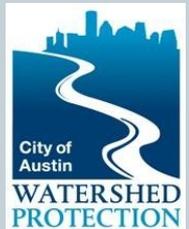


Eliza Spring Outlet Daylighting Project – 100% Design Habitat Reconstruction for Federally Endangered Salamanders



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

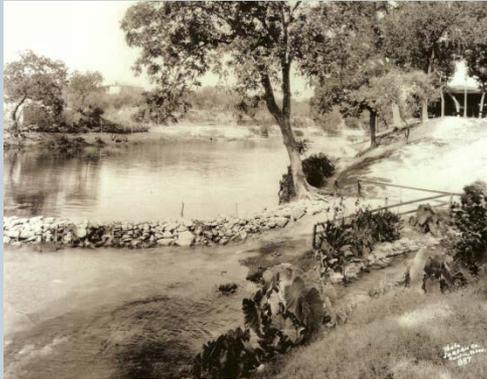


Public Outreach



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

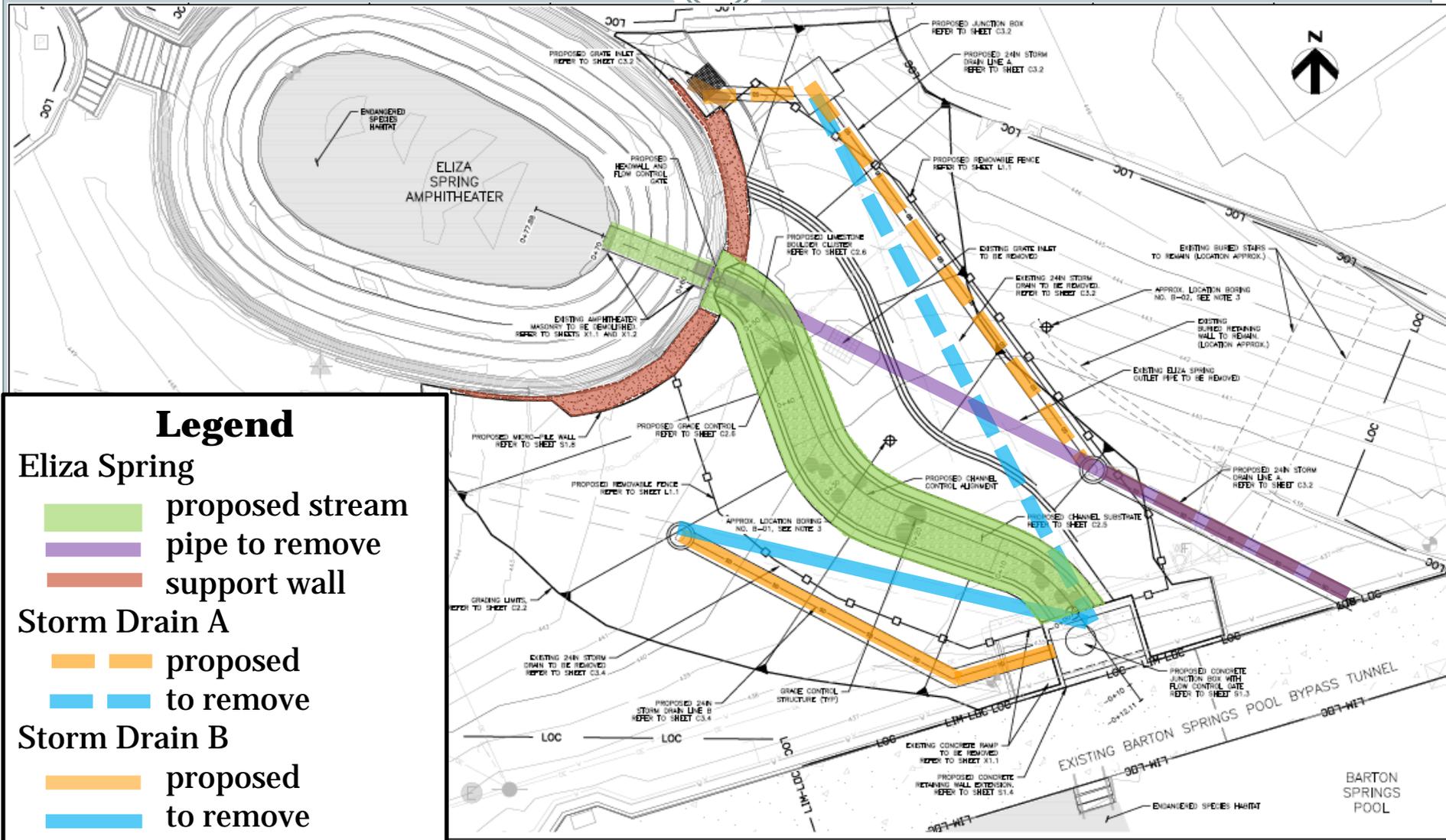
Eliza Spring Modifications



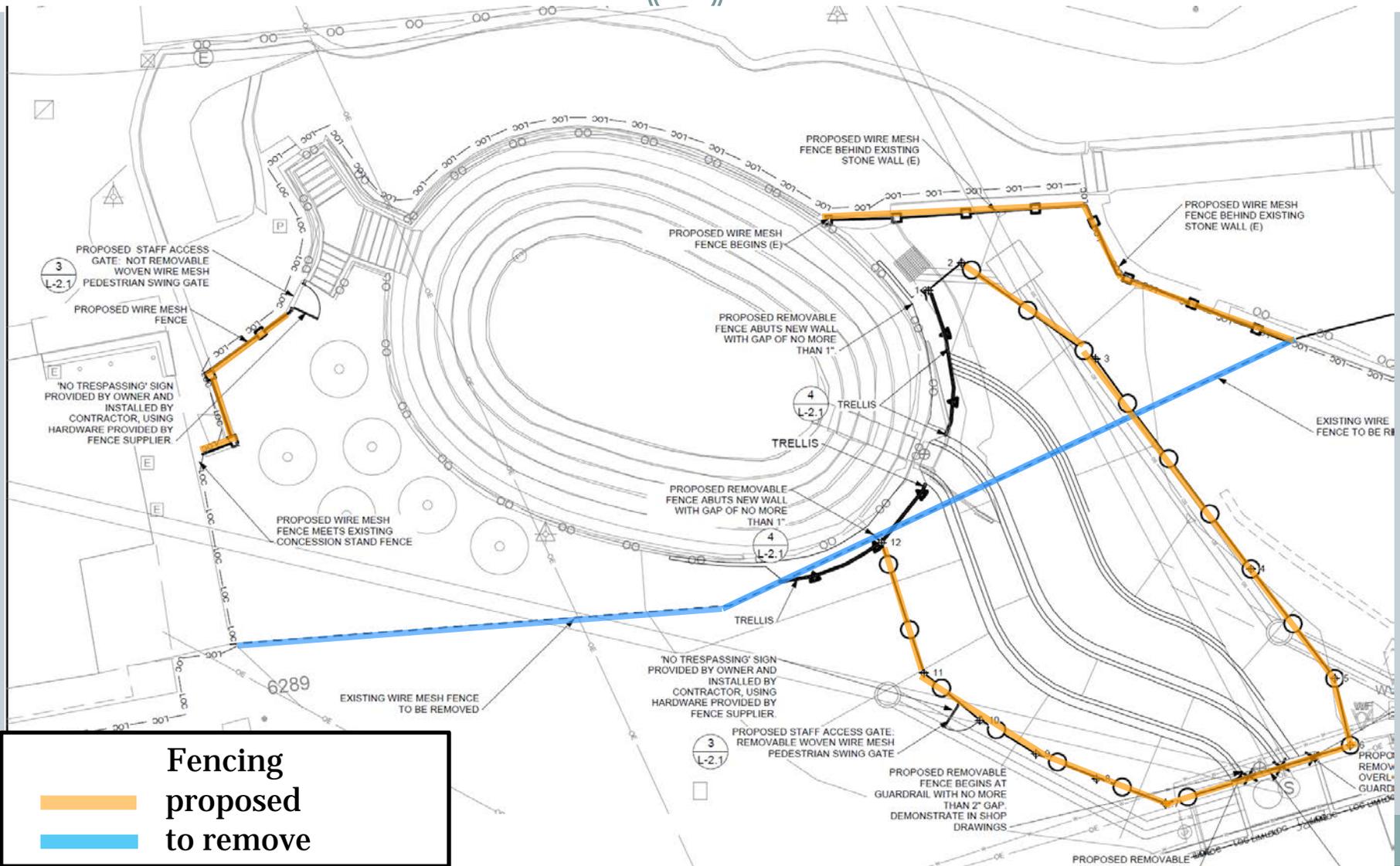
- Amphitheater built
- Outflow buried
- Concrete floor
- Salamander habitat



New Channel, Storm Drain Redirection, and Structural Support



Fencing Overview

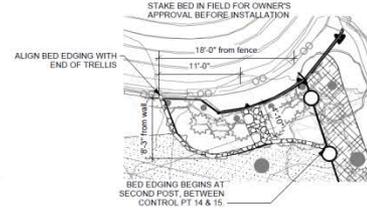
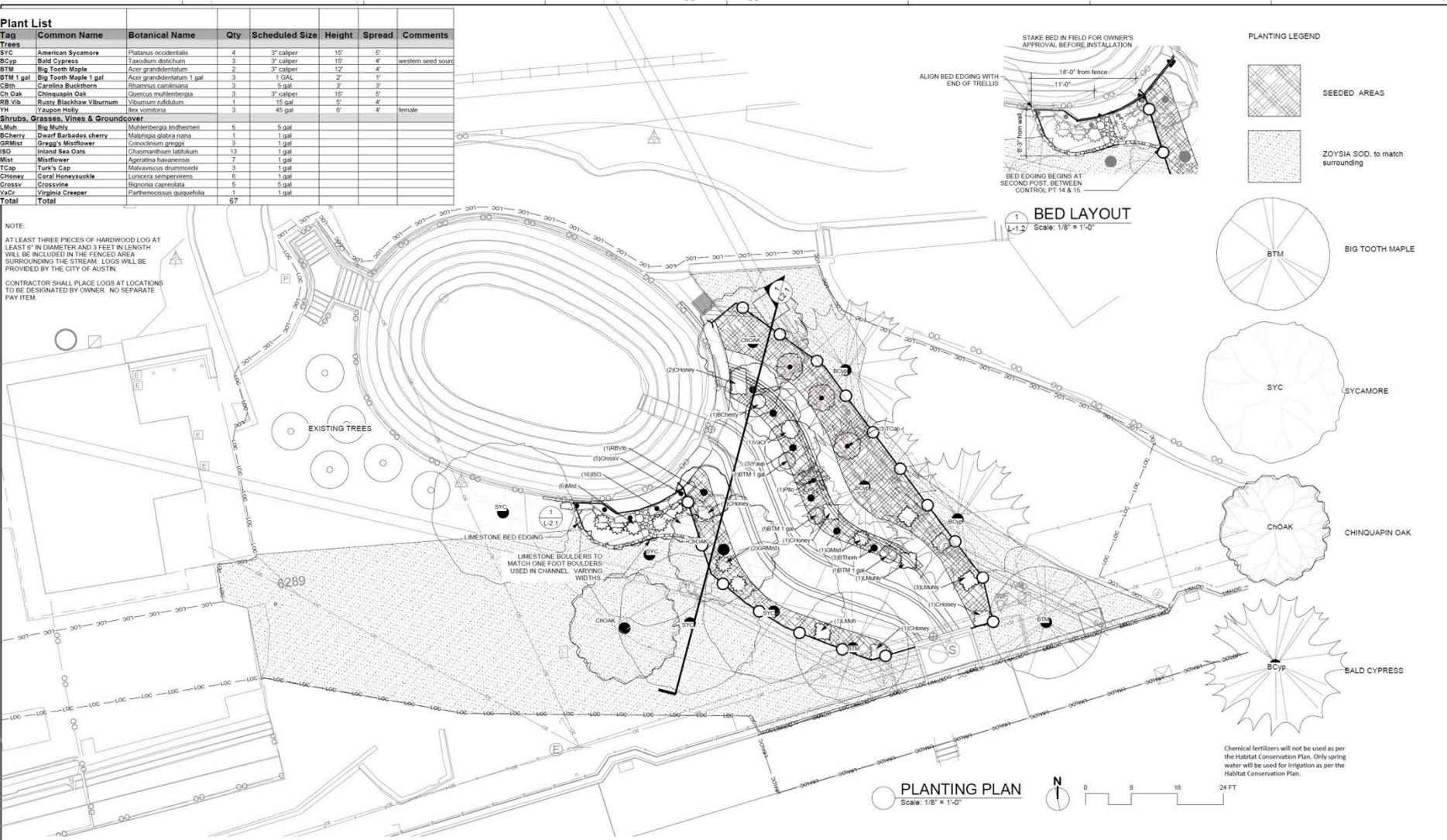


Landscaping Overview

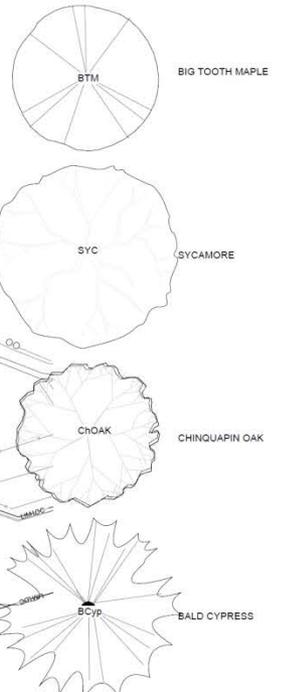
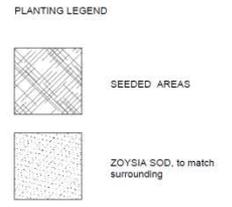
Tag	Common Name	Botanical Name	Qty	Scheduled Size	Height	Spread	Comments
Trees							
SYC	American Sycamore	Platanus occidentalis	4	3" caliper	15'	5'	
BCyp	Bald Cypress	Taxodium distichum	3	3" caliper	15'	4'	western seed source
BTM	Big Tooth Maple	Acer grandidentatum	2	3" caliper	12'	4'	
BTM 1 gal	Big Tooth Maple 1 gal	Acer grandidentatum 1 gal	3	1 gal	2'	1'	
CBth	Carolina Buckthorn	Rhamnus caroliniana	3	5 gal	3'	3'	
Ch Oak	Chinquapin Oak	Quercus muhlenbergii	3	3" caliper	18'	5'	
BB Vib	Buxus Blackhaw Viburnum	Viburnum nudum	1	15 gal	9'	4'	
YH	Yaupon Holly	Ilex vomitoria	3	45 gal	6'	4'	female
Shrubs, Grasses, Vines & Groundcover							
L.Mh	Big Holly	Ilexterrestris lewisii	5	5 gal			
BCberry	Dwarf Barbados cherry	Malpighia glabra nana	1	1 gal			
GRMist	Gregg's Mistflower	Conoclinium greggii	3	1 gal			
ISO	Inland Sea Oats	Chasmodon latifolium	13	1 gal			
Mist	Mistflower	Agerathia havanensis	7	1 gal			
TCap	Turk's Cap	Malvastrum drummondii	3	1 gal			
Crney	Central Honeysuckle	Lonicera sempervirens	6	1 gal			
Crossv	Crossvine	Bignonia capreolata	5	5 gal			
VaCr	Virginia Creeper	Parthenocissus quaquefolia	1	1 gal			
Total	Total		67				

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
 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>