

LEGEND:

- MOUNTAIN BIKE BEGINNER TRAIL
- MOUNTAIN BIKE INTERMEDIATE TRAIL
- MOUNTAIN BIKE ADVANCED TRAIL
- - - PANORAMA BIKE TRAIL
- NEW HIKING TRAILS

Eldorado County, California
 APN 030-030-01
 Land Capability District 1a

Douglas County, Nevada
 APN 1318-00-002-010
 Land Capability District 1a

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REVISION	DATE

HEAVENLY MOUNTAIN RESORT
 East Peak Lake Basin Epic Discovery Activities

SITE PLAN AND SHEET INDEX

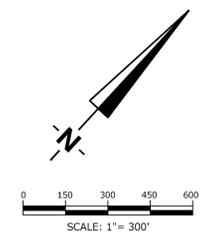
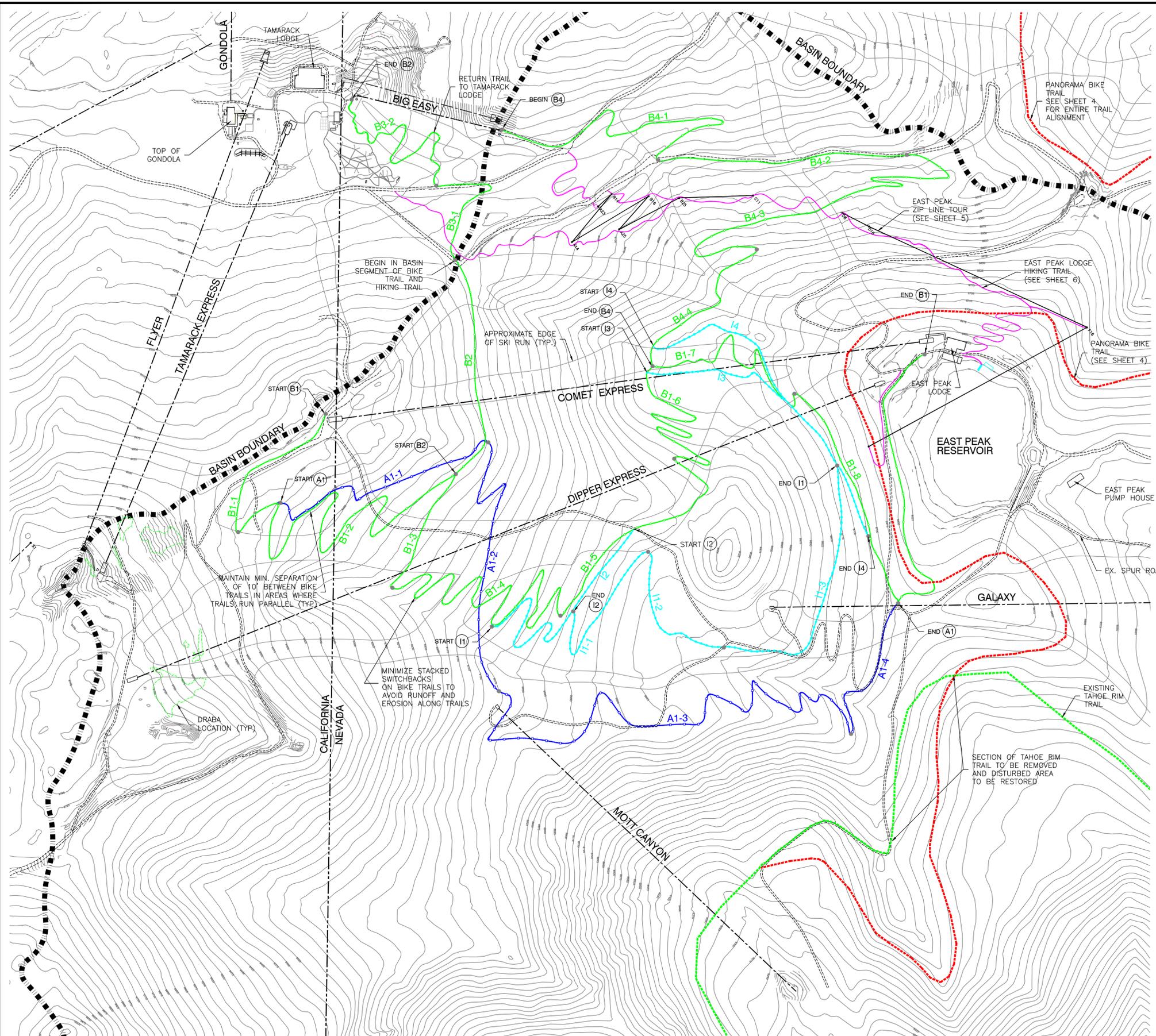


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SHEET 2



LEGEND:

- MOUNTAIN BIKE BEGINNER TRAIL
- MOUNTAIN BIKE INTERMEDIATE TRAIL
- MOUNTAIN BIKE ADVANCED TRAIL
- - - PANORAMA BIKE TRAIL
- NEW HIKING TRAILS
- B1-1 (B1) MOUNTAIN BIKE TRAIL SEGMENT DESIGNATION
- MOUNTAIN BIKE TRAIL SEGMENT START / STOP
- - - EXISTING ROADS
- EXISTING TRAILS
- - - APPROXIMATE EDGE OF SKI RUN

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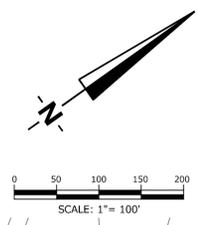
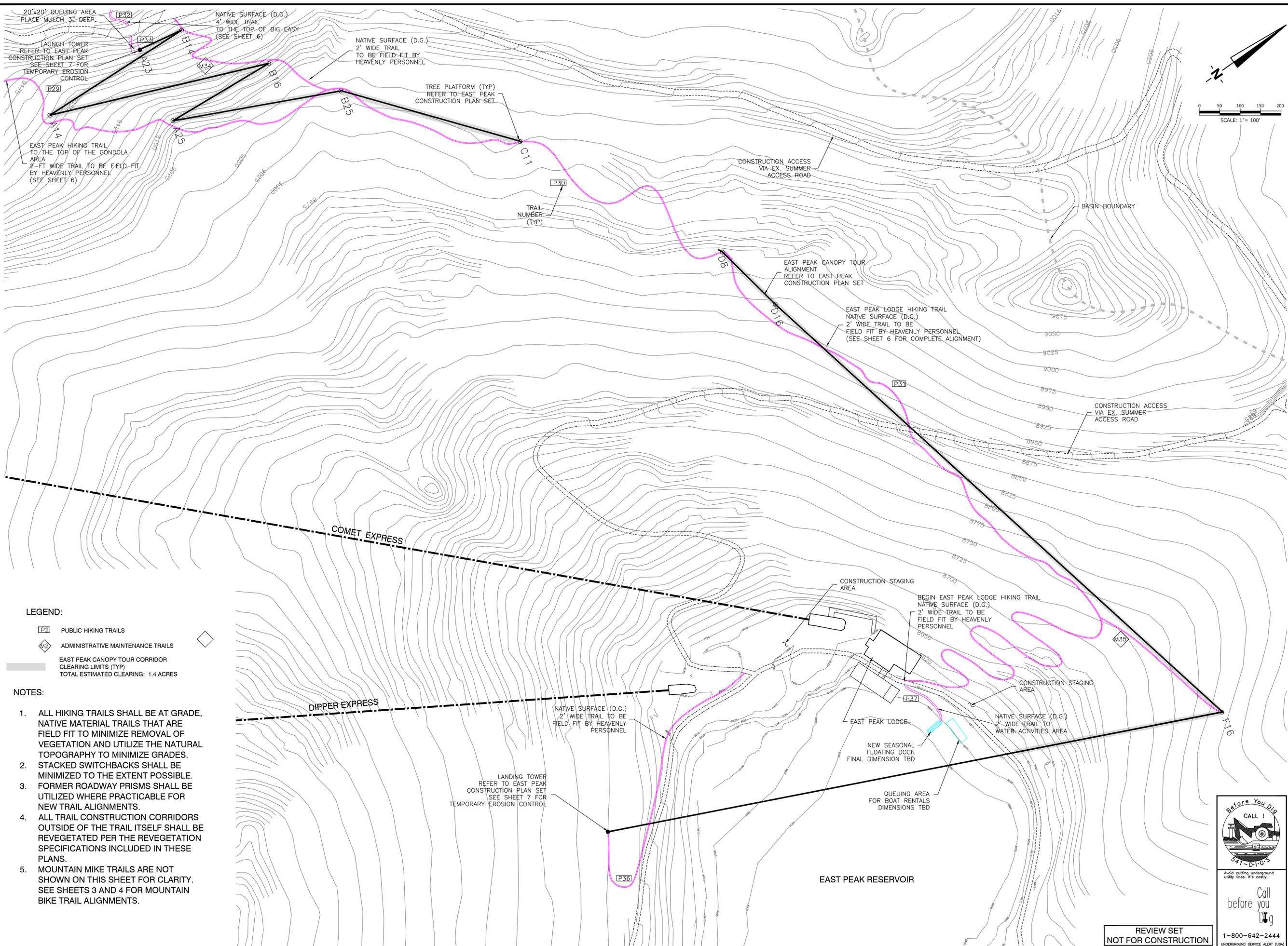
HEAVENLY MOUNTAIN RESORT
 East Peak Lake Basin Epic Discovery Activities
MOUNTAIN BIKE PARK TRAIL



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SHEET 3	



- LEGEND:**
- P2 PUBLIC HIKING TRAILS
 - M2 ADMINISTRATIVE MAINTENANCE TRAILS
 - EAST PEAK CANOPY TOUR CORRIDOR CLEARING LIMITS (TYP)
 - TOTAL ESTIMATED CLEARING: 1.4 ACRES

- NOTES:**
1. ALL HIKING TRAILS SHALL BE AT GRADE, NATIVE MATERIAL TRAILS THAT ARE FIELD FIT TO MINIMIZE REMOVAL OF VEGETATION AND UTILIZE THE NATURAL TOPOGRAPHY TO MINIMIZE GRADES.
 2. STACKED SWITCHBACKS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
 3. FORMER ROADWAY PRISMS SHALL BE UTILIZED WHERE PRACTICABLE FOR NEW TRAIL ALIGNMENTS.
 4. ALL TRAIL CONSTRUCTION CORRIDORS OUTSIDE OF THE TRAIL ITSELF SHALL BE REVEGETATED PER THE REVEGETATION SPECIFICATIONS INCLUDED IN THESE PLANS.
 5. MOUNTAIN MIKE TRAILS ARE NOT SHOWN ON THIS SHEET FOR CLARITY. SEE SHEETS 3 AND 4 FOR MOUNTAIN BIKE TRAIL ALIGNMENTS.

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EAST PEAK CANOPY TOUR, PATHS, AND WATER ACTIVITIES

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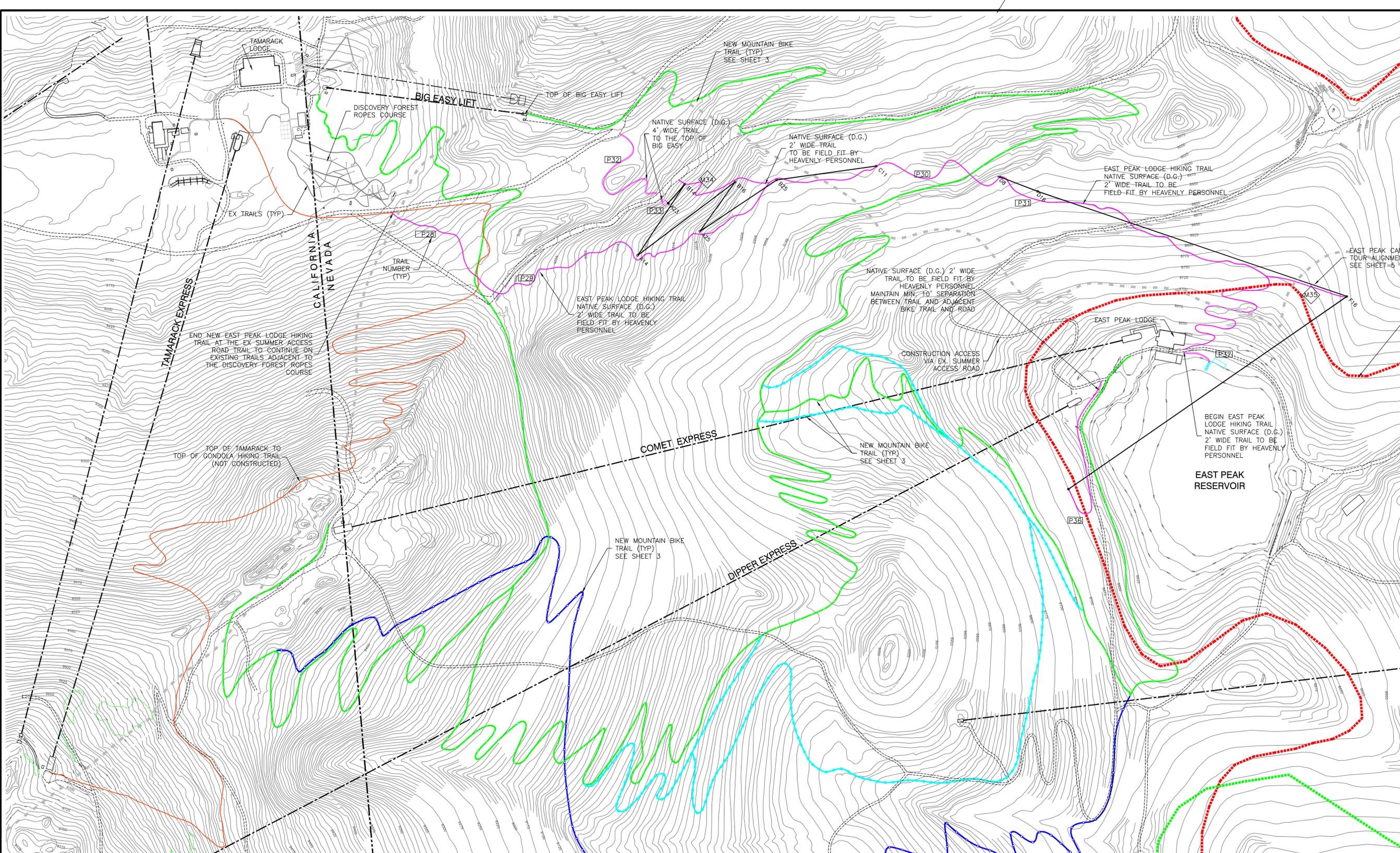
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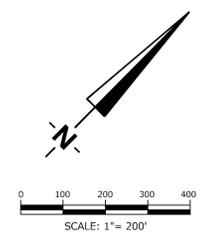
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- LEGEND:**
- P2 PUBLIC HIKING TRAILS
 - M2 ADMINISTRATIVE MAINTENANCE TRAILS

- NOTES:**
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- LEGEND:**
- MOUNTAIN BIKE BEGINNER TRAIL
 - MOUNTAIN BIKE INTERMEDIATE TRAIL
 - MOUNTAIN BIKE ADVANCED TRAIL
 - - - PANORAMA BIKE TRAIL
 - NEW HIKING TRAILS
 - TOP OF TAMARACK TO TOP OF GONDOLA TRAIL (NOT CONSTRUCTED)
 - EXISTING ROADS
 - EXISTING TRAILS



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847-DIG-5

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EAST PEAK LODGE HIKING TRAIL

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SHEET 6

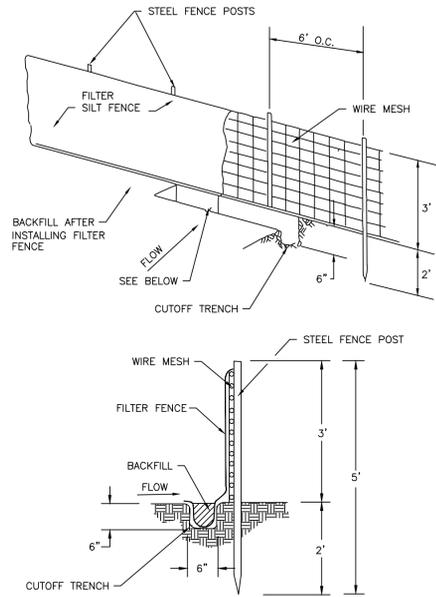
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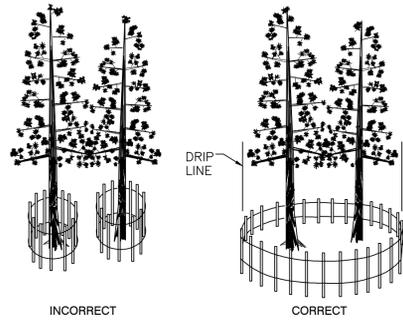
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- NOTES:
1. THE CONTRACTOR MAY USE MANUFACTURED FILTER FENCING IN LIEU OF THE ABOVE, SUBJECT TO SUBMITTAL OF MANUFACTURER'S DATA SHEETS TO THE ENGINEER FOR APPROVAL.
 2. WIRE MESH CAN BE DELETED IF POST SPACING IS REDUCED TO 4-FOOT O.C.
 3. ENDS OF RUN OF FILTER FENCE SHALL BE TURNED UPHILL TO FORM A 'J'.

TEMPORARY EROSION CONTROL TYPICAL FILTER FENCE

NO SCALE

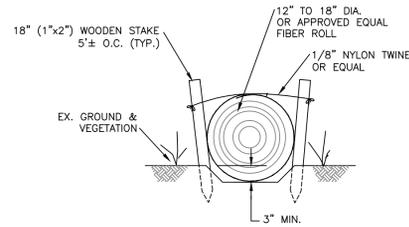


INCORRECT CORRECT
TREE PROTECTION FENCING

- NOTE:
1. TEMPORARY FENCING TO BE A MINIMUM OF 4' HIGH.
 2. POSTS TO BE SET AT A MINIMUM OF 6' ON CENTERLINE FROM EACH OTHER.
 3. FENCING MATERIALS TO BE APPROVED BY THE ENGINEER.

TEMPORARY EROSION CONTROL TREE PROTECTION DETAIL

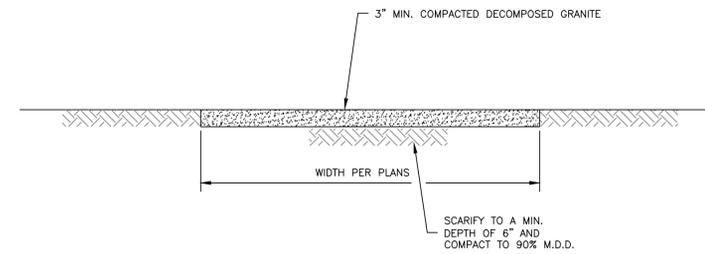
NO SCALE



- NOTES:
1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 6" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
 2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. FIBER MATERIAL SHALL BE BIODEGRADABLE WEED-FREE STRAW, JUTE, COIR, OR EXCELSIOR. MATERIALS REQUIRE TRPA AND U.S. FOREST SERVICE APPROVAL PRIOR TO INSTALLATION.

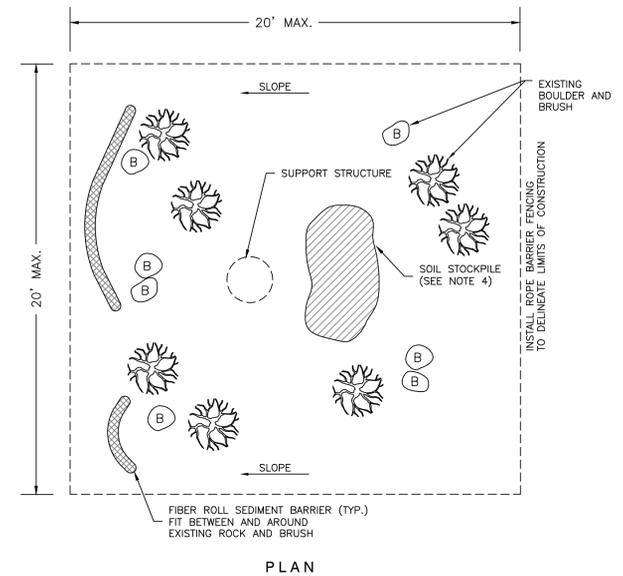
TEMPORARY SEDIMENT BARRIER FIBER ROLLS

NO SCALE

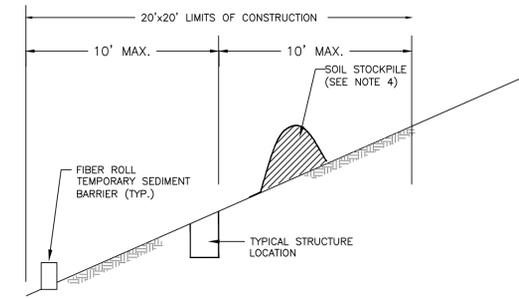


NATIVE SURFACE (DG) TRAIL DETAIL

NO SCALE



PLAN



ELEVATION

ZIPLINE GENERAL NOTES:

1. THERE SHALL BE A 20 FOOT BY 20 FOOT MAXIMUM CLEARING AROUND EACH ZIPLINE SUPPORT STRUCTURE.
2. ALL DISTURBED AREAS SHALL BE REVEGETATED PER THE REVEGETATION SPECIFICATIONS INCLUDED IN THESE PLANS. ANY VEGETATIVE DEBRIS FROM THE SITE SHALL BE CHIPPED AND/OR RE-SCATTERED OVER THE DISTURBED AREA.
3. SEZ AREAS WILL BE FLAGGED IN THE FIELD SO THAT THEY ARE CLEARLY VISIBLE DURING CONSTRUCTION.
4. STRUCTURE FOUNDATION EXCAVATION AND STRUCTURE PLACEMENT WILL BE COMPLETED USING HELICOPTERS TO MINIMIZE THE AMOUNT OF DISTURBANCE AT THE SITE. AFTER THE STRUCTURE HAS BEEN PLACED, ANY REMAINING SOIL FROM THE FOUNDATION EXCAVATION SHALL BE SPREAD WITHIN THE 20-FT X 20-FT CONSTRUCTION LIMITS. THESE AREAS SHALL BE REVEGETATED PER THE REVEGETATION SPECIFICATIONS INCLUDED IN THESE PLANS.

TEMPORARY EROSION CONTROL FOR STRUCTURE CONSTRUCTION

NOT TO SCALE

REVIEW SET
NOT FOR CONSTRUCTION

EROSION CONTROL NOTES

1. FOR ALL USE OF THE STAGING AREA WHEN SNOW COVER IS NOT PRESENT, HEAVENLY SHALL HAVE ALL TEMPORARY EROSION CONTROL MEASURES IN PLACE AND APPROVED BY TRPA. HEAVENLY SHALL INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND/OR EROSION. AFTER A RAINSTORM, ALL SILT AND DEBRIS MUST BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES, AND ANY DAMAGED EROSION CONTROL MEASURES MUST BE REPAIRED.
2. AN ONSITE INSPECTION BY TRPA STAFF IS REQUIRED PRIOR TO ANY CONSTRUCTION OR GRADING ACTIVITY. TRPA STAFF SHALL DETERMINE IF THE ONSITE CONSTRUCTION TEMPORARY EROSION CONTROL MEASURES HAVE BEEN PROPERLY INSTALLED. NO GRADING OR CONSTRUCTION SHALL COMMENCE UNTIL TRPA PRE-GRADE CONDITIONS OF APPROVAL ARE MET.
3. HEAVENLY SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN ALL CONSTRUCTION BMPS TO ENSURE PROPER WORKING CONDITIONS. ROADS USED DURING CONSTRUCTION WILL BE INSPECTED DAILY BY HEAVENLY FOR DRAINAGE AND GRADING. RUTS WILL BE REPAIRED IMMEDIATELY. WATERBARS, CULVERTS, AND DITCHES (DRAINAGE STRUCTURES) WILL BE MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION.
4. SEDIMENT BARRIERS AND CONSTRUCTION LIMIT FENCING WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE HEAVENLY FOR DAMAGE AND APPROPRIATE PLACEMENT. SEDIMENT BARRIERS SHALL BE REPAIRED AND/OR RELOCATED AS NEEDED ON A DAILY BASIS.
5. TEMPORARY BMP MEASURES SHALL BE IMPLEMENTED FOR ALL SUMMER IMPROVEMENT PROJECT LOCATIONS.
6. EXCAVATION SHALL NOT EXCEED 5-FEET BELOW GROUND SURFACE.
7. DISTURBED AREAS, ROADWAYS, AND STAGING AREAS USED DURING CONSTRUCTION SHALL BE SWEEPED AND PROVIDED WITH DUST ABATEMENT SUCH AS A WATER TRUCK AS NEEDED.
8. FOR ALL NATIVE TREES TO REMAIN, TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE DRIPLINE OF ALL TREES ADJACENT TO THE ROAD AND WORK AREAS, WHERE FEASIBLE, OR OTHER MEASURES DEEMED APPROPRIATE BY THE TRPA INSPECTOR.
9. HEAVENLY SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS.
10. TURNING OR MANEUVERING OF BACKHOE, EXCAVATOR OR OTHER EQUIPMENT WILL BE MINIMIZED TO REDUCE SOIL DISTURBANCE.
11. ALL BARREN AREAS AND AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE TRPA HANDBOOK OF BEST MANAGEMENT PRACTICES. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT.

REVEGETATION SPECIFICATIONS

PART 1. GENERAL

ALL AREAS DISTURBED DURING CONSTRUCTION OTHER THAN EXISTING ACCESS ROADS, INCLUDING ACCESS CORRIDORS, STORAGE AREAS, STAGING AREAS, AND CONSTRUCTION AREAS SHALL BE STABILIZED ACCORDING TO THESE SPECIFICATIONS. UPON COMPLETION OF GRADING AND CONSTRUCTION, AND PRIOR TO REVEGETATION, ALL AREAS TO BE REVEGETATED WILL BE INSPECTED BY THE ENGINEER'S REVEGETATION SPECIALIST (RS). THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE WORKING DAYS PRIOR TO PLANTING TO SCHEDULE THE REQUIRED INSPECTION. FINAL SEEDING AND MULCH TREATMENT AREAS WILL BE STAKED IN THE FIELD AT THAT TIME. REVEGETATION TREATMENTS PERFORMED BY AN OUTSIDE CONTRACTOR SHALL NOT BE INITIATED WITHOUT THE APPROVAL OF THE ENGINEER. REVEGETATION PERFORMED BY HEAVENLY PERSONNEL NEED NOT BE APPROVED BY THE ENGINEER OR THE REVEGETATION SPECIALIST PRIOR TO INITIATING REVEGETATION WORK.

STABILIZATION TREATMENTS SHALL BE INSTALLED AS PER THESE SPECIFICATIONS AND THE PLAN SHEETS AND SHALL CONSIST OF WOOD CHIP INCORPORATION INTO THE TOP 12 INCHES OF SOIL, SEEDING, AND PINE NEEDLE/WOOD CHIP MULCH APPLICATION.

PART 2. PRODUCTS AND EXECUTION OF TREATMENTS

SEED

SEED MIXTURES ARE SHOWN IN TABLE 1 ON THIS SHEET.

SEED SHALL BE CLEAN NEW CROP SEED, PURCHASED PREMIXED ON A PURE LIVE SEED (PLS) BASIS. SEED SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINERS BEARING THE DEALER'S GUARANTEED ANALYSIS AND GERMINATION PERCENTAGE, AND SHALL MEET THE STATE OF CALIFORNIA FREEDOM FROM NOXIOUS WEED REQUIREMENTS. NO SUBSTITUTIONS IN THE SEED MIXTURE WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM THE RS.

SEED LABELS SHALL BE REMOVED FROM THE SEED SACKS BY THE RS AT THE TIME OF SEEDING. SEED LABELS WILL INCLUDE DOCUMENTATION FOR EACH TYPE OF SEED CERTIFYING THAT A RECOGNIZED LABORATORY TESTED THE SEED WITHIN 6 MONTHS OF THE DATE OF DELIVERY.

Table 1. Seed Mix

Common Name Variety	Scientific Name	Seeding Rate Pure Live Seed Pounds Per Acre
Squirreltail (High elevation collection)	Elymus elymoides ssp. Elymoides (Sierra)	10
Mokelumne or El Dorado Brome (or other high elevation Tahoe collection)	Bromus carinatus (Mokelumne)	5
Western Needlegrass (or other high elevation Tahoe collection)	Achnatherum occidentale	3
Antelope Bitterbrush (+5500 ft. Sierra Collection)	Purshia tridentata	5
Sulfur-flower Buckwheat	Erigonum umbellatum	2
Total PLS Pounds Per Acre Rate		25

PART 2 (CONT.) PRODUCTS AND EXECUTION OF TREATMENTS

WOOD CHIPS

WOOD CHIPS SHALL BE PREPARED FROM TREES REMOVED DURING CONSTRUCTION AND MAINTENANCE ACTIVITIES ON HEAVENLY MOUNTAIN RESORT. TOPS AND BRANCHES OF TREES REMOVED ON THIS AND OTHER HEAVENLY MOUNTAIN RESORT PROJECT SITES WILL BE CHIPPED TO A MINIMUM DIAMETER OF 2 INCHES, AND A MAXIMUM LENGTH OF 6 INCHES.

PINE NEEDLES

PINE NEEDLES SALVAGED FROM THE CONSTRUCTION SITE CAN BE USED AS A MULCH MATERIAL. PINE NEEDLE MULCH SHALL BE WEED FREE AND CLEAN WITHOUT DEBRIS, OR EXCESSIVE WOODY MATERIAL.

SOIL TREATMENT

ALL AREAS TO BE STABILIZED (WITH AND WITHOUT SEEDING) SHALL BE LOOSENED TO A DEPTH OF AT LEAST 12 INCHES TO ALLEVIATE COMPACTION AND TO INCORPORATE WOOD CHIPS TO IMPROVE WATER INFILTRATION AND WATER HOLDING CAPACITY. A UNIFORM 3-INCH LAYER OF WOOD CHIPS SHALL BE SPREAD ACROSS THE SURFACE OF THE TREATMENT AREAS. WOOD CHIPS SHALL BE INCORPORATED INTO THE TOP 12 INCHES OF SOIL BY AN APPROVED LOOSENING METHOD. AREAS SHALL BE RAKED SMOOTH FOLLOWING WOOD CHIP INCORPORATION.

SEEDBED PREPARATION

AREAS DESIGNATED FOR SEEDING BY THE RS SHALL BE UNIFORMLY BROADCAST SEEDED WITH HAND OPERATED BROADCAST SEEDERS. THE CONTRACTOR SHALL PROVIDE THE RS A WRITTEN STATEMENT OR SITE DEMONSTRATION TO VERIFY THAT THE SEEDING BROADCAST EQUIPMENT HAS BEEN CALIBRATED TO THE SPECIFIED APPLICATION RATES. LARGE AND SMALL SIZE SEED AS INDICATED IN TABLE 1 SHALL BE BROADCAST IN SEPARATE APPLICATIONS. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW SEED TO BECOME WIND BORN. SEED SHALL NOT BE INCORPORATED AND APPLIED WITH HYDROMULCH. IMMEDIATELY FOLLOWING BROADCASTING, THE SEEDED AREAS SHALL BE LIGHTLY HAND-RAKED TO PLACE THE SEED AT DEPTH OF 1/4 TO 1/2 INCH INTO THE SOIL. NO FURTHER VEHICULAR ACCESS WILL BE ALLOWED ON TREATMENT AREAS UPON COMPLETION OF SEEDING. SEEDINGS SHALL NOT BE LEFT OVERNIGHT WITHOUT RECEIVING MULCH TREATMENT.

PINE NEEDLE/ WOOD CHIP MULCH

ALL SEEDED AREAS SHALL BE MULCHED WITH PINE NEEDLES OR WOOD CHIPS. PINE NEEDLE MULCH SHALL BE SPREAD ACROSS SEEDED AREAS IN A LOOSE 2" LAYER TO ACHIEVE A MINIMUM OF 90 PERCENT COVER.

UNSEEDED TREATMENT AREAS SHALL BE MULCHED WITH WOOD CHIPS SPREAD IN A UNIFORM 6 TO 8 INCH LAYER.

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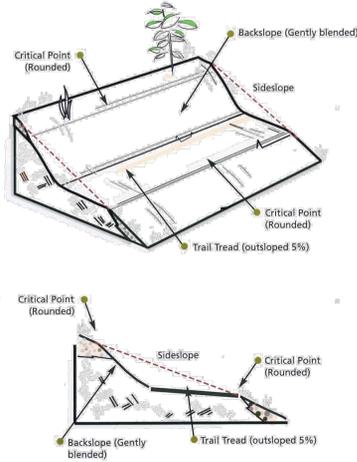
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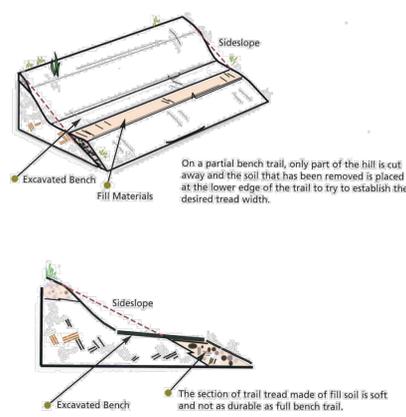
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Full Bench Trail



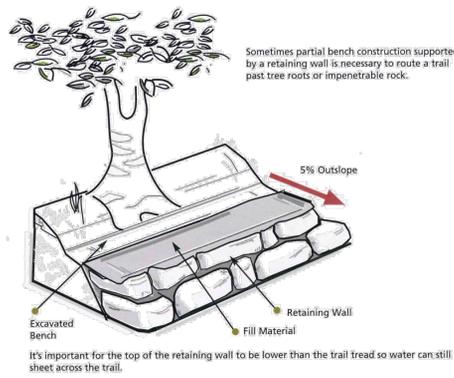
FULL BENCH TRAIL
NO SCALE

Partial Bench Trail



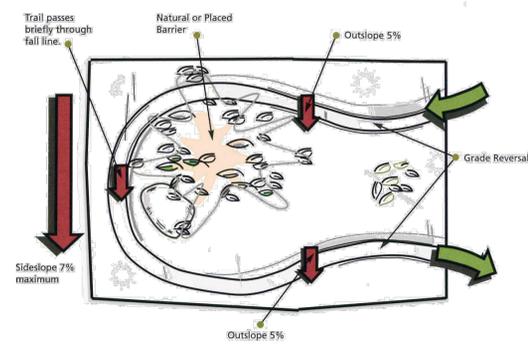
PARTIAL BENCH TRAIL
NO SCALE

Partial Bench Trail with Retaining Wall



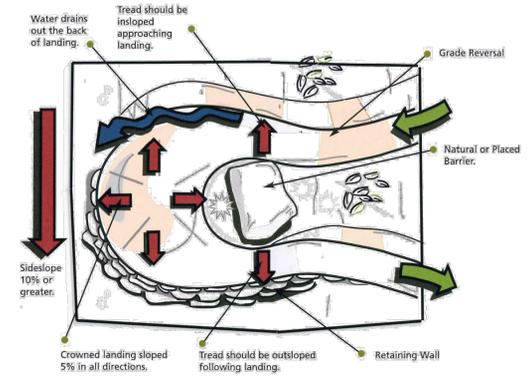
PARTIAL BENCH TRAIL WITH RETAINING WALL
NO SCALE

Climbing Turn



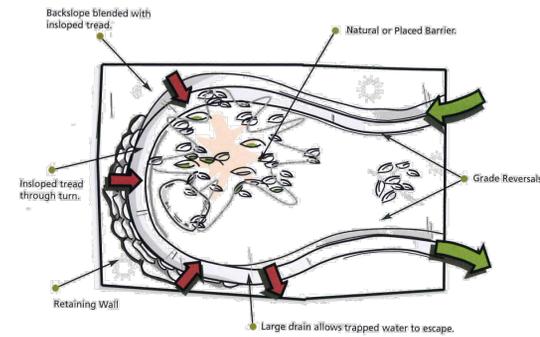
CLIMBING TURN
NO SCALE

Rolling Crown Switchback



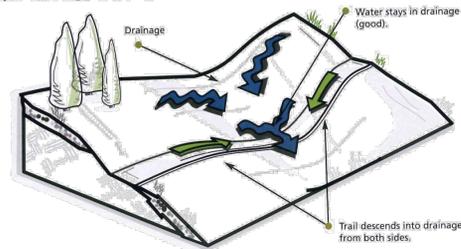
ROLLING CROWN SWITCHBACK
NO SCALE

Insloped Turn



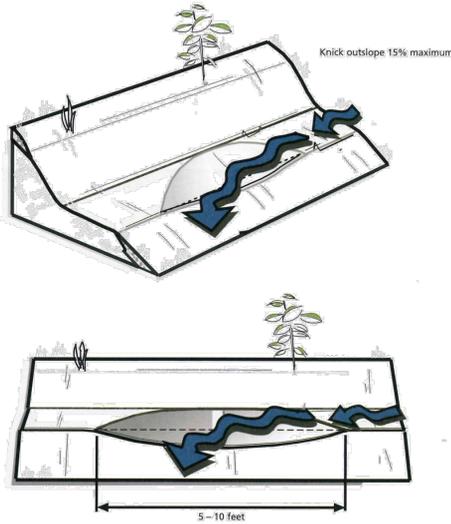
INSLOPED TURN
NO SCALE

Proper Drainage Crossing



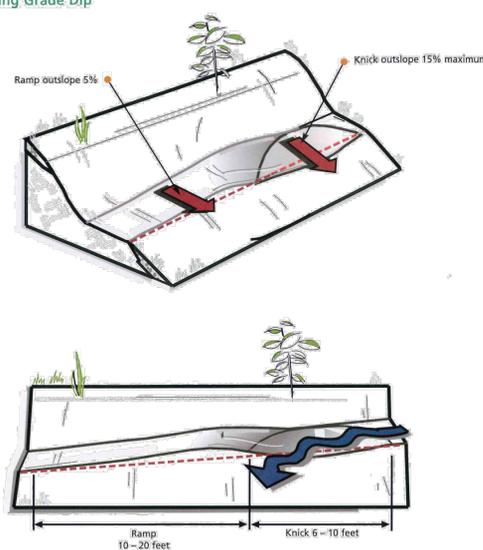
PROPER DRAINAGE CROSSING
NO SCALE

Knick



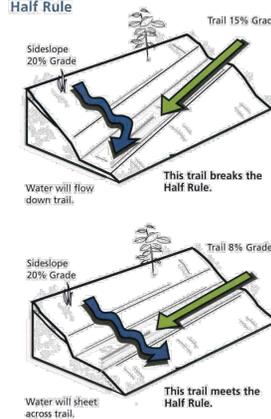
KNICKS
NO SCALE

Rolling Grade Dip

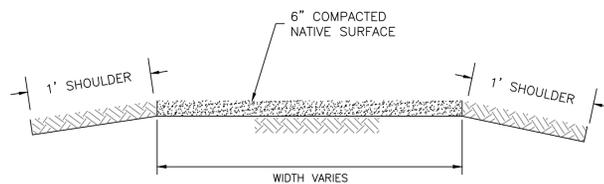


ROLLING GRADE DIP
NO SCALE

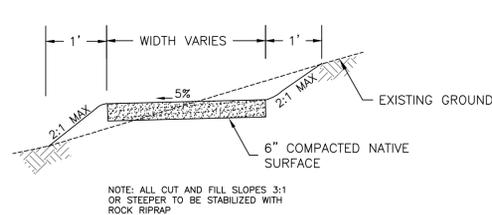
Half Rule



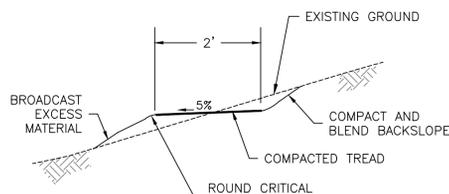
HALF RULE
NO SCALE



BEGINNER AND INTERMEDIATE MOUNTAIN BIKE TRAIL CROSS-SECTION AT GRADE CONSTRUCTION
NO SCALE



INTERMEDIATE AND ADVANCED MOUNTAIN BIKE TRAIL CROSS-SECTION CUT/FILL CONSTRUCTION
NO SCALE



ADVANCED MOUNTAIN BIKE TRAIL CROSS-SECTION CONSTRUCTED WITH HAND TOOLS
NO SCALE

NOTES:

1. SCHEMATIC DETAILS OBTAINED FROM "TRAIL SOLUTIONS, IMBA'S GUIDE TO BUILDING SWEET SINGLE TRACK", 2004, PUBLISHED BY THE INTERNATIONAL MOUNTAIN BIKING ASSOCIATION.
2. TRAIL CONSTRUCTION SHALL ADHERE TO U.S. FOREST SERVICE - REGION 6, U.S. CUSTOMARY SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF TRAILS, PACIFIC NORTHWEST REGION, DATED JULY 2005.
3. STACKED SWITCHBACKS SHALL BE MINIMIZED TO PREVENT RUNOFF AND EROSION ALONG BIKE TRAILS.
4. MOUNTAIN BIKE TRAILS SHOULD BE CONSTRUCTED WITH A MAXIMUM AVERAGE SLOPE OF 7%.
5. TRAIL DESIGN IS CONCEPTUAL AND BASED ON THE BEST INFORMATION AVAILABLE. TRAIL ALIGNMENT, GRADE, BERMS, AND FEATURES MAY BE MODIFIED AND "FIELD FIT" TO THE TERRAIN DURING CONSTRUCTION FOR CONSIDERATION OF EROSION CONTROL, SHORT-CUT PREVENTION, AND GUEST EXPERIENCE. BIKE TRAIL ALIGNMENT WILL BE FIELD FIT TO ENSURE BIKE TRAILS DO NOT INTERFERE WITH WINTER OPERATIONS.

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HEAVENLY MOUNTAIN RESORT
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TRAIL GRADING DETAILS

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