

Monoliths Trails

Meadow

Existing Woodland

### 100'Wetland Buffer





10

**Monoliths** Trails

Meadow

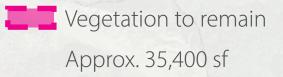
Existing Woodland

### 100' Wetland **Buffer**

**SITE PLAN - LANDSCAPE PHASE 1** 

#### **SECTION 4.6: PRESERVATION OF EXISTING VEGETATION**





Vegetation to remove approx. 83,100 sf

- 63,500 sf trees
- 19,600 sf brush understory

Proposed new tree canopy (10 year maturity), approx. 150,000 sf

Areas outside limit of work not marked in diagram

#### **CANOPY LOSS AND REPLACEMENT**

#### **SECTION 4.6: PRESERVATION OF EXISTING VEGETATION**

#### **PER SPECIFICATIONS SECTION 015639:**

- Tree protection fencing shall be galvanized chain link fencing, 6 ft. high. Located minimally at the outer edge of the Ο canopy drip line or further as will be developed in Construction Documents.
- All tree work shall be performed by a professional Certified Arborist Ο

#### **SECTION 4.10: TOPSOIL**



## SITE PLAN - PROPOSED SOIL DEPTHS



• 4" soil depth

#### Grassland habitat

• 6" soil depth

#### Perennials and shrubs

• 18" soil depth

#### Shrub Buffer

• 24" soil depth

#### Trees

• 36" soil depth

## Detention basin/ rain garden

• Soil profile per Civil

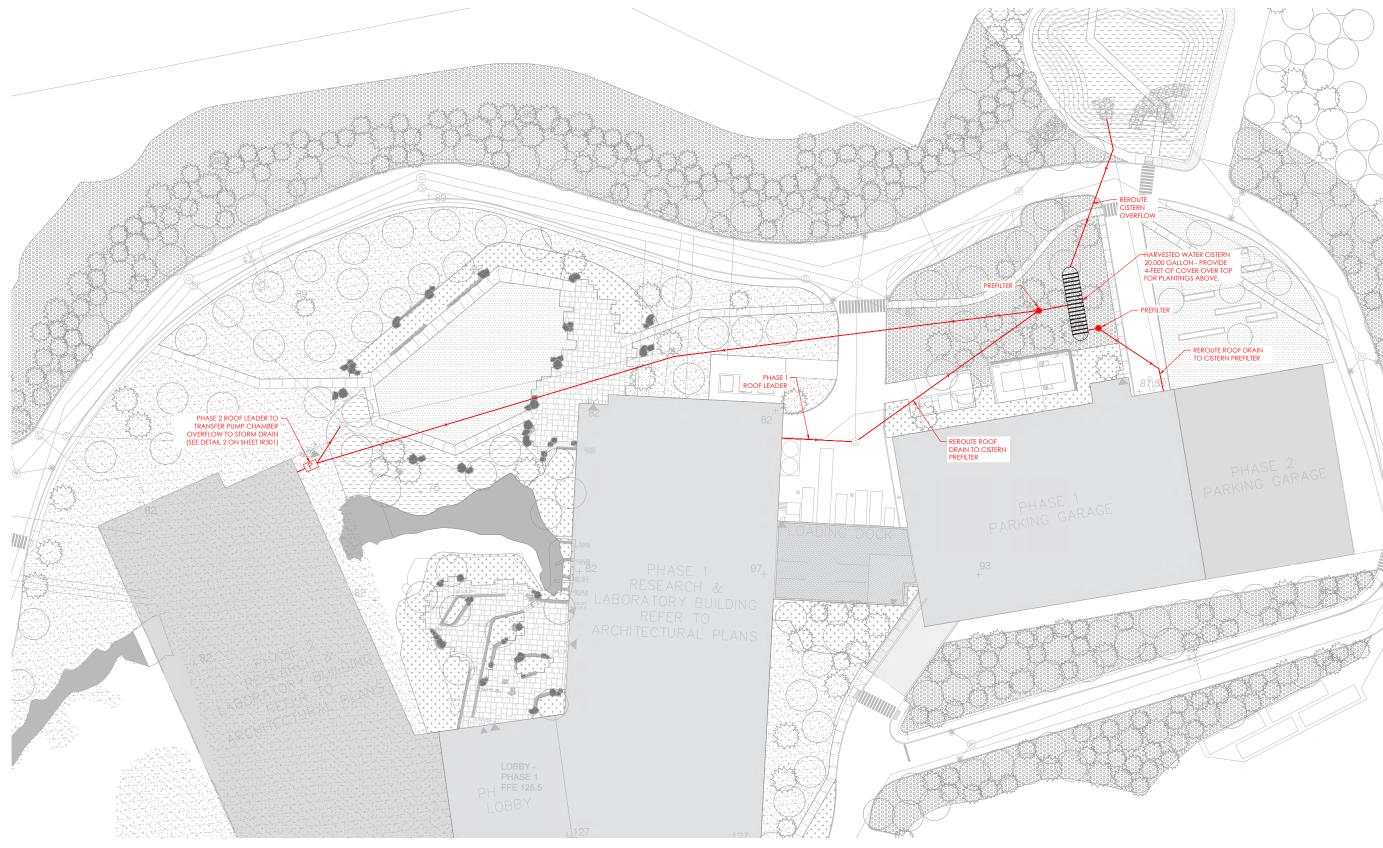
#### ADDRESSING THE 4" SOIL DEPTH IN SEEDING AREAS TO THE NORTHEAST

S2112 Response:

# Where planting is meant to be permanently established, in close proximity to the building and an integral part of the campus a minimum 6" of soil is provided for long term enhancement of the landscape.

In comparison 4" of soil is only suggested in a large area to the north east of the building and loop road – this is not part of the current Phase 1+2 project but is currently stripped land used for quarry activities. Soil and seeding is proposed to prevent erosion and provide a temporary cost effective solution as that area may be developed in future phases. Due to the large square footage of the area increasing soil depth is cost-prohibitive and the design team is confident that with 4" of soil and a native, erosion control seeding that the area will be improved.

#### **SECTION 4.11: IRRIGATION**



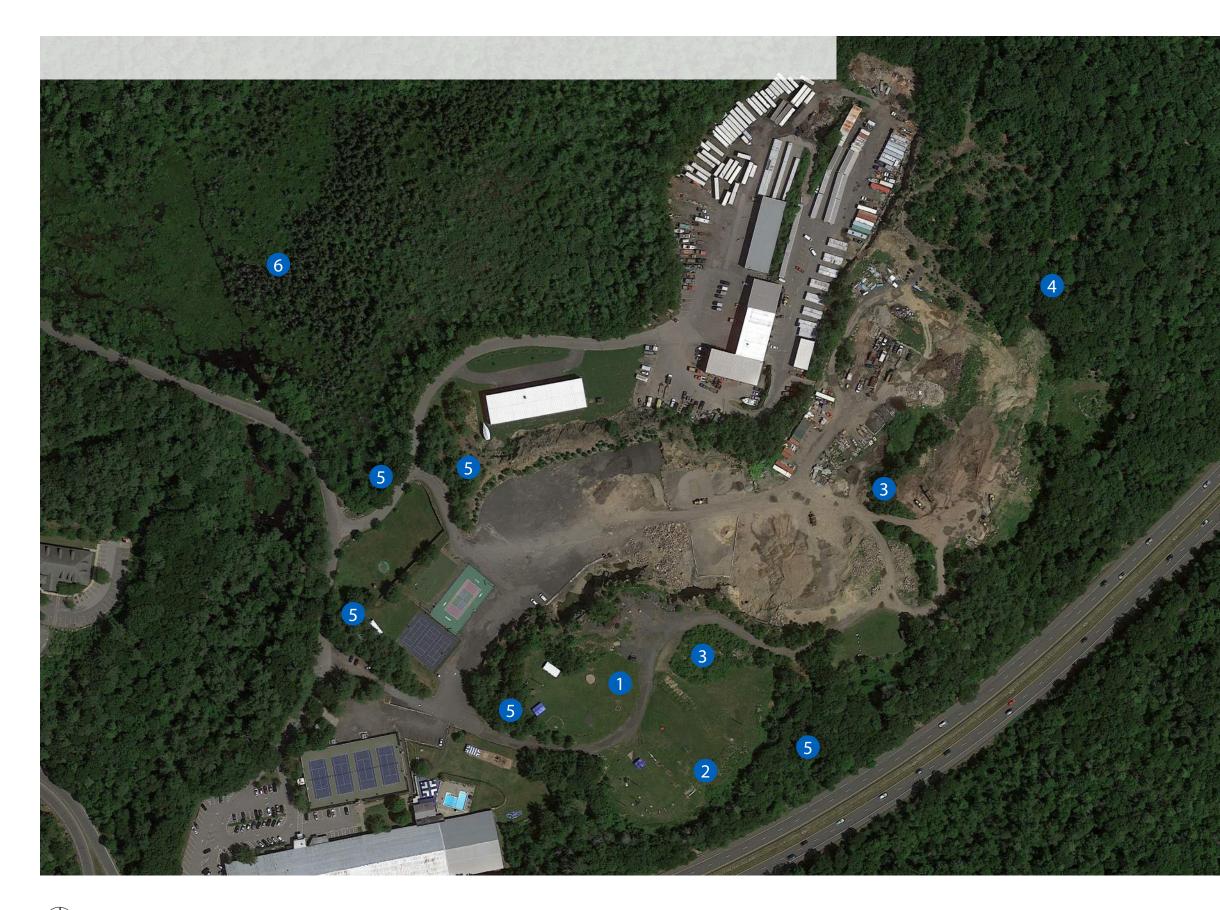
80 160

# **IRRIGATION - RAINWATER HARVESTING**

#### ADDRESSING THE COMMENT ABOUT MUNICIPAL WATER CONNECTION

S2112 Response: Irrigation will **not** be provided from municipal water lines during regular operation, only during drought and potentially for plant establishment during the first year. Irrigation will be served by a cistern fed by stormwater roof capture, condensate and RO reject water collected on site.

The tank has been sized to meet the irrigation requirements of the proposed plant material and all irrigation use is in compliance with LEED certification.



400

100 200



1

2

4

Disturbed wet meadow

- Early succession/ Scrub-3 shrub
  - Hemlock-Beech mixed oak forest complex
- Mixed forest pockets & 5 highway edge
- Sawmill Brook riparian 6 forest

## LANDSCAPE TYPOLOGIES DIAGRAM

#### SECTION 7.0 LANDSCAPING, WALLS AND FENCES

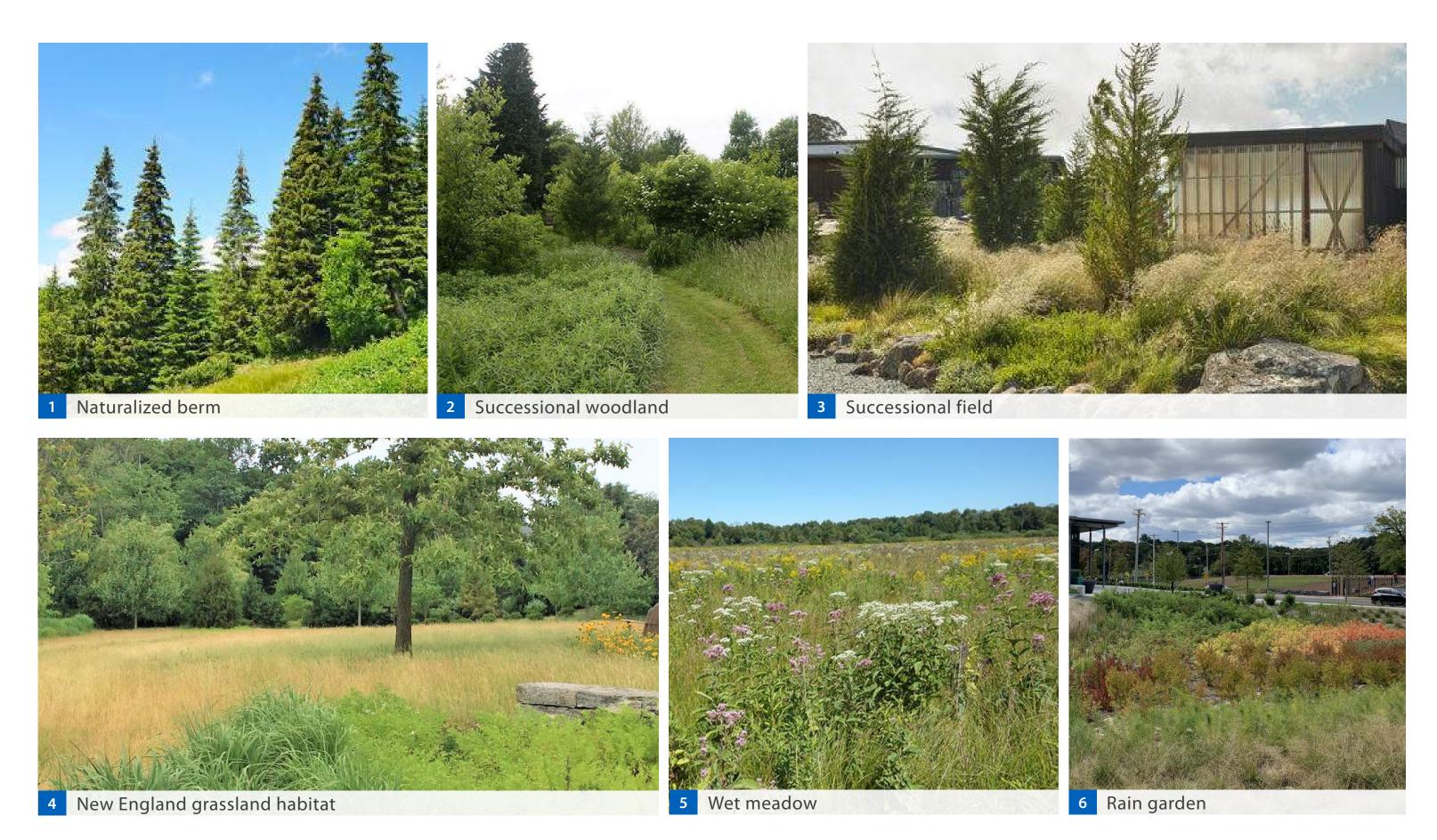


 $(\top)$ 0

150 300 600



#### **SITE PLAN - PROPOSED LANDSCAPE TYPOLOGIES**



### LANDSCAPE TYPOLOGY CHARACTER



#### **AREAS OF PRIORITY SCREENING - NORTH**



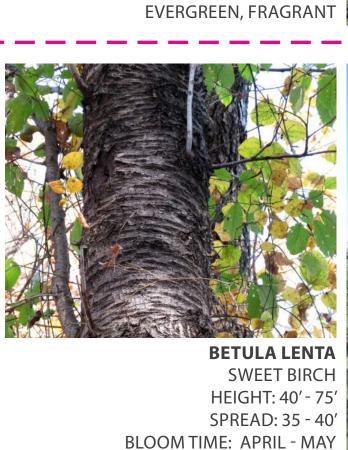
## **AREAS OF PRIORITY SCREENING - SOUTH**



#### RELATIVE TREE SIZE COMPARISON



**ABIES FRASERI FRASER FIR** HEIGHT: 30' - 50' SPREAD: 10' - 25 BLOOM TIME: N/A



SHOWY BARK, FALL COLOR

#### NATURALIZED BERM/ WOODED HILLSIDE







**ABIES CONCOLOR** WHITE FIR HEIGHT: 40' - 70' SPREAD: 20' - 30' **BLOOM TIME: N/A EVERGREEN** 





**ACER SACCHARUM** SUGAR MAPLE HEIGHT: 60' - 80' SPREAD: 30' - 60' **BLOOM TIME: APRIL** FALL COLOR



#### PROPOSED AT 10-12' HT **IN KEY SCREENING AREAS**





**EVERGREEN** 





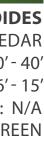
**CARPINUS CAROLINIANA** AMERICAN HORNBEAM HEIGHT: 20' - 35' SPREAD: 20' - 35' **BLOOM TIME: FEBRUARY** FALL COLOR, ATTRACTS BIRDS





**CORNUS FLORIDA 'APPALACHIAN BLUSH'** APPALACHIAN BLUSH DOGWOOD HEIGHT: 15' - 20' SPREAD: 15' - 20' **BLOOM TIME: APRIL - MAY** SHOWY FLOWER, ATTRACTS BIRDS

## NATURALIZED BERM/ WOODED HILLSIDE







#### NATURALIZED BERM/ WOODED HILLSIDE







**PICEA GLAUCA** WHITE SPRUCE HEIGHT: 40' - 60' SPREAD: 10' - 20' **BLOOM TIME: N/A** EVERGREEN

#### PROPOSED AT 14-16' HT **IN KEY SCREENING AREAS**





**PINUS STROBUS** WHITE PINE HEIGHT: 50' - 80' SPREAD: 20' - 40' BLOOM TIME: N/A **EVERGREEN** 



**QUERCUS IMBRICARIA** SHINGLE OAK HEIGHT: 40' - 60' SPREAD: 40' - 60' **BLOOM TIME: APRIL** FALL COLOR

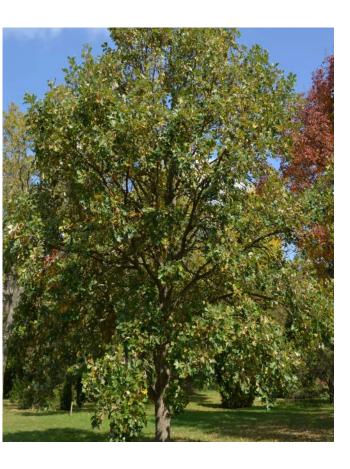








**PRUNUS SEROTINA** WILD BLACK CHERRY HEIGHT: 50' - 80' SPREAD: 30' - 60' BLOOM TIME: APRIL - MAY FALL COLOR, SHOWY FRUIT





**QUERCUS MACROCARPA BUR OAK** HEIGHT: 60' - 80' SPREAD: 60' - 80' **BLOOM TIME: APRIL** 

#### NATURALIZED BERM/ WOODED HILLSIDE

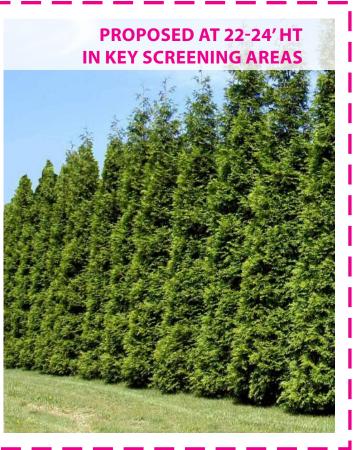








**QUERCUS RUBRA** NORTHERN RED OAK HEIGHT: 50' - 75' SPREAD: 50' - 75' **BLOOM TIME: MAY** FALL COLOR

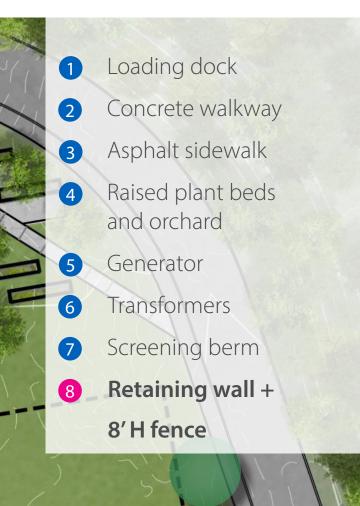




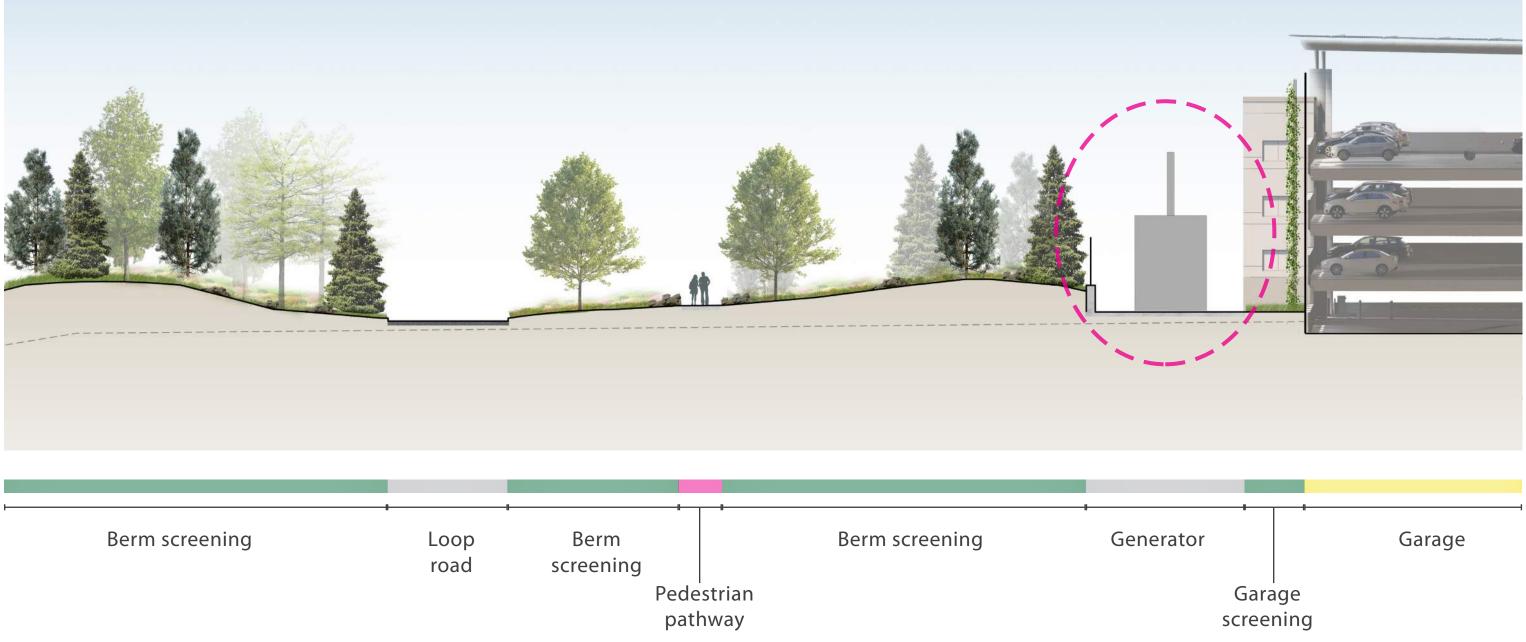
THUJA STANDISHII X PLICATA 'GREEN GIANT' **GREEN GIANT ARBORVITAE** HEIGHT: 50' - 60' SPREAD: 12' - 20' **BLOOM TIME: N/A EVERGREEN, SCREENING** 

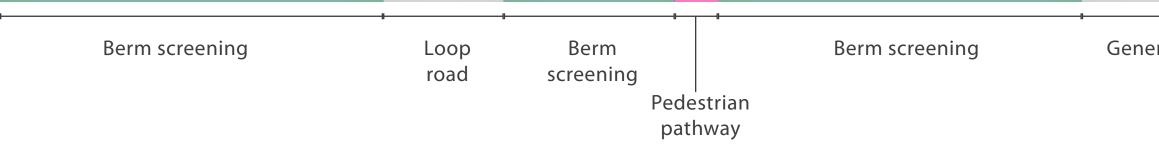
#### NATURALIZED BERM/ WOODED HILLSIDE





#### UTILITY SCREENING AT GARAGE





#### **UTILITY SCREENING AT GARAGE - SECTION**



#### UTILITY SCREENING - VIEW EAST TO GARAGE

#### **SECTION 7.3 FENCING**

### **FENCING FOR GENERATOR SCREENING:**

S2112 Response: Proposed 8' tall louvered fencing on top of retaining wall at generator and garage to provide safety and screening in addition to plant material as previously shown.

Ametco Shadow 80 Louvered Fence Panel, Electro-forged welded steel fencing, powder coat finish with surface mount. Design horizontal 1-31/32" x 1/16" formed main bar, 5/32" round cross bar.



#### **SECTION 7.3 FENCING**

#### FENCING FOR GUARD RAIL UPPER QUAD:

S2112 Response: Fence at the upper pedestrian plaza (upper quad), is labeled as "guardrail to match architectural guardrail", additional information can be found on architectural drawings (see detail 3/A45). These are currently designed as 42" high cable rails



#### **SECTION 7.6 UNSIGHTLY USES AND AREAS:**

#### FENCING FOR GUARD RAIL UPPER QUAD:

S2112 Response: Existing vegetation will remain north of the phase 2 generator to provide screening in that direction. South-east of the generator the design proposes a heavily planted berm to shield views of the generator and electrical equipment from the building and road. Additional planting will be provided to the north if required.





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