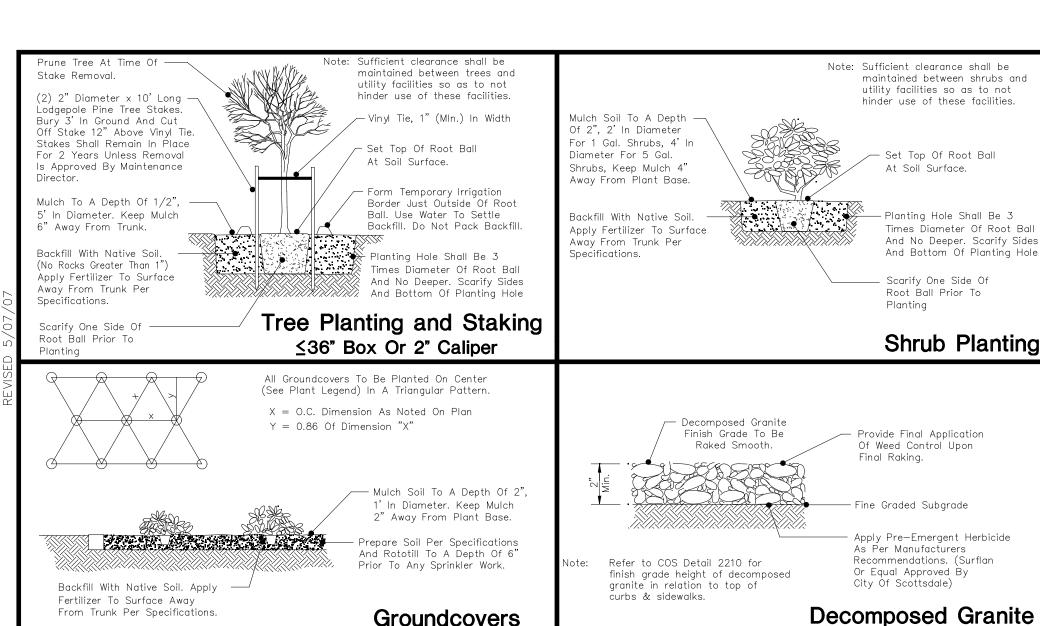
	MINIMUM TREE SIZE REQUIREMENTS													IZE	<b>REQUIREMEN</b>	ΓS								
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ACACIA					ACACIA (Cont.)					ARGENTINE MESQUITE	15	5	3	0.75	VELVET\ ARIZONA (M)	15	5.5	3	0.5	SONORAN	15	6	2	0.75
BLUE LEAF WATTLE	15	6	2	0.75	<u>WEEPING</u>	15	5	2	0.75	(M) (PROSOPIS ALBA )	24	8	5	1.25	(PROSOPIS VELUNTINA)	24	7	4	1	(CERCIDIUM PRAECOX)	24	7	4	1.5
(ACACIA SALIGNA)	24	8	4	1.5	(ACACIA PENDULA)	24	6.5	3	1.25		30	9	7	1.5		30	9	6	1.5		30	8	6	2
	30	10	5	2		30	9	5	2		36	11	9	2		36	10	8	2		36	10	8	2.5
	36	12	6	2.5		36	11	6	2.5		42		11	2.5		42	12	10	2.5		42	11	10	3
BERLANDER\ GUAJILLO	15	4	2	0.5	WILLOW \	15	6	2	0.75		48	15	13	3		48	14	12	3		48	12	12	3.5
(M) (ACACIA BERLANDIERI)	24	5	4	1	AUSTRALIAN WILLOW	24	8	4	1.5	MESQUITE (Cont.)					<u>PALOVERDE</u>					SONORAN (M)	15	5	2	0.5
	30	7	5	1.5	(ACACIA SALICINA)	30	10	5	2	CHILEAN MESQUITE	15	6	2	0.75	BLUE PALO VERDE	15	6	2	0.75	(CERCIDIUM PRAECOX )	24	7	4	1
	36	9	6	2		36	14	6	2.5	(PROSOPIS CHILENSIS)	24	8	4	1.5	(CERCIDIUM FLORIDUM)	24	7.5	4	1.5		30	8	6	1.5
<u>MULGA</u>	15	5	2	0.75							30	9	6	2		30	9	7	2		36	10	8	2
(ACACIA ANEURA)	24	7	4	1.5	<u>IRONWOOD</u>						36	10	8	2.5		36	10	8	2.5		42	11	10	2.5
	30	9	6	2	DESERT IRONWOOD	15	3	2	0.5		42	12	10	3		42	12	9	3		48	12	12	3
	36	10	8	2.5	(OLNEYA TESOTA)	24	6	3	1.25		48	14	12	3.5		48	14	10	3.5	OTHER TREES				
<u>SHOESTRING</u>	15	7	2.5	0.75		30	8	6	2	CHILEAN MESQUITE (M)	15	5	3	0.5	BLUE PALO VERDE (M)	15	5	3	0.5	AFRICAN SUMAC	15	7	2	0.75
(ACACIA STENOPHYLLA)	24	9	4	1.5		36	10	8	2.5	(PROSOPIS CHILENSIS)	24	8	5	1	(CERCIDIUM FLORIDUM )	24	7	4	1	(RHUS LANCEA)	24	9	4	1.25
	30	11	5	2		42	11	9	3		30	9	7	1.5		30	8	6	1.5		30	11	6	2
	36	13	6	2.5		48	12	10	3.5		36	10	9	2		36	10	8	2		36	12	8	2.5
	42	15	7	3	DESERT IRONWOOD (M)	15	3	2	0.5		42	12	11	2.5		42	12	9	2.5		42	14	8	3.5
	48	17	8	4	(OLNEYA TESOTA )	24	6	3	1.25		48	14	13	3		48	14	11	3		48	15	9	4
SHOESTRING (M)	15	7	2.5	0.5		30	8	6	2	HONEY MESQUITE (M)	15	6	2	0.75	LITTLE LEAF\ FOOTHILLS	15	4	2	0.5	AFRICAN SUMAC (M)	15	5	3	0.75
(ACACIA STENOPHYLLA )	24	9	4	1		36	10	8	2.5	(PROSOPIS -	24	8	4	1.5	(CERCIDIUM -	24	6	3	1	(RHUS LANCEA)	24	8	4.5	1
	36	13	6	2		42	11	9	3	GLANDULOSA )	30	9	6	2	MICROPHYLLUM)	30	7	5	1.5		30	9	7	1.5
<u>SWEET</u>	15	6	2.5	0.75		48	12	10	3.5		36	10	8	2.5		36	8	6	2		36	11	8	2
(ACACIA SMALLII)	24	8	4	1.5	<u>MESQUITE</u>						42	12	10	3	LITTLE LEAF\ FOOTHILLS	15	4	3	0.5		42	13	9	2.5
	30	9	6	2	ARGENTINE MESQUITE	15	6.5	2	0.75		48	14	12	3.5	(M) (CERCIDIUM -	24	5	4	1		48	16	10	3
	36	10	8	2.5	(PROSOPIS ALBA)	24	8	4	1.5	SCREW BEAN (M)	15	5.5	3	0.5	MICROPHYLLUM M)	30	6	5	1.5	<u>ALEPPO</u>	15	6	3	0.75
	42	12	10	3		30	9	6	2	(PROSOPIS -	24	8	4	1		36	8	7	2	(PINUS HALEPENSIS)	24	9	4	2
	48	14	12	3.5		36	11	8	2.5	PUBESCENS)	30	9	6	1.5							30	11	6	3
SWEET (M)	15	5	3	0.5		42	13	10	3		36	10	8	2							36	14	7	3.5
(ACACIA SMALLII )	24	8	5	1		48	15	12	3.5		42	12	10	3							42	16	9	4
	30	9	7	1.5							48	14	12	3.5							48	18	10	4.5
	36	10	9	2																				
	42	12	10	2.5	See General Notes																			
	48	14	12	3	Page 3															Page 1 of 3				
DETAIL NO.	C	itv	of	Sco	ottsdale APPROVE	) BY																DETA	JI NO	Ο.
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2600-1	\$	Sta	nda	ard	Details					MINIM		<u> </u>	TF	ξE	E SIZE RE	:Q	U	IR	E	MENTS	2	<u>60</u>	<b>0</b> -	1

					MI	NIM	UM	ΙT	REE SIZE REQ	UIR	EN	ΛEΝ	NTS										
Name	Size	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ARIZONA ASH	15 8		1	Canary Island Pine	15	T I			COOLIBAH	15	7	3	0.75	FEATHER BUSH\	15	5	3	0.75	JACARANDA	15	8	2	0.75
(FRAXINUS VELUTINA)	24 10	0 4	1.5	(Pinus Canariensis)	24	9	4	2	(EUCALYPTUS -	24	10	4	1.5	FERN OF THE DESERT	24	6.5	4	1.25	(JACARANDA ACUTIFOLIA)	24	9	4	1.5
	30 12	2 5	2		30	13	5 3	3.5	MICROTHECA)	30	12	5	2	(LYSILOMA THORNBERI)	30	7	6.5	2		30	12	5	2.5
	36 14	4 8	2.5		36	17	5	4		36	15	6	2.5		36	8	6	2.5		36	14	8	3
	42 1	5 9	3		42	18	6 4	4.5	CORK OAK	15	4	2	0.75	FEATHER BUSH\ FERN	15	4	3	0.75		42	16	8	3.5
	48 16	6 10	3.5		48	22	7 5	5.5	(QUERCUS SUBER)	24	6.5	3	1.5	OF THE DESERT(M)	24	5	5	1		48	18	9	4
ARIZONA SYCAMORE	15 7	' 2	1	CAROB	15	8	2 0	.75		30	9	4.5	2.5	(LYSILOMA THORNBERI )	30	7	7	1.5	JACARANDA (M)	-	5.5	3	0.5
(PLATANUS WRIGHTII)	24 9	_	1.5	(CERATONIA SILQUA)	24	9	4 1	1.5		36	12	6	3.5		36	8	8	2	(JACARANDA-	24	8	5	0.75
	30 13	_	2.5		30		_	2		42	14	9	4	<u>FICUS</u>	15	8	2		ACUTIFOLIA )	30	10	6	1.5
	36 16		3.5		36		_	3		48	16	11	4.5	(FICUS NITIDA)	24	9	4	1.5		36	12	7	2
ARIZONA SYCAMORE(M)	15 6		0.5	CHASTE TREE	15			-	CORRAL GUM	15	6	2.5	0.75		30	10	5	2	LEMON BOTTLE BRUSH	15	8	2	0.75
(PLATANUS WRIGHTII)	24 8		1	(VITEX ANGUS-CASTUS)	24				(EUCALYPTUS TORQUATA)	24	8	3.5	1.25		36	12	6	3	(CALLISTEMON CITRINUS)	24	9	4	1.25
	30 12		2	-	30		_		DESERT WILLOW	15	6	2		FICUS	15	5.5		0.5		30	10	5	2
ALIOTE ALIANI MILL OVA	36 15	_	3	OURSE EVED OBEEN	36		_	_	(CHILOPSIS LINEARIS)	24	7	4	1.25	(FICUS NITIDA M)	24	8	4	1	MEDITED AND AN EARL	36	12	6	2.75
AUSTRALIAN WILLOW\	15 5	-	0.75	CHINESE EVERGREEN	15		_	.75		30	9	6	1.75	-	30	10	6	2	MEDITERANEAN FAN	15	2	2	N\A
WILGA	24 8		1.25	<b>-</b>	24		_	.25	DECEDE MULLOW (M)	36	10	8	2.25	EL CODED CUM	36	12	8	2.5	PALM	24	3	3	N\A
(GEIJERA PARVIFLORA)	30 10 36 12		2.5	(ULMUS PARVIFOLIA)	30 36		_		DESERT WILLOW (M) (CHILOPSIS LINEARIS)	15 24	5	5	0.75	FLOODED GUM (EUCALYPTUS RUDIS)	15 24	8 10	3	1.5	(CHAMAEROPS HUMULIS)	30 36	5	4 5	N\A N\A
BOTTLE TREE	15 6	_	1.5	1	42		_	3.5	(CHILOPSIS LINEARIS)	30	9	6	1.5	FLOWERING CHERRY	15		2.5		MESCAL BEAN\ TEXAS	15	3	1	0.75
(BRACHYCHITON -	24 9		2.5		48			5.75		36	10	8	2	(PRUNUS VARIETIES)	24	9	4	1.25	MOUNTAIN LAUREL	24	<u>л</u>	2	1
POPULNEUS)	30 12	-	4	CHINESE PISTACHE	15		_	_	ELDARICA	15	6	2	1.5	(I KONOS VAIKIETIES)	30	11	8	2	(SOPHORA -	30	5	3	1.75
OI OLINEOO)	36 1	_	5	(PISTACIA CHINENSIS)	24	-	-		(PINUS ELDARICA)	24	10	4	2	1	36	13	10		SECUNDIFLORA)	36	6	4	2
	42 1		6	(1.10.17.10.17.10.10)	30		_	2.5	(i iii 6 6 2 2 2 7 ii ii 6 7 i)	30	13	4	3	-	42	15	11	3	MESCAL BEAN\ TEXAS	15	3	2	0.75
	48 20		6.5		36		_	3.5		36	15	5	4		48	17	12		MOUNTAIN LAUREL (M)	24	4	3	1
BRAZILIAN PEPPER	15 8		0.75	CHIR PINE\ INDIAN	15		3	1		42	18	7	4.5	HONEY LOCUST	15	8	2	0.75	(SOPHORA -	30	5	4	1.5
(SCHINUS -	24 9		1.25	LONG LEAF	24		_	2		48	20	9	5.5	(GLEDITSIA TRIACANTHOS	24	9	4	1.5	SECUNDIFLORA)	36	6	5	2
` TEREBINTHIFOLLA)	30 10	0 5	2.5	(PINUS ROXBURGHII)	30	11	6 2	2.5	EVERGREEN PEAR	15	7	2	0.75	INERMIS)	30	10	6	2	MEXICAN PALO VERDE\	15	7	3	1
·	36 12	2 8	3		36	15 6	5.5	3.5	(PYRUS KAWAKAMI)	24	9	4	1.5	1	36	12	8	2.5	<u>JERUSALEM</u>	24	9	6	1.5
CALIFORNIA PEPPER	15 7	' 2	0.75	1	42	17		4.5	•	30	10	6	2.5	1	42	14	10	3	(PARKINSONIA ACULEATA)	30	11	9	2.5
(SCHINUS MOLLE)	24 8	3 4	1.25		48	20	9	5		36	12	8	3.5		48	16	12	3.5	·		12	10	3
	30 10	0 6	2.5							42	14	10	4										
	36 12	2 8	3	See General Notes						48	16	12	4.5										
				Page 3																			
																			Page 2 of 3				
DETAIL NO.	Cit	y of	Sc	ottsdale APPROVE	D BY:																DETA	IL N	Э.
2600-2		-		Details				_	MINIM	UN	<b>VI</b>	TF	RE	E SIZE RE	Q	lU	IR	E	MENTS	20	60	<b>0</b> -2	2

	MINIMUM TREE SIZE REQUIREMENTS																							
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper					
MODESTO ASH	15		2	1	RAYWOOD ASH\	15	8	4	1	SILK TREE MIMOSA (M)	_	5	3.5		SILK TREE MIMOSA	15	6	3	0.75					
(FRAXINUS V MODESTO)	24	10		1.5	CLARET ASH	24	10	3	1.5	(ALBIZIA JULIBRISSIA )	_	_		0.75	(ALBISIA JULIBRISSIN)	24	8	4	1.5					
	30	12	6	2	(FRAXINUS O RAYWOODII)	30	12	5	2		30	6	6	1		30	10	6	2					
	36	14	7	2.5		36	14	8	2.5		36	10	8	2.5		36	12	8	3					
	42	16	8	3		42	16	10	3	SILVER DOLLAR GUM	15	7	3	0.75	TEXAS EBONY (M)	15	4	2	0.5					
				3.5		48	_	12	4	(EUCALYPTUS-	24	10	4	1.5	(PITHECELLUBIUM-	24	6	4	1					
NARROW LEAF GIMLET\				0.75	RED CAP GUM	15	6.5			POLYANTHEMOS)					FLEXICAULE )	30	7	6	1.5					
SWAMP MALLET	24	8	3	1	(EUCALYPTUS-	24	8	4	1.25	<u>sissoo</u>		7	3	0.75		36	9	8	2					
(EUCALYPTUS -					ERYTHROCORYES)					(DALBERGIA SISSOO)		_		1.25				_	2.5					
SPATHULATA)	45	_	_	0.75	RED GUM	15	-	3	1		30	12	7	2.5	WEEDING BOTT! 5	48	11	11			$\vdash$			
OLEANDER	15	7			i '	24	10	4	1.75	SOUTHERN LIVE OAK\	36	15	10	3 0.75	WEEPING BOTTLE BRUSH	15	8	3.5	0.75 1.5		$\vdash$			
(NERIUM OLEANDER)	30	9	5	2	CAMALDULENSIS) RED IRON BARK	15	8	3	0.75		15 24	6 9	4	1.25	(CALLISTEMON VIMINALIS)	30	12	_	2		$\vdash$			
	36	12		2.5	(EUCALYPTUS -	24	10	4	1.5	(QUERCUS VIRGINIANA)	30		6.5	+	(CALLIST LINON VIIVIINALIS)	36	14	7	2.5		$\vdash$			
OLIVE TREE	15	5		0.5	SIDEROXYLON)		.0	•	1.0	(QOLINOOS VIINOIMINIU)	36	13	8		WEEPING WILLOW	15	8	2	1					
(OLEA EUROPAEA)	24	8	_	1.5	RIO GRANDE\ FAN	15	7	2	0.75		42	15	10	3.5	(SALIX BABYLONICA)	24	10	4	1.5					
	30	11	9	2	TEXAS ASH	24	9	4	1.25		48	17	12	4.5		30	12	6	2.5					
	36	12	10	3	(FRAXINUS V FANTEX)	30	12	5	2	TEXAS EBONY	15	5	2	0.75		36	14	8	4					
	42	14	12	3.5		36	14	8	2.5	(PITHECELLOBIUM-	24	6	3	1.5	WHITE IRON BARK	15	_	_	0.75					
	48	16	14	4		42	15	9	3.5	FLEXICAULE)	30	7	4	2	(EUCALYPTUS -	24	8	3.5	1.25					
ORCHID TREE	15	8	_	0.75		48	16	10	4		36	9	6	2.5	LEUCOXYLON)									
(BAUHINIA)	24	9			SHAMEL\ EVERGREEN	15	8	2	1		42	10	6	3	YELLOW OLEANDER	15	6	1	0.5					
	30	-	6	2	(FRAXINUS UHDEI)	24	10	4	1.5		48	11	7	3.5	(THEVETIA PERUVIANA)	24	8	4	1.25		$\vdash$			
ODMANIFATAL DEAD	36	13		2.5	-	30	12	5	2.5						YELLOW OLEANDER(M)	15	_	_	0.5					
ORNAMENTAL PEAR	15 24	7 10	2	1 5	1	36	14 15	8 9	3.5	-	-	-			(THEVETIA PERUVIANA)	24	6	5	0.75		$\vdash$			
(PYRUS CALLERYANA)	30	12		2.5	1	42 48	16	10	3.5		1	<u> </u>	<u> </u>		GENERAL NOTES		<u> </u>	<u> </u>						<u> </u>
	36	14	8		SILK OAK	15	8	3	1						OLIVLIAL NOTES	•								
	42	_		3.5	(GREVILLEA ROBUSTA)	24	10	4	2	1. All trees shall	be o	nuar	ante	ed fo	one year from the date	of a	acce	ntar	ice					
		_	12	4	(	30	12	6	2.5	4	-	-			e. A multitrunk tree is a t			•		n one main trunk.				
			_	-	1	36	14	7	3	4					e the ground for trees v						c tree	s,		
					1					J .					nat 4", the caliper is mea			_				•		
					1					4		•			nches except for those					•				
					Page 3 of 3										<u> </u>									
DETAIL NO.	C	itv	of :	Sco	ottsdale APPROVE	D BY:															D	ETA	IL NO	 Э.
		•								RAILIIRA			_	<b>_</b>	E CIZE DE			ır	. — .	ACNITO				
2600-3	St	and	dar	<u>d</u> [	Details					IVIINIIVI	<u>U</u> ľ	VI_	11	KE	E SIZE RE	<u>-</u>	!U			VIEN 12	2	<u>60</u>	U-	3



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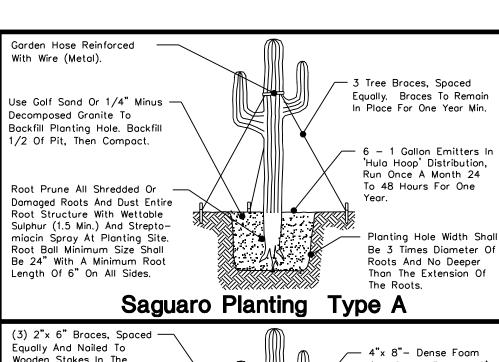
620-1 City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

LANDSCAPE DETAILS

2620-1



#### NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction, Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in areas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

NOTE: Water weekly through the summer.

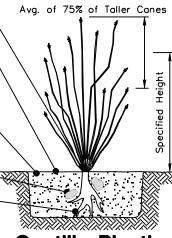
Plant At Depth Which -Plant Was Grown.

Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pack The Backfill Mix, Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall-Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To-Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.

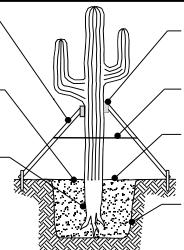


# **Ocotillo Planting**

Wooden Stakes In The Ground Braces To Remain In Place For One Year Min.

Use Golf Sand Or 1/4" Minus Decomposed Granite To Backfill Planting Hole, Backfill 1/2 Of Pit, Then Compact.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 Min.) And Streptomiacin Spray At Planting Site. Root Ball Minimum Size Shall Be 24" With A Minimum Root Length Of 6" On All Sides.



And Carpet Padded, 8' Above Natural Grade And Nailed To Brace.

Steel Band Fastened With 2 Large Staples Per Brace.

6 - 1 Gallon Emitters In 'Hula Hoop' Distribution, Run Once A Month 24 To 48 Hours For One Year.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

#### NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction, Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in areas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

Plant At Depth Which -Plant Was Grown.

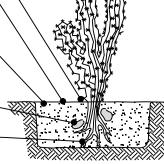
Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pack The Backfill Mix, Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.

NOTES: Water weekly through the summer. Maintain original growing orientation.



**Cactus Planting** 

DETAIL NO.

City of Scottsdale Standard Details

Saguaro Planting

APPROVED BY:

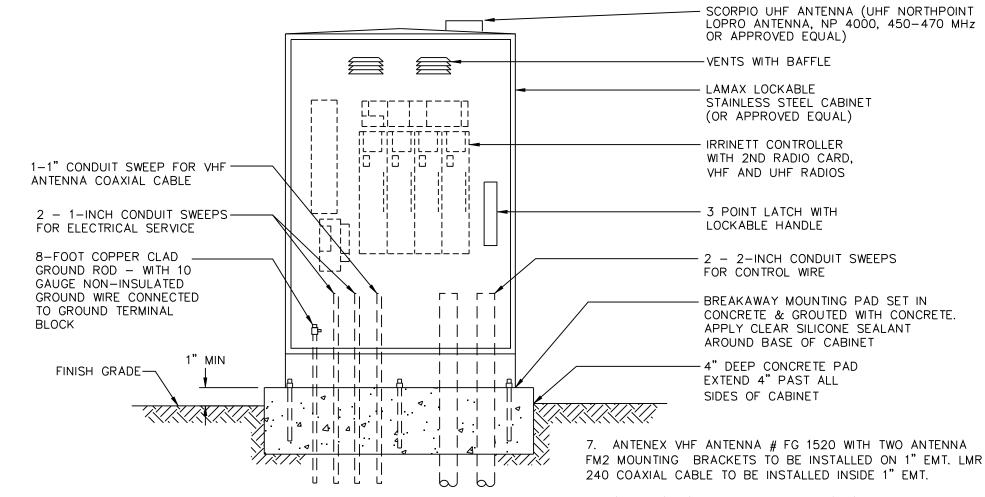
Type B

Scottsdale Standards & Specifications Committee LANDSCAPE DETAILS

**Specifications Committee** 

Standard Details





#### NOTES:

- POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER,
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- 4. CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
- INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES, CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

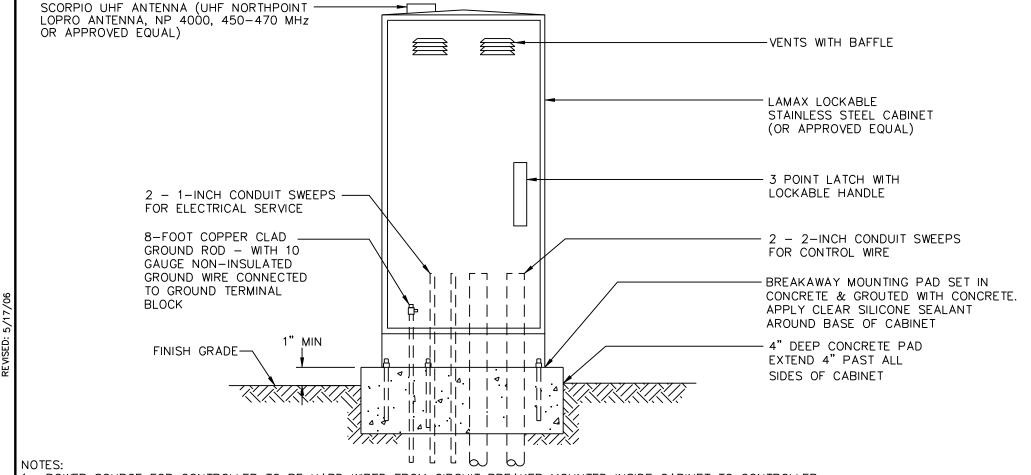
- 8. ANTENNA MAST & MOUNTING INSTALLATION TO BE APPROVED BY CITY OF SCOTTSDALE IRRIGATION DEPARTMENT.
- 9. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS, INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR, INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER SUPPLY.

2631

DETAIL NO. City of Scottsdale

Scottsdale Standards & Standard Details Specifications Committee

IRRINET PEDESTAL MOUNTED CONTROLLER



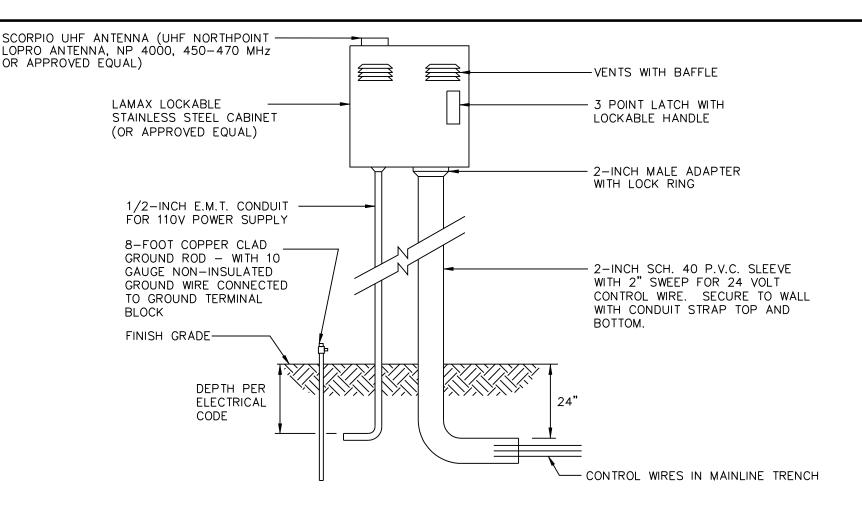
- 1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER,
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.
- JSLM NARROW BAND RADIO # 2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
- PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
- INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)
- POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR. INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER UPPLY.

2632

DETAIL NO. City of Scottsdale

APPROVED BY: Scottsdale Standards & Standard Details Specifications Committee

SCORPIO PEDESTAL MOUNTED CONTROLLER



#### NOTES:

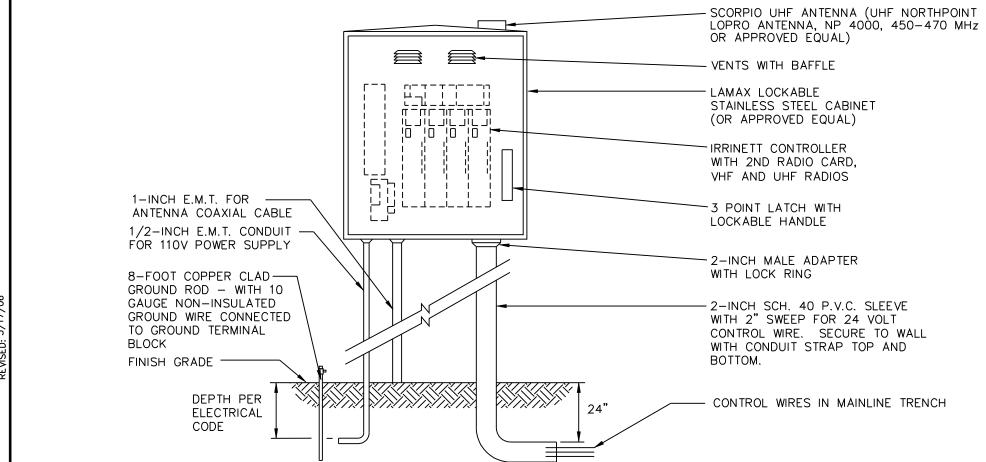
- POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.
- JSLM NARROW BAND RADIO #2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
- PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)
- 8. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR. INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED. POWER SUPPLY.

DETAIL NO. 2633

City of Scottsdale

Scottsdale Standards & Standard Details | Specifications Committee

SCORPIO WALL MOUNTED CONTROLLER



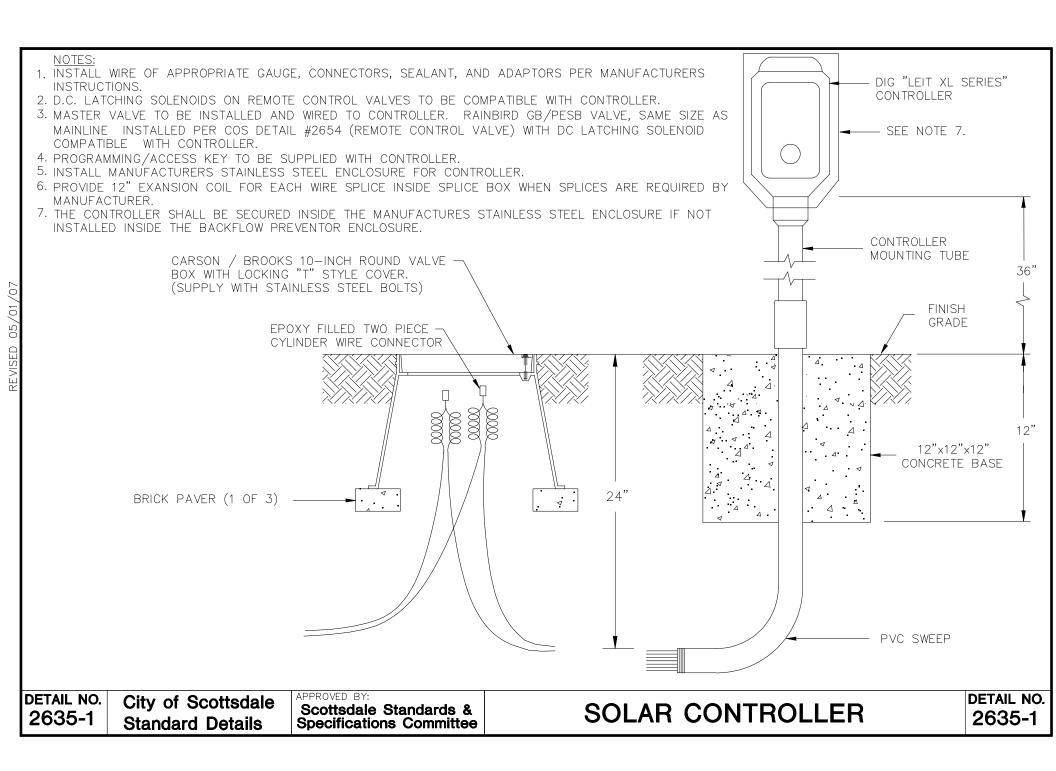
#### NOTE:

- 1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- 4. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- 5. VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)
- 6. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR. INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER SUPPLY.
- 7. ANTENEX VHF ANTENNA #FG1520 WITH TWO ANTENEX FM2 MOUNTING BRACKETS TO BE INSTALLED ON 1" E.M.T. LMR 240 COAXIAL CABLE TO BE INSTALLED INSIDE 1" E.M.T.
- 8. ANTENNA MAST AND MOUNTING INSTALLATION TO BE APPROVED BY COS IRRIGATION DEPARTMENT.

DETAIL NO.	City of Scottsdale	APPROVED BY: Scottsdale Standards & Specifications Committee
2634	Standard Details	Specifications Committee

IRRINET WALL MOUNTED CONTROLLER

2634

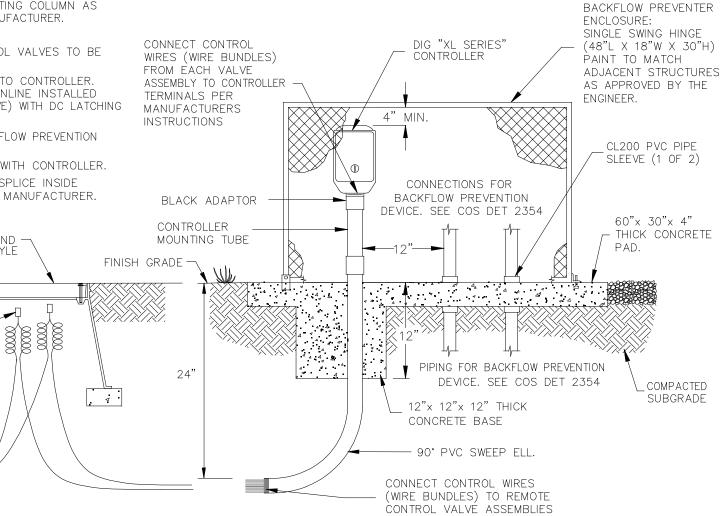


#### NOTES:

- 1. INSTALL WIRING OF APPROPRIATE GAUGE, CONNECTORS, SEALANT, AND ADAPTORS PER MANUFACTURERS INSTRUCTIONS.
- 2. INSTALL CONTROL WIRES, SPLICES, AND MOUNTING COLUMN AS FURNISHED/SPECIFIED BY THE CONTROLLER MANUFACTURER.
- 3. LABEL ALL WIRES IN CONTROLLER.
- 4. D.C. LATCHING SOLENOIDS ON REMOTE CONTROL VALVES TO BE COMPATIBLE WITH CONTROLLER.
- 5. MASTER VALVE TO BE INSTALLED AND WIRED TO CONTROLLER. RAINBIRD GB/PESB VALVE, SAME SIZE AS MAINLINE INSTALLED PER COS DETAIL #2654 (REMOTE CONTROL VALVE) WITH DC LATCHING SOLENOID COMPATIBLE WITH CONTROLLER.
- 6. REFER TO COS DET 2354 FOR ADDITIONAL BACKFLOW PREVENTION DEVICE DETAILS.
- 7. PROGRAMMING/ACCESS KEY TO BE PROVIDED WITH CONTROLLER.

CARSON / BROOKS 10-INCH ROUND VALVE BOX WITH LOCKING "T" STYLE COVER (SUPPLY WITH STAINLESS STEEL BOLTS)

8. PROVIDE 12" EXANSION COIL FOR EACH WIRE SPLICE INSIDE SPLICE BOX WHEN SPLICES ARE REQUIRED BY MANUFACTURER.



City of Scottsdale Standard Details

EPOXY FILLED TWO PIECE CYLINDER WIRE CONNECTOR

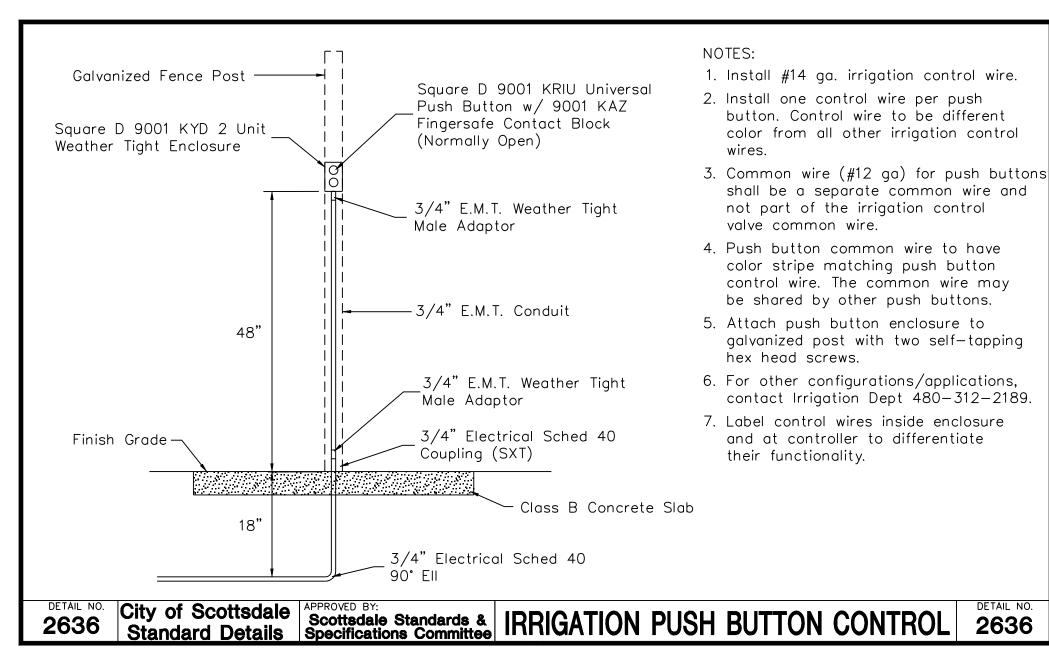
BRICK PAVER (1 OF 3)

APPROVED BY:

Scottsdale Standards & Specifications Committee SOLAR CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE

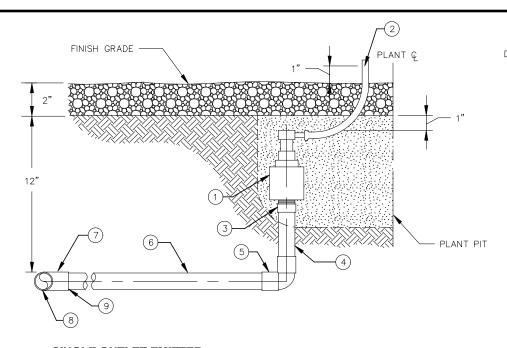
DETAIL NO.

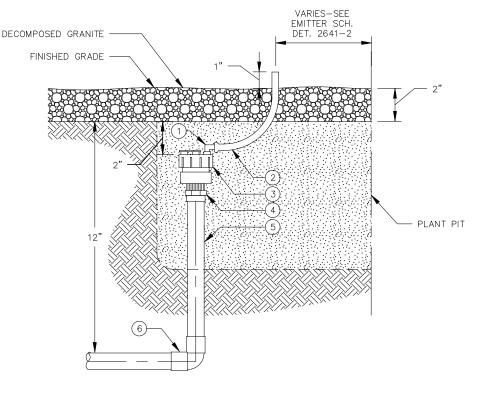
2635-2



DETAIL NO.

2636





# SINGLE OUTLET EMITTER ALL SHRUBS & GROUND COVER

SCALE: NTS

#### LIST OF MATERIALS

- BOWSMITH SL SERIES SINGLE PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT CENTERLINE
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING (6' MAX.)
- (3) 1/2" PVC SCH 40 MALE ADAPTOR
- 4 AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (5) 1/2" PVC SCH 40 90° ELBOW
- 6 1/2" PVC CL 315 PIPE
- 7) 1/2" PVC SCH 40 FITTING
- 8 PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER THAN 1/2"
- (9) INSTALL BUSHING AS REQUIRED.

#### NOTES

- PIPE CEMENT & PRIMER SHALL BE USED FOR FLEXIBLE AND RIGID PIPE CONNECTIONS.
- 2. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP
- NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED IS BASED ON PLANT SIZE. (SEE COS STD. DET. 2641-2)
- 4. MAXIMUM EMITTER TUBING LENGTH = 6 FEET.
- NO EMITTER LATERALS OR PIPING SHALL BE INSTALLED THROUGH OR BENEATH PLANT PITS. MINIMUM DISTANCE BETWEEN PLANT PIT PERMITER AND PIPING SHALL BE 12".

# MULTI-OUTLET EMITTER TREES ONLY

SCALE: NTS

#### LIST OF MATERIALS

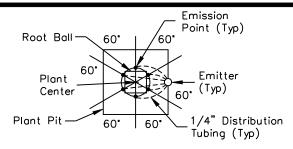
- (1) SWIVEL OUTLET 90° ELBOW
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING (6' MAX.)
- BOWSMITH ML 200 SERIES MULTI-PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT G
- (4) 1/2" PVC SCH 40 MALE ADAPTER
- AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (6) 1/2" PVC SCH 40 FITTING

DETAIL NO. City of Scottsdale 2641-1 Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

SINGLE & MULTI-OUTLET EMITTERS

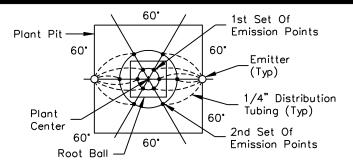
DETAIL NO. 2641-1



#### TREE EMITTER - MULTI OUTLET 15 GAL TO 42" BOX TREES

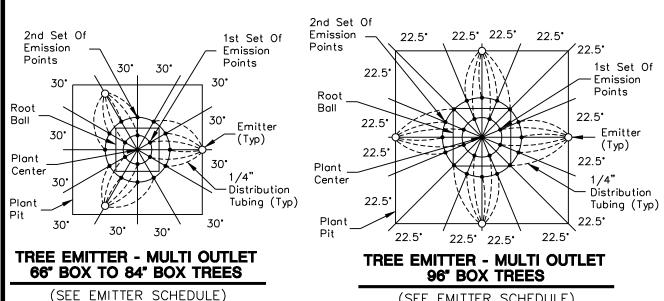
(SEE EMITTER SCHEDULE)

(SEE EMITTER SCHEDULE)



#### TREE EMITTER - MULTI OUTLET 48" BOX TO 60" BOX TREES

(SEE EMITTER SCHEDULE)



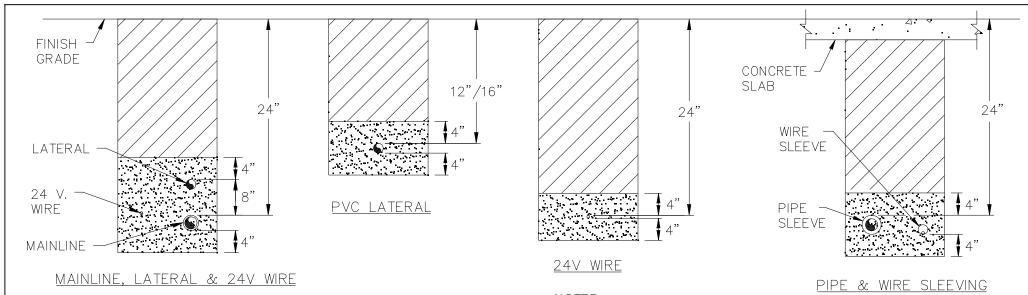
	EMITTER SCHED	ULE	
	Number Of Multi	Distance F	rom Trunk
Tree Size	Outlet Emitters — Outlet Quantity = Emitter GPH Total	1st Set Of Emission Points	2nd Set Of Emission Points
15. Cal		3 @ 12"	FOIITES
15 Gal.	1-1 GPH=6 GPH		
24" Box	1-1 GPH=6 GPH	4 @ 18"	
30" Box	1-1 GPH=6 GPH	6 @ 21"	
36" Box	1-2 GPH=12 GPH	6 @ 24"	
42" Box	1-2 GPH=12 GPH	6 @ 27"	
48" Box	2-2 GPH=24 GPH	6 @ 12"	4 @ 42"
54" Box	2-2 GPH=24 GPH	6 @ 15"	5 @ 45"
60" Box	2-2 GPH=24 GPH	6 @ 18"	6 @ 48"
66" Box 72" Box	3-2 GPH=36 GPH	6 @ 24"	12 @ 54"
78" Box 84" Box	3-2 GPH=36 GPH	6 @ 30"	12 @ 60"
≥ 90" Box	4-2 GPH=48 GPH	8 @ 33"	16 @ 66"

City of Scottsdale Standard Details

APPROVED BY:

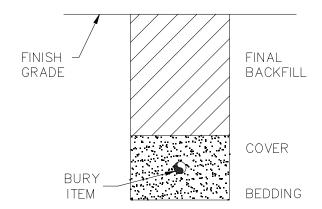
Scottsdale Standards & **Specifications Committee**  **IRRIGATION EMITTER LAYOUT** 

DETAIL NO. 2641-2



## NOTES:

- 1. BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
- 2. BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
- 3. SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE (MIN 2"). ONE PIPE PER SLEEVE. SLEEVES TO BE PRIMED AND SOLVENT WELDED.
- 4. ALL PIPE TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
- 5. ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- 6. TAPE AND BUNDLE IRRIGATION CONTROL WIRES EVERY 10'. PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30°.
- 7. ALL REMOTE CONTROL VALVE WIRING NOT INSTALLED WITH MAINLINE PIPE SHALL BE INSTALLED IN A MINIMUM 2" SCHEDULE 40 GREY ELECTRICAL CONDUIT OR AS APPROVED.
- 8. "NON-POTABLE" WARNING TAPE TO BE INSTALLED ON ALL PRESSURIZED MAINLINES 12" ABOVE THE PIPE.
- 9. INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.
- 10. SLEEVES TO EXTEND A MINIMUM OF 12" PAST HARDSCAPE PLANTERS. CURBS, SIDEWALKS, ETC. SLEEVES TO BE STAGGERED/OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.





EXCAVATED MATERIAL SHALL BE FINELY SCREENED WITH NO ROCKS LARGER THAN 1".

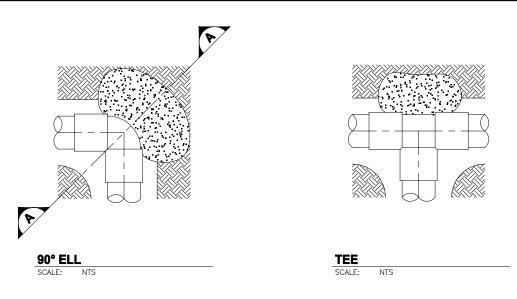


BEDDING AND COVER MATERIAL SHALL BE TOPSOIL WITH NO ROCKS.

DETAIL NO. 2642

City of Scottsdale Scottsdale Standards & Specifications Committee

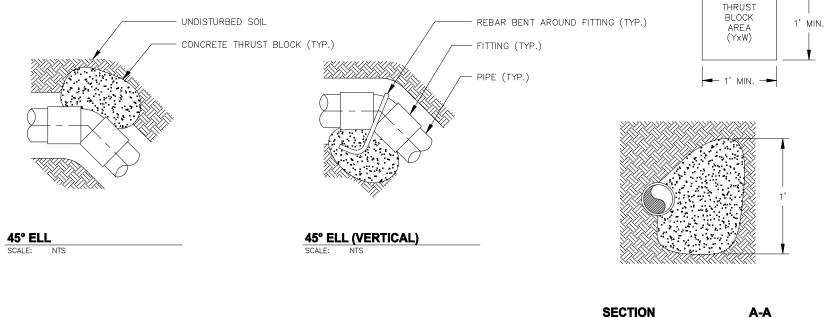
**IRRIGATION TRENCHING** 



	NAME TO DESCRIPTION OF THE	25.4 (24.14)										
MINU	JMUM THRUST BLOCK AF	REA (YXW)										
PIPF	IRRIGATION PIPE											
SIZE	TEE, DEAD END	45°,22.5°										
	90°BEND											
3"	1 SF	.5 SF										
4"	1.5 SF	1 SF										
5" & LARGER		1.5 SF										
	PER MAG DETAIL 380	PER MAG DETAIL 380										

#### **NOTES**

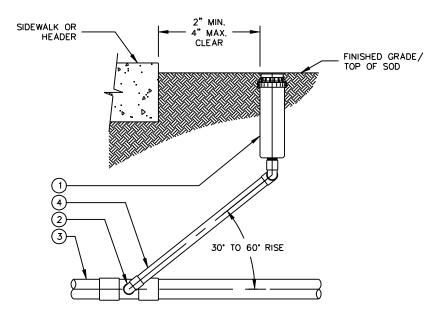
- 1. MINIMUM THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING CAPACITY OF 3000 LBS/SF
- 2. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
- 3. THRUST BLOCK SHALL BE MAG SECT. 725-CLASS C.
- 4. MAINLINE PIPING 4" AND LARGER SHALL HAVE MEGA/LUG JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED).



DETAIL NO. 2643

City of Scottsdale Scottsdale Standards & Specifications Committee

**IRRIGATION THRUST BLOCK** 

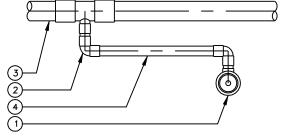


## **SWING JOINT ASSEMBLY ELEVATION**

SCALE:

#### LIST OF MATERIALS

- ROTOR SPRINKLER HEAD
- STREET ELL (1 OF 3) SCH 40 PVC
- PVC LATERAL PIPE
- SCH 80 NIPPLE TBE



## **SWING JOINT ASSEMBLY PLAN**

SCALE:

DETAIL NO. 2644

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

# ROTOR SPRINKLER ASSEMBLY

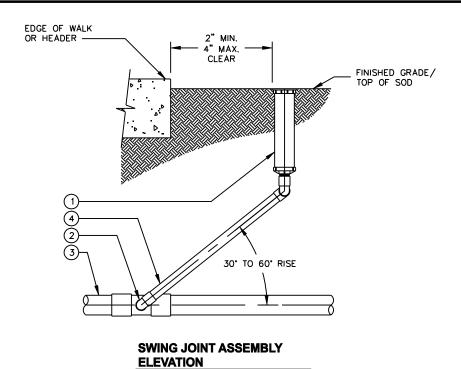
**NOTES** 

1, SWING JOINT TO BE THE SAME SIZE

AS SPRINKLER HEAD INLET.

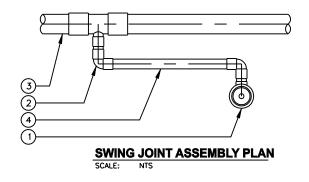
2. NO PRE-FAB SWING JOINTS

3. NO MARLEX FITTINGS



#### LIST OF MATERIALS

- 4" POP-UP SPRAY SPRINKLER HEAD
- STREET ELL (1 OF 3) SCH 40 PVC
- PVC LATERAL PIPE
- SCH 80 NIPPLE TBE



SCALE: NTS

#### NOTES

- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

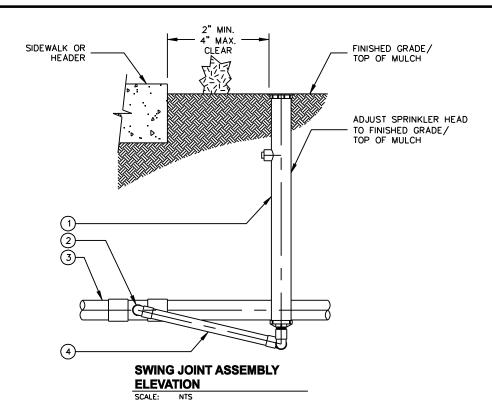
DETAIL NO. 2645

City of Scottsdale **Standard Details** 

APPROVED BY:

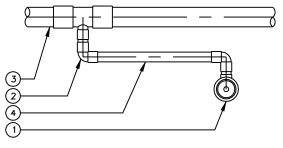
Scottsdale Standards & Specifications Committee

POP-UP SPRINKLER ASSEMBLY



#### LIST OF MATERIALS

- 1) 12" POP-UP SPRAY SPRINKLER HEAD
- (2) STREET ELL (1 OF 3) SCH 40 PVC
- (3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



SWING JOINT ASSEMBLY PLAN
SCALE: NTS

#### NOTES

- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. SWING JOINT SHALL BE CONNECTED TO BOTTOM OUTLET.
- 3. NO PRE-FAB SWING JOINTS
- 4. NO MARLEX FITTINGS

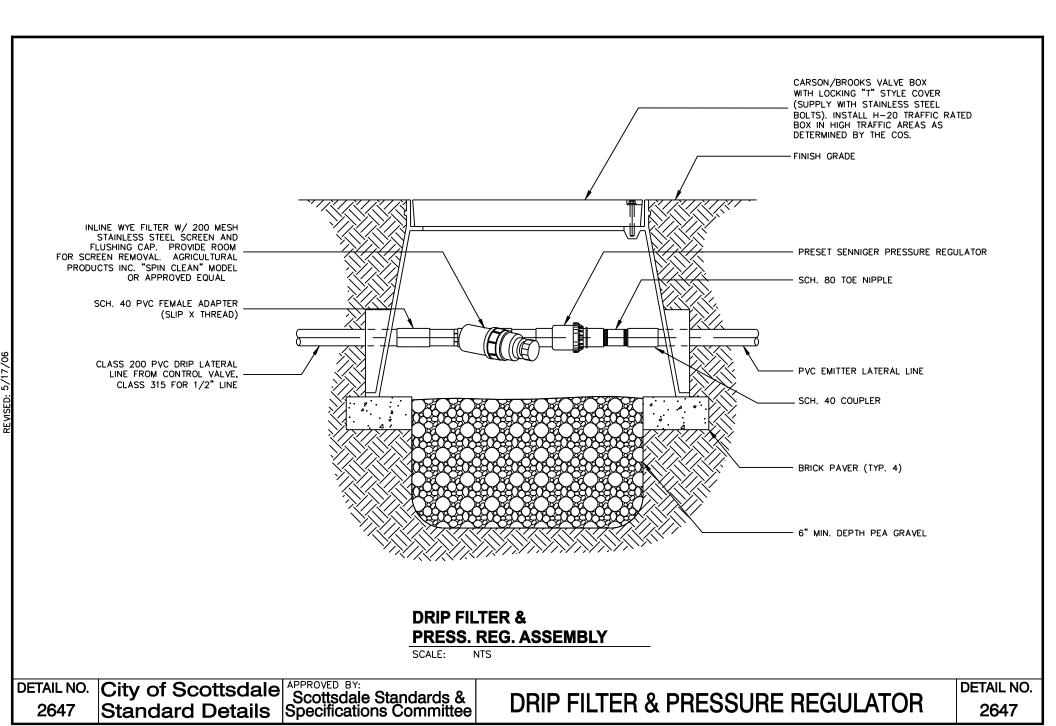
DETAIL NO. 2646

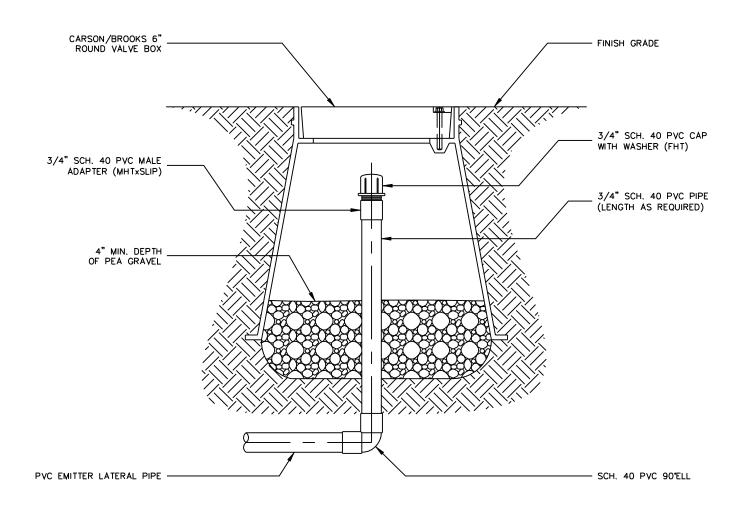
City of Scottsdale Standard Details

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Scottsdale Standards & Specifications Committee

SHRUB POP-UP SPRINKLER ASSEMBLY





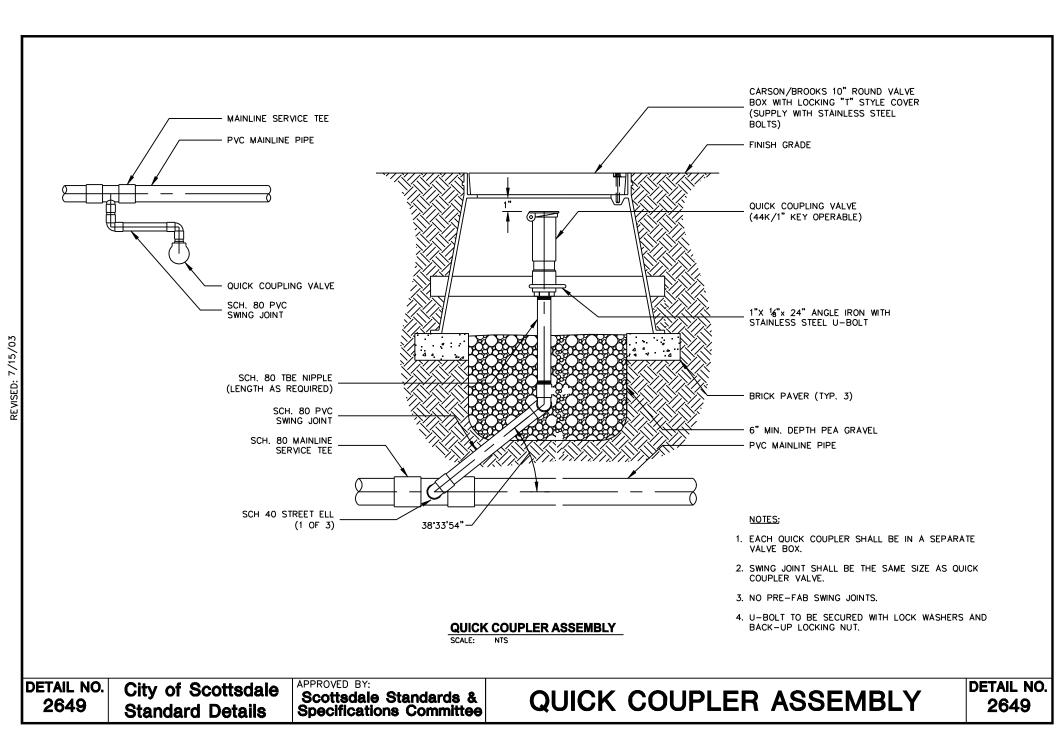
# EMITTER FLUSH CAP ASSEMBLY SCALE: NTS

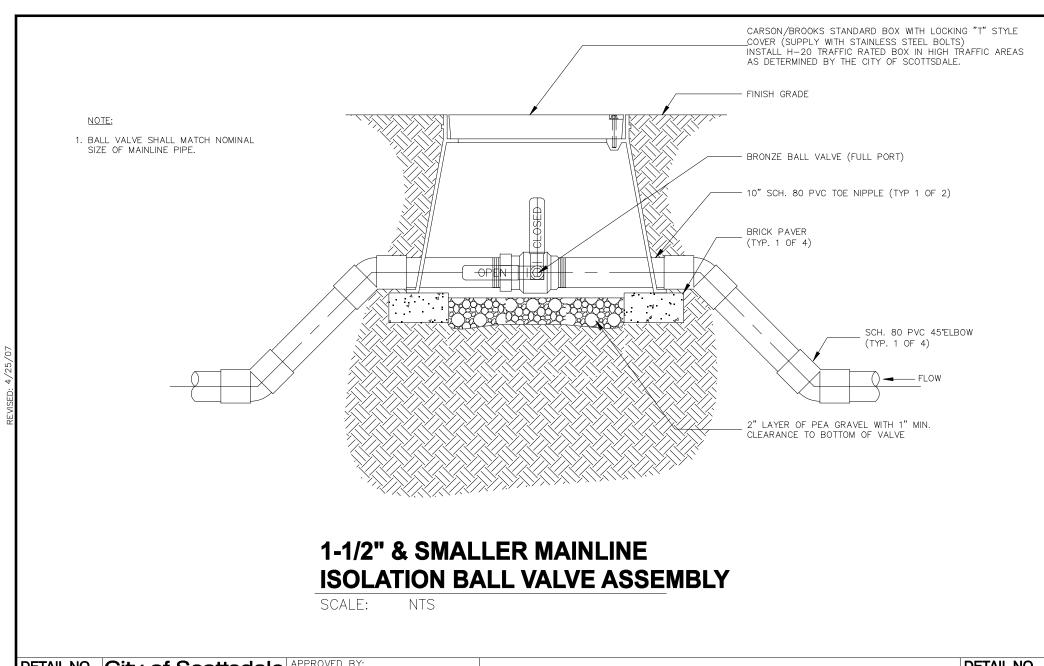
DETAIL NO. City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

**EMITTER FLUSH CAP ASSEMBLY** 





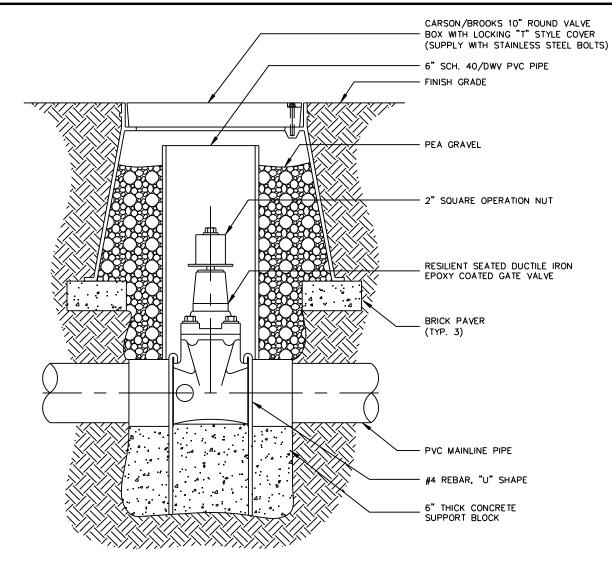
**DETAIL NO.** 2650

City of Scottsdale Scottsdale Standards & Standard Details Specifications Committee

1-1/2" & SMALLER MAINLINE BALL VALVE

# NOTE;

- GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.
- PROTECT VALVE BODY WITH 10MIL PLASTIC PRIOR TO INSTALLATION OF REBAR & SUPPORT BLOCK.



2" & LARGER MAINLINE ISOLATION GATE VALVE ASSEMBLY

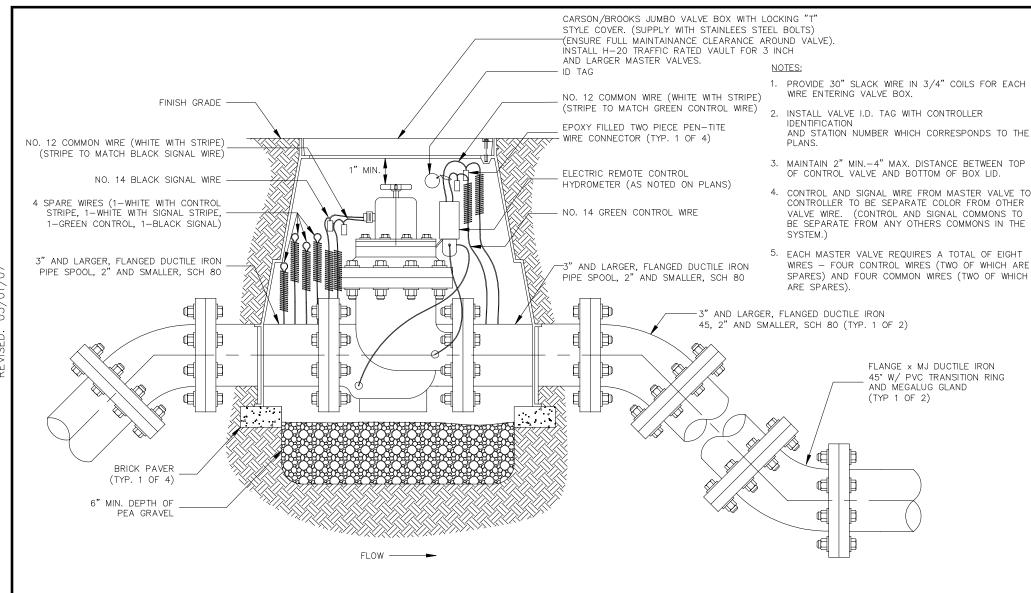
SCALE: NTS

DETAIL NO. 2651

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

2" & LARGER MAINLINE ISOLATION GATE VALVE



1 1/2" LARGER MASTER VALVE / FLOW METER ASSEMBLY

SCALE: NTS

DETAIL NO. 2653

City of Scottsdale Scottsdale Standards & Specifications Committee

1 1/2" & LARGER MASTER VALVE/FLOW METER

STRIP WIRES APPROX. 5/8" FROM ENDS - TWIST ENDS TOGETHER

APPLY SEALER TO OUTSIDE OF SEALING PLUG — FILL CAVITY WITH SEALER

PUT CRIMP SLEEVE OVER WIRE ENDS — CRIMP SLEEVE AND CUT OFF EXCESS WIRE

PULL BASE SOCKET OVER WIRE END AS FAR AS POSSIBLE

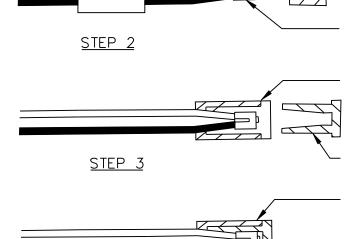
PUSH SEALING PLUG INTO BASE SOCKET

PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION

DRI-SPLICE TYPE WIRE CONNECTOR

#### NOTES:

- 1. FOR WIRE SIZES NO. 14, 12
  AND 10, ALL CONNECTIONS
  IN VALVE BOXES ONLY.
- 2. INSTALL SPEARS DS-100 DRI-SPLICE CONNECTORS WITH DS-300 SEALANT.



2655 City

REVISED: 3/9/05

City of Scottsdale Standard Details

STEP 4

APPROVED BY:

Scottsdale Standards & Specifications Committee

TYPICAL IRRIGATION WIRE CONNECTION

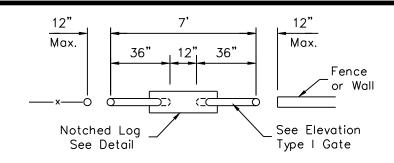
WIRE SIZE (AWG)	TO BE IN	NUMBER ISTALLED I E 40 PVC 2—1/2"	N A	WIRE SIZE (AWG)
14	25	40	56	14
12	20	33	50	12

#### NOTE:

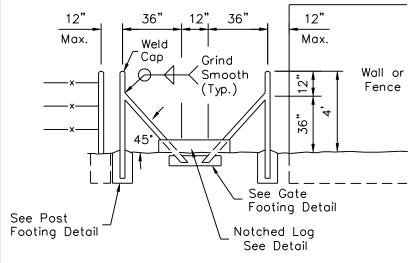
1. ALL WIRE SLEEVES TO BE SHC. 40 PVC AND SHALL BE INSTALLED WITH A MINIMUM OFFSET AT THE JOINTS TO PERMIT EASY INSTALLATION AND REMOVAL OF CONTROL AND COMMON WIRES. ALL WIRES SHALL BE INSTALLED IN SLEEVES UNDER THE PAVED AREAS. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGES OF THE PAVEMENT. SIZE OF SLEEVES SHALL BE AS SHOWN.

DETAIL	NO.
265	18

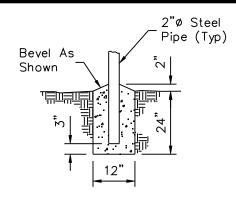
# IRRIGATION WIRE SLEEVING CHART



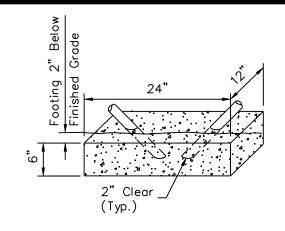
# TYPE I GATE w/ NOTCHED LOG



ELEVATION
TYPE I GATE



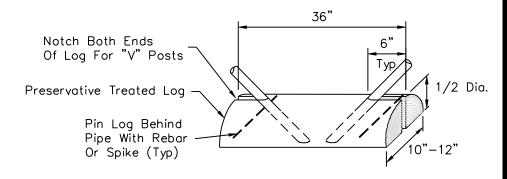
# POST FOOTING DETAIL



# GATE FOOTING DETAIL

#### NOTES:

- 1. All Concrete Shall Be Class "B".
- 2. Paint Rails Per ADOT Specifications. Color Per Plans.
- 3. Treated Wood Per MAG Section 779.



NOTCHED LOG DETAIL

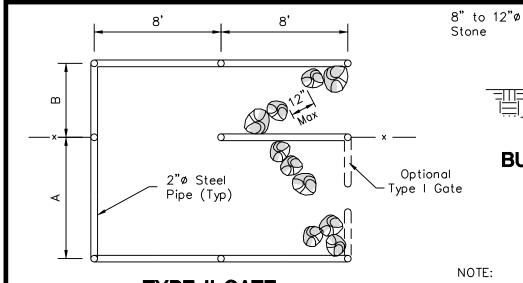
TRAIL ACCESS GATES

DETAIL NO. **2680-1** 

2680-1 City of Scottsdale Standard Details

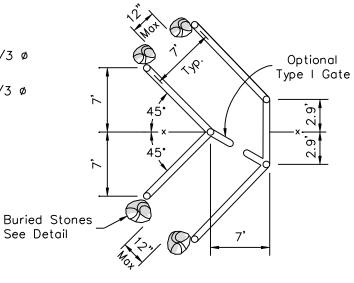
APPROVED BY:

Scottsdale Standards & Specifications Committee

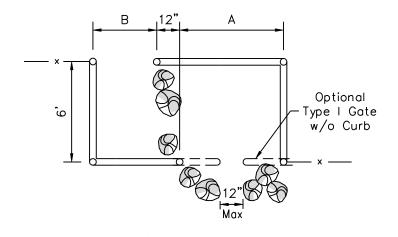


# 2/3 ø

# **BURIED STONE DETAIL**



## TYPE II GATE

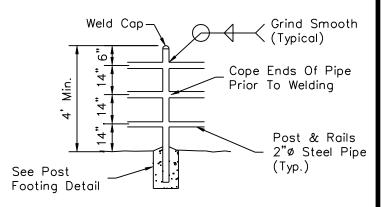


#### NOTE:

Gate barriers for Type II, III and IV gates shall be buried stones or Type I gate as shown on plan.

TYPE II an	d III	
GATE DIMENS	SIONS	5
GATE BARRIER	Α	В
Туре І	7'	4'
Buried Rocks	4'	4'

## TYPE IV GATE



TYPICAL RAIL ELEVATION TYPE II, III & IV GATE

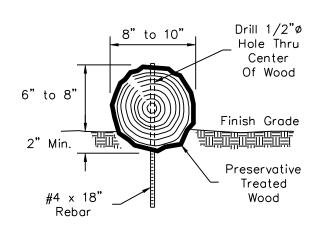
TYPE III GATE

City of Scottsdale Standard Details 2680-2

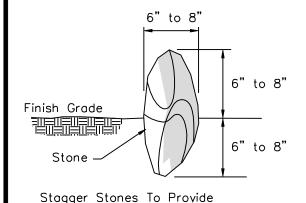
APPROVED BY:

Scottsdale Standards & **Specifications Committee**  TRAIL ACCESS GATES

DETAIL NO. 2680-2



# REBAR SECURED WOOD BARS



STONE BARS

2681 City of Scottsdale Standard Details

A Continuous Water Bar

APPROVED BY:

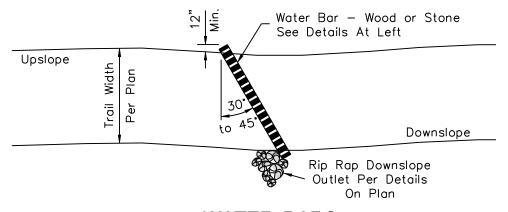
Scottsdale Standards & Specifications Committee

#### Double Wrap Wood With 9 Gauge Wire And 8" to 10" Secure To Stake 3" to 4" 6" to 8" Finish Grade 2" Min. 2"x 2"x 18" Redwood Preservative Stake Treated Wood

# WIRE SECURED WOOD BARS

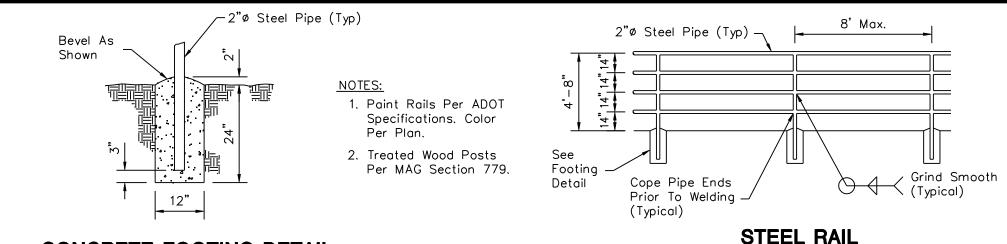
#### NOTES:

- Provide water bars at a maximum 100' interval where trail grade is equal to or greater than 6% and at all locations as shown on plans.
- 2. Treated wood per MAG Section 779.



WATER BARS
PLAN

TRAIL WATER BARS



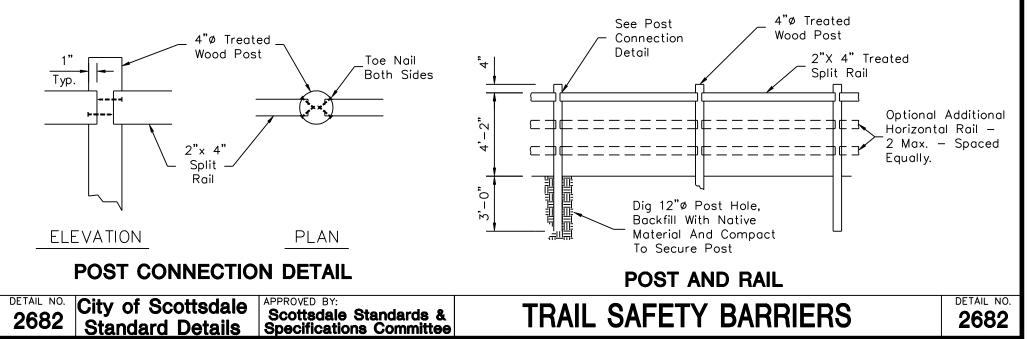
## **CONCRETE FOOTING DETAIL**

2682

APPROVED BY:

Scottsdale Standards &

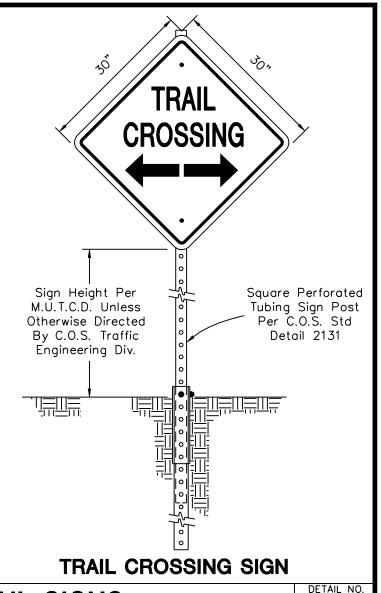
**Specifications Committee** 



TRAIL SAFETY BARRIERS

2682

#### NOTES: 1. Signs shall conform to C.O.S. Supplemental Specifications, Section 402.3. 2. Signs to be mounted on square perforated tubing per C.O.S. Std Det 2131 within C.O.S. 12" Right-of-Way. Treated wood post may be used for trail markers located outside C.O.S. Right-of Way. See Wood Post Sign Mounting 3. Legends shall be reflectorized white vinyl Detail (Typ.) sheeting on a green or brown vinyl background unless otherwise approved by the ξω City of Scottsdale. 4"x 4" Treated Wood Wood Sign Post Per Per MAG Section 779 12, Hand 4"x 4" Treated Compacted Wood Sign Post Backfill Per MAG Section 779 Ш Fasten With (2) 1/2"x 2" Lag Screws With (2) Flat Washers or (2) 1/2"x 4 1/2" Bolts With (4) Flat Washers. Burr Threads And Nuts With Center Punch. TRAIL MARKER **WOOD POST SIGN**



DETAIL NO. 2683 City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** 

**MOUNTING DETAIL** 

TRAIL SIGNS

Sign

Panel

2683