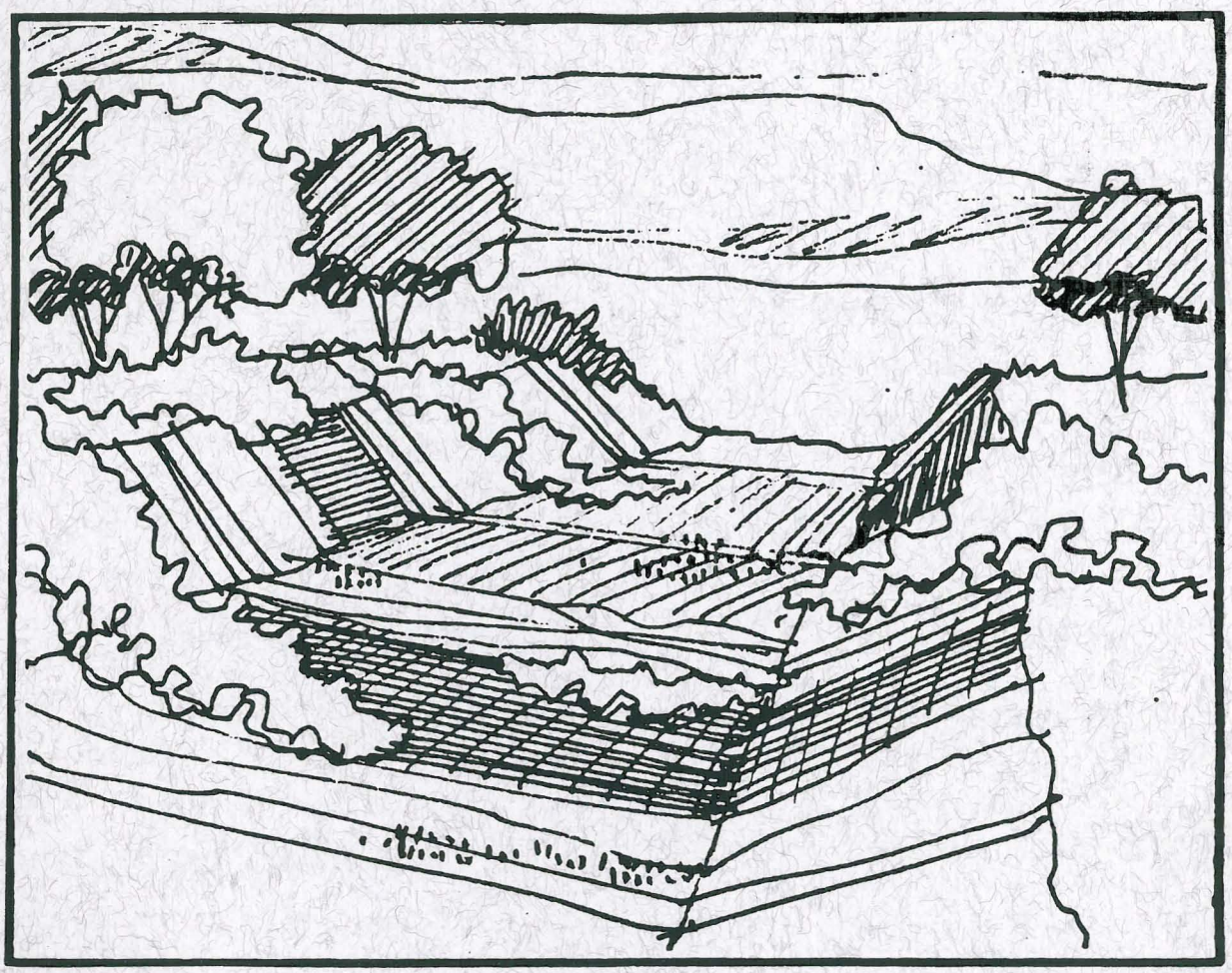


Review of Landscape Treatment for Select Portions of:

UPPER EAST FORK CAVE CREEK CHANNEL

from Union Hills North to Bearsley Road

Flood Control District of Maricopa County

FINAL LANDSCAPE MASTER PLAN

Project No. 9020

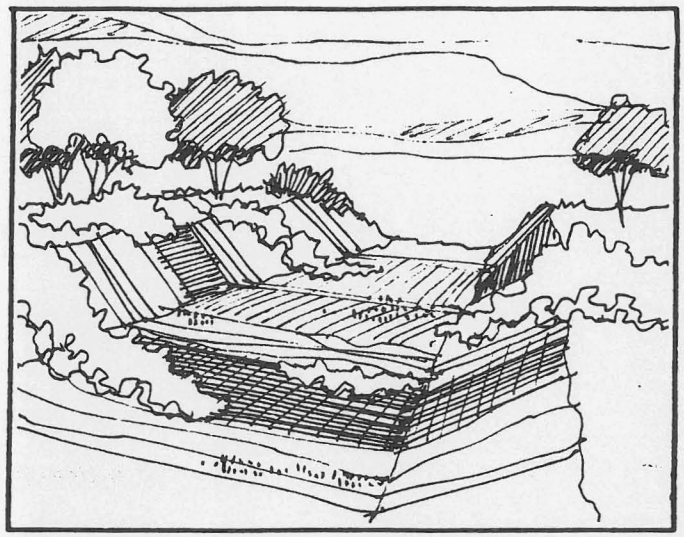
James Abell & Associates

Architecture • Landscape Architecture

A460.911

GUIDELINES

BOTTOM OF CHANNEL

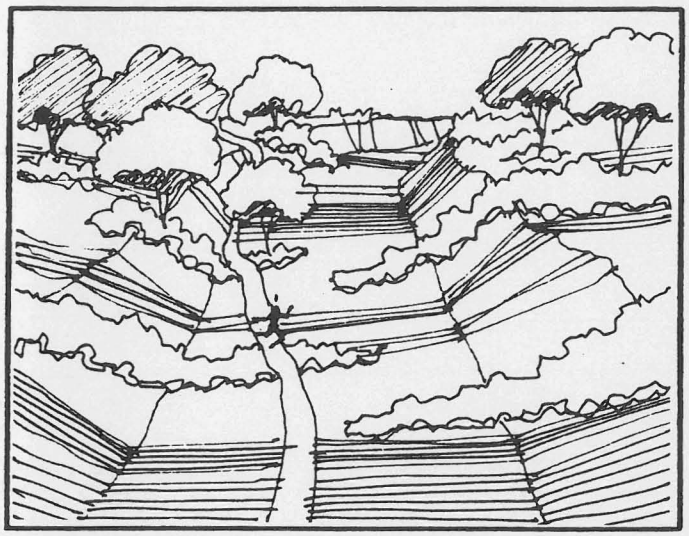


Treatment

Follow Civil Engineering Criteria:

Middle 1/3 of Invert:
- Tall grasses that lay down
- No trees
- No bushes

Outside 1/3's of Invert:
- Tall grasses that lay down
- Mature trees (canopy above breast height) not to exceed 1 tree per 100 ft.
- No bushes

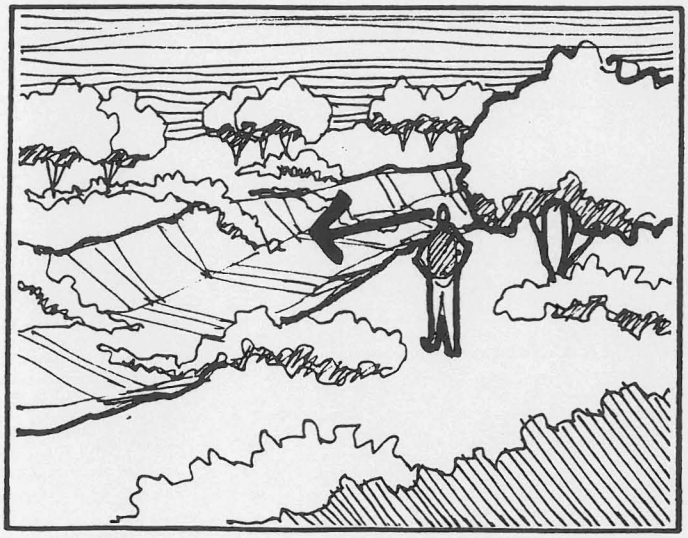


Maintenance Road

Consider use of road for other activities:
horses, exercise

Provide landscape shading at path.

Use natural stabilized surface.



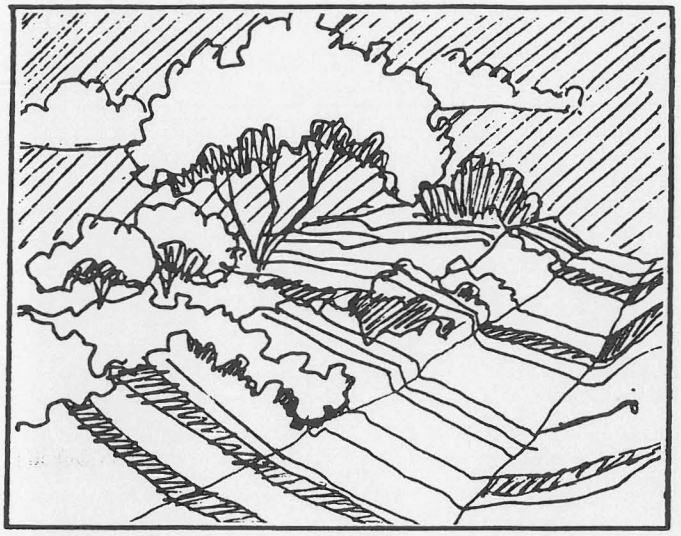
Visibility

Design quality views into Channel.

Provide views which enhance security control of Channel.

Recreate vistas of natural desert landscape character.

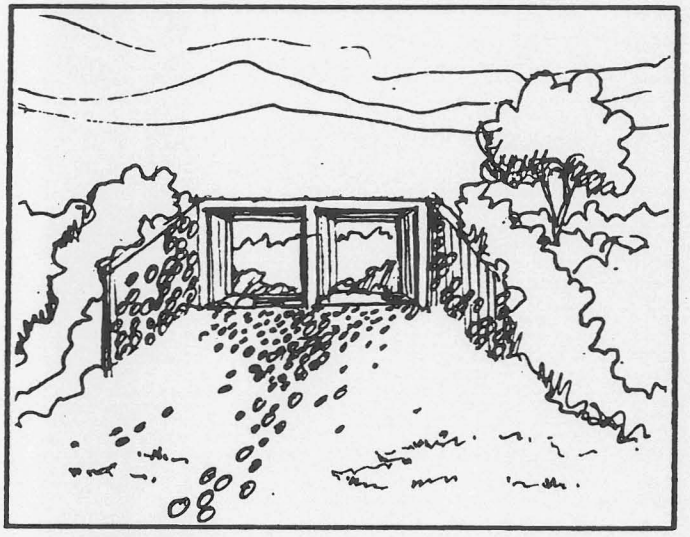
CHANNEL SLOPES



Erosion Control

Use shrubs and trees to increase soil stabilization.

Carefully select irrigation system that will minimize erosion potential



Hardscape

Use appropriate hardscape at steeper channel slopes near drop structures.

Screen views of hardscape with appropriate landscape.

Landscape

Select landscape materials suited for slopes.

Frame desirable views; screen undesirable views.

Follow Civil Engineering Criteria:

Bottom 1/3 of Bank:
- Tall grasses that lay down
- Mature trees (canopy above breast height) not to exceed 1 tree per 100 ft.
- No bushes.

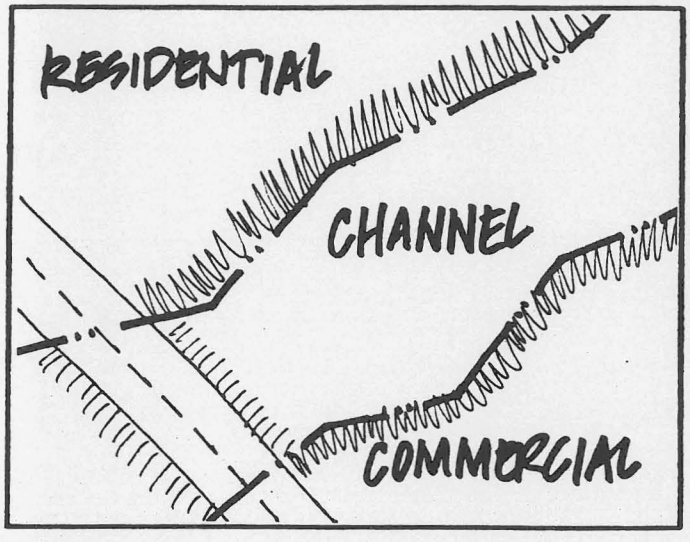
Top 2/3 of Bank:
- Tall grasses
- Trees
- Bushes

TOP OF CHANNEL

Mitigation

Provide 5 acres planted with densities of 50 trees / acre adjacent to Channel to simulate the 2 acre bosque habitat.

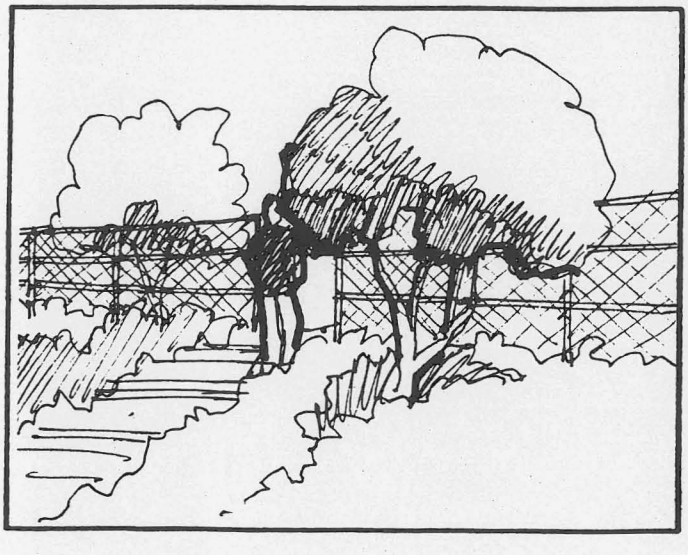
Use native plant materials in order to recreate pre-construction natural desert habitat.



Edges

Provide appropriate landscape at boundaries to address adjacent street frontages, commercial and residential uses.

Coordinate with adjacent users to determine maintenance limitations at interface conditions.



Access

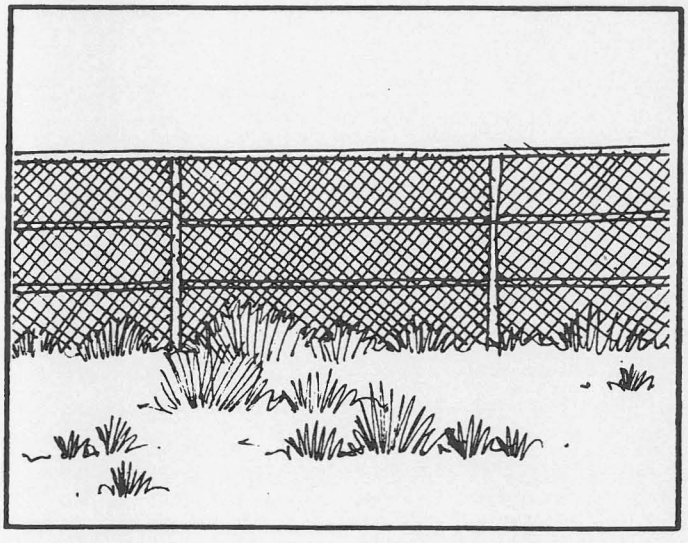
Provide appropriate treatment for pedestrian scale and views at streetfronts, residential areas and commercial uses.

RESIDENTIAL FRONTAGES

Landscape Materials

Use landscape materials compatible with and sensitive to existing adjacent residential conditions.

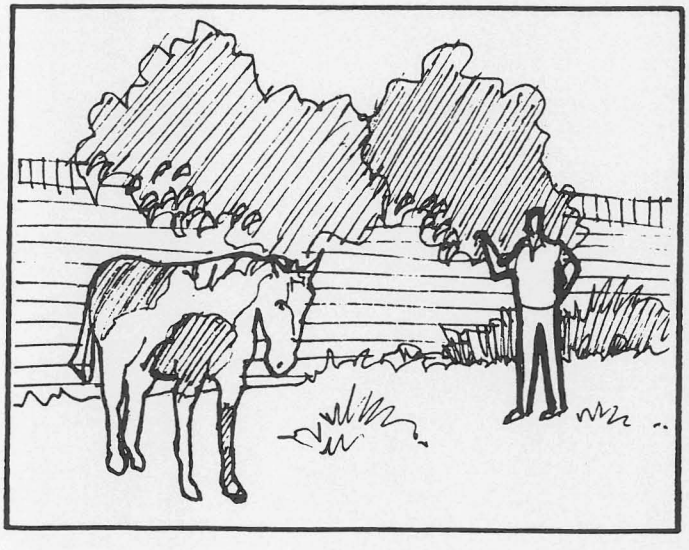
Screen views from Channel into adjacent lots to maintain residential privacy.



Barriers

Establish standard fence design for residential interface locations. Provide landscape screening at solid walls.

Determine irrigation system boundaries and their relationship to edges of existing irrigation systems.

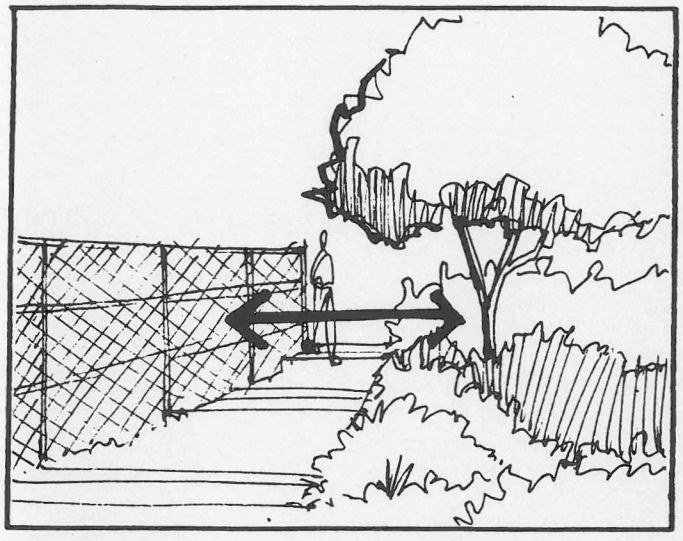


Allergens / Maintenance

Avoid landscape materials with high human and / or animal allergen content.

Avoid high maintenance landscape materials at residential wall interface locations.

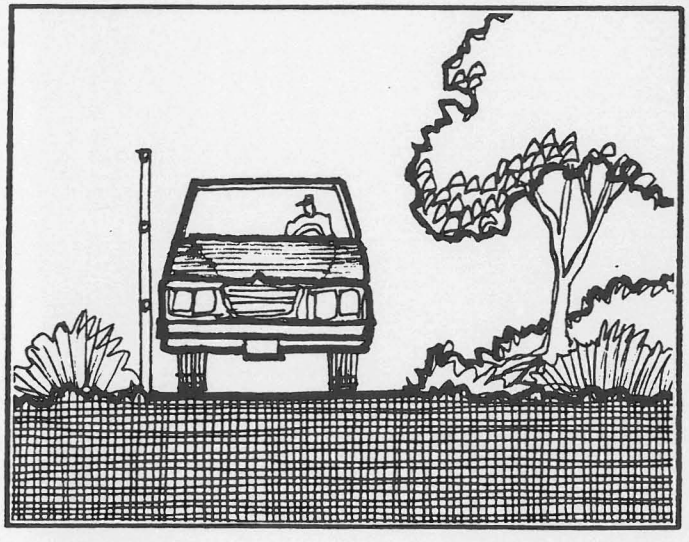
LANDSCAPE EDGES AT MAINTENANCE ROAD



Clearances

Select trees with canopies able to clear maintenance vehicle heights.

Establish buffer distance of 5' minimum between roadway edge and tree trunks.

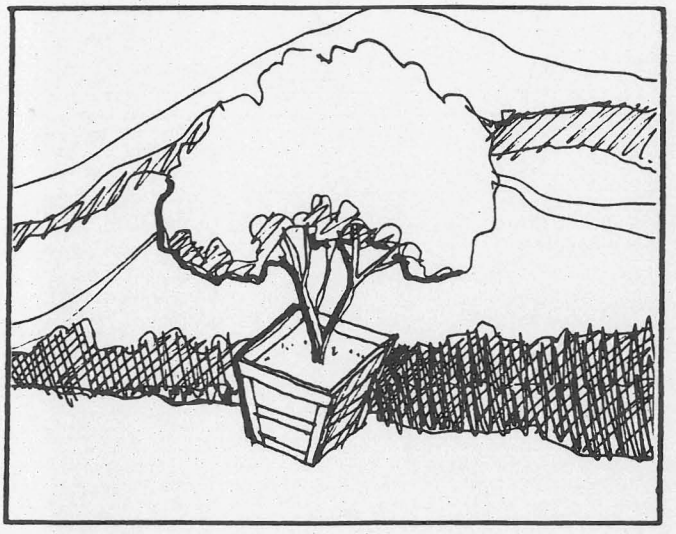


Maintenance

Choose landscape materials at road edge with compact or controllable growth habits.

Avoid trees with invasive roots adjacent to roadway.

COORDINATION ITEMS



Relocation of Salvage Trees to PVCC

Select and reserve trees appropriate for and transportable to PVCC site.

Establish schedule for storage and replanting of salvaged trees.

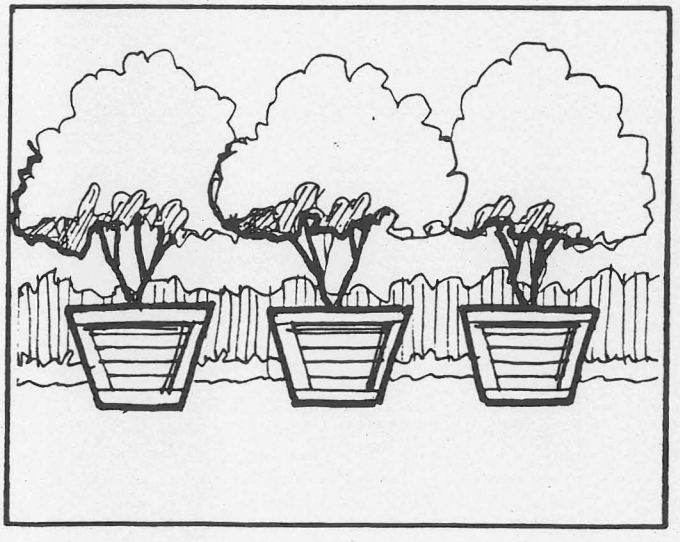
GANTT CHART REPORT
PROJECT: EFCC

Job#	WBS	Name	Dates
33	Abl (Chnl)	Stake Channel	09/17/90 09/20/90
34	Abl (Chnl)	Prepare Pre-Discharge Permit	09/19/90 10/31/90
35	Abl (Chnl)	Vegetative Inventory (FCD)	09/19/90 10/17/90
36	Abl (Chnl)	Project Policy Formulation	09/19/90 10/17/90
37	Abl (Chnl)	Phase I Review FCD)	10/17/90 10/31/90
38	Abl (Chnl)	Exhibit Preparation	09/19/90 10/17/90
39	Abl (Chnl)	Tree Salv Bid Doc Prep	10/17/90 11/14/90
40	Abl (Chnl)	Mitigation (FCD)	11/14/90 12/28/90
41	Abl (Chnl)	Phase II Kickoff Mtg (FCD)	10/31/90 10/31/90
42	Abl (Chnl)	Program Analysis Prep	10/31/90 11/14/90
43	Abl (Chnl)	Program Analysis Review (FCD)	11/14/90 11/28/90
44	Abl (Chnl)	Schs Master Plan Prep	11/28/90 12/13/90
45	Abl (Chnl)	Schs Master Plan Review (FCD)	12/13/90 12/28/90
46	Abl (Chnl)	Final Master Plan Prep	12/28/90 02/04/91
47	Abl (Chnl)	Final Master Plan Review (FCD)	02/04/91 02/18/91
48	Abl (Chnl)	Phase III Kickoff Mtg (FCD)	02/18/91 02/18/91
49	Abl (Chnl)	90% Const Doc Prep	02/18/91 04/29/91
50	Abl (Chnl)	90% Const Doc Review (FCD)	04/29/91 05/20/91
51	Abl (Chnl)	100% Kickoff Mtg (FCD)	05/20/91 05/20/91

1990 SEP OCT NOV DEC 1991 JAN FEB

Landscape Contract with Channel Construction

Coordinate schedule and decisions with other Flood Control District Consultants.

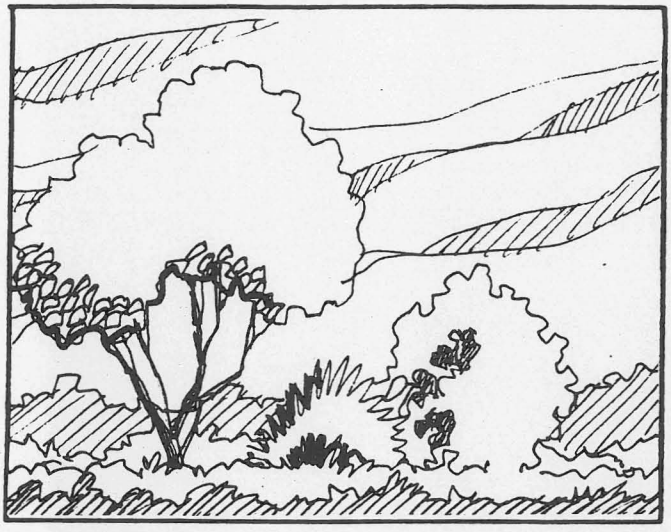


Tree Salvage / Storage

Establish tree storage location at east boundary of site near Union Hills Drive. See Salvage Documents for location.

Coordinate service / maintenance access and watering system provisions for duration of tree storage by subcontractor.

LANDSCAPE AT TREE FARM



Compatible Landscape Selection

Select landscape materials compatible with adjacent setting.

Choose plant materials with desirable characteristics; avoid plant materials with undesirable pollens, disease or aesthetic appeal.

PLANT PALETTE

UPPER EAST FORK CAVE CREEK CHANNEL

PLANT PALETTE

BY PLANT TYPE

	BOTANICAL NAME	COMMON NAME
TREES:	Acacia minuta	Sweet acacia
	Celtis pallida	Desert hackberry
	Cercidium floridum	Blue palo verde
	Cercidium microphyllum	Little-leaf palo verde
	Cercidium praecox	Sonoran palo verde
	Chilopsis linearis	Desert willow
	Lysiloma thornberi	Feather bush
	Olneya tesota	Ironwood
	Prosopis juliflora	Mesquite
	Prosopis velutina	Velvet mesquite
	Sophora secundiflora	Mescal bean
SHRUBS:	Ambrosia ambrosiodes	Canyon ragweed
	Ambrosia deltoidea	Triangle-leaf bursage
	Anisacanthus thurberi	Desert honeysuckle
	Dasylirion wheeleri	Desert spoon
	Dodonea viscosa var "purpurea"	Purple hopseed
	Justicia brandegeana	Shrimp plant
	Larrea divaricata	Creosote bush
	Lycium andersonii	Wolf-berry
	Rhus ovata	Sugar bush
	Salvia greggii	Sage
	Simmondsia chinensis	Jojoba
	Yucca elata	Soaptree yucca
	Zizyphus lyciodes	Greythorn
GROUNDCOVERS:	Baccharis pilularis	Coyote bush
	Dalea greggii	Indigo bush
HYDROSEED MIX #1: (grasses & forbs)	Aristida purpurea	Purple three-awn
	Bouteloua barbata	Six-weeks grama
	Cynodon dactylon	Bermuda grass
	Mulenbergia porteri	Bush muhly
	Mulenbergia rigens	Deer grass
	Plantago insularis	Indian wheat
HYDROSEED MIX #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow

HYDROSEED MIX #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

UPPER EAST FORK CAVE CREEK CHANNEL

PLANT PALETTE

BY AREAS

	BOTANICAL NAME	COMMON NAME
I. CHANNEL: MIDDLE 1/3 OF INVERT		
Hydroseed Mix #1: (grasses & forbs)	Aristida purpurea	Purple three-awn
	Bouteloua barbata	Six-weeks grama
	Cynodon dactylon	Bermuda grass
	Mulenbergia porteri	Bush muhly
	Mulenbergia rigens	Deer grass
	Plantago insularis	Indian wheat
II. CHANNEL: OUTSIDE 1/3'S OF INVERT & BOTTOM 1/3'S OF BANKS		
Trees: (limited to 1 tree per 100 lineal feet)	Cercidium floridum	Blue palo verde
	Cercidium praecox	Sonoran palo verde
	Chilopsis linearis	Desert willow
	Olneya tesota	Ironwood
	Prosopis velutina	Velvet mesquite
Hydroseed Mix #1: (grasses & forbs)	Aristida purpurea	Purple three-awn
	Bouteloua barbata	Six-weeks grama
	Cynodon dactylon	Bermuda grass
	Mulenbergia porteri	Bush muhly
	Mulenbergia rigens	Deer grass
	Plantago insularis	Indian wheat
III. CHANNEL: TOP 2/3'S OF BANKS		
Trees:	Cercidium floridum	Blue palo verde
	Cercidium praecox	Sonoran palo verde
	Olneya tesota	Ironwood
	Prosopis velutina	Velvet mesquite
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
IV. TOP OF CHANNEL		
Trees:	Cercidium microphyllum	Little-leaf palo verde
	Cercidium praecox	Sonoran palo verde
	Chilopsis linearis	Desert willow
	Prosopis velutina	Velvet mesquite

Shrubs:	Ambrosia ambrosiodes	Canyon ragweed
	Ambrosia deltoidea	Triangle-leaf bursage
	Dasylirion wheeleri	Desert spoon
	Larrea divaricata	Creosote bush
	Lycium andersonii	Wolf-berry
	Simmondsia chinensis	Jojoba
	Yucca elata	Soaptree yucca
	Zizyphus lyciodes	Greythorn
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baileya multiradiata	Desert marigold
	Baccharis pilularis	Coyote brush
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

V. LANDSCAPE AT RESIDENTIAL FRONTAGES:

Trees:	Acacia minuta	Sweet acacia
	Cercidium microphyllum	Little-leaf palo verde
	Cercidium praecox	Sonoran palo verde
	Chilopsis linearis	Desert willow
	Lysiloma thornberi	Feather bush
	Prosopis juliflora	Mesquite
Shrubs:	Dodonea viscosa var "purpurea"	Purple hopseed
	Larrea divaricata	Creosote bush
	Lycium andersonii	Wolf-berry
	Simmondsia chinensis	Jojoba
	Zizyphus lyciodes	Greythorn
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow

Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

VI. LANDSCAPE EDGE AT MAINTENANCE ROAD:

Trees:	Cercidium floridum	Blue palo verde
	Chilopsis linearis	Desert willow
	Olneya tesota	Ironwood
	Prosopis velutina	Velvet mesquite
Shrubs:	Ambrosia deltoidea	Triangle-leaf bursage
	Anisacanthus thurberi	Desert honeysuckle
	Justicia brandegeana	Shrimp plant
	Rhus ovata	Sugar bush
Groundcovers:	Baccharis pilularis	Coyote bush
	Dalea greggii	Indigo bush
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

VII. LANDSCAPE EDGES AT STREETS

Trees:	Cercidium floridum	Blue palo verde
	Cercidium microphyllum	Little-leaf palo verde
	Chilopsis linearis	Desert willow
	Lysiloma thornberi	Feather bush
	Prosopis velutina	Velvet mesquite
Shrubs:	Ambrosia deltoidea	Triangle-leaf bursage
	Anisacanthus thurberi	Desert honeysuckle
	Dasylirion wheeleri	Desert spoon
	Dodonea viscosa var "purpurea"	Purple hopseed
	Yucca elata	Soaptree yucca
	Zizyphus lyciodes	Greythorn

Groundcovers:	Baccharis pilularis	Coyote bush
	Dalea greggii	Indigo bush
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

VIII. DRAINAGE STRUCTURE INTERFACE

(at top of channel where occurs at slopes; use sections II & III at other respective conditions)

Trees:	Acacia minuta	Sweet acacia
	Celtis pallida	Desert hackberry
	Lysiloma thornberi	Feather bush
	Sophora secundiflora	Mescal bean
Shrubs:	Ambrosia ambrosiodes	Canyon ragweed
	Ambrosia deltoidea	Triangle-leaf bursage
	Anisacanthus thurberi	Desert honeysuckle
	Dodonea viscosa var "purpurea"	Purple hopseed
	Larrea divaricata	Creosote bush
	Simmondsia chinensis	Jojoba
Groundcovers:	Baccharis pilularis	Coyote bush
	Dalea greggii	Indigo bush
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow

Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

IX. LANDSCAPE AT PEDESTRIAN ACCESS POINTS:

Trees:	Acacia minuta	Sweet acacia
	Cercidium microphyllum	Little-leaf palo verde
	Chilopsis linearis	Desert willow
	Lysiloma thornberi	Feather bush
	Prosopis velutina	Velvet mesquite
	Sophora secundiflora	Mescal bean
Shrubs:	Ambrosia deltoidea	Triangle-leaf bursage
	Anisacanthus thurberi	Desert honeysuckle
	Dodonea viscosa var. "purpurea"	Purple hopseed
	Justicia brandegeana	Shrimp plant
	Rhus ovata	Sugar bush
	Salvia greggii	Sage
Groundcovers:	Baccharis pilularis	Coyote bush
	Dalea greggii	Indigo bush
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

X. LANDSCAPE AT TREE FARM

Trees:	Acacia minuta	Sweet acacia
	Cercidium microphyllum	Little-leaf palo verde
	Chilopsis linearis	Desert willow
	Celtis pallida	Desert hackberry
	Lysiloma thornberi	Feather bush
	Olneya tesota	Ironwood
	Sophora secundiflora	Mescal bean

Shrubs:	Ambrosia ambrosiodes	Canyon ragweed
	Ambrosia deltoidea	Triangle-leaf bursage
	Dasylirion wheeleri	Desert spoon
	Dodonea viscosa var "purpurea"	Purple hopseed
	Larrea divaricata	Creosote bush
	Lycium andersonii	Wolf-berry
	Simmondsia chinensis	Jojoba
	Zizyphus lyciodes	Greythorn
Hydroseed Mix #2: (grasses, forbs & shrubs)	Aristida purpurea	Purple three-awn
	Baccharis pilularis	Coyote brush
	Baileya multiradiata	Desert marigold
	Beleperone californica	Chuparosa
	Cassia covesii	Desert senna
	Calliandra eriophylla	Fairy duster
	Cynodon dactylon	Bermuda grass
	Dalea greggii	Indigo bush
	Encelia farinosa	Brittlebush
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Plantago insularis	Indian wheat
	Sphaeralcea ambigua	Desert mallow
Hydroseed Mix #3: (color spot)	Beleperone californica	Chuparosa
	Escholtzia californica	California poppy
	Oenothera pallada	Primrose
	Penstemon eatonii	Firecracker penstemon
	Phacelia campanularia	Mohave bluebells
	Salvia greggii	Sage
	Sphaeralcea ambigua	Desert mallow

	Mature Height	Mature Spread	Evergreen (E), Perennial (P) Deciduous (D), Annual (A)	Growth Rate: Fast (F), Moderate (M), Slow (S)	Sun (S), Shade (SH), Part Shade (P), All (A)	Low Water use (L) Moderate Water use (M)	Flowers: Spring/Summer (S), Fall/Winter (F)	Flower Color: White (W), Red (R), Pink (P), Yellow (Y), Blue (B), Purple (PU)
Acacia minuta Sweet acacia	20-40'	20-40'	E	F	S	L/M		
Ambrosia ambrosiodes Canyon ragweed	3-4'		P				S	Y
Ambrosia deltoidea Triangle-leaf bursage	2'	VAR	E	S	S	L	S	R
Anisacanthus thurberi Desert honeysuckle	3-' 3 1/2	4	E/D	M/F	S	L	S	Y/O
Aristida purpurea Purple three-awn	8"	4-6"	P	F	S	L	-	B
Baccharis pilularis Coyote bush	24"	24"	E	M	S/P	M	-	-
Baileya multiradiata Desert marigold	18"	12"	P	M	S	M	S	Y
Beleperone californica Chuparosa	5'	4'	D		S	L	S	R
Bouteloua barbata Six-weeks grama	12"							
Calliandra eriophylla Fairy duster	3'	3'	D	S	S	L	S	R
Cassia covesii Desert senna	1-2'		P				S	Y

	Mature Height	Mature Spread	Evergreen (E), Perennial (P) Deciduous (D), Annual (A)	Growth Rate: Fast (F), Moderate (M), Slow (S)	Sun (S), Shade (SH), Part Shade (P), All (A)	Low Water use (L) Moderate Water use (M)	Flowers: Spring/Summer (S), Fall/Winter (F)	Flower Color: White (W), Red (R), Pink (P), Yellow (Y), Blue (B), Purple (PU)
Celtis pallida Desert hackberry	8'	8'	E	M	S	L	-	-
Cercidium floridum Blue palo verde	40'	40'	D	F	S	L	S	Y
Cercidium microphyllum Little-leaf palo verde	20'	20'	D	F	S	L	S	Y
Cercidium praecox Sonoran palo verde	35'	30'	D	F	S	L	S	Y
Chilopsis linearis Desert willow	20'	15'	D	F	S	L	S	P
Cynodon dactylon Bermuda grass	1-2"	-	P	F	S	L	-	-
Dalea greggii Indigo bush	1 1/2'	2'	E/D	M	S	L	S	P
Dasylirion wheeleri Desert spoon	5'	6'	E	M	S/P	L	S	W
Dodonea viscosa var "purpurea" Purple hopseed	10'	8'	E	F	S	L	-	-
Encelia farinosa Brittlebush	3'	4'	E	F	S	L	S	Y
Escholtzia californica California poppy	12"	VAR	P (A)	M	S	L	S	Y/O

	Mature Height	Mature Spread	Evergreen (E), Perennial (P) Deciduous (D), Annual (A)	Growth Rate: Fast (F), Moderate (M), Slow (S)	Sun (S), Shade (SH), Part Shade (P), All (A)	Low Water use (L) Moderate Water use (M)	Flowers: Spring/Summer (S), Fall/Winter (F)	Flower Color: White (W), Red (R), Pink (P), Yellow (Y), Blue (B), Purple (PU)
Justicia brandegeana Shrimp plant	3'	4'	E,P	P/S	M	S	O	
Larrea divaricata Creosote bush	10'	10'	E	S	S	L	S	Y
Lycium andersonii Wolf-berry	3-9'	6'	E	S	S	L	S	W/PU
Lysiloma thornberi Feather bush	15'	12'	E/D	F	S	L	S	W
Mulenbergia porteri Bush muhly	1-3'		P					P
Mulenbergia rigens Deer grass	3-3 1/2'	3-3 1/2'	P	M	S	L	-	-
Oenothera pallada Primrose	12"	12"	D	F	P/S	M	S	P
Olneya tesota Ironwood	30'	30'	E	M	S	L	-	-
Penstemon eatonii Firecracker penstemon	18"-2'	18"	E	M	S	L	S	R
Phacelia campanularia Mohave bluebells	30"		E	S	S	L	S	B
Plantago insularis Indian wheat	4'	4'		F		L	S	B

	Mature Height	Mature Spread	Evergreen (E), Perennial (P) Deciduous (D), Annual (A)	Growth Rate: Fast (F), Moderate (M), Slow (S)	Sun (S), Shade (SH), Part Shade (P), All (A)	Low Water use (L) Moderate Water use (M)	Flowers: Spring/Summer (S), Fall/Winter (F)	Flower Color: White (W), Red (R), Pink (P), Yellow (Y), Blue (B), Purple (PU)
Prosopis juliflora Mesquite	(E	X	I	S	T	I	N	G)
Prosopis velutina Velvet mesquite	20-25'	30'	D	F		L	-	-
Rhus ovata Sugar bush	10'	10'	E	S	P/S	L	S	W
Salvia greggii Sage	3'	3'	E	M	S	L	S	P
Simmondsia chinensis Jojoba	6'	6'	E	F	S	L	-	-
Sophora secundiflora Mescal bean	20'	15'	E	M	S	L	S	PU
Sphaeralcea ambigua Desert mallow	12-16"	12-16"	E	M	S	L	S	O/P
Yucca elata Soaptree yucca	12'	VAR	E	S	S	L	S	Y
Zizyphus lyciodes Greythorn	3-4'		D				S	