

## ARBORIST REPORT and SYNOPSIS

Area of focus: Trees near the grand stair case, see attached map

Purpose of reports: identify tree species and site condition as well as note trees with defects that could lead to premature failure. Also Identify trees that are invasive or otherwise inappropriate for this site.

Site condition: steep (>30%), non-irrigated, north facing slope, minimal soil profile with round rock base, some sluffing and erosion evident.

- Defective trees: Ponderosa Pine (PP) immediately east of existing stair case has inferior form with multiple tops. Additionally, several of the spruce trees have compromised form as well. These trees are identified on the map provided.
- Norway Maples (NM) are a curious issue, listed by some as an invasive species they do serve a purpose in that they hold soils on steep ground well.
- There is significant risk involved with thinning the grove due the symbiotic nature of sheltering these trees have developed within. Even so we continue to somewhat regularly lose trees here because of severe wind shear and poor soil / root structure development.
- As to excavation around existing trees. Our campus tree plan identifies procedures for protection. To summarize these, we require fencing around protected trees and no excavating within drip line. These are the base requirements with some exceptions depending on species and site condition.

### Primary existing trees

ES, Engelmann spruce, *Picea Englemanni*

PP, Ponderosa pine, *Pinus ponderosa*

BL, Black locust, *Robinia pseudoacacia*

BS, Blue spruce, *Picea pungens*

T, Little leaf linden, *Tilia Americana*

NM, Norway maple, *Acer platanoides*

**Approved new planting list**

Douglas fir, *Pseudotsuga*

Larch tamarack, *Larix Laricina*

Grand fir, *Abies grandis*

White fir, *Abies concolor*

Vine maple, *Acer carinatum* (site specific)

Engelmann spruce, *Picea englemanni*

Western juniper, *Juniperus occidentalis* (site specific)

Lodge pole pine, *Pinus contorta latifolia*

Jeffreys pine, *Pinus jefferreyi*

Western white pine, *Pinus monticola*

Ponderosa pine, *Pinus ponderosa*

White spruce, *Picea glauca*

Colorado blue spruce, *Picea pungens*

Species suggestions provided by landscape design professionals or other outside arboricultural experts is welcome and encouraged.

David Yoder

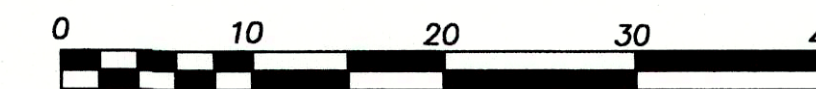
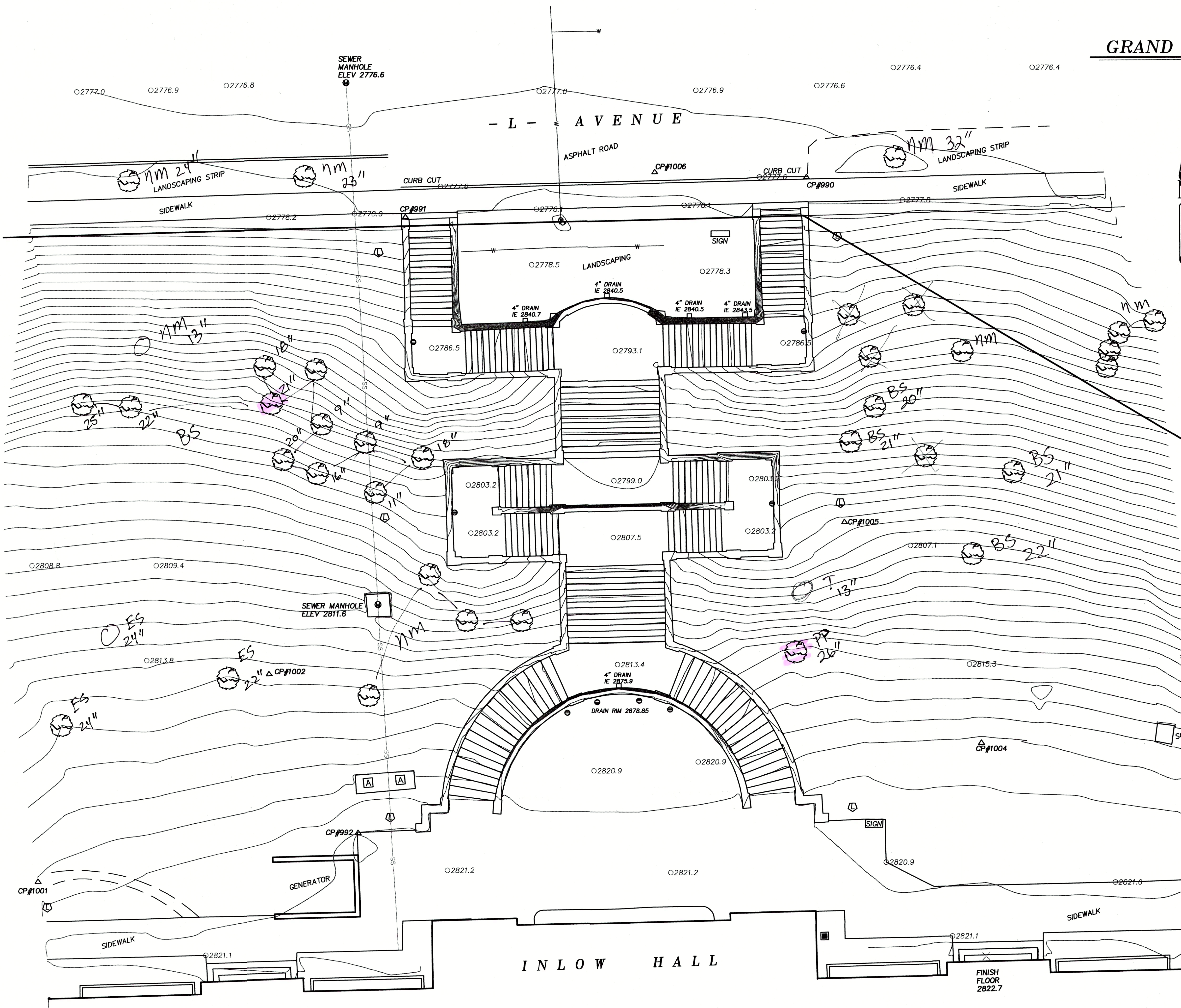
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*EASTERN OREGON UNIVERSITY*  
***GRAND STAIRCASE TOPOGRAPHIC SURVEY***
















SCALE: 1"=10'

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
990	612741.10	8821824.67	2777.49	Brass Screw with Brass Washer
991	612732.84	8821740.21	2778.43	Benchmark NGS R483
992	612603.79	8821729.76	2821.00	Brass Screw with Brass Washer
993	612593.81	8821917.25	2821.00	Brass Screw with Brass Washer
1001	612593.90	8821662.23	2819.14	Cotton Spindle
1002	612637.07	8821711.09	2814.61	Cotton Spindle
1003	612666.38	8821611.59	2804.95	Cotton Spindle
1004	612622.38	8821861.11	2819.33	Cotton Spindle
1005	612668.64	8821832.46	2804.42	Cotton Spindle
1006	612742.24	8821792.72	2777.43	Cotton Spindle

NOTE: COORDINATES ARE IN STATE PLANE OREGON NORTH. VERTICAL DATUM IS NAVD-88.

### LEGEND

- |   |                                      |
|---|--------------------------------------|
|    | <b>Control Point</b>                 |
|    | <b>Manhole</b>                       |
|   | <b>Fire Hydrant</b>                  |
|  | <b>Air Conditioning Unit</b>         |
|  | <b>Light Pole</b>                    |
|  | <b>Water Valve</b>                   |
|  | <b>Water Line</b>                    |
|  | <b>Sanitary Sewer Line</b>           |
|  | <b>Spot Elevation</b>                |
|  | <b>Contour Line (1 ft. interval)</b> |
|  | <b>Tree</b>                          |
|  | <b>Cow's Tongue</b>                  |
|  | <b>Storm drain</b>                   |

**NOTES:**

- 1) Fieldwork for this topographic survey was done July 8-28th and represent conditions found at that time only.
- 2) Property boundary as shown hereon is placed by record survey information as should be considered approximate only.
- 3) Underground utilities are placed by locate marks given by others. Surveyors said line is shown was placed by extension of a line between manholes. Location of all underground utilities should be field verified prior to excavation.



Renewal Date: June 30, 2023