

ABBREVIATIONS

- The following abbreviations were used in the plant tables:
- BL - Broken Limbs; Tree has significant broken branches.
 - DW - Dead Wood; Tree has significant die back or dead/broken limbs.
 - DY - Dying; Tree is dying.
 - FD - Frost Damage.
 - IN - Insect or Disease Infestation.
 - LB - Low Branched; Tree has many low branches that will need to be removed for salvaged and removal will destroy structure of tree.
 - LE - Leaning; Tree is leaning to the point where salvage will be difficult.
 - MS - Marginal Salvage; Used during field inventory to identify less desirable salvage candidates to be used if needed to meet % requirements.
 - MT - Tree has significant mistletoe infestation.
 - NV - Not Viable; These are trees which are not included in the calculations for the site because they are not in viable condition.
 - OT - Tree has an old trunk indicating dieback at some point in the past.
 - PD - Pruning Damage.
 - PIP - Plants to be preserved in place.
 - PROX - Other vegetation in the vicinity will make salvage difficult.
 - PS - Possible Salvage; Used in the field to identify best potential salvage candidates.
 - RD - Rodent Damage; Rodents have excavated at the base of the tree.
 - RFS - Plants to be removed from site, damaged or destroyed.
 - RT - Rotted Trunk; Trunk has been broken off or rotted out and has hollow areas, making long term health and viability of the tree questionable.
 - SAL - Salvage; Used during field inventory to identify trees that should be salvaged regardless of % requirements.
 - SL - Slope; Tree is on steep slope where salvage will not be possible.
 - SO - Soils; Soil is rocky or otherwise unsuitable for excavation.
 - SR - Surface roots are evident, making excavation difficult.
 - ST - Stunted.
 - SZ - Size of the tree; either spread, caliper or height is not conducive to salvage.
 - TD - Trunk Damage.
 - TM - Too Multi; Tree has multiple trunks coming out of the ground that will make moving the tree difficult without significant damage.
 - TOS - Plant to be transplanted on site.
 - VMS - Very Marginal Salvage; Used during field inventory to identify least desirable salvage candidates to be used if needed to meet % requirements.

GENERAL NOTES

1. Zoning = SR
2. Gross Site Area = 143,737 sf (3.30 acres)
3. Land Use = Residential
4. Any changes in grading limits or development layout must be submitted to the Planning Department to determine if a revised plan will be required.
5. Area Calculations:
 - a. Gross site area = 143,737 sf (3.30 acres)
 - b. Total area graded = 66,740 sf (1.53 acres)
 - c. Total riparian habitat on site = 0.00 acres
 - d. Total proposed riparian habitat disturbance = 0.00 acres
7. Bufferyard elements within sight visibility triangles shall be placed so as not to interfere with a visibility plane described by two horizontal lines located 30 inches and 72 inches above finished grade of the roadway surface.

NATIVE PLANT PRESERVATION NOTES

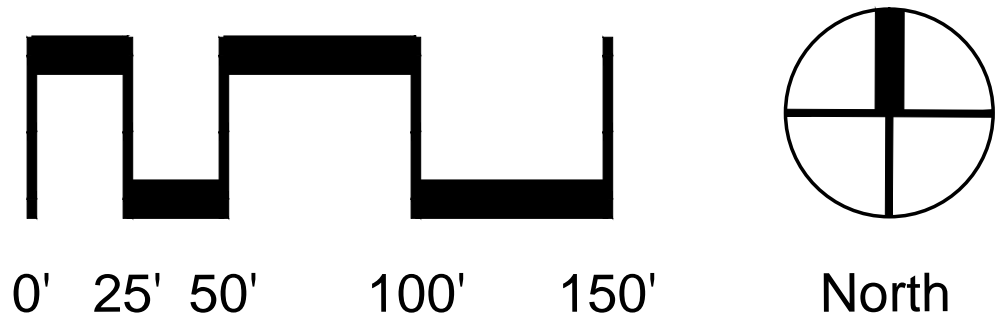
1. All areas designated to be preserved as natural open space shall be fenced for protection during construction using minimum 4-foot high orange mesh barricade fencing. Protective fencing must remain in place throughout the construction and development process.
2. All preserved in place, transplanted and supplemental plants will be fenced at the drip line during construction. The drip line for saguaros will be at a radius of 1/4 the height of the plant. Protective fencing must remain in place throughout the construction and development process.
3. The assigned monitor must provide a report to the Subdivision Review Section of the Planning Division that the fencing has been properly installed and that all plant tags are in place before grading permits can be issued.
4. The north side of all saguaro and barrel cacti approved for transplanting shall be marked prior to removal to ensure proper orientation in the new location.
5. The Owner must hire a monitor for the project. Greg Shinn, GRS Landscape Architects, LLC, 520-877-8037 can provide this monitoring but has not been hired to provide this monitoring.
6. Transplanted plant material shall be irrigated by a drip system while in the temporary holding nursery. This system shall be operated by a temporary battery-operated irrigation controller. Maintenance of salvaged plants in the temporary holding nursery shall be performed weekly by the contractor. Maintenance shall include inspection and repair of the irrigation system, adjustment of the irrigation system, pruning, examination and treatment for diseases and pests, and any other work required by the plant monitor.
7. Mistletoe infections will be removed from specimens before transplanting.
8. Any additional barrel cactus encountered within the limits of construction shall be transplanted within the property. Notify the project monitor of any other additional protected plants encountered during construction.

MITIGATION CALCULATION -- TREES					
	MESQUITE	WT ACACIA	CC ACACIA	BLUE PV	PALO VERDE
Total Number Viable Trees	35	69	43	9	8
Minimum Number PIP or TOS	18	35	22	5	4
Preserved in Place	21	50	27	7	5
Transplanted on Site	0	0	0	0	0
Mitigation Transplant (15 gallon)	0	0	0	0	0
Removed from Site	14	19	16	2	1
Mitigation (RFS)					
15 gallon	28	38	32	4	2
24" Box	14	19	16	2	1
Subtotal Mitigation					
15 gallon	28	38	32	4	2
24" Box	14	19	16	2	1
Preservation Credits					
< 12" (2 credits each)	40	98	52	12	8
> 12" (3 credits each)	3	3	3	3	3
Total Credit	43	101	55	15	11
TOTAL MITIGATION PLANTS ADDED					
15 gallon	0	0	0	0	0
24" Box	0	0	0	0	0

MITIGATION CALCULATION -- SHRUBS		
	HACKBERRY	GREY THORN
Total Number Viable Shrubs	27	2
Minimum Number PIP or TOS	14	1
Preserved in Place	14	1
Transplanted on Site	0	0
Mitigation for Transplant		
5 gallon	0	0
Total RFS	13	1
Mitigation for RFS		
5 gallon	26	2
Subtotal Mitigation	26	2
Preservation Credits		
> 4' (2 credits each)	28	2
Total Credit	28	2
TOTAL MITIGATION PLANTS ADDED	0	0

MITIGATION CALCULATION -- CACTUS	
	BARREL
Total Number Viable Cactus	3
Minimum Number PIP or TOS	2
Preserved in Place	1
Transplanted on Site	2
Mitigation for Transplant	2
Total RFS	0
Mitigation for RFS	0
Subtotal Mitigation	2
Preservation Credits:	
Barrel: >4' = 2 credits	0
Total Credit	0
TOTAL MITIGATION PLANTS ADDED	2

Scale: 1" = 50'



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Date: 5/20/2024
 Drawn by: [Redacted]
 Checked by: [Redacted]

Design Review
 Construction Documents
 Agency Submittal
 Construction Set
 Not for Construction

PLANT INVENTORY		VIABILITY		RECOMMEND	
ID NO.	DESCRIPTION	SIZE	TRANSPLANT	RECOMMEND	COMMENTS
1	Celtis pallida - Hackberry	6	H	H	PIP PS
2	Acacia constricta - Whitethorn Acacia	6	M	M	PIP MS
3	Acacia constricta - Whitethorn Acacia	6	M	M	PIP MS
4	Acacia constricta - Whitethorn Acacia	6	M	L	PIP DW
5	Acacia constricta - Whitethorn Acacia	6	M	L	PIP DW
6	Acacia constricta - Whitethorn Acacia	6	H	L	PIP TM
7	Acacia greggii - Catclaw Acacia	6	H	L	RFS TM, LB
8	Celtis pallida - Hackberry	8	M	M	PIP DW, MS
9	Prosopis velutina - Native Mesquite	8	L	L	NV DW, BL
10	Acacia constricta - Whitethorn Acacia	10	M	L	PIP DW, TM
11	Acacia constricta - Whitethorn Acacia	10	L	L	NV DW, BL
12	Acacia constricta - Whitethorn Acacia	8	M	M	PIP DW, VMS
13	Acacia constricta - Whitethorn Acacia	6	M	M	PIP MS
14	Acacia constricta - Whitethorn Acacia	4	H	M	PIP MS
15	Cercidium floridum - Blue Palo Verde	6	H	M	PIP MS
16	Acacia constricta - Whitethorn Acacia	8	M	L	PIP TM
17	Acacia constricta - Whitethorn Acacia	8	M	L	PIP TM
18	Prosopis velutina - Native Mesquite	6	M	L	PIP LE
19	Acacia constricta - Whitethorn Acacia	8	M	M	PIP LB, VMS
20	Acacia greggii - Catclaw Acacia	6	M	L	PIP LB, TM
21	Acacia constricta - Whitethorn Acacia	8	M	L	RFS LB, DW
22	Celtis pallida - Hackberry	8	M	L	RFS TM, DW
23	Acacia constricta - Whitethorn Acacia	12	L	L	NV BL, DW
24	Acacia constricta - Whitethorn Acacia	12	L	L	NV BL, DW
25	Cercidium floridum - Blue Palo Verde	10	L	L	NV DY, DW
26	Acacia greggii - Catclaw Acacia	10	L	L	NV BL, DW
27	Celtis pallida - Hackberry	10	M	L	RFS BL, DW
28	Celtis pallida - Hackberry	10	M	L	RFS BL, DW, SZ
29	Acacia greggii - Catclaw Acacia	6	M	L	RFS BL, DW
30	Acacia constricta - Whitethorn Acacia	6	L	L	NV BL, DW
31	Celtis pallida - Hackberry	6	M	L	RFS LB, SZ
32	Acacia constricta - Whitethorn Acacia	10	L	L	NV LB, RD
33	Acacia constricta - Whitethorn Acacia	6	L	L	NV LB, DW
34	Cercidium floridum - Blue Palo Verde	8	M	L	RFS LB, DW
35	Acacia constricta - Whitethorn Acacia	6	M	L	RFS LB, DW
36	Zizyphus obtusifolia - Gray Thorn	12	M	L	RFS LB, DW
37	Prosopis velutina - Native Mesquite	10	M	L	RFS LB, DW
38	Cercidium floridum - Blue Palo Verde	8	L	L	NV DY
39	Cercidium microphyllum - Palo Verde	10	M	M	RFS MS
40	Prosopis velutina - Native Mesquite	8	M	M	RFS MS, DW
41	Celtis pallida - Hackberry	4	M	M	RFS MS
42	Acacia greggii - Catclaw Acacia	4	M	M	RFS MS
43	Prosopis velutina - Native Mesquite	12+	L	L	NV OT, ST
44	Cercidium floridum - Blue Palo Verde	12+	L	L	NV OT, DW
45	Prosopis velutina - Native Mesquite	12	M	L	RFS TM
46	Celtis pallida - Hackberry	6	M	M	RFS TM, VMS
47	Prosopis velutina - Native Mesquite	10	M	M	RFS LB, VMS
48	Celtis pallida - Hackberry	6	M	M	RFS MS
49	Celtis pallida - Hackberry	6	M	M	RFS MS
50	Cercidium microphyllum - Palo Verde	8	M	M	RFS VMS, TM
51	Acacia constricta - Whitethorn Acacia	12	M	L	RFS LB, TM
52	Cercidium microphyllum - Palo Verde	12	M	L	RFS LB, TM
53	Prosopis velutina - Native Mesquite	8	M	M	RFS LB, VMS
54	Prosopis velutina - Native Mesquite	10	M	L	RFS LB, TM
56	Acacia constricta - Whitethorn Acacia	4	M	M	RFS MS
57	Celtis pallida - Hackberry	6	M	M	RFS MS
59	Celtis pallida - Hackberry	8	M	M	PIP MS
60	Acacia constricta - Whitethorn Acacia	8	M	M	PIP MS, DW
61	Acacia constricta - Whitethorn Acacia	6	M	M	PIP MS, TM
62	Acacia greggii - Catclaw Acacia	8	L	L	NV DW, TM
63	Acacia constricta - Whitethorn Acacia	10	F	L	RFS LB, TM
64	Prosopis velutina - Native Mesquite	6	M	M	PIP MS
65	Acacia constricta - Whitethorn Acacia	12+	L	L	NV RT, DW
66	Prosopis velutina - Native Mesquite	10	M	M	RFS VMS, DW
67	Acacia greggii - Catclaw Acacia	6	M	M	RFS MS, LB
68	Acacia constricta - Whitethorn Acacia	4	M	M	RFS MS
69	Acacia greggii - Catclaw Acacia	6	M	L	RFS LB, TM
70	Prosopis velutina - Native Mesquite	12	M	L	RFS LB, BL
71	Acacia constricta - Whitethorn Acacia	8	M	L	RFS LB, DW
72	Acacia constricta - Whitethorn Acacia	8	M	L	RFS LB, DW
73	Acacia constricta - Whitethorn Acacia	8	M	L	RFS TM, DW
74	Acacia constricta - Whitethorn Acacia	6	M	M	RFS VMS, DW
75	Acacia constricta - Whitethorn Acacia	8	L	L	NV DW, RT
76	Acacia constricta - Whitethorn Acacia	8	M	M	RFS DW, VMS
77	Acacia constricta - Whitethorn Acacia	4	M	M	RFS DW, VMS
78	Acacia constricta - Whitethorn Acacia	8	L	L	NV DW, BL
79	Acacia greggii - Catclaw Acacia	10	M	L	RFS DW, BL
80	Prosopis velutina - Native Mesquite	12	M	L	RFS LB, SZ
81	Prosopis velutina - Native Mesquite	12+	M	L	RFS LB, SZ
82	Cercidium floridum - Blue Palo Verde	6	M	M	RFS LB, VMS
83	Prosopis velutina - Native Mesquite	12+	M	L	RFS LB, DW
84	Prosopis velutina - Native Mesquite	4	M	L	PIP LB, DW
85	Acacia constricta - Whitethorn Acacia	8	M	L	RFS LB, DW
86	Acacia constricta - Whitethorn Acacia	10	M	L	RFS DW
87	Prosopis velutina - Native Mesquite	12	M	L	PIP BL, DW
88	Acacia constricta - Whitethorn Acacia	6	M	M	PIP MS, LB
89	Acacia constricta - Whitethorn Acacia	6	M	L	PIP DW, LB
90	Prosopis velutina - Native Mesquite	10	M	L	PIP DW, LB

INVENTORY CONTINUED ON THE NEXT PAGE

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NATIVE PLANT PRESERVATION PLAN
(Selective Plant Preservation Method)

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