LOCATIONS, ENSURING GOOD SOIL CONTACT TO PROMOTE SEED GERMINATION AND PLANT ESTABLISHMENT.



2 LANDSCAPE BERM AND RIVULETS - SECTION
 LA-04

SEEDING

TIMING: SEED DURING EARLY FALL OR SPRING TO TAKE ADVANTAGE OF NATURAL RAINFALL. FALL SEEDING IS PREFERRED FOR COOL-SEASON GRASSES AND NATIVE SPECIES.
METHOD: APPLY SEED EVENLY USING A BROADCAST SEEDER, AND LIGHTLY RAKE OR ROLL THE AREA TO ENSURE GOOD SEED-TO-SOIL CONTACT.
MULCHING: SPREAD A THIN LAYER OF WEED-FREE STRAW MULCH (AROUND 2,000 LBS/ACRE) TO RETAIN SOIL MOISTURE AND PROTECT SEED FROM EROSION AND BIRDS.
EROSION CONTROL (IF HYDROSEEDING): IN HIGH EROSION AREAS, CONSIDER HYDROSEEDING WITH A SEED-MULCH-TACKIFIER MIX TO SECURE SEEDS IN PLACE.
FOR RESTORATION MIX #1:
 EAST SLOPE CASCADE MIX:
 20% BLUE WILDGRASS
 20% BLUEBUNCH WHEATGRASS
 20% IDAHO FESCUE
 20% MOUNTAIN BROME
 10% PRAIRIE JUNEGRASS
 10% SANDBERG BLUEGRASS
FOR RESTORATION MIX #2:
 EAST SLOPE CASCADE MIX:
 35% BLUE WILDGRASS
 30% CALIFORNIA BROME
 10% PRAIRIE JUNEGRASS
 20% ROEMER'S FESCUE
 5% WESTERN MANNAGRASS

PLANTING (SHRUBS, TREES, AND FORBS)

SPACING: PLANT SHRUBS AND TREES IN CLUSTERS TO MIMIC NATURAL RIPARIAN HABITATS. SPACE PLANTS ACCORDING TO SPECIES RECOMMENDATIONS. GENERALLY 3-6 FEET FOR SHRUBS AND 10-15 FEET FOR TREES.
PLANTING DEPTH: DIG PLANTING HOLES TWICE THE WIDTH OF ROOT BALLS AND PLANT AT THE SAME DEPTH AS IN NURSERY POTS. ENSURE ROOTS ARE NOT TWISTED OR CONSTRICTED.
WATERING: WATER DEEPLY AFTER PLANTING TO ENSURE SOIL SETTLES AROUND ROOTS AND PLANTS ESTABLISH PROPERLY. IF FEASIBLE, PROVIDE SUPPLEMENTAL WATER DURING THE FIRST GROWING SEASON IF RAINFALL IS INSUFFICIENT.
POTENTIAL FORBS TO INCLUDE WITH THE RESTORATION MIXES:
 ERIOPHYLLUM LANATUM
 ERIOGONUM NIVEUM
 ACHILLEA MILLEFOLIUM
 LOMATIUM DISSECTUM
 ANAPHALIS MARGARITACEA
MULCHING AND PROTECTION
MULCH: APPLY A 2-3 INCH LAYER OF COARSE BARK MULCH AROUND EACH PLANT TO RETAIN MOISTURE, SUPPRESS WEEDS, AND MODERATE SOIL TEMPERATURE. KEEP MULCH 1-2 INCHES AWAY FROM PLANT STEMS TO PREVENT ROT.
TREE GUARDS AND PLANT PROTECTORS: INSTALL TREE GUARDS OR PLANT PROTECTORS AROUND YOUNG PLANTS TO PREVENT DAMAGE FROM WILDLIFE, IF BROWSING PRESSURE IS HIGH.