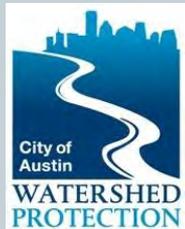


# Eliza Spring Outlet Daylighting Project – 100% Design Habitat Reconstruction for Federally Endangered Salamanders



**DONELLE ROBINSON, ENVIRONMENTAL SCIENTIST**

**CITY OF AUSTIN  
WATERSHED PROTECTION DEPARTMENT**



# HCP – USFWS 10(a)1(B) permit



- Allows the City of Austin to keep Barton Springs Pool open for recreation despite it being endangered species habitat
- 20 yr permit
- MOU between PARD and WPD
- **Benefits of Daylighting:**
  - Increase salamander habitat and improve resiliency of species
  - Replaces degrading pipe
  - Amphitheater returns to historical condition
  - Recreate historical waterway



# Public Outreach



- **Monthly meetings from November 2013-February 2015**
- **No negative input received**
- **Continued communication with updates to website and listserv**

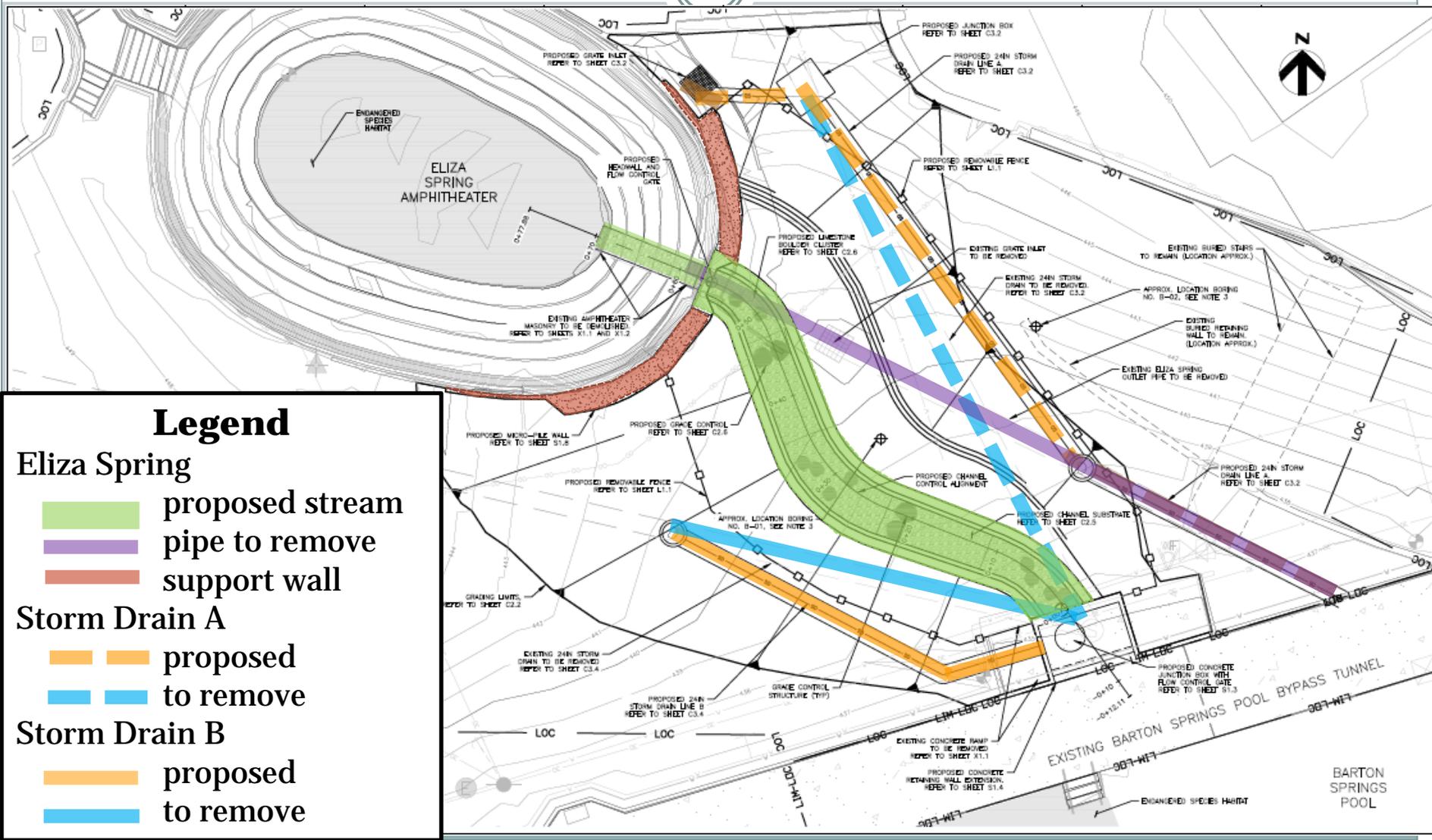
# Eliza Spring Modifications



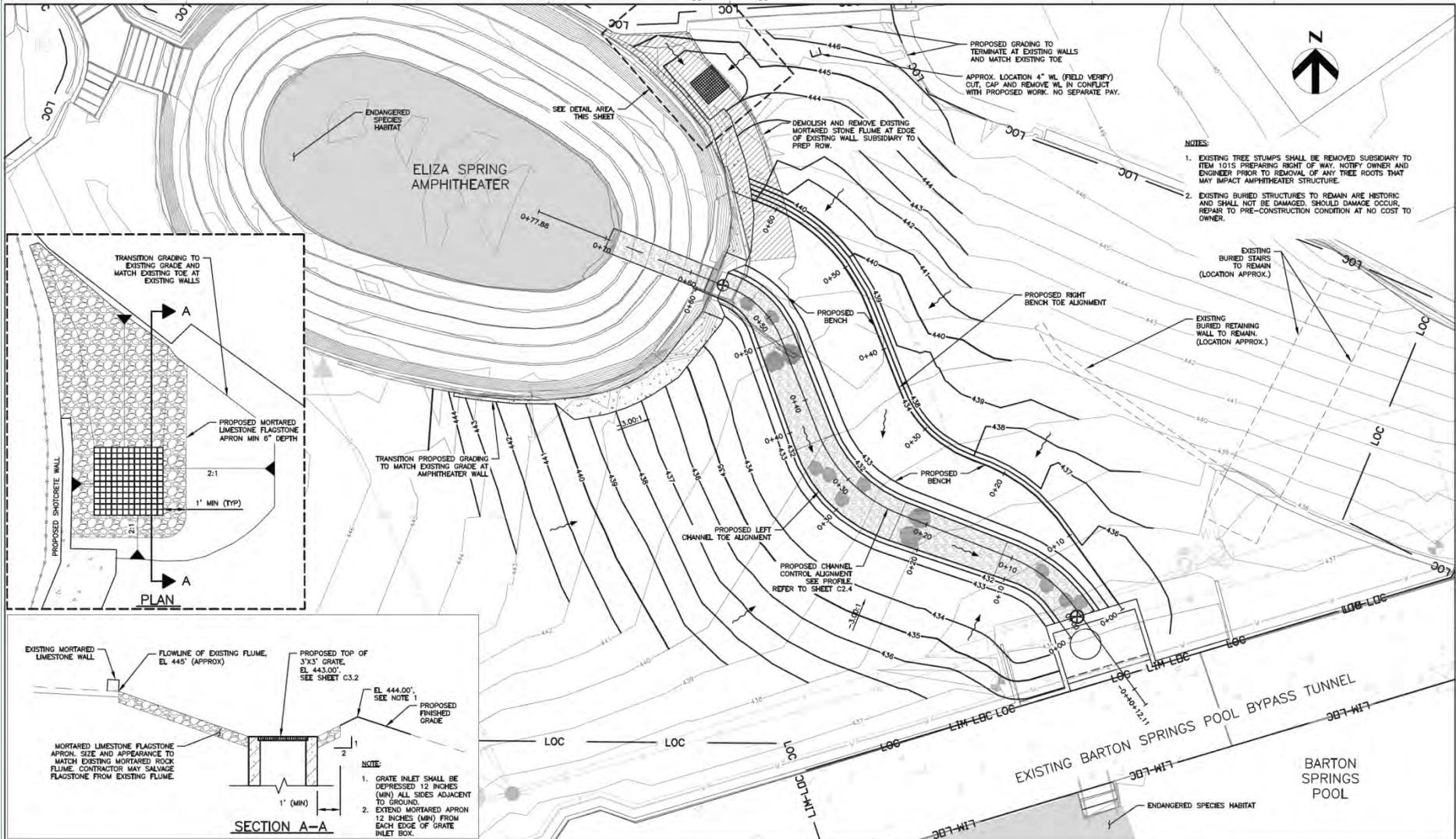
- Amphitheater built
- Outflow buried
- Concrete floor
- Salamander habitat



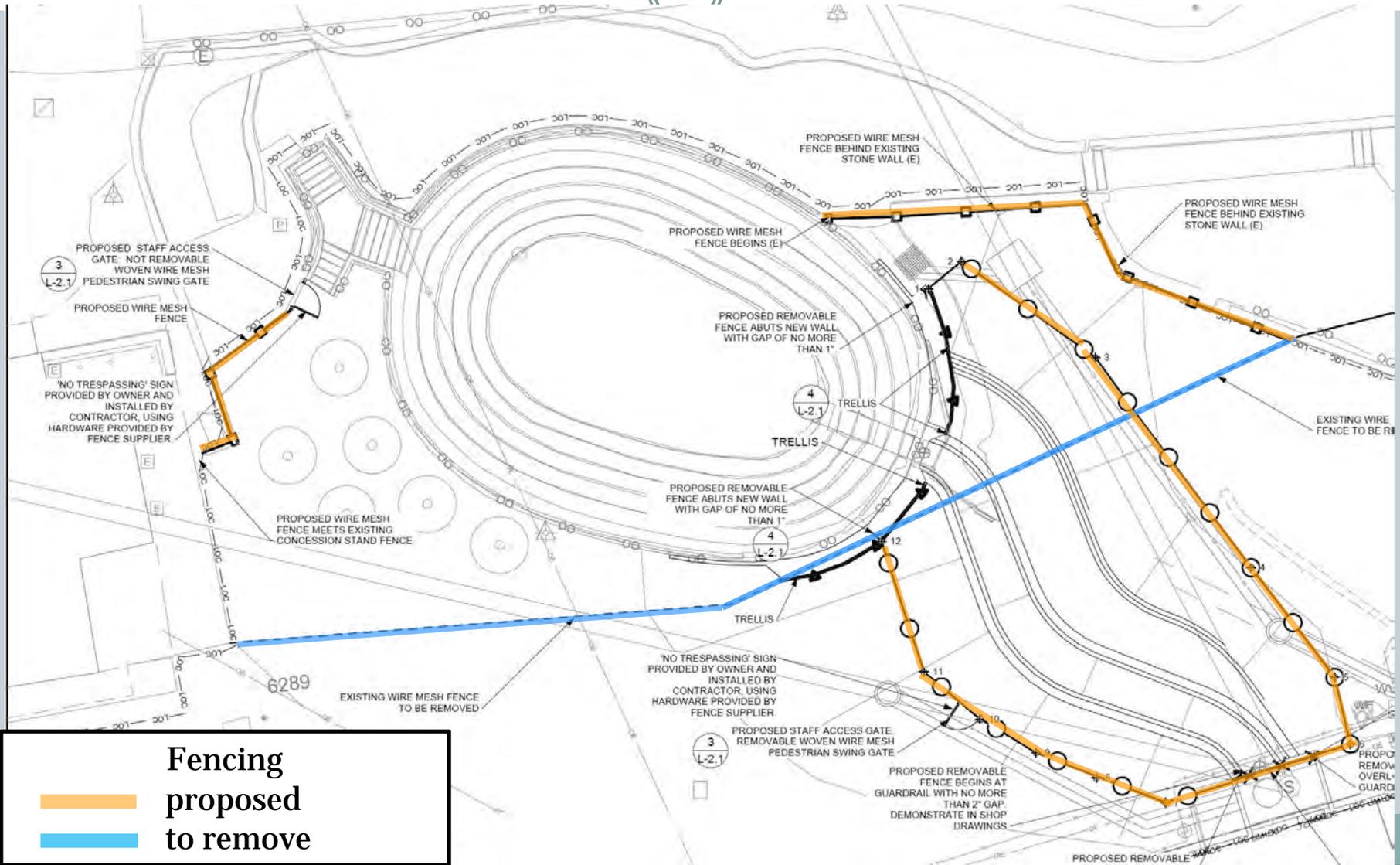
# New Channel, Storm Drain Redirection, and Structural Support



# Grading Overview



# Fencing Overview



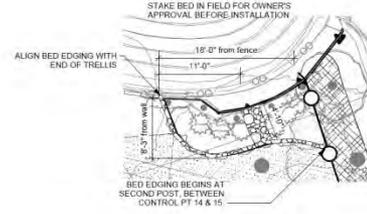
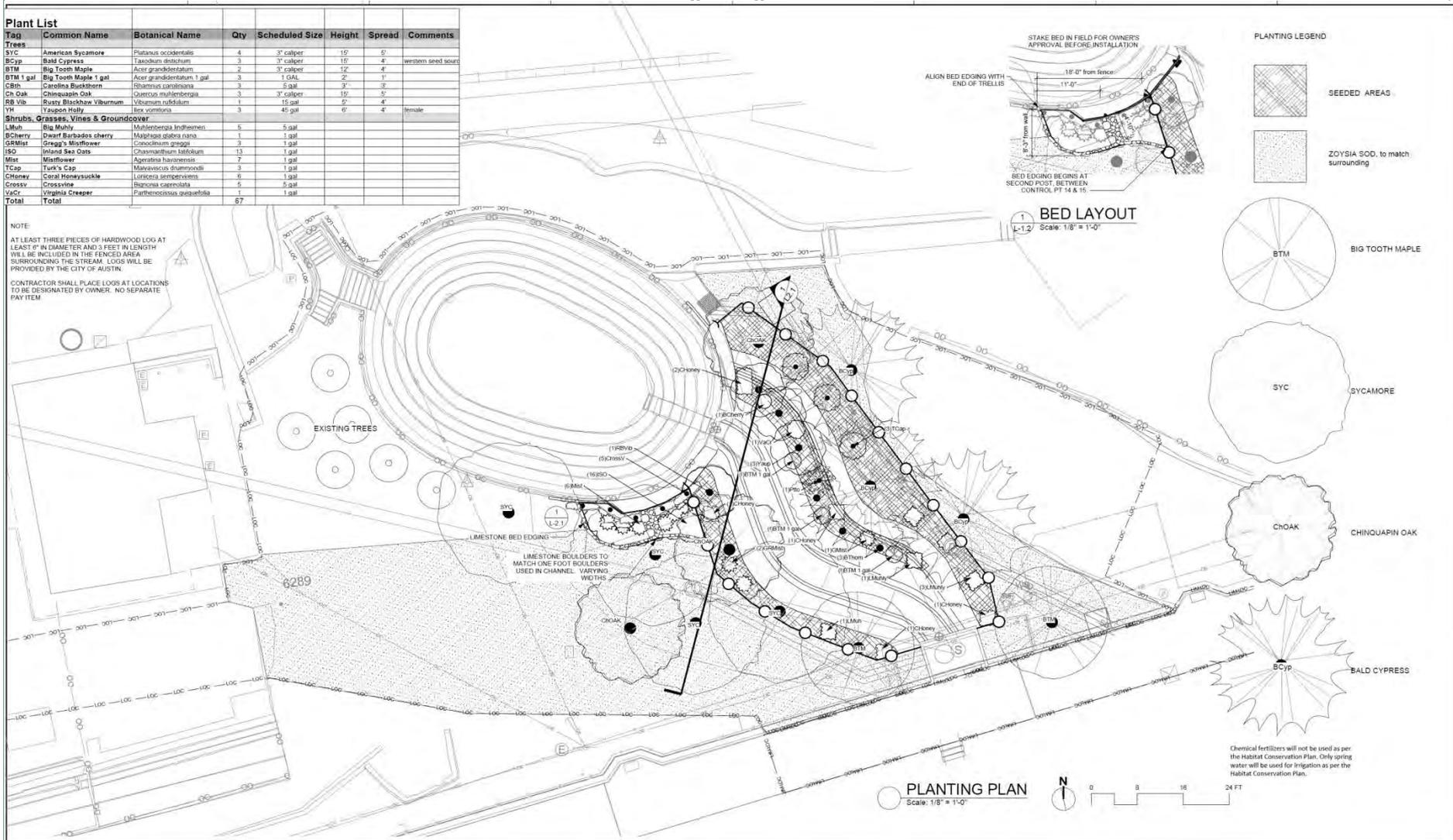
**Fencing**  
— proposed  
— to remove

# Landscaping Overview

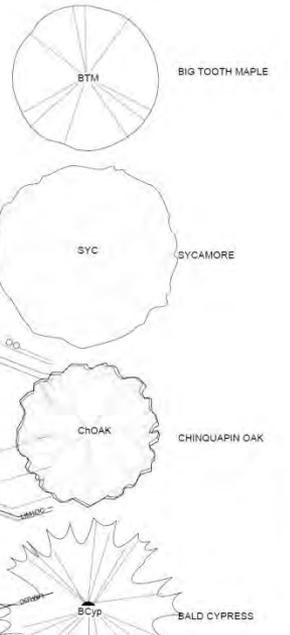
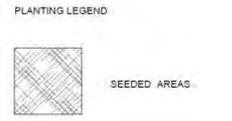
Tag	Common Name	Botanical Name	Qty	Scheduled Size	Height	Spread	Comments
<b>Trees</b>							
SYC	American Sycamore	Platanus occidentalis	4	3" caliper	15'	5'	
BCyp	Bald Cypress	Taxodium distichum	3	3" caliper	15'	4'	western seed source
BTM	Big Tooth Maple	Acer grandidentatum	2	3" caliper	12'	4'	
BTM 1 gal	Big Tooth Maple 1 gal	Acer grandidentatum 1 gal	3	1 gal	2'	1'	
CBth	Carolina Buckhorn	Rhus typhina	3	5 gal	3'	2'	
Ch Oak	Chinquapin Oak	Quercus muhlenbergii	3	3" caliper	10'	5'	
BB Vib	Buxus Blackhaw Viburnum	Viburnum nudum	1	15 gal	9'	4'	
YH	Yaupon Holly	Ilex vomitoria	3	45 gal	6'	4'	female
<b>Shrubs, Grasses, Vines &amp; Groundcover</b>							
L.Mh	Big Holly	Malobertesia longhamii	5	5 gal			
BCberry	Dwarf Barbados cherry	Malpighia glabra nana	1	1 gal			
GRMist	Gregg's Mistflower	Conoclinium greggii	2	1 gal			
ISO	Indigo Sea Oats	Chorizanthe latifolium	13	1 gal			
Mist	Mistflower	Ageratum havanensis	7	1 gal			
TCap	Turk's Cap	Maevaviscus drummondii	3	1 gal			
Crosney	Central Honeysuckle	Lonicera sempervirens	6	1 gal			
Crossv	Crossvine	Bignonia carolinata	5	5 gal			
VaCr	Virginia Creeper	Parthenocissus quaquefolia	1	1 gal			
<b>Total</b>	<b>Total</b>		<b>67</b>				

**NOTE**  
 AT LEAST THREE PIECES OF HARDWOOD LOG AT LEAST 6" IN DIAMETER AND 3 FEET IN LENGTH WILL BE INCLUDED IN THE FENCED AREA SURROUNDING THE STREAM. LOGS WILL BE PROVIDED BY THE CITY OF AUSTIN.

CONTRACTOR SHALL PLACE LOGS AT LOCATIONS TO BE DESIGNATED BY OWNER. NO SEPARATE PAY ITEM



**1** BED LAYOUT  
 L-1.2 Scale: 1/8" = 1'-0"



Chemical fertilizers will not be used as per the Habitat Conservation Plan. Only spring water will be used for irrigation as per the Habitat Conservation Plan.

**PLANTING PLAN**  
 Scale: 1/8" = 1'-0"  
 0 8 16 24 FT

# Current Processes:



- 100% Plans Reviewed by QMD
- Site Plan Submitted to Development Services
- Amendment to SOS Ordinance
- Permitting by USACE, TCEQ, THC
- Next steps:
  - Bidding Late Spring/Early Summer 2016
  - Construction Fall 2016-Spring 2017

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<http://www.austintexas.gov/department/eliza-spring-daylighting>