PART 1 - GENERAL

- 1.1 SUMMARY
- A. Section Includes
- 1. Plants. 2. Planting soils.
- 3. Tree stabilization.
- 4. Landscape edgings.
- Related Sections:
- 1. Section 02819 "Underground Sprinkler Irrigation System."
- 1.2 DEFINITIONS
- A. Backfill: The earth used to replace or the act of replacing earth in an excavation.
- B. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required.
- C. Duff Layer: The surface layer of native topsoil that is composed of mostly decayed leaves, twigs, and detritus.
- D. Finish Grade: Elevation of finished surface of planting soil.
- E. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil. F. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or
- mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- G. Pests: Living organisms that occur where they are not desired, or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- H. Planting Area: Areas to be planted.
- I. Planting Soil: Standardized topsoil; existing, native surface topsoil; existing, in-place surface soil; imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. J. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees,
- shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.
- K. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.
- L. Stem Girdling Roots: Roots that encircle the stems (trunks) of trees below the soil surface. M. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or
- the top surface of a fill or backfill before planting soil is placed. N. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- O. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated, including soils.
- 1. Plant Materials: Include quantities, sizes, quality, and sources for plant materials. 2. Pesticides and Herbicides: Include product label and manufacturer's application
- instructions specific to the Project. 3. Plant Photographs: Include color photographs in digital or 3- by 5-inch print format of each required species and size of plant material as it will be furnished to the Project. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each
- photograph. For species where more than 20 plants are required, include a minimum of three photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery. B. Samples for Verification: For each of the following:
- 1. Organic Compost Mulch: 1-quart volume of each organic mulch required; in sealed plastic bags labeled with composition of materials by percentage of weight and source of mulch. Each Sample shall be typical of the lot of material to be furnished; provide an accurate representation of color, texture, and organic makeup.
- 2. Edging Materials and Accessories: Manufacturer's standard size, to verify color selected.
- C. Qualification Data: For gualified landscape Installer. Include list of 5 similar projects completed by Installer demonstrating Installer's capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.
- D. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following: 1. Manufacturer's certified analysis of standard products.
- 2. Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable. E. Material Test Reports: For existing native soil for plant mix.
- F. Warranty: Sample of special warranty.

1.4 QUALITY ASSURANCE C. Installer Qualifications: A qualified landscape Installer whose work has resulted in

- certification from the Professional Landcare Network:

- No. 60.
- - amendments to be incorporated. State recommendations in weight per 1000 sq. ft. or volume per cu. yd. for nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory planting soil suitable for healthy, viable plants.

 - aluminum, arsenic, barium, cadmium, chromium, cobalt, lead, lithium, and vanadium. If such problem materials are present, provide additional recommendations for corrective action.
- b. Report presence of problem salts, minerals, or heavy metals, including
- D. Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1.
- sizes. 1. Trees and Shrubs: Measure with branches and trunks or canes in their normal
- position. Take height measurements from or near the top of the root flare for field-grown stock and container grown stock. Measure main body of tree or shrub for height and spread; do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size, and 12 inches above the root flare for larger sizes.
- 2. Other Plants: Measure with stems, petioles, and foliage in their normal position. Plant Material Observation: Owner's Representative may observe plant material either at place of growth or at site before planting for compliance with requirements for genus, species, variety, cultivar, size, and quality. Owner's Representative retains right to observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and to reject unsatisfactory or defective
- immediately from Project site. 1. Notify Owner's Representative of sources of planting materials seven days in
- advance of delivery to site. G. Preinstallation Conference: Conduct conference at Project site.
- 1.5 DELIVERY, STORAGE, AND HANDLING A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of
- conformance with state and federal laws if applicable. B. Bulk Materials:
- 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants. 2. Provide erosion-control measures to prevent erosion or displacement of bulk
- materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
- 3. Accompany each delivery of bulk fertilizers and soil amendments with appropriate certificates.
- C. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tving damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.
- E. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.
- 1.6 PROJECT CONDITIONS
- A. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.

- - a. Based upon the test results, state recommendations for soil treatments and soil
- E. Measurements: Measure according to ANSI Z60.1. Do not prune to obtain required

- material at any time during progress of work. Remove rejected trees or shrubs

- D. Handle planting stock by root ball.
- 1. Do not remove container-grown stock from containers before time of planting.
- 2. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly-wet condition.

successful establishment of plants. 1. Installer's Field Supervision: Require Installer to maintain an experienced full-time

supervisor on Project site when work is in progress. 2. Personnel Certifications: Installer's field supervisor shall have the following

a. Certified Landscape Technician - Exterior, with installation, maintenance, and irrigation specialty area(s), designated CLT-Exterior.

3. Pesticide Applicator: State licensed, commercial. B. Soil-Testing Laboratory Qualifications: An independent or university laboratory,

recognized by the State Department of Agriculture, with the experience and capability to conduct the testing indicated and that specializes in types of tests to be performed. C. Soil Analysis: For each unamended soil type, furnish soil analysis and a written report by a qualified soil-testing laboratory stating percentages of organic matter; gradation of sand, silt, and clay content; cation exchange capacity; sodium absorption ratio; deleterious material; pH; and mineral and plant-nutrient content of the soil.

1. Testing methods and written recommendations shall comply with USDA's Handbook

2. The soil-testing laboratory shall oversee soil sampling; with depth, location, and number of samples to be taken per instructions from Owner's Representative. A minimum of three representative samples shall be taken from varied locations for each soil to be used or amended for planting purposes.

3. Report suitability of tested soil for plant growth.

- B. Interruption of Existing Services or Utilities: Do not interrupt services or utilities facilities occupied by Owner or others unless permitted under the following condi and then only after arranging to provide temporary services or utilities accordir requirements indicated:
- 3. Notify Owner's Representative no fewer than two days in advance of prop interruption of each service or utility.
- 4. Do not proceed with interruption of services or utilities without Ow Representative written permission.
- C. Planting Restrictions: Coordinate planting periods with maintenance periods to pro required maintenance from date of Substantial Completion.
- D. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results ma obtained. Apply products during favorable weather conditions according manufacturer's written instructions and warranty requirements.

1.7 WARRANTY

When warranties are required, verify with Owner's counsel that special warranties state this article are not less than remedies available to Owner under prevailing local laws. A. Special Warranty: Installer agrees to repair or replace plantings and accessories fail in materials, workmanship, or growth within specified warranty period.

- 1. Failures include, but are not limited to, the following:
- a. Death and unsatisfactory growth, except for defects resulting from abuse, of adequate maintenance, or neglect by Owner, or incidents that are be
- Contractor's control. b. Structural failures including plantings falling or blowing over.
- c. Faulty performance of tree stabilization or edgings.
- d. Deterioration of metals, metal finishes, and other materials beyond n weathering.
- 2. Warranty Periods from Date of Substantial Completion:
- a. Trees, Shrubs, Vines, Ground Covers and Ornamental Grasses: 12 months b. Biennials, Perennials, and Other Plants: 12 months or a full growth cycle.
- 3. Include the following remedial actions as a minimum: a. Immediately remove dead plants and replace unless required to plant succeeding planting season.
- b. Replace plants that are more than 25 percent dead or in an unhealthy cond at end of warranty period.
- c. A limit of one replacement of each plant will be required except for loss replacements due to failure to comply with requirements.
- 1.8 MAINTENANCE SERVICE

A. Initial Maintenance Service: Provide maintenance by skilled employees of lands Installer. Maintain as required in Part 3. Begin maintenance immediately after are installed and continue until plantings are acceptably healthy and well establi but for not less than maintenance period below.

1. Maintenance Period: Three months from date of Substantial Completion.

SECTION 02930 - EXTERIOR PLANTS

- PART 2 PRODUCTS
- 2.1 PLANT MATERIAL
- A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar form, shearing, and other features indicated in Plant Schedule or Plant Legend on Drawings and complying with ANSI Z60.1 and the Arizona Nursery Assoc Recommended Average Tree Specifications; and with healthy root systems deve by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vig stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and c such as knots, sun scald, injuries, abrasions, and disfigurement.
- 1. Trees with damaged, crooked, or multiple leaders; tight vertical branches bark is squeezed between two branches or between branch and trunk ("inc bark"); crossing trunks; cut-off limbs more than 3/4 inch in diameter; or with girdling roots will be rejected.
- 2. Collected Stock: Do not use plants harvested from the wild, from native from an established landscape planting, or not grown in a nursery unless other indicated.
- B. Provide plants of sizes, grades, and ball or container sizes complying with ANSI for types and form of plants required. Plants of a larger size may be used if acce to Consultant, with a proportionate increase in size of roots or balls.
- C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of ball, which shall begin at root flare according to ANSI Z60.1. Root flare shall be before planting.
- . Labeling: Label each plant of each variety, size, and caliper with a securely atta waterproof tag bearing legible designation of common name and full scientific including genus and species. Include nomenclature for hybrid, variety, or cultiv applicable for the plant as shown on Drawings.
- 2.2 INORGANIC SOIL AMENDMENTS
- A. Sulfur: Granular, biodegradable, and containing a minimum of 90 percent sulfur, with a minimum of 99 percent passing through No. 6 sieve and a maximum of 10 percent passing through No. 40 sieve.
- B. Perlite: Horticultural perlite, soil amendment grade.
- C. Agricultural Gypsum: Minimum 90 percent calcium sulfate, finely ground with 90 percent passing through No. 50 sieve. D. Sand: Clean, washed, natural or manufactured, and free of toxic materials.

ies to	2.3	ORGANIC SOIL AMENDMENTS		
ditions ing to	A.	Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert		
posed		contaminants and free of substances toxic to plantings; and as follows: 1. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or		
wner's	В.	source-separated or compostable mixed solid waste. Sphagnum Peat: Partially decomposed sphagnum peat moss, finely divided or granular		
rovide	C	texture, with a pH range of 3.4 to 4.8. Muck Post: Partially decomposed most pative post or read sodge post finally		
	U.	divided or of granular texture, with a pH range of 6 to 7.5, and having a water-absorbing capacity of 1100 to 2000 percent		
eather ay be	D.	Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood		
ng to		 waste; of uniform texture and free of chips, stones, sticks, soil, or toxic materials. In lieu of decomposed wood derivatives, mix partially decomposed wood derivatives 		
ited in		with ammonium nitrate at a minimum rate of 0.15 lb/cu. ft. of loose sawdust or ground bark, or with ammonium sulfate at a minimum rate of 0.25 lb/cu. ft. of loose sawdust or ground bark.		
es that	E.	Composted Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, debris, and material harmful to plant growth.		
e, lack	2.4	FERTILIZERS		
eyonu	Α.	Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:		
		 Composition: 20 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight. 		
normal		Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.		
IS.	В.	Planting Tablets: Tightly compressed chip type, long-lasting, slow-release, commercial-grade planting fertilizer in tablet form. Tablets shall break down with soil bacteria, converting nutrients into a form that can be absorbed by plant roots.		
		1. Size: 10-gram tablets.		
in the		2. Nutrient Composition: 20 percent nitrogen, 10 percent phosphorous, and 5 percent prosphorous, and 5 percent prosphorous, and 5 percent		
ndition	C.	Chelated Iron: Commercial-grade FeEDDHA for dicots and woody plants, and commercial-grade FeDTPA for ornamental grasses and monocots.		
ses or	2.5	PLANTING SOILS		
scape plants	A. proc of c and soil	A. Planting Soil: Existing, in-place surface soil. Verify suitability of existing surface soil to produce viable planting soil. Remove stones, roots, plants, sod, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth. Mix surface soil with the following soil amendments in the following quantities to produce planting soil:		
lished	1.	Ratio of Loose Compost to Surface Soil by Volume: 1:3.		
	2. agro	Soil Amendments: Weight of soil amendments per 1000 Sq. Ft. to be determined by pnomy soil analysis.		
	2.6	MULCHES		
	A. subs	Mineral Mulch: Hard, durable stone, washed free of loam, sand, clay, and other foreign stances, of following type, size range, and color:		
r. stem	1.	Type: Landscape Cobble.		
shown	2.	Size Range: 2 inch minus.		
eloped gorous	3.	Color: Dark Brown (to be approved by owner).		
defects	2.7	MOISTURE-CONTROL BARRIERS		
where icluded h stem	A. mils tem	High Density Polyethylene (HDPE) smooth geomembrane in thickness of 0.75 mm (30), having high tensile strength, chemical resistance, stress-crack resistance, and low perature properties for moisture containment.		
stands,	2.8	PESTICIDES		
lerwise SI Z60.1 eptable	A. juris requ auth	General: Pesticide registered and approved by EPA, acceptable to authorities having diction, and of type recommended by manufacturer for each specific problem and as nired for Project conditions and application. Do not use restricted pesticides unless norized in writing by authorities having jurisdiction.		
of root visible	B. gerr laye	Pre-Emergent Herbicide (Selective and Non-Selective): Effective for controlling the nination or growth of weeds within planted areas at the soil level directly below the mulch r.		
tached, name, tivar, if	C. grov	Post-Emergent Herbicide (Selective and Non-Selective): Effective for controlling weed vth that has already germinated.		
	2.9	TREE STABILIZATION MATERIALS		

A. Stakes and Guys:

Upright and Guy Stakes: Sound, new Lodge Pole wood with wood pressure-preservative treatment, free of knots, holes, cross grain, and other defects, 2" diameter min. by length indicated, pointed at one end.

Guys and Tie Wires: ASTM A 641/A 641M, Class 1, galvanized-steel wire, two-strand, twisted, 0.106 inch in diameter.

3. Tree-Tie Rubber Hose: UV-resistant 1/2" diameter garden hose.

Reserved for permit stamp 159 South Jackson St, Suite 600 159 South Jackson St, Suite 600 150 Seattle, Washington 98104 USA +1 206 624 5670 olsonkundig.com	project: SOMMET BLANC RESIDENCE 1 ADDRESS PARK CITY, UT				
White Summit Dev PO Box 98 Park City, Uta	elopment, LLC 30022 ah 84098				
Acoustic Consultant BRC Acoustics 1932 1st Ave, Suite 620 Seattle, WA 98101					
<u>Pool Consultant</u> Cloward H20 2696 N University Ave, Suite 290 Provo, UT 84604					
EPG Design 6949 South High Tech D Midvale, Utah 84047	rive, Suite 100				
Specifications Writer Friday Group 88 Mainelli Road Middlebury, VT					
<u>Code Consultant</u> Holmes 600 1st Avenue, Suite 20 Seattle, WA 98104	<u>Code Consultant</u> Holmes 600 1st Avenue, Suite 200A Seattle, WA 98104				
<u>Fire Protection Engineer</u> Jensen Hughes One Research Drive, Suite 305C Westborough, MA 01581					
Vertical Transportation Consulatant Lerch Bates 19515 North Creek Parkway, Suite 304 Bothell WA 98011					
<u>Structural Engineer</u> Magnusson Klemencic Associates 1301 5th Ave, Suite 3200 Seattle. WA 98101					
Seatue, vvA 98101 <u>Lighting Designer</u> O- 1319 SE MLK Blvd, Suite 210					
Building Envelope Consu RDH 2101 N 34th St	Building Envelope Consultant RDH				
Seattle, WA 98103 <u>Accessibility Consultant</u> Studio Pacifica 2144 Wostlaka Ava N. S	2101 N 34th St Seattle, WA 98103 <u>Accessibility Consultant</u> Studio Pacifica				
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checked by <u>Checker</u> job no. 20052					
date November 18, 2022 revisions:					
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NOVEMBER	18, 2022				
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REPRESENTATIONS, AND MODELS THEREOF) ARE PROPRIETARY AND CAN NOT BE COPIED,
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EXPRESS WRITTEN PERMISSION FROM ENVIRONMENTAL PLANNING GROUP GROUP (EPG).

BASED ON THE 3D MODEL PROGRESS. CONTRACTORS ARE RESPONSIBLE FOR REVIEWING THE DESIGN AND PROVIDING THEIR OWN CALCULATIONS AND AREAS FOR THE PURPOSES OF COST FSTIMATING / BIDDING. THE CLIENT, AND/OR THE CLIENT'S CONTRACTOR, IS RESPONSIBLE FOR ATTAINING OR

PROVIDING THE NECESSARY CONSTRUCTION PERMIT FOR CITY CODE COMPLIANCE.

ENVIRONMENTAL PLANNING GROUP GROUP (EPG) PROVIDED QUANTITIES ARE CALCULATED

2.10 MISCELLANEOUS PRODUCTS

A. Wood Pressure-Preservative Treatment: AWPA C2, with waterborne preservative for soil and freshwater use, acceptable to authorities having jurisdiction, and containing no arsenic; including ammoniacal copper arsenate, ammoniacal copper zinc arsenate, and chromated copper arsenate.

Antidesiccant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs. Deliver in original, sealed, and fully labeled containers and mix according to manufacturer's written instructions.

C. Burlap: Non-synthetic, biodegradable.

D. Planter Drainage Gravel: Washed, sound crushed stone or gravel complying with ASTM D 448 for Size No. 8.

Planter Filter Fabric: Woven geotextile manufactured for separation applications and made of polypropylene, polyolefin, or polyester fibers or combination of them.

F. Mycorrhizal Fungi: Dry, granular inoculant containing at least 5300 spores per lb of vesicular-arbuscular mycorrhizal fungi and 95 million spores per lb of ectomycorrhizal fungi, 33 percent hydrogel, and a maximum of 5.5 percent inert material.

SECTION 02930 - EXTERIOR PLANTS

PART 3 - EXECUTION

- 3.1 EXAMINATION
- A. Examine areas to receive plants for compliance with requirements and conditions affecting installation and performance.
- 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
- 2. Do not mix or place soils and soil amendments in frozen, wet, or muddy conditions. 3. Suspend soil spreading, grading, and tilling operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
- 4. Uniformly moisten excessively dry soil that is not workable and which is too dusty.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Consultant and replace with new planting soil.
- 3.2 PREPARATION
- A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
- C. Apply antidesiccant to trees and shrubs using power spray to provide an adequate film over trunks (before wrapping), branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
- 1. If deciduous trees or shrubs are moved in full leaf, spray with antidesiccant at nursery before moving and again two weeks after planting.
- 3.3 EXCAVATION FOR TREES AND SHRUBS
- A. Planting Pits and Trenches: Excavate circular planting pits with sides slopes vertical. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation. 1. Excavate approximately the width indicated on details in relation to ball diameter for
- stock. 2. Do not excavate deeper than depth of the root ball, measured from the root flare to
- the bottom of the root ball. 3. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
- 4. Maintain required angles of repose of adjacent materials as shown on the Drawings. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
- 5. Maintain supervision of excavations during working hours.
- 6. Keep excavations covered or otherwise protected when unattended by Installer's personnel.
- B. Subsoil and topsoil removed from excavations may be used as planting soil. C. Obstructions: Notify Consultant if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.
- 1. Hardpan Layer: Drill 6-inch- diameter holes, 24 inches apart, into free-draining strata or to a depth of 10 feet, whichever is less, and backfill with free-draining material.
- D. Drainage: Notify Consultant if subsoil conditions evidence unexpected water seepage or retention in tree or shrub planting pits.
- E. Fill excavations with water and allow to percolate away before positioning trees and shrubs.
- 3.4 TREE AND SHRUB PLANTING
- A. Before planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

- do not break.
- 1. Use planting soil for backfill.

- 5. Continue backfilling process. Water again after placing and tamping final layer of soil

- 3.5 TREE AND SHRUB PRUNING
- shrubs; and prune to retain natural character.

- B. Use planting soil for backfill.
- around plants to hold water.
- 3.8 PLANTING AREA MULCHING
- B. Type: shredded bark
- 3.9 PLANT MAINTENANCE

- recommendations.
- orderly condition.

- 3.10 PESTICIDE APPLICATION

B. Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly;

C. Set container-grown stock plumb and in center of planting pit or trench with root flare 1 inch above adjacent finish grades.

2. Carefully remove root ball from container without damaging root ball or plant.

3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and

air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. absorbed. Repeat watering until no more water is

4. Place planting tablets in each planting pit when pit is approximately one-half filled; in amounts indicated. Place tablets beside the root ball about 1 inch from root tips; do not place tablets in bottom of the hole.

D. When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.

A. Remove only dead, dying, or broken branches. Do not prune for shape.

B. Prune, thin, and shape trees, shrubs, and vines according to standard professional horticultural and arboricultural practices. Unless otherwise indicated by Consultant, do not cut tree leaders; remove only injured, dying, or dead branches from trees and

C. Do not apply pruning paint to wounds.

3.6 TREE STABILIZATION

A. Install trunk stabilization as follows unless otherwise indicated:

1. Upright Staking and Tying: Use a minimum of two stakes of length required to penetrate at least 12 inches below bottom of backfilled excavation and to extend at least 72 inches above grade. Set vertical stakes and space to avoid penetrating root balls or root masses.

2. Support trees with two strands of tie wire, connected to the brass grommets of tree-tie webbing at contact points with tree trunk. Allow enough slack to avoid rigid restraint of tree.

3. At one month prior to the end of the warranty period contractor is to perform a field review with the owner to evaluate the stability of the tress and the continuation and or removal of the tree stakes. Contractor to remove stakes and ties of trees deemed to be self supporting. Contractor to ressecure, restake and adjust tree ties for trees that required continued support.

3.7 GROUND COVER AND PLANT PLANTING

A. Set out and space ground cover and plants other than trees and shrubs as indicated in even rows with triangular spacing.

C. Dig holes large enough to allow spreading of roots.

D. Work soil around roots to eliminate air pockets and leave a slight saucer indentation

E. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.

F. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:

C. Size Range: 3 inches (76 mm) maximum, 1/2 inch (13 mm) minimum.

A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.

B. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.

C. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated past management practices whenever possible to minimize the use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

A. Apply pesticides and other chemical products and biological control agents in accordance with authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Pre-Emergent Herbicides (Selective and Non-Selective): Apply to tree, shrub, ground-cover, and landscape cobble areas in accordance with manufacturer's written recommendations. Do not apply to seeded areas.

C. Post-Emergent Herbicides (Selective and Non-Selective): Apply only as necessary to treat already-germinated weeds and in accordance with manufacturer's written

3.11 CLEANUP AND PROTECTION

A. During planting, keep adjacent paving and construction clean and work area in an

3. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

C. After installation and before Substantial Completion, remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site. 3.12 DISPOSAL

A. Remove surplus soil and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

Reserved for bermit stamp	project: SOMMET BLANC RESIDENCE 1 ADDRESS PARK CITY, UT			
White Summit Develop PO Box 98 PO Box 98 Park City, Uta BRC Acoustics 1932 1st Ave, Suite 620 Seattle, WA 98101 Pool Consultant Cloward H20 2696 N University Ave, Ste Provo, UT 84604 Landscape Architect EPG Design 6949 South High Tech Dr Midvale, Utah 84047 Specifications Writer Friday Group 88 Mainelli Road Middlebury, VT Code Consultant Holmes 600 1st Avenue, Suite 200 Seattle, WA 98104 Fire Protection Engineer Jensen Hughes One Research Drive, Suit Westborough, MA 01581 Vertical Transportation Col Lerch Bates 19515 North Creek Parkw Bothell, WA 98011 Structural Engineer Magnusson Klemencic J 1301 5th Ave, Suite 3200 Seattle, WA 98101 Lighting Designer O- 1301 SE MLK Blvd, Suite Portland, Oregon 97219	Associates			
Portland, Oregon 97219 Building Envelope Consultant RDH 2101 N 34th St Seattle, WA 98103 Accessibility Consultant Studio Pacifica 2144 Westlake Ave N, Suite F Seattle, WA 98109 MEP Engineer WSP USA 1001 Fourth Ave., Suite 3100 Seattle, WA 98154				
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PLANTING SPECIFICATIONS L601				

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ENVIRONMENTAL PLANNING GROUP GROUP (EPG) PROVIDED QUANTITIES ARE CALCULATED BASED ON THE 3D MODEL PROGRESS. CONTRACTORS ARE RESPONSIBLE FOR REVIEWING TH	ΗE

DESIGN AND PROVIDING THEIR OWN CALCULATIONS AND AREAS FOR THE PURPOSES OF COST ESTIMATING / BIDDING. THE CLIENT, AND/OR THE CLIENT'S CONTRACTOR, IS RESPONSIBLE FOR ATTAINING OR PROVIDING THE NECESSARY CONSTRUCTION PERMIT FOR CITY CODE COMPLIANCE.



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Reserved for bermit stamp 159 South Jackson St, Suite 600 159 South Jackson St, Suite 600 150 Seattle, Washington 98104 USA 11 206 624 5670 olsonkundig.com	project: SOMMET BLANC RESIDENCE 1 ADDRESS PARK CITY, UT				
White Summit Development, LLC PO Box 980022 Park City, Utah 84098					
Acoustic Consultant PO Box 980022 Park City, Utah 84098 Acoustics 1932 1st Ave, Suite 620 Seattle, WA 98101 Pool Consultant Cloward H20 2696 N University Ave, Suite 290 Provo, UT 84604 Landscape Architect EPG Design 6949 South High Tech Drive, Suite 100 Mitdvale, Utah 84047 Specifications Writer Friday Group 88 Mainelli Road Middlebury, VT Code Consultant Holmes 600 1st Avenue, Suite 200A Seattle, WA 98104 Fire Protection Engineer Jensen Hughes One Research Drive, Suite 305C Westborough, MA 01581 Vertical Transportation Consulatant Lerch Bates 19515 North Creek Parkway, Suite 304 Bothell, WA 98101 Structural Engineer Magnusson Klemencic Associates 1301 5th Ave, Suite 3200 Seattle, WA 98101 Lighting Designer O 1319 SE MLK Blvd, Suite 210 Portland, Oregon 97219 Building Envelope Consultant RDH 2101 N 34th St Seattle, WA 98103 Accessibility Consultant Studio Pacifica 2144 Westake Ave, N, Suite F Seattle, WA 98103 Accessibility Consultant Studio Pacifica 2144 Westake Ave, N, Suite F Seattle, WA 98109 MEP Engineer WSP USA 1001 Fourth Ave., Suite 3100 Seattle, WA 98154 principal architect—David Hatris job no. 20052 date May 23, 2022 revisions:					
CONSTRUCTION DOCUMENTS 95% May 23, 2022					
PLANTING DETAILS					