GREENWOOD PARK & KEALY WOODS

Welcome to our Online Lets Talk Public Consultation!











We received excellent feedback from the public during our first round of consultation completed March 9th, 2020. We have incorprated that feedback and are ready to share with the public.

Through this online forum, our goal is to share the proposed park management plan for Greenwood Park and Kealy Woods. Please review the slides, the interactive trail map, and our survey. Your responses will help inform the final plan for these important community assets.

The goals of this consultation is to receive your feedback on the park management plan including the;

- Proposed parks and trails plan
- Trail type classifications
- Concepts for the improved park entrances
- Proposed trail closures and restoration strategies
- Proposed strategy to remove, control and maintain invasive plants to acceptable occurrence levels
- Update on the park and community studies

city of north vancouver

What We Heard

Results from Public Consultation #1

The public consultation involved an open house on January 28th, 2 workshops with school aged children in early March, a build your own park activity as part of the annual Kids in the Hall event, and meetings with stakeholder groups.

For a complete consultation summary, please visit:
www.letstalk.cnv.org/greenwood-park-kealy-woods

103
SURVEYS COMPLETED

352
AWARE & CONSULTED

10
OTHER FORMS OF COMMUNICATION

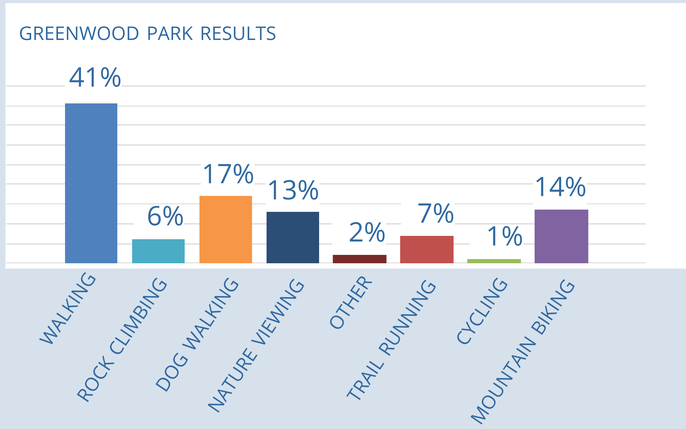


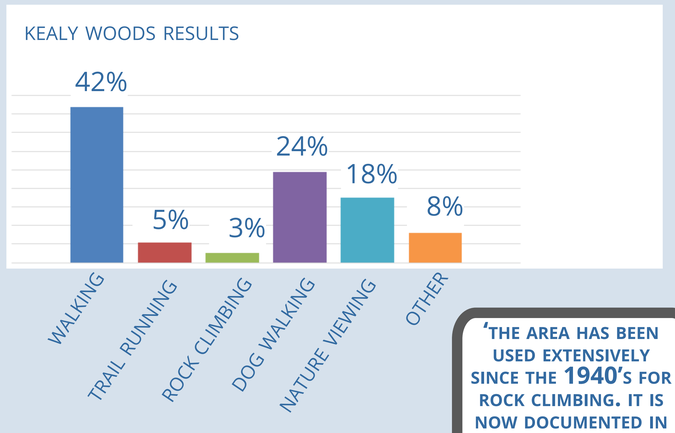




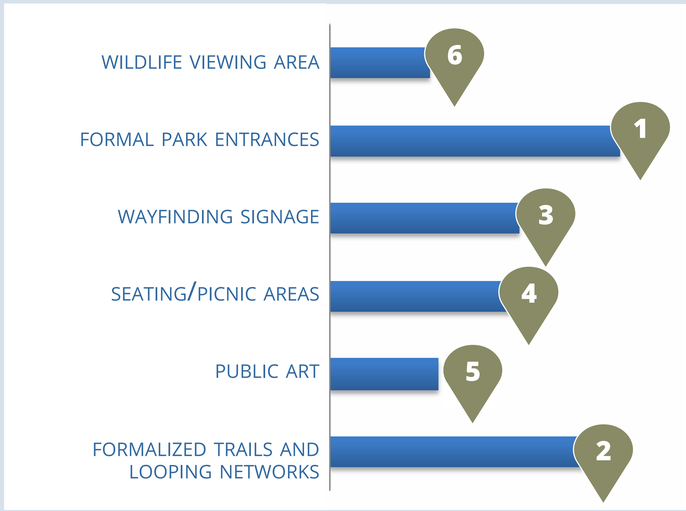


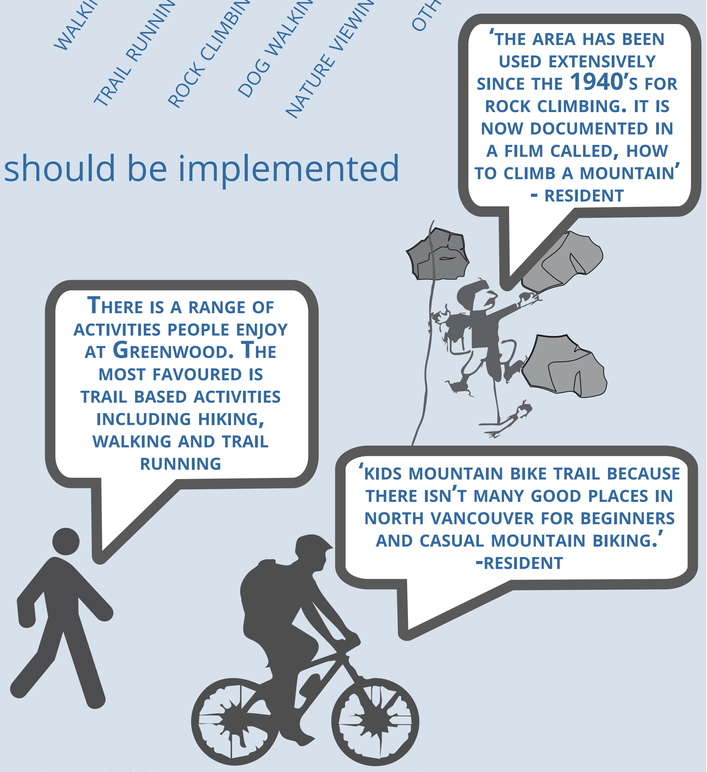
We asked what activities are currently enjoyed at Greenwood and Kealy Woods





We asked what pedestrian improvements should be implemented





We asked what recreational improvements should be implemented

OPEN HOUSE SURVEY RESULTS

	AGREE	NEUTRAL	DISAGREE
ADVENTURE CIRCUITS	14%	19%	67%
BEGINNER BIKE TRAIL	24%	10%	67%
FORMALIZED CLIMBING	23%	19%	58%
NATURE PLAY ELEMENTS	26%	17%	56%

SCHOOL CONSULTATIONS RESULTS

ADVENTURE CIRCUITS	1
BEGINNER BIKE TRAIL	2
FORMALIZED CLIMBING	4
NATURE PLAY ELEMENTS	3

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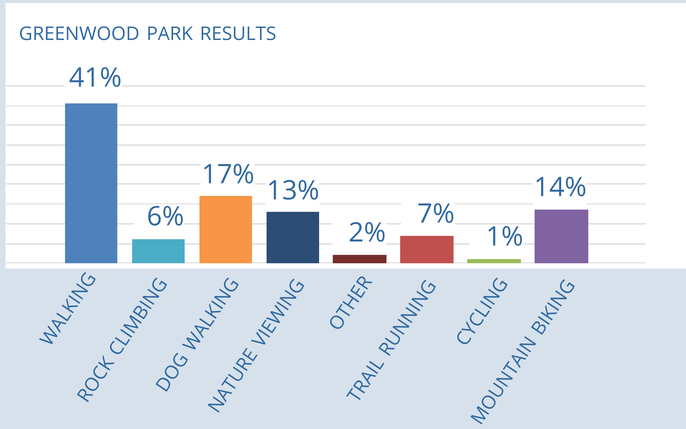


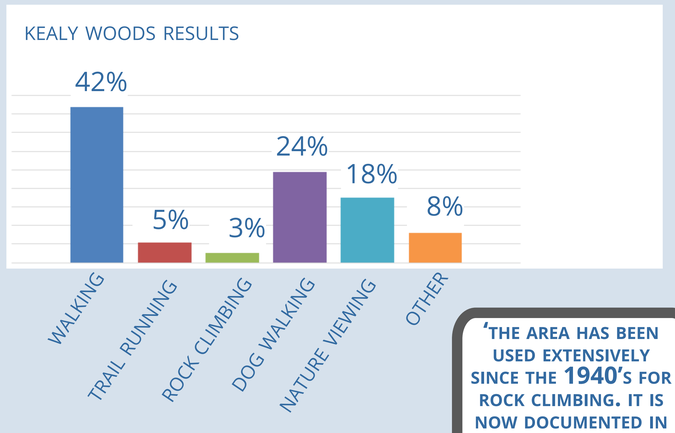




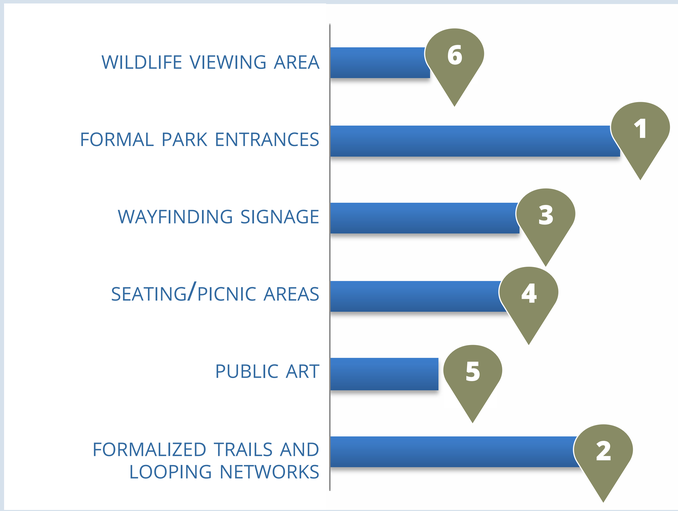
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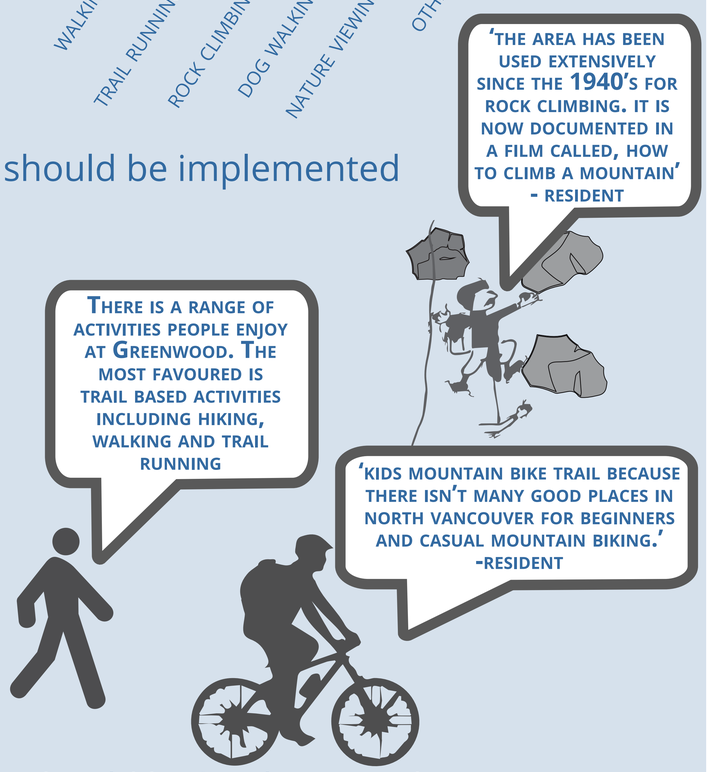
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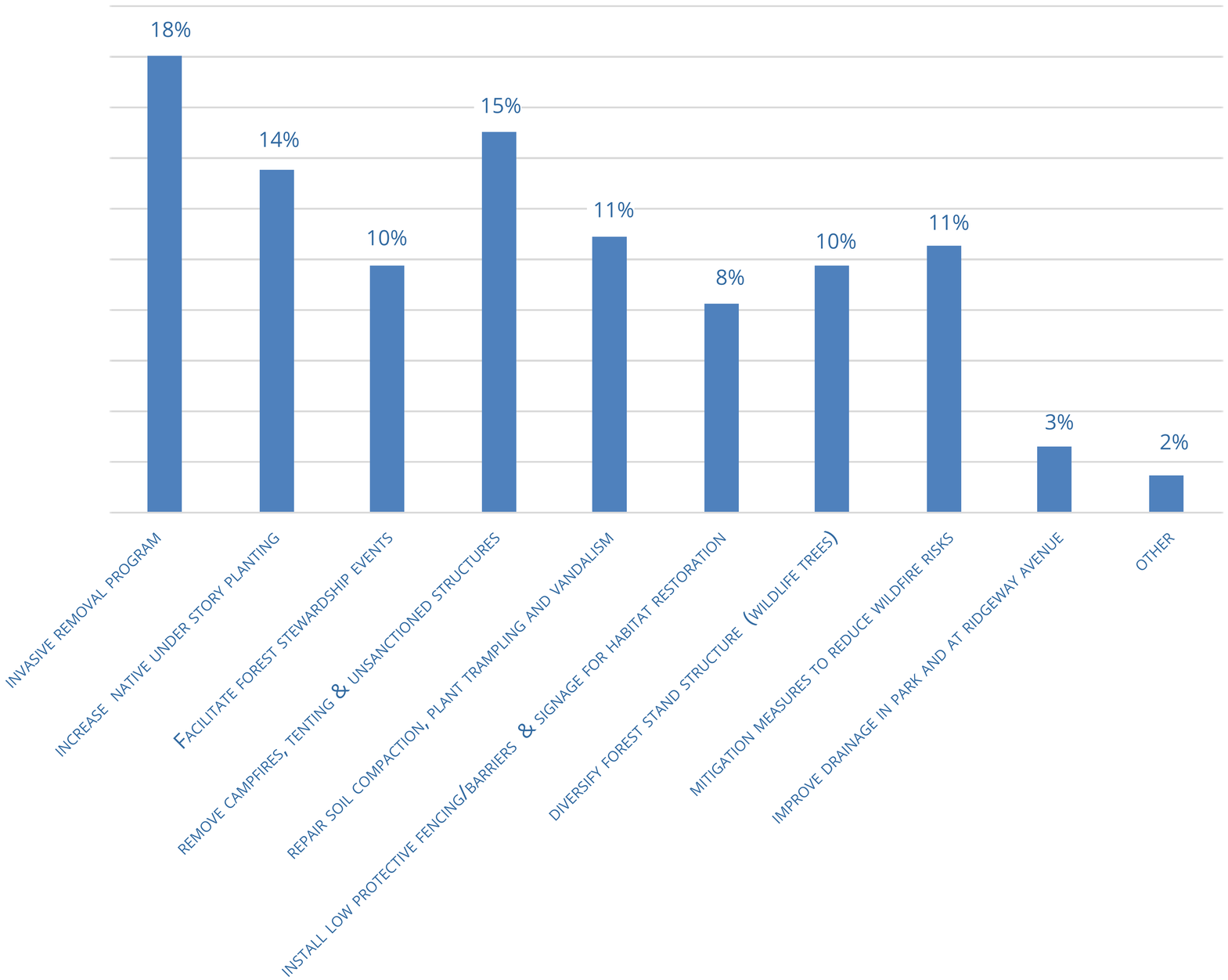
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What We Heard

Forest Health Improvements

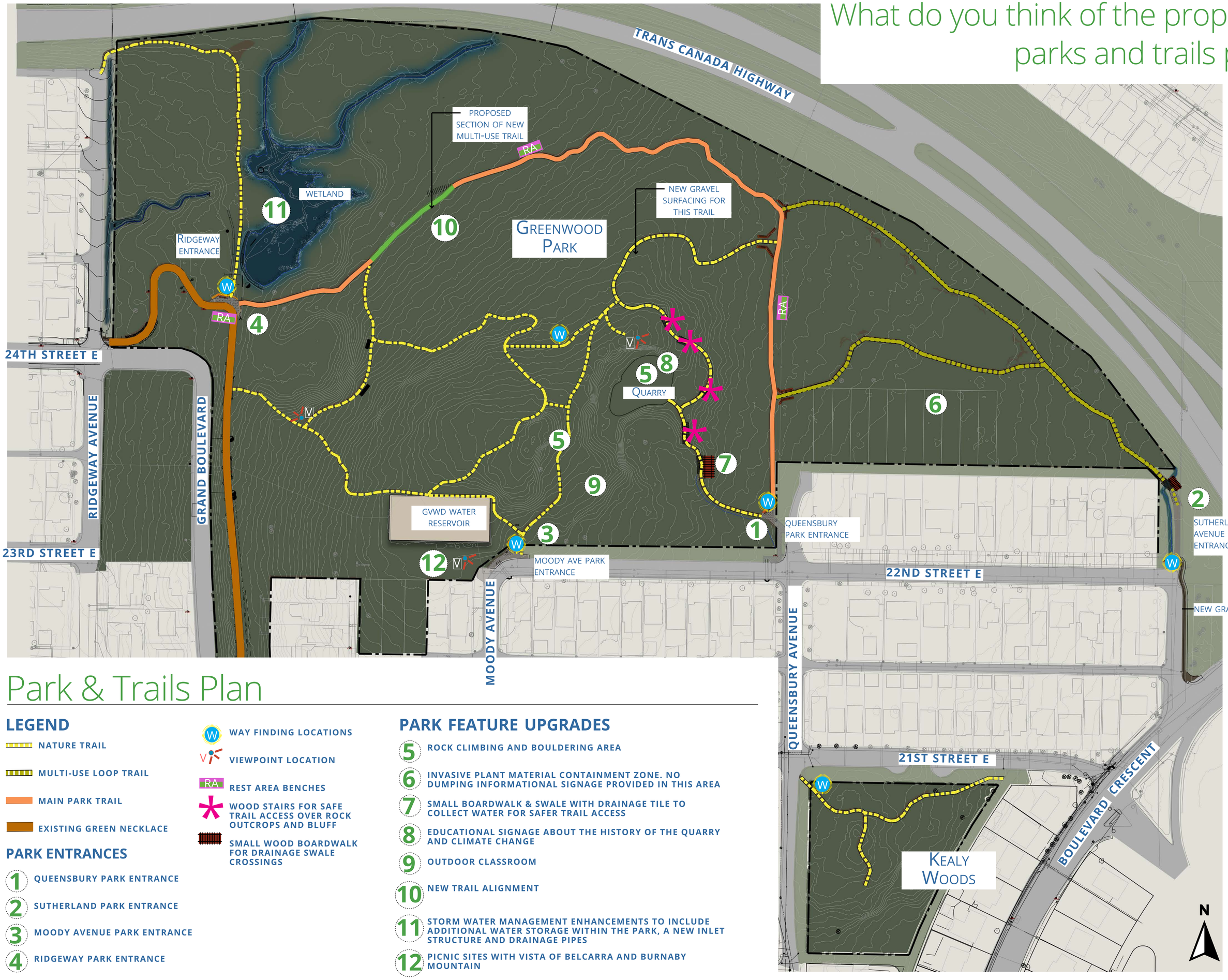
We asked your opinion on how we can better support forest health at these parks







What do you think of the proposed parks and trails plan?



Park & Trails Plan

LEGEND

- NATURE TRAIL
- MULTI-USE LOOP TRAIL
- MAIN PARK TRAIL
- EXISTING GREEN NECKLACE

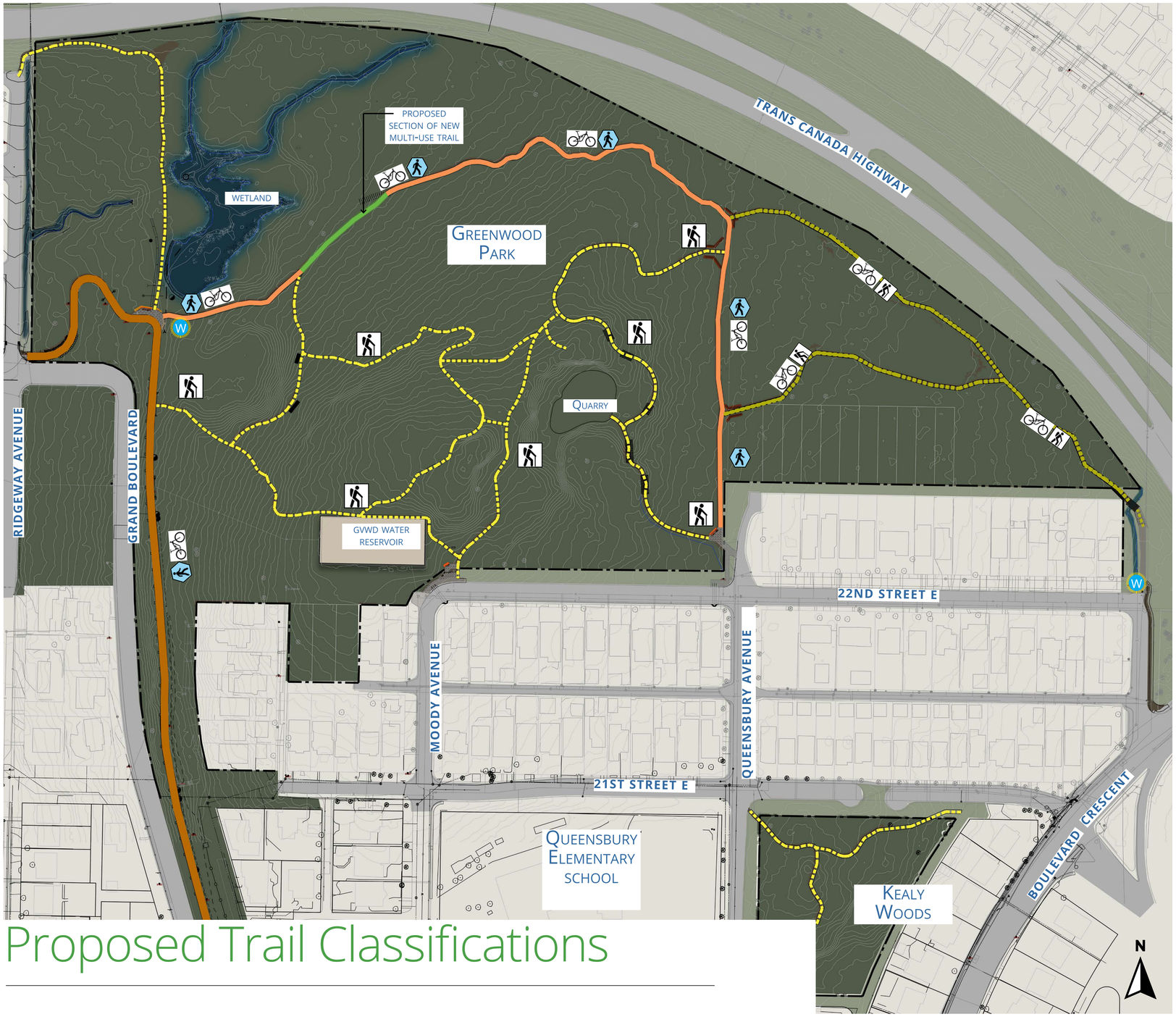
- WAY FINDING LOCATIONS
- VIEWPOINT LOCATION
- REST AREA BENCHES
- WOOD STAIRS FOR SAFE TRAIL ACCESS OVER ROCK OUTCROPS AND BLUFF
- SMALL WOOD BOARDWALK FOR DRAINAGE SWALE CROSSINGS

PARK ENTRANCES

1. QUEENSBURY PARK ENTRANCE
2. SUTHERLAND PARK ENTRANCE
3. MOODY AVENUE PARK ENTRANCE
4. RIDGEWAY PARK ENTRANCE

PARK FEATURE UPGRADES

5. ROCK CLIMBING AND BOULDERING AREA
6. INVASIVE PLANT MATERIAL CONTAINMENT ZONE. NO DUMPING INFORMATIONAL SIGNAGE PROVIDED IN THIS AREA
7. SMALL BOARDWALK & SWALE WITH DRAINAGE TILE TO COLLECT WATER FOR SAFER TRAIL ACCESS
8. EDUCATIONAL SIGNAGE ABOUT THE HISTORY OF THE QUARRY AND CLIMATE CHANGE
9. OUTDOOR CLASSROOM
10. NEW TRAIL ALIGNMENT
11. STORM WATER MANAGEMENT ENHANCEMENTS TO INCLUDE ADDITIONAL WATER STORAGE WITHIN THE PARK, A NEW INLET STRUCTURE AND DRAINAGE PIPES
12. PICNIC SITES WITH VISTA OF BELCARRA AND BURNABY MOUNTAIN



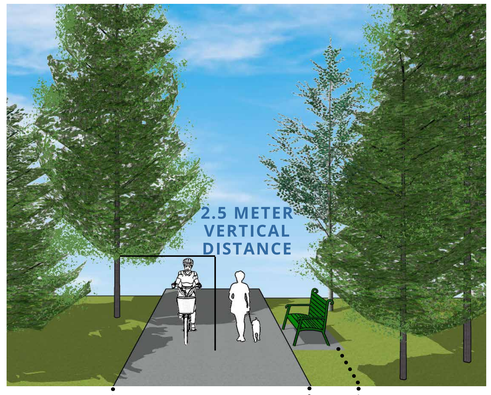
Proposed Trail Classifications

LEGEND	NAME	WIDTH	SURFACE	TYPE OF USE	LEVEL OF USE	LONGITUDAL SLOPE
	Green Necklace	3 meters	Asphalt paved surface	Walking, jogging, cycling, strollers wheelchairs, maintenance vehicles with low level lighting	High	Maximum 8% (1:12)
	Main Park Trail	2-3 meters	Well compacted gravel	Walking, jogging, cylcing, maintenance vehicles	High	Maximum 8% (1:12), otherwise 10% (1:10)
	Multi-use Loop Trail	1- 2 meters	Gravel where needed, compacted soil surface, hard surfaced, wood ramps where needed	Walking, jogging, mountain biking	High-moderate	Maximum 8% (1:12) where possible, otherwise 15% (1:7)
	Nature Trail	1-2 meters	Compacted soil surface, boardwalks and stairs where needed	Walking, jogging, hiking. Mountain biking not permitted	Low-moderate	Maximume 20% (1:5), otherwise some difficult sections are 40% (1:2.5)

SUITABLE FOR MOUNTAIN BIKING AND HIKING

SUITABLE FOR HIKING ONLY

SUITABLE WALKING, JOGGING, BABY STROLLERS, AND HIKING





MAIN PARK TRAIL SECTION & PHOTO EXAMPLE





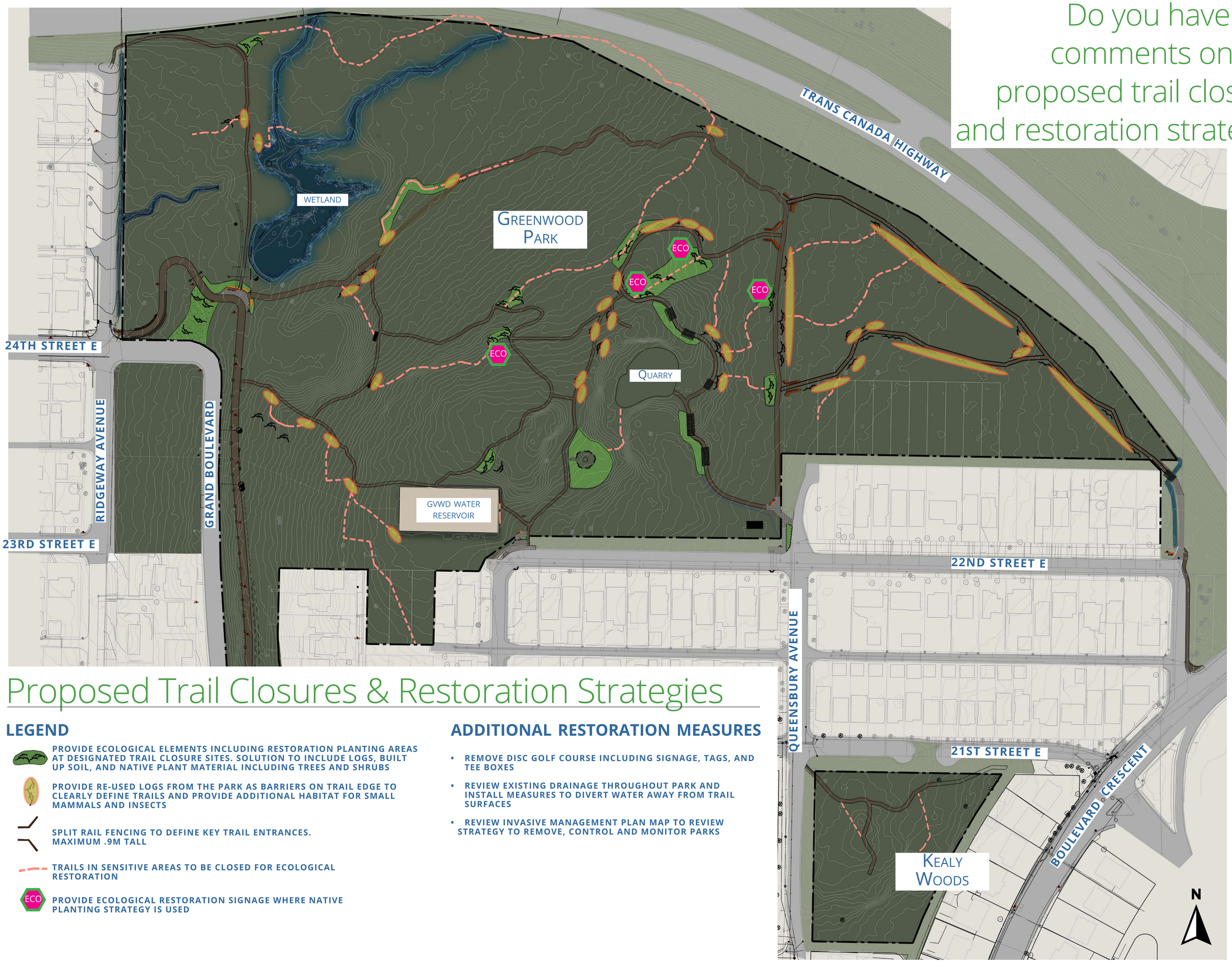
MULTI-USE LOOP TRAIL & PHOTO EXAMPLE





NATURE TRAILS SECTION & PHOTO EXAMPLE

Do you have any comments on the proposed trail closure and restoration strategy?



Proposed Trail Closures & Restoration Strategies

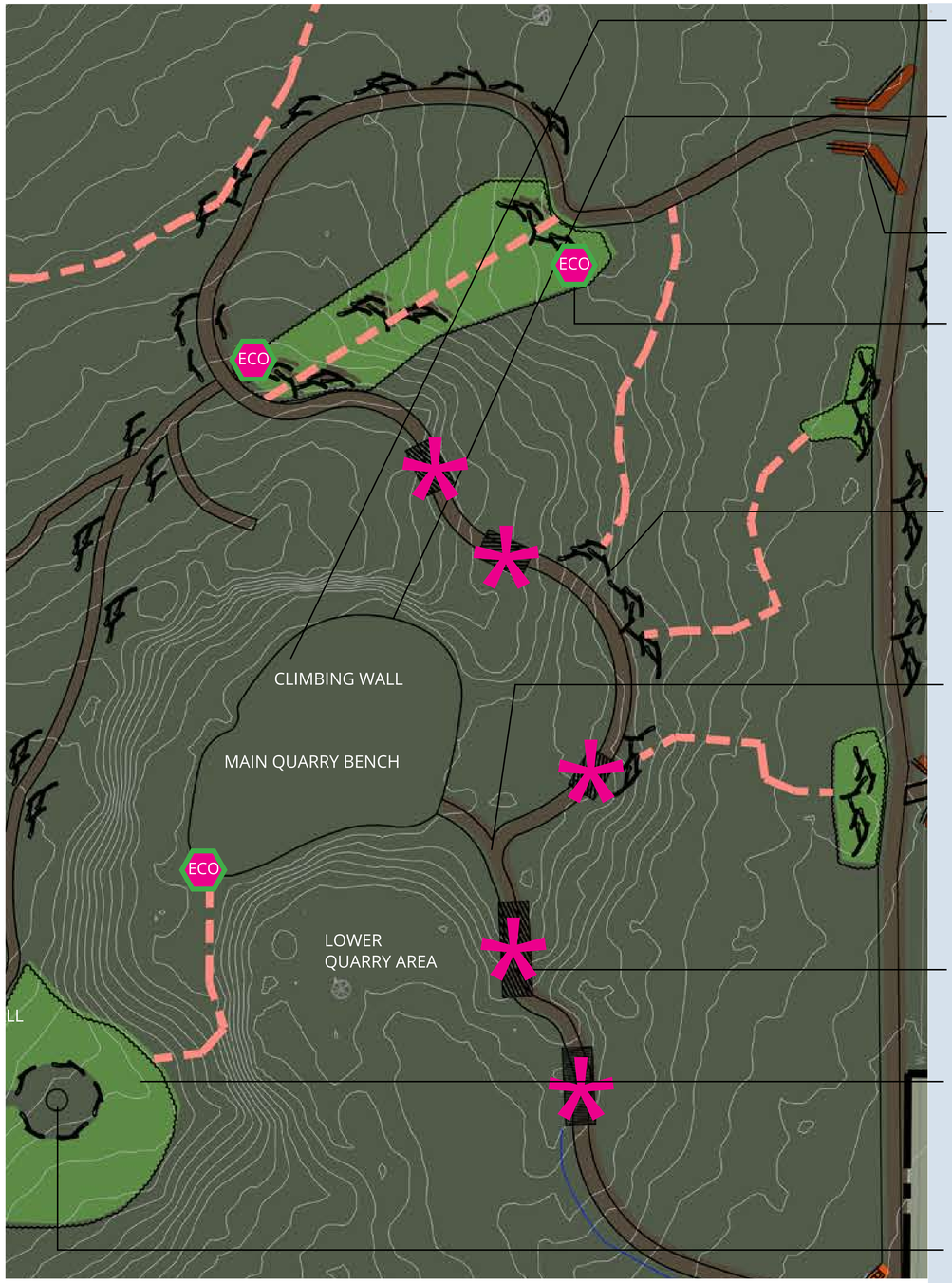
LEGEND

- PROVIDE ECOLOGICAL ELEMENTS INCLUDING RESTORATION PLANTING AREAS AT DESIGNATED TRAIL CLOSURE SITES. SOLUTION TO INCLUDE LOGS, BUILT UP SOIL, AND NATIVE PLANT MATERIAL INCLUDING TREES AND SHRUBS
- PROVIDE RE-USED LOGS FROM THE PARK AS BARRIERS ON TRAIL EDGE TO CLEARLY DEFINE TRAILS AND PROVIDE ADDITIONAL HABITAT FOR SMALL MAMMALS AND INSECTS
- SPLIT RAIL FENCING TO DEFINE KEY TRAIL ENTRANCES. MAXIMUM .9M TALL
- TRAILS IN SENSITIVE AREAS TO BE CLOSED FOR ECOLOGICAL RESTORATION
- PROVIDE ECOLOGICAL RESTORATION SIGNAGE WHERE NATIVE PLANTING STRATEGY IS USED

ADDITIONAL RESTORATION MEASURES

- REMOVE DISC GOLF COURSE INCLUDING SIGNAGE, TAGS, AND TEE BOXES
- REVIEW EXISTING DRAINAGE THROUGHOUT PARK AND INSTALL MEASURES TO DIVERT WATER AWAY FROM TRAIL SURFACES
- REVIEW INVASIVE MANAGEMENT PLAN MAP TO REVIEW STRATEGY TO REMOVE, CONTROL AND MONITOR PARKS

Site Specific Restoration



CITY TO PARTNER WITH LOCAL CLIMBING GROUPS TO PROVIDE CLIMBING RULES AND ROUTE INFORMATION

CLEAN AND REMOVE GRAFFITI ON QUARRY FACE WALL

SPLIT RAIL FENCE FEATURES AT KEY TRAIL ENTRANCE POINTS

AREA TO BE RE-VEGETATED. PROVIDE LOGS AT THE TOP AND BOTTOM OF SLOPE. PROVIDE EDUCATION SIGNAGE ON ECOLOGICAL RESTORATION AND TRAIL CLOSURE INFORMATION

LOG BARRIERS. STACK LOGS ALONG THE TRAIL WHERE DESIRE LINES AND BRAIDED TRAILS APPEAR. SEE DETAILS THIS SHEET

WHERE TRAIL CHANGES DIRECTION, PROVIDE OPENING IN LOGS AND INSTALL CRUSHED GRAVEL AT TRAIL INTERSECTION

PROVIDE WOOD STAIRS WHERE NEEDED FOR STEEP SECTIONS OF EXPOSED BEDROCK AND BLUFF

TARGET AREAS NEAR THE OUTDOOR CLASSROOM FOR INVASIVE REMOVAL AND RE-VEGETATION WITH LOCAL STUDENTS

PROVIDE LOG BENCHES AND BOULDERS IN CIRCULAR PATTERN FOR OUTDOOR CLASSROOM AREA













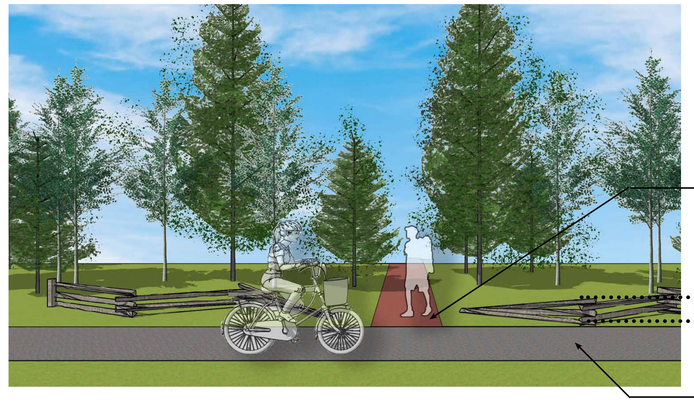
LEGEND

PLANTING AREAS AT DESIGNATED TRAIL CLOSURE SITES. SOLUTION TO INCLUDE LOGS, BUILT UP SOIL, AND NATIVE PLANT MATERIAL INCLUDING TREES AND SHRUBS

ECO — PROVIDE ECOLOGICAL RESTORATION SIGNAGE WHERE NATIVE PLANTING STRATEGY IS USED

WHERE BEDROCK AND BLUFFS ARE EXPOSED AND IMPASSIBLE, SECURE WOOD STAIRS FOR TRAIL ACCESS

TRAILS IN SENSITIVE AREAS TO BE CLOSED FOR ECOLOGICAL RESTORATION

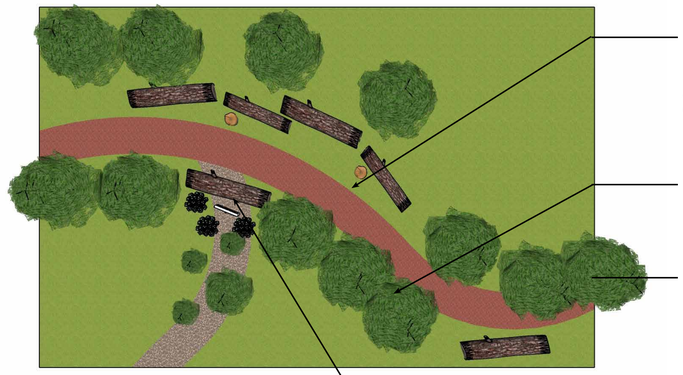


NATURE TRAIL

0.9 METER TALL SPLIT RAIL FENCE AT KEY TRAIL ENTRANCE POINTS

3 METER WIDE MULTI-USE TRAIL

SPLIT RAIL FENCE- TRAIL ENTRANCE FEATURES



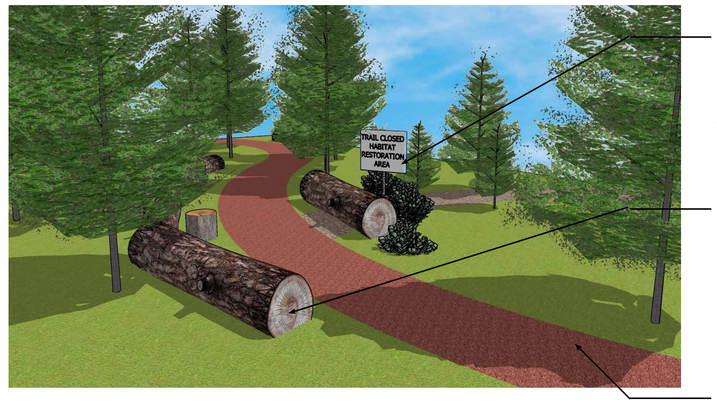
PROVIDE LOGS ALONG EDGE OF PATH WHERE TRAIL CLOSURES ARE PLANNED AND/ OR WHERE TRAIL DEFINITION IS REQUIRED

NATURE TRAIL

EXISTING TREES TO BE MAINTAINED

TRAILS TO BE CLOSED TO HAVE LOGS AND PLANTINGS AND SIGNAGE ONLY WHERE NEEDED

LOG BARRIER- PLAN



TRAILS TO BE CLOSED PROVIDE NEW PLANTINGS, LOG BARRIERS AND SIGNAGE ONLY WHERE NEEDED

LOG BARRIERS ONLY WHERE NEEDED TO DISCOURAGE BRAIDED TRAIL USE

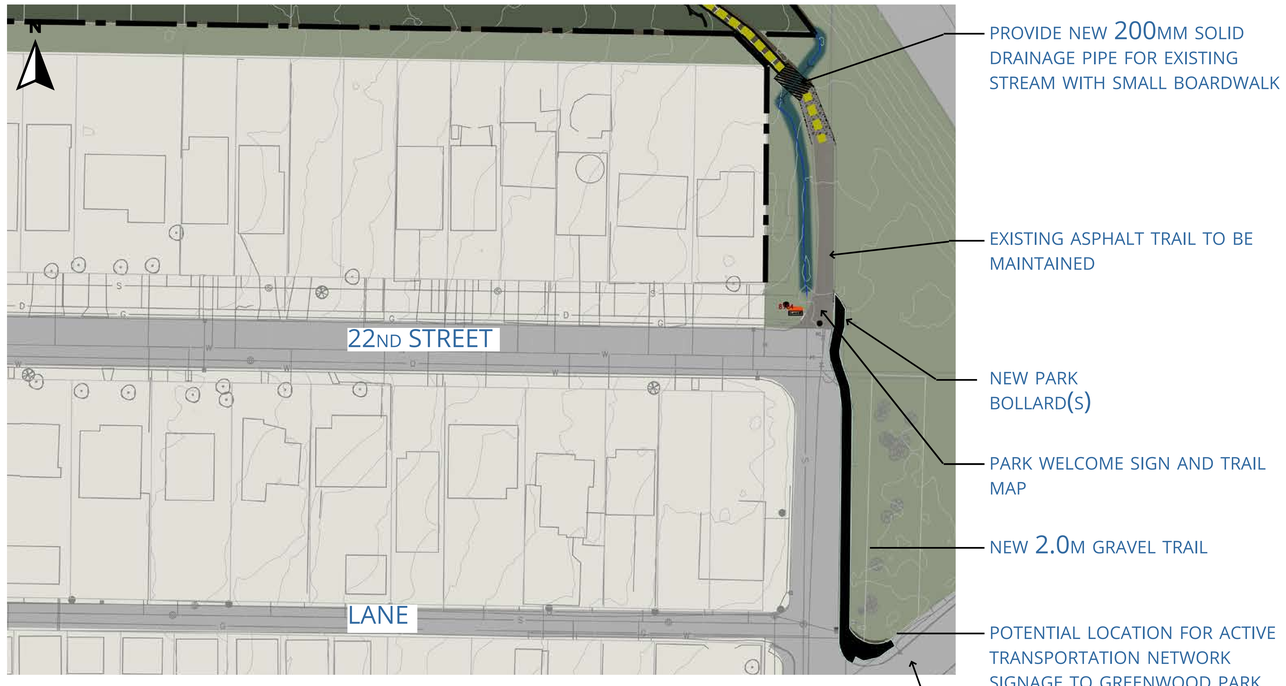
EXISTING NATURE TRAIL TO REMAIN

LOG BARRIER- SECTION

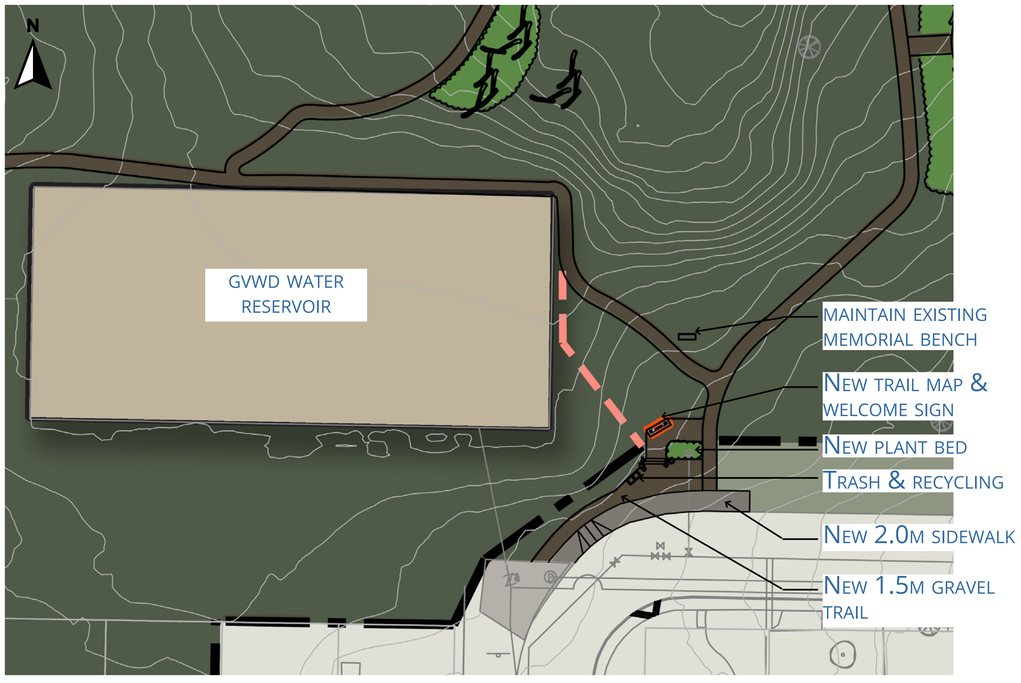
Greenwood Park Entrance Improvements



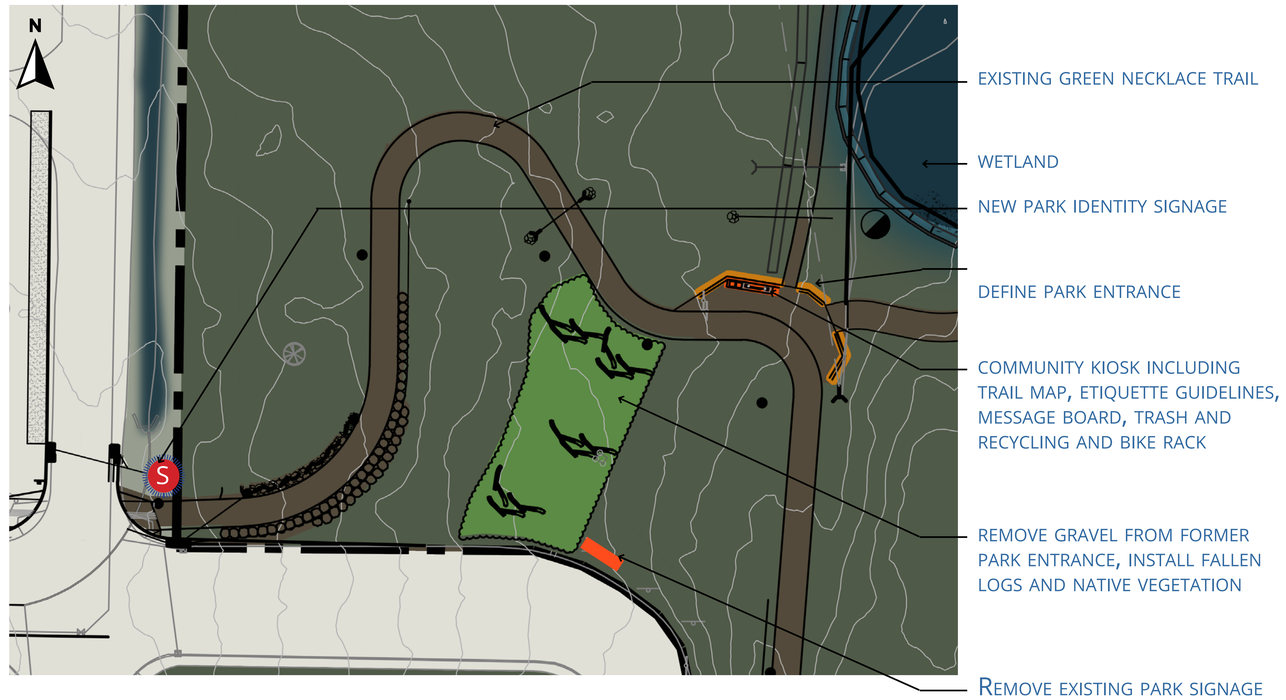
1 QUEENSBURY PARK ENTRANCE - PRIMARY ENTRANCE - ENLARGEMENT 'A'



2 SUTHERLAND PARK ENTRANCE - SECONDARY ENTRANCE - ENLARGEMENT 'B'



3 MOODY AVENUE PARK ENTRANCE - SECONDARY ENTRANCE - ENLARGEMENT 'C'



4 23RD STREET PARK ENTRANCE - PRIMARY ENTRANCE - ENLARGEMENT 'D'

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Invasive Plant Management and Restoration Plan



LEGEND:

- SITE AREA
- LEGAL PARCELS
- ROCK BLUFF

RESTORATION TYPE:

- VOLUNTEER RESTORATION AREAS
- INVASIVE TREE TREATMENT AREAS
- HIGH PRIORITY- CNV NATURAL AREAS CREW
- MODERATE PRIORITY- CNV NATURAL AREAS CREW
- LOW PRIORITY - CNV NATURAL AREAS CREW
- LOW PRIORITY - CONTAINED

REVEGETATION PLANT LIST

TREE LAYER

PSEUDOTSUGA MENZIESII	DOUGLAS-FIR
ACER MACROPHYLLUM	BROADLEAF MAPLE
ABIES GRANDIS	GRAND FIR
RHAMNUS PURSHIANA	CASCARA
HUJA PLICATA	WESTERN RED CEDAR

SHRUB LAYER

ACER CIRCINATUM	VINE MAPLE
SYMPHOCARPOS ALBUS	SNOWBERRY
PHILADELPHUS LEWISII	MOCK-ORANGE
CORYLUS CORNUTA	BEAKED HAZELNUT
GAULTHERIA SHALLON	SALAL
RIBES SANGUINEUM	RED FLOWERING CURRANT
POLYSTICHUM MUNITUM	SWORD FERN
OEMLERIA CERASIFORMIS	INDIAN PLUM
AMELANCHIER ALNIFOLIA	SASKATOON
MAHONIA NERVOSA	DULL OREGON-GRAPE
HOLODISCUS DISCOLOR	OCEAN SPRAY
ROSA GYMNOCARPA	BALDHIP ROSE

Would you like to help us restore and protect these natural areas?

VOLUNTEER WITH THE CITY OF NORTH VANCOUVER PARK STEWARDS!

Check out our webpage to sign up to get information on local events! www.cnv.org/cityparkstewards

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Moving Forward - Management Studies and Plans

Wildlife Study

We received input from the public on the types of wildlife observed in the parks including coyote, bear, and many bird species.

A list of 8 indicator wildlife species will be monitored over time for biodiversity and environmental change in the parks. The health of these populations will provide indications of the ecological health of the natural area.





- SPOTTED TOWHEE
- ANISE SWALLOWTAIL
- BLACK-THROATED GRAY WARBLER
- SWAINSON'S THRUSH
- BROWN CREEPER
- BARRED OWL
- PILEATED WOODPECKER
- DOUGLAS SQUIRREL

Drainage Plan

The drainage improvements will include channelizing run-off to direct water away from the existing trail surface near the quarry.

In the west portion of the site, improvements will include increased water capture and storage in the wetland area. Improvements will also include upgraded storm drainage infrastructure at Ridgeway Avenue.







Multi-UseTrail Impact Assessment & Partnership

An ecological assessment was conducted to review the potential impact of enhancing a multi-use trail in the east portion of Greenwood Park. A properly designed and constructed trail system through this area is expected to have a low environmental impact.

The City of North Vancouver is planning to partner with the North Shore Mountain Bike Association to provide community supported walk and bike trail build events.



nsmba
TRAILS FOR ALL, TRAILS FOREVER.



Wildfire Protection Plan

The Community Wildfire Protection Plan for the City of North Vancouver currently being developed with completion intended in the Winter of 2020. Recommendations include implementation of FireSmart Initiatives including public education, forest fuel load reduction, and adjacent neighbour prevention measures.

BRITISH COLUMBIA FireSmart



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Moving Forward

Action Plan & Recommendations

MANAGEMENT AND MONITORING	
1	Review and implement strategies for removal of trash, graffiti, and unsanctioned structures
2	Monitor trails and implement measures where necessary to establish official trails
3	Implement the phased invasive species removal plan including park stewards program
4	Remove disc golf course including signs and tags posted on trees
5	Implement drainage and utility improvements plan
6	Continue ongoing urban forest management including hazard tree assessment
7	Implement biodiversity strategies such as wildlife trees, habitat logs
8	Remove and repair identified hazards
9	Review and implement increase of bylaws city staff presence for animal control/dogs off-leash infractions
10	Implement strategies for wildfire risk reduction in the 'City wide Community Wildfire Protection Plan'
PLANNING	
11	Complete the Greenwood and Kealy Woods park and trails plan
12	Explore opportunities with Ministry of Transportation for a noise barrier wall
13	Collaborate with Queensbury elementary school to develop a nature-centric outdoor classroom
14	Explore opportunities to reduce width of Ridgeway Avenue and develop rain garden additions

RECREATIONAL IMPROVEMENTS	
15	Consider nature play opportunities (use natural materials found at parks)
16	Collaborate with North Shore Mountain Bike Association for planning and implementation of the multi-use loop trail including community trail build days
17	Complete detailed design and implement park entrance improvements including wayfinding and community signage
ENVIRONMENTAL ENHANCEMENTS, PROTECTION, AND PLANTING	
18	Identify and implement trail closures
19	Monitor indicator wild life species for impacts
20	Collaborate with Queensbury elementary school, Greenwood Park Forest Stewardship and City Park Stewards community groups for monitoring environmental condition of parks
21	Develop management strategy for plant communities listed of special concern
STEWARDSHIP & COMMUNICATIONS	
22	Encourage community neighborhood watch program with the Block Watch Society of BC
23	Encourage and collaborate with community groups for existing and new programming at the parks (walking clubs, kids events, school programs)
24	Encourage and collaborate with volunteers for CNV Stream keepers Program
25	Develop educational signage for historic quarry
26	Work with City Parks Stewards Coordinator to implement trail maintenance and park clean up events

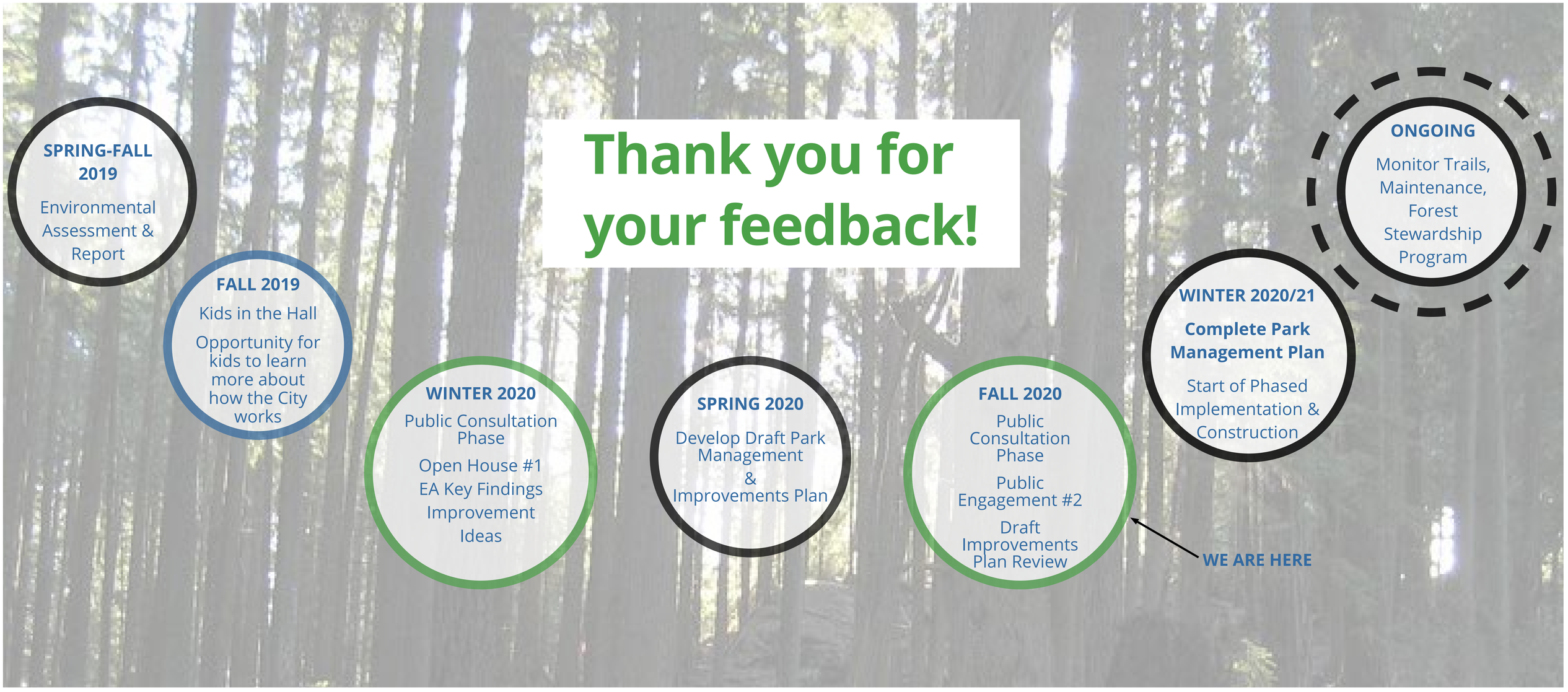
What do you think of our proposed action plan and recommendations?



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Next Steps

Project Timeline



Thank you for your feedback!

Your input will help inform finalizing the park management plan.
If you have additional questions, comments or want to receive project updates, please contact us at eng@cnv.org
Please complete the survey on our Public Engagement Tool at www.LetsTalk.cnv.org

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