#### **IRRIGATION NOTES**

- 1. POINT OF CONNECTION IS A 1-1/4" PVC TEE AND STUB FROM EXISTING MAINLINE DOWNSTREAM OF EXISTING 1" POTABLE WATER METER AND 1" BACKFLOW PREVENTER. THE IRRIGATION SYSTEM IS DESIGNED FOR A MINIMUM OF 40 PSI AND A MAXIMUM 20 GPM AT THE POINT OF CONNECTION. CONFIRM PRESSURE PRIOR TO START OF WORK. THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE OF ANY DISCREPANCY BEFORE CONTINUING WORK. STATIC PRESSURE IN THE AREA VERIFIED THROUGH TUCSON WATER TO BE 63-70 PSI.
- 2. THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY WHEN NECESSARY. THE DESIGN INTENT IS THAT OPTIMUM FLOW IS 16 GPM.
- 3. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE PLANT WATER REQUIREMENTS FOR LANDSCAPE IN THE RIGHT OF WAY.
- 4. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN THE PROJECTS LIMITS (RIGHT-OF-WAY ON THE WEST SIDE AND THE HYDROSEED LIMITS ON THE EAST SIDE) AND WITHIN LANDSCAPE AREAS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM THE EDGE OF PAVED SURFACES AND 3'-0" FROM THE CENTERLINE OF DRAINAGE SWALES.
- 5. PLANT MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
- 6. ALL IRRIGATION LINES AND EQUIPMENT SHALL BE FIELD ADJUSTED AS NEEDED TO AVOID EXISTING AND PROPOSED UTILITIES, EXISTING PRESERVED VEGETATION, AND OTHER CONFLICTING FIELD CONDITIONS.
- 7. THE ENTIRE IRRIGATION SYSTEM SHALL SATISFY ALL LOCAL AND STATE CODE REQUIREMENTS AND BE INSTALLED AS PER ALL CITY OF TUCSON/ PIMA COUNTY SPECIFICATIONS.
- 8. THE IRRIGATION CONTROLLER IS TO BE SET FOR IRRIGATION CYCLES BETWEEN 8 P.M. AND 8 A.M. BETWEEN THE MONTHS OF MAY THROUGH SEPTEMBER TO MINIMIZE WATER LOSS DUE TO EVAPORATION.
- 9. AS REQUIRED PER CITY OF TUCSON DEVELOPMENT STANDARD NO.2-06.6 A. AUTOMATIC IRRIGATION CONTROLLERS ARE RECOMMENDED TO BE RESET A MINIMUM OF FOUR (4) TIMES A YEAR (SPRING, SUMMER. FALL AND WINTER) TO ADJUST FOR PLANT WATER REQUIREMENTS WHICH VARY ACCORDING TO SEASON.
- 10. SPARE CONTROL WIRES -CONTRACTOR SHALL EXTEND THREE SPARE CONTROL WIRES (ONE COMMON AND 2 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN A 10" ROUND VALVE BOX. REFER TO SPECIFICATIONS FOR WIRE COLOR, SEE IRRIGATION SCHEDULE FOR MORE INFORMATION.
- 11. ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES PER THE SCHEDULE BELOW. ALL MAINLINES. LATERALS. DRIPLINES AND CONTROL WIRES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. EXTENDING SLEEVES 1 FOOT BEYOND EDGE OF PAVED SURFACE OR WALL. IRRIGATION LINES AND AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES

## SLEEVED PIPE SIZE/WIRE QUANTITY $\frac{3}{4}$ " -1" PIPING

REQUIRED SLEEVE SIZE AND QUANTITY 2" PVC (1)

2-1/2" PVC (1)

1-50 CONTROL WIRES

PLANT MATERIAL WITH THE CITY REPRESENTATIVE.

1-1/4" PIPING

- 2" PVC (1) 12. CONTRACTOR SHALL COORDINATE INSTALLATION OF DRIP IRRIGATION LINES PRIOR TO INSTALLATION OF
- 13. DO NOT MECHANICALLY TRENCH WITHIN DRIP LINE OF EXISTING TREES OR NEAR CACTI. WHERE TRENCHING WITHIN DRIP LINE IS NECESSARY, ONLY HAND TRENCHING WILL BE PERMITTED. REVIEW WITH THE CITY
- 14. LAYOUT EMITTER TUBING PARALLEL TO TOPOGRAPHY WHEREVER POSSIBLE. INSTALL FLUSHABLE TYPE END CAP AT ENDS OF ALL SCHEDULE 40 PVC AND FLUSH THOROUGHLY BEFORE INSTALLING EMITTERS.
- 15. THE LANDSCAPE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO FINISH GRADE.
- 16. ALL VALVE BOXES / LIDS SHALL BE PER THE CONSTRUCTION DETAILS WITH LOCKING LIDS AND COLOR TO BE
- 17. ALL TREES. SHRUBS AND GROUNDCOVERS SHALL BE IRRIGATED BY MULTI-OUTLET EMITTERS. SEE EMITTER SCHEDULE (THIS SHEET) FOR ADDITIONAL INFORMATION.
- 18. CONTRACTOR SHALL REPAIR OR REPLACE ANY IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE CITY REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR

### IRRIGATION POINT OF CONNECTION NOTE

THE IRRIGATION POINT OF CONNECTION - THIS SHEET: IS A PVC TEE AND CAP ON A EXISTING 1-1/4" SCH. 40 PVC MAINLINE AT STATION 62 + 30. DOWNSTREAM OF THE EXISTING 1" POTABLE WATER METER AND 1" BACKFLOW PREVENTER. THE CONTRACTOR SHALL FIELD LOCATE THE IRRIGATION STUB AND COORDINATE WITH THE PROJECT REPRESENTATIVE PRIOR TO TAPING INTO THE WATER SOURCE. THE EXISTING IRRIGATION CAN BE OUT OF SERVICE FOR NO LONGER THAN 24 HRS. IF THE CONTRACTOR FAILS TO EXECUTE THIS THE CONTRACTOR IS LIABLE FOR ANY DEAD OR DAMAGED EXISTING PLANT MATERIAL

## GENERAL LANDSCAPE NOTES (CONT.

- 12. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE REVEGETATED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE CITY REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
- 13. NOTIFY THE CITY REPRESENTATIVE 48 HOURS IN ADVANCE OF ANY INSPECTIONS AND / OR APPROVALS OF LANDSCAPE MATERIAL AND IRRIGATION PRODUCTS PRIOR TO INSTALLATION.
- 14. THE CONTRACTOR SHALL WARRANTY THE PLANT MATERIAL, IRRIGATION SYSTEM, AND WORKMANSHIP FOR A MINIMUM PERIOD OF TWO YEARS.
- CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES ON SLOPES EXCEEDING 3:1.
- 16. SOUTHWEST GAS REQUIRES ALL TREE PLACEMENTS HAVE A MINIMUM 8-FOOT CLEARANCE FROM THE TREE CENTER LINE TO EXISTING GAS FACILITIES. SOUTHWEST GAS WILL ONLY ALLOW SHRUBS AND GROUNDCOVERS TO BE PLANTED IN THE 8-FOOT ZONES.
- 17. ALL PLANT MATERIAL SHALL INSPECTED AND VERIFIED TO BE FREE OF DISEASE. PARKINSONIA FLORIDA SHALL BE INSPECTED AND TRANSPLANTED ONLY IF IT IS FOUND TO BE FREE OF WITCHES BROOM, DISEASED PLANT MATERIAL SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE

#### IRRIGATION LEGEND

EQUIPMENT DESCRIPTION **COMMENTS** POC Irrigation Point of Connection, 2" Sch. 40 PVC Stub See Sheet 134 Station 62 + 30 downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer

Existing 1" Water Meter

Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12'W X 24'H X

Existing DIG LEIT XRC, 16 Stations, Solar Controller w/ Master Valve capability

Existing Master Valve Assembly

1-1/2" Rain Bird PESB - Self-cleaning Scrubber Valve

LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1-1/2" NIBCO T-580 Bronze Ball Valve

#### EX. NEW

Drip Valve Assembly	Detail 3, Sheet IP5
1" Rain Bird PEB -	0.4
LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1" NIBCO T-580 Bronze Ball Valve	Or Approved Equal Or Approved Equal
1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh	Or Approved Equal

"MPT w/ MHT Flush & Cap - Red 200 SS Mesh API Agricultural Products 4E - Spin Clean Filter

Senninger Pressure Regulator PMR-LF-25 3/4" LF 2-25 GPM

Watts WGV THD Bronze Gate Valve Size - Per line size

Sleeve - Sch. 40 PVC Separate sleeves shall be installed for irrigation pipe and control wire. See Irrigation Note 13 this Sheet for

additional sleeving information. 1-1/4" Main Line - Sch. 40 PVC - Size per Plan 1" Lateral line - Sch. 40 PVC. 3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter

See Emitter Schedule this Sheet. Lateral Flush End Cap In 6" round box - Color: Tan

## VALVE CALLOUT

## SLEEVE CALLOUT

Detail 5, Sheet IP5 Or Approved Equal

Detail 4. Sheet IP5

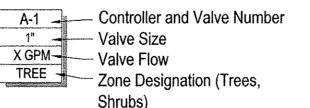
Detail 2. Sheet IP5

Detail 1, Sheet IP5

Detail 1. Sheet IP5

Detail 1. Sheet IP5

Detail 10, Sheet IP5



-Sleeve Size Approx. Length of Sleeve \*Note: Existing Sleeves not labeled

## **EMITTER SCHEDULE**

Shrubs, Accents and Groundcovers - Multi-port Emitters: All accents and cacti: 1-0.5 GPH Outlet, Rainbird XBT-05-6 Emitter \*Cacti - Emitters shall be plugged after the establishment period thereby eliminating irrigation to the cacti.

All 1 Gal. groundcovers: 1-1 GPH Outlet, Rainbird XBT-10-6 Emitter All 5 Gal. plants: 2-1 GPH Outlets, Rainbird XBT-10-6 Emitter

\*\*Note: Emitters shall be as specified or Approved Equal.

Trees and Transplanted Trees - Mulit-port Emitters: All 15 Gal, trees: 1-6 GPH Rainbird XBT-10-6 each

Transplanted trees: 1-12 GPH Rainbird XBT-20-6 each \*\*Note: Emitters shall be as specified or Approved Equal

## PLANT SCHEDULE (CONT.)

## 

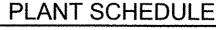
0.83 Acre. Seed list as follows: Other hydroseed materials to be applied per the standard specifications found in the COT/ PC Standard Specifications for Public Improvements, 2003: Section 805. Decorative Rock to be 1/2"-4" Screened Rock. 3,980 SY. Color to be Apache Gold. Apply at 60% of full coverage assuming 2" depth. See also Detail 14, Sheet LP5

	BOTANICAL NAME	COMMON NAME	PLS RATE/ACRE
	Acacia constricta	White Thorn Acacia	2.5
	Acacia greggii	Cat's Claw Acacia	2.5
	Ambrosia deltoidea	Triangleleaf Bursage	2.0
	Ambrosia dumosa	White Bursage	1.0
	Aster tanacetifolius	Aster	1.0
	Baileya multiradiata	Desert Marigold	0.5
	Parkinsonia microphyllum	Foothills Palo Verde	1.5
	Encelia farinosa	Brittlebush	1.0
	Eschscholzia californica	Mexican Gold Poppy	2.0
	ssp. mexicana		
	Larrea tridentata	Creosote	2.0
	Lupinus sparsiflorus	Desert Lupine	0.25
	Lupinus succulentus	Arroyo Lupine	2.0
	Penstemon eatonii	Firecracker Penstemon	
	Penstemon parryi	Parry's Penstemon	1.0
	Phacelia campanularia	California Bluebells	0.5
MODE	ANTONIO		

— TRANSPLANT CALLOUT -Plant Symbol -Transplant Symbol -NPPO - Label

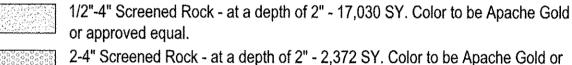
### GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLAN AS CLOSELY AS POSSIBLE. ANY DISCREPANCY IN THE PLAN VS. THE FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE IMMEDIATELY.
- 2. THESE LANDSCAPE PLANS ARE DESIGNED TO MEET THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING PLANS AND ORDINANCES: PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT SSPI) 2003 EDITION, DIVISION 500
- 3. SIGHT VISIBILITY TRIANGLE SHALL BE CLEAR OF LANDSCAPING AND OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 2 FEET. TREES WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL HAVE A CANOPY THAT BEGINS AT 6 FEET IN HEIGHT UPON INSTALLATION.
- 4. LOCATION OF ALL ELEMENTS ON THIS PLAN SHALL BE APPROVED BY THE CITY OF TUCSON LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE, PRIOR TO INSTALLATION.
- 5. MAINTENANCE: ALL REQUIRED LANDSCAPING AND IRRIGATION SYSTEMS WITHIN THE RIGHT-OF-WAY SHALL BE MAINTAINED TO ACHIEVE PERMANENT, SAFE, AND SUCCESSFUL LANDSCAPING AS REQUIRED BY SECTIONS 807 AND 808 OF THE PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT SSPI) 2003 EDITION
- 6. ALL DISTURBED, GRUBBED, GRADED OR BLADED AREAS NOT OTHERWISE IMPROVED SHALL BE LANDSCAPED, RESEEDED, OR TREATED WITH AN INORGANIC OR ORGANIC GROUND COVER.
- 7. PLANTING SEASON: SEE SPECIAL PROVISIONS SECTION 806 TREES, SHRUBS AND PLANTS SUBSECTION 3.01 WHICH STATES: WITHIN THE OVERALL PROJECT PHASING AND COMPLETION REQUIREMENTS, THE SCHEDULE FOR PLANTING OF TREES AND SHRUBS SHALL BE AT THE DISCRETION OF THE CONTRACTOR. PLANTING DURING EXTREMELY COLD. HOT. OR WINDY PERIODS SHALL BE PERFORMED AT THE CONTRACTOR'S RISK. PLANTS WHICH ARE DAMAGED OR DIE PRIOR TO FINAL ACCEPTANCE AS A RESULT OF EXTREME WEATHER CONDITIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 8. PLANT SIZE, LOCATION AND SPACING:
- a. TREES AND SHRUBS ARE TO BE LOCATED SO THAT, AT MATURITY, THEY DO NOT INTERFERE WITH EXISTING ONSITE OR OFFSITE UTILITY SERVICE LINES OR UTILITY EASEMENTS OR WITH SOLAR ACCESS TO AN ADJACENT PROPERTY.
- ALL SHRUBS AND GROUNDCOVERS TO BE A MINIMUM OF 2' FROM BACK OF CURB OR BACK OF SIDEWALK.
- 9. PLANT PLACEMENT TO BE FIELD ADJUSTED AS NEEDED TO AVOID PROPOSED UTILITIES. EXISTING PRESERVED VEGETATION, AND OTHER FIELD CONDITIONS, CONTACT THE CITY REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS.
- 10. WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 11. THE CONTRACTOR SHALL TAKE EXTREME CARE WHILE WORKING WITHIN THE PROJECT AREA AS TO NOT DISTURB ANY EXISTING UTILITIES OR STRUCTURES ON OR ADJACENT TO THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND OR REPAIRING ANY EXISTING STRUCTURES OR UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY OF TUCSON.



SYM.	BOTANICAL NAME	COMMON NAME	SIZE	QTY
TREES -				
+ )	Acacia constricta	Whitethorn Acacia	15 GAL	20
	Acacia constricta	Whitethorn Acacia	TRANS.	1
< · >	Acacia greggii	Catclaw Acacia	15 GAL	12
	Chilopsis linearis 'Lucretia Hamilton'	Desert Willow Hybrid	15 GAL	45
	Parkinsonia florida	Blue Palo Verde	TRANS.	7
	Parkinsonia preacox	Palo Brea	15 GAL	28
$(\cdot)$	Prosopis juliflora	Velvet Mesquite	15 GAL	41
$\sim$ ( $\sim$ )	Prosopis juliflora	Velvet Mesquite	TRANS.	8
	Existing Tree (PIP)	Varies		61
SHRUB	S		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
⊗	Buddleja marrubifolia	Wooly Butterfly Bush	5 GAL	114
₩	Calliandra eriophylla	Pink Fairy Duster	5 GAL	113
$\Re$	Cordia parvifolia	Littleleaf Cordia	5 GAL	34
( <del>*)</del>	Dodonea viscosa	Hopbush	15 GAL	62
0	Ericameria laricifolia	Turpentine Bush	5 GAL	41
	Larrea tridentata	Creosote	5 GAL	40
	Simmondsia chinensis	Jojoba	5 GAL	68
ACCEN	TS			
Q	Agave desertii	Desert Agave	5 GAL	49
⊗	Agave parryi v. truncata	Artichoke Agave	5 GAL	57
$\otimes$	Agave weberii	Weber's Agave	5 GAL	52
<b>•</b>	Carnegiea gigantea	Saguaro	5' spea	
•	Carnegiea gigantea	Saguaro	TRANS	
*	Dasylirion wheeleri	Toothless Desert Spoon	5 GAL	50
	Ferocactus wizlizenii	Barrel Cactus	TRANS	
<b>A</b>	Hesperaloe parviflora	Red Yucca	5 GAL	37
<b>⊙</b>	Opuntia engelmannii	Engelmann's Prickly Pear	5 GAL	44
(E)	Opuntia santa rita	Santa Rita Prickly Pear	5 GAL	70

—— INERT GROUNDCOVER 1/2" Screened Rock - at a depth of 2" - 867 SY. Color to be Apache Gold or approved equal.



Soaptree Yucca

Sundrops

Exposed aggregate concrete. CIP gray concrete with exposed aggregate

finish, seed top of concrete with 1" to 2" smooth washed stone. See Civil Plan for construction detailing.

Note: 1/2"-4" Screened Rock is also known as "Desert Pavement". Apache Gold decorative rock available from Kalamazoo Materials (520) 631-8268.

## BOULDERS —

Color to be Apache Gold or approved equal. Available from Kalamazoo Materials (520) 631-8268.

3'x3'x3' 2'x2'x2' 18"x18"x18" 33

Yucca elata

Calylophus hartwegii

—— GROUNDCOVERS -

1.13 Acre. Seed list as follows: Other hydroseed materials to be applied per the standard specifications found in the COT/PC Standard Specifications for Public Improvements, 2003: Section 805.

BOTANICAL NAME	COMMON NAME	PLS RATE/ACRE
Aster tanacetifolius	Purple Aster	3.0
Baileya multiradiata	Desert Marigold	1.5
Dischlostemma pulchellum	Blue Dicks	5.0
Encelia farinosa	Brittle Bush	2.0
Erigonum fasciculatum	Flat top Buckwheat	1.5
Leptochloa dubia	Green Sprangletop	4.0
Parthenium incanum	Mariola	2.0
Penstemon parryi	Penstemon	4.0
Sphaeralcea ambigua	Globemallow	2.0



Ph: 520.622.9565 norris-design.com

189

SCALE: H: NA

V: NA

15 GAL 18

5 GAL 38

LANDSCAPE SUMMARY

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION LS1 SABINO CANYON ROAD LS1 TANQUE VERDE ROAD TO KOLB ROAD 163

DRWN. BY HU DSGN. BY HU

12/14 | REF. 12/14 12/14 PLAN NO. I-2009-029

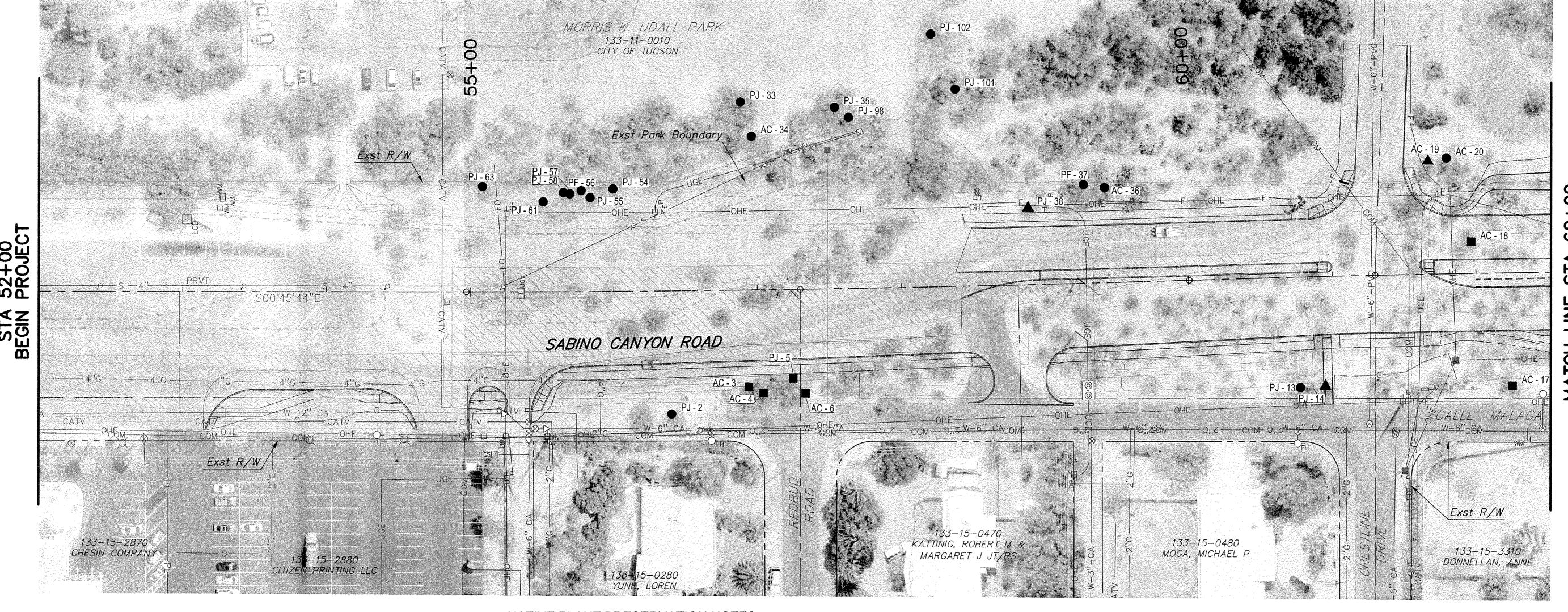


NO. DATE REVISION

CHKD. APPR.

(520) 292-2300 (520) 292-1290 fax

**PSOMAS** 



## NATIVE PLANT PRESERVATION LEGEND

- PRESERVE IN PLACE (PIP)
- ▲ TRANSPLANT ON SITE (TOS)
- REMOVE FROM SITE (RFS)

## NATIVE PLANT PRESERVATION NOTES:

- 1. THIS NATIVE PLANT PRESERVATION PLAN MEETS THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING REGULATIONS AND STANDARDS: ARTICLE III, DIVISION 8 OF THE CITY OF TUCSON LAND USE CODE, AND DEVELOPMENT STANDARD 2-15.0.
- 2. FOR ADDITIONAL PROJECT REQUIREMENTS THE CONTRACTOR MUST FAMILIARIZE THEMSELVES AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SPECIAL PROVISIONS SECTION 809 NATIVE PLANT SALVAGE WORK PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE. PER SAID SECTION THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE PROJECT ENGINEER/CITY REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION ON-SITE. CONTACT GARY WITTWER CITY OF TUCSON DEPT. OF TRANSPORTATION LANDSCAPE ARCHITECT (520) 310-2002.
- 3. THE CITY OF TUCSON PLANT INVENTORY METHODOLOGY METHOD WAS USED TO PREPARE THIS PLAN.
- 4. BEFORE THE ISSUING OF GRADING PERMITS ALL VIABLE INVENTORIED PLANTS PROPOSED FOR REMOVAL FROM SITE SHALL BE TAGGED WITH AN EMBOSSED METAL TAG BEARING THEIR ASSIGNED INVENTORY NUMBER. TAGS AS WELL AS COLOR CODED FLAGGING (AS DIRECTED BY THIS NATIVE PLANT PRESERVATION PLAN) SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

COLOR CODING FOR FLAGGING: WHITE = PRESERVE IN PLACE (PIP) BLUE = TRANSPLANT ON SITE (TOS) YELLOW = REMOVE FROM SITE (RFS)

- 5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL.
- 6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FEDERAL ENDANGERED SPECIES ACT AND THE ARIZONA NATIVE PLANT LAW.
- 7. CONTRACTOR SHALL KEEP THESE PLANS ON-SITE AT ALL TIMES. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE LANDSCAPE PLANS.



<u>V: NA</u>

189

1 inch = 40 ft.



12/14 PLAN NO. I-2009-029

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION NP1 SABINO CANYON ROAD NP5 TANQUE VERDE ROAD TO KOLB ROAD CITY OF DSGN. BY HU

TUCSON CHKD. BY JK 164 12/14 REF. SCALE: <u>H: 1"=40'</u>

**PSOMAS** 333 E. Wetmore Road, Suite 450
Tucson, AZ 85719
(520) 292-2300 (520) 292-1290 fax
www.psomas.com



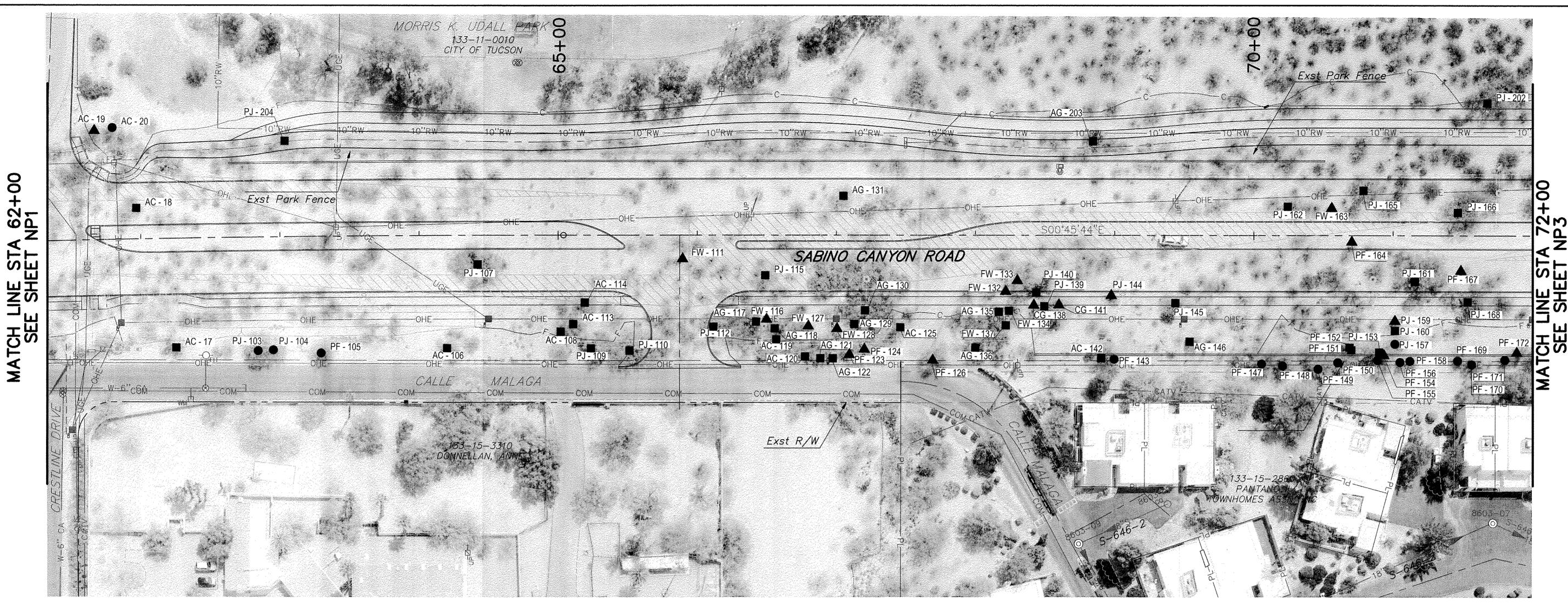


REVISION

NO. DATE

BY CHKD. APPR.





## NATIVE PLANT PRESERVATION NOTES:

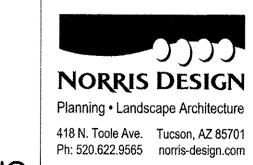
- 1. THIS NATIVE PLANT PRESERVATION PLAN MEETS THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING REGULATIONS AND STANDARDS: ARTICLE III, DIVISION 8 OF THE CITY OF TUCSON LAND USE CODE, AND DEVELOPMENT STANDARD 2-15.0.
- 2. FOR ADDITIONAL PROJECT REQUIREMENTS THE CONTRACTOR MUST FAMILIARIZE THEMSELVES AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SPECIAL PROVISIONS SECTION 809 NATIVE PLANT SALVAGE WORK PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE. PER SAID SECTION THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE PROJECT ENGINEER/CITY REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION ON-SITE. CONTACT GARY WITTWER CITY OF TUCSON DEPT. OF TRANSPORTATION LANDSCAPE ARCHITECT (520) 310-2002.
- 3. THE CITY OF TUCSON PLANT INVENTORY METHODOLOGY METHOD WAS USED TO PREPARE THIS PLAN.
- 4. BEFORE THE ISSUING OF GRADING PERMITS ALL VIABLE INVENTORIED PLANTS PROPOSED FOR REMOVAL FROM SITE SHALL BE TAGGED WITH AN EMBOSSED METAL TAG BEARING THEIR ASSIGNED INVENTORY NUMBER. TAGS AS WELL AS COLOR CODED FLAGGING (AS DIRECTED BY THIS NATIVE PLANT PRESERVATION PLAN) SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

COLOR CODING FOR FLAGGING: WHITE = PRESERVE IN PLACE (PIP) BLUE = TRANSPLANT ON SITE (TOS) YELLOW = REMOVE FROM SITE (RFS)

- 5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL.
- 6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FEDERAL ENDANGERED SPECIES ACT AND THE ARIZONA NATIVE PLANT LAW.
- 7. CONTRACTOR SHALL KEEP THESE PLANS ON-SITE AT ALL TIMES. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE LANDSCAPE PLANS.

## NATIVE PLANT PRESERVATION LEGEND

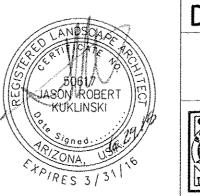
- PRESERVE IN PLACE (PIP)
- ▲ TRANSPLANT ON SITE (TOS)
- REMOVE FROM SITE (RFS)

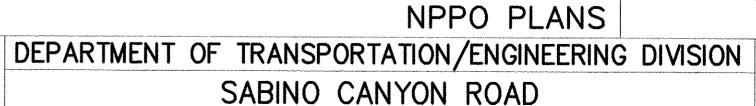


NP2

1 inch = 40 ft.





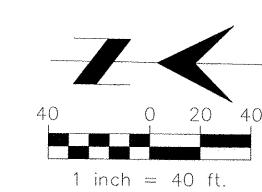


NP5 TANQUE VERDE ROAD TO KOLB ROAD 165 12/14 REF. DRWN. BY HU SCALE: H: 1"=40' <u>V: NA</u> OF DSGN. BY HU 12/14 PLAN NO. I-2009-029 189

Call at least two full working day Arizona Blue Stake, Inc. ial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

REVISION NO. DATE BY CHKD, APPR.

133-11-002D CITY OF TUCSON REAL ESTATE DIVISION  $^{\prime}$   $\otimes$   $\otimes$   $\otimes$   $\otimes$   $\otimes$ SABINO CANYON ROAD 133-14-2370 CITY OF TUCSON REAL ESTATE DIVISION NATIVE PLANT PRESERVATION NOTES:



- 1. THIS NATIVE PLANT PRESERVATION PLAN MEETS THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING REGULATIONS AND STANDARDS: ARTICLE III, DIVISION 8 OF THE CITY OF TUCSON LAND USE CODE, AND DEVELOPMENT STANDARD 2-15.0.
- 2. FOR ADDITIONAL PROJECT REQUIREMENTS THE CONTRACTOR MUST FAMILIARIZE THEMSELVES AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SPECIAL PROVISIONS SECTION 809 NATIVE PLANT SALVAGE WORK PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE. PER SAID SECTION THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE PROJECT ENGINEER/CITY REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION ON-SITE. CONTACT GARY WITTWER CITY OF TUCSON DEPT. OF TRANSPORTATION LANDSCAPE ARCHITECT (520) 310-2002.
- 3. THE CITY OF TUCSON PLANT INVENTORY METHODOLOGY METHOD WAS USED TO PREPARE THIS PLAN.
- 4. BEFORE THE ISSUING OF GRADING PERMITS ALL VIABLE INVENTORIED PLANTS PROPOSED FOR REMOVAL FROM SITE SHALL BE TAGGED WITH AN EMBOSSED METAL TAG BEARING THEIR ASSIGNED INVENTORY NUMBER. TAGS AS WELL AS COLOR CODED FLAGGING (AS DIRECTED BY THIS NATIVE PLANT PRESERVATION PLAN) SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

COLOR CODING FOR FLAGGING: WHITE = PRESERVE IN PLACE (PIP) BLUE = TRANSPLANT ON SITE (TOS) YELLOW = REMOVE FROM SITE (RFS)

- 5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL.
- 6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FEDERAL ENDANGERED SPECIES ACT AND THE ARIZONA NATIVE PLANT LAW.
- 7. CONTRACTOR SHALL KEEP THESE PLANS ON-SITE AT ALL TIMES. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE LANDSCAPE PLANS.

## NATIVE PLANT PRESERVATION LEGEND

- PRESERVE IN PLACE (PIP)
- ▲ TRANSPLANT ON SITE (TOS) REMOVE FROM SITE (RFS)

NORRIS DESIGN Planning • Landscape Architecture

NP5

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NPPO PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION NP3 SABINO CANYON ROAD TANQUE VERDE ROAD TO KOLB ROAD

12/14 REF. 12/14

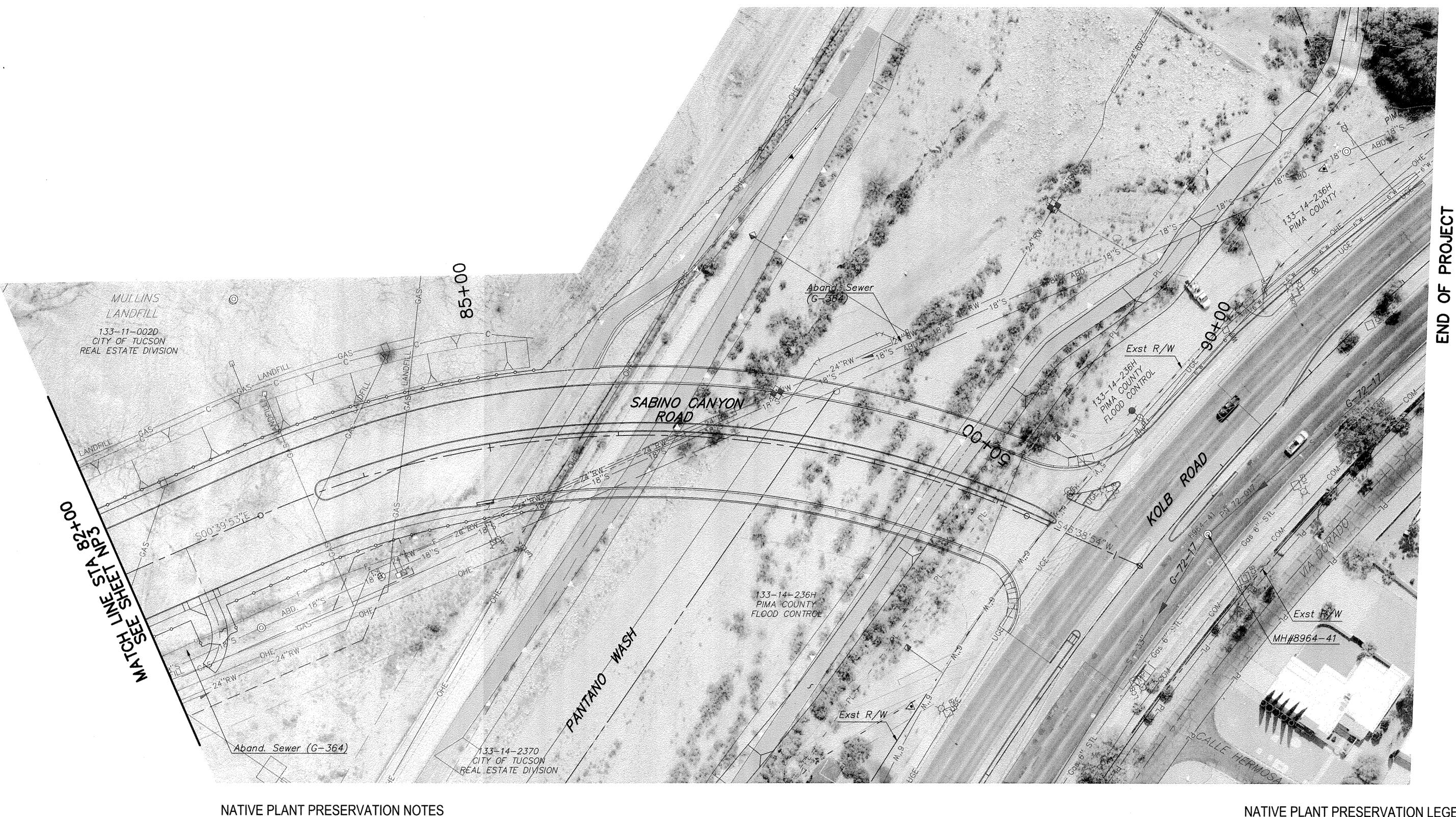
Call at least two full working day: Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

NO. DATE REVISION BY CHKD. APPR.

333 E. Wetmore Road, Suite 450 Tucson, AZ 85719 (520) 292-2300 (520) 292-1290 fax www.psomas.com

**PSOMAS** 

166 \_SCALE: <u>H: 1"=40'</u> <u>V: NA</u> OF 189 12/14 PLAN NO. I-2009-029



- 1. THIS NATIVE PLANT PRESERVATION PLAN MEETS THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING REGULATIONS AND STANDARDS: ARTICLE III, DIVISION 8 OF THE CITY OF TUCSON LAND USE CODE, AND DEVELOPMENT STANDARD 2-15.0.
- 2. FOR ADDITIONAL PROJECT REQUIREMENTS THE CONTRACTOR MUST FAMILIARIZE THEMSELVES AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SPECIAL PROVISIONS SECTION 809 NATIVE PLANT SALVAGE WORK PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE. PER SAID SECTION THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE PROJECT ENGINEER/CITY REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION ON-SITE. CONTACT GARY WITTWER CITY OF TUCSON DEPT. OF TRANSPORTATION LANDSCAPE ARCHITECT (520) 310-2002.
- 3. THE CITY OF TUCSON PLANT INVENTORY METHODOLOGY METHOD WAS USED TO PREPARE THIS PLAN.
- 4. BEFORE THE ISSUING OF GRADING PERMITS ALL VIABLE INVENTORIED PLANTS PROPOSED FOR REMOVAL FROM SITE SHALL BE TAGGED WITH AN EMBOSSED METAL TAG BEARING THEIR ASSIGNED INVENTORY NUMBER. TAGS AS WELL AS COLOR CODED FLAGGING (AS DIRECTED BY THIS NATIVE PLANT PRESERVATION PLAN) SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

COLOR CODING FOR FLAGGING: WHITE = PRESERVE IN PLACE (PIP) BLUE = TRANSPLANT ON SITE (TOS) YELLOW = REMOVE FROM SITE (RFS)

5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL.

NO. DATE

6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FEDERAL ENDANGERED SPECIES ACT AND THE ARIZONA NATIVE PLANT LAW.

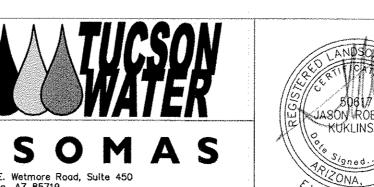
7. CONTRACTOR SHALL KEEP THESE PLANS ON-SITE AT ALL TIMES. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE LANDSCAPE PLANS.

## NATIVE PLANT PRESERVATION LEGEND

- PRESERVE IN PLACE (PIP)
- ▲ TRANSPLANT ON SITE (TOS)
- REMOVE FROM SITE (RFS)







JASON ROBERT C
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DEPARTMENT	OF TRANS	SPORTATIO	N/ENGIN	EERING DIVISION	NP
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	TANQUE VE	RDE ROAD TO	) KOLB RO	AD	NP:
CITY OF	DRWN. BY H	U 12/1	4 REF.	SCALE: H: 1"=40'	167

PSOMAS <u>V: NA</u> 333 E. Wetmore Road, Sulte 450 Tucson, AZ 85719 (520) 292-2300 (520) 292-1290 fax www.psomas.com 12/14 189 12/14 PLAN NO. I-2009-029 1P/RES 3/31 REVISION BY CHKD. APPR.



4		LANT PRES					Iniana inian	0.11	Tarrele	8
	Label	Botanical Name	Common Name		4	<u> </u>	Disposition	callper	irunk	Comment (Co. 2 Note #4
	PJ - 2	Prosopis juliflora	Velvet Mesquite		High	High	PIP	1		See Note #1
	AC - 3	Acacia constricta	Whitethorn Acacia	<b></b>	Low	Low	RFS	4	<u> </u>	mistletoe, See Note #1
	AC - 4	Acacia constricta	Whitethorn Acacia	<u> </u>	Low	Low	RFS	4	multiple	mistletoe, See Note #1
5	PJ - 5	Prosopis juliflora	Velvet Mesquite	15.0	High	Low	RFS	4		See Note #1
6	AC - 6	Acacia constricta	Whitethorn Acacia	12.0	High	Low	RFS	4		See Note #1
13	PJ - 13	Prosopis juliflora	Velvet Mesquite	18.0	Medium	Low	PIP	8	multiple	See Note #1
14	PJ - 14	Prosopis juliflora	Velvet Mesquite	10.0	High	High	TOS	6	multiple	See Note #1
17	AC - 17	Acacia constricta	Whitethorn Acacia	20.0	Low	Low	RFS	6	multiple	mistletoe, See Note #1
18	AC - 18	Acacia constricta	Whitethorn Acacia	12.0	Medium	Low	RFS	4		low branches, See Note #
	AC - 19	Acacia constricta	Whitethorn Acacia	12.0	High	Medium	Tos	4	multiple	See Note #1
	AC - 20	Acacia constricta	Whitethorn Acacia	L	High	Low	PIP	4		See Note #1
	PJ - 33	Prosopis juliflora	Velvet Mesquite		Medium	Low	PIP	13	11110p10	See Note #2
	AC - 34	Acacia constricta	Whitethorn Acacia	***************************************	Medium	Low	PIP	4	multiple	See Note #2
	PJ - 35	<u> </u>	Velvet Mesquite		High	<del> </del>	PIP	13	manabie	<u> </u>
~~~	a such sed vergen encounts from none enforce beneficially on globit	Prosopis juliflora	e de la languagna de la	g,		Low		,/	Est u f	See Note #2
	AC - 36	Acacia constricta	Whitethorn Acacia		High	Low	PIP	4	muliple	See Note #1
	PF - 37	Parkinsonia florida	Blue Palo Verde		High	Low	PIP	7		See Note #1
	PJ - 38	Prosopis juliflora	Velvet Mesquite	manifer to the descriptions of the community of the	High	High	TOS	4		See Note #1
	PJ - 54	Prosopis juliflora	Velvet Mesquite		High	High	PIP	4	multiple	See Note #2
55	PJ - 55	Prosopis juliflora	Velvet Mesquite	12.0	High	Hìgh	PIP	4		See Note #2
56	PF - 56	Parkinsonia florida	Blue Palo Verde	12.0	High	Medium	PIP	4	multiple	See Note #2
57	PJ - 57	Prosopis juliflora	Velvet Mesquite	12.0	High	High	PIP	4	multiple	See Note #2
58	PJ - 58	Prosopis juliflora	Velvet Mesquite	12.0	Medium	Medium	PIP	4	<u> </u>	See Note #2
	PJ - 61	Prosopis juliflora	Velvet Mesquite		High	High	PIP	4		See Note #2
		Prosopis juliflora	Velvet Mesquite		Medium	Low	PIP	4	multinle	See Note #2
	PJ - 98	Prosopis juliflora	Velvet Mesquite		High	High	PIP	4	ainhic	See Note #2
			1		<u> </u>		<u> </u>			
		Prosopis juliflora	Velvet Mesquite		Medium	High	PIP	4		See Note #2
	L	Prosopis juliflora	Velvet Mesquite		High	Low	PIP	16		See Note #2
		Prosopis juliflora	Velvet Mesquite		High	Low	PIP	8	1	8in multi
		Prosopis juliflora	Velvet Mesquite		Medium	Low	PIP	4	multiple	4in multi
105	PF - 105	Parkinsonia florida	Blue Palo Verde	15.0	High	Low	PIP	ô		6in
106	AC - 106	Acacia constricta	Whitethorn Acacia	12.0	Low	Low	RFS	4	multiple	mistletoe low branching
		Prosopis juliflora	Velvet Mesquite	15.0	Low	Low	RFS	16		mistletoe
		Acacia constricta	Whitethorn Acacia		Low	Low	RFS	4		mistletoe
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	Prosopis juliflora	Velvet Mesquite		Low	Low	RFS	8	<u></u>	mistletoe broken branche
		Prosopis juliflora	Velvet Mesquite	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Low	Low	RFS	6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mistletoe
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<u> </u>		mulapic	\$
	alaponentiamonentoninaja o konstron <del>ara</del> atio	Ferocactus wizlizenii	Compass Barrel		High	Medium	TOS	0	erangistes i a a a lanti, para a Aringhera a mana haran a a ganda arin	creosote entangled
	Manufatrass settler street surger of correct	Prosopis juliflora	Velvet Mesquite		Low	Low		6		mistletoe
		Acacia constricta	Whitethorn Acacia	12.0	Medium	Low	RFS	4	multiple	
114	AC - 114	Acacia constricta	Whitethorn Acacia	8.0	Medium	Low	RFS	4	multiple	low branches
115	PJ - 115	Prosopis juliflora	Velvet Mesquite	10.0	Low	Low	RFS	8	multiple	mistletoe
116	FW-116	Ferocactus wizlizenii	Compass Barrel	2.0	High	High	TOS	0	and the first of the second se	a the first of the character of the first of the first of the character of
117	AG - 117	Acacia greggii	Catclaw Acacia	12.0	Low	Low	RFS	4	multiple	low branches mistletoe
118	AG - 118	Acacia greggii	Catclaw Acacia	12.0	Low	Medium	RFS	8		mistletoe
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Acacia constricta	Whitethorn Acacia	n, er. /* e i min man'n A y , q, a'nd a Affersan'n a'	Low	Low	RFS	4		mistletoe
***************************************	************************************	Acacia constricta	Whitethorn Acacia		Low	Medium	RFS	5		mistletoe
	,	Acacia greggii	Catclaw Acacia		Low		RFS	4	mu'm ' man en manara	
m-reservitive polices			$a_{i} = a_{i} + a_{i$	Caralter Comment Anna Caralter (No.		Low	and the control of th	<del>4</del>	oregus especies y man car across conserva-	4in leaning mistletoetoeto
	\	Acacia greggii	Catclaw Acacia		Low	Low	RFS	5	multiple	leaning mistletoe
		Parkinsonia florida	Blue Palo Verde		High	Medium	TOS	4	***************************************	
***************************************		k CAN statementalisalistised onglysmentand meghanasana standami sa basa Stand Anas, sa sasadami basa sa sa sa sa	Blue Palo Verde	12.0	High	High	TOS	4		
125	AC - 125	Acacia constricta	Whitethorn Acacia	18.0	Low	Medium	RFS	4		mistletoe
126	PF - 126	Parkinsonia florida	Blue Palo Verde	18.0	High	High	TOS	7		
127	FW - 127	Ferocactus wizlizenii	Compass Barrel	2.0	Medium	High	TOS	0	Vertreiterisischer Haus-Terreiterischer	
128	FW - 128	Ferocactus wizlizenii	Compass Barrel	3.0	Medium	Medium	TOS	0	Militaria andre Palenti Palenti (basil alikili Palenti alika an	multi headed
		Acacia greggii	Catclaw Acacia		Low	Low	RFS	4	multiple	
	<del></del>	Acacia greggii	Catclaw Acacia		Low	Low	RFS	4		low split mistletoe
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	jst v,te ininkey,rst eenem ve broonjunkomeentikkeer/mer	Acacia greggii	Catclaw Acacia	denie wy trans a more a processe o	Low	Low	RFS			trunk on ground mistletoe
								7 A		adire on ground mistletoe
	·····	Ferocactus wizlizenii	***************************************		Hìgh	High	TOS	0	700 A 100 A	
		Ferocactus wizlizenii		Commence of the Commence of th	High	High			a finger of the country and final or follow for the	the of Alexandria and the first American State (and the control of
~		Ferocactus wizlizenii			Low	Medium		0	e makansaka kacaman iya e e e makaka ya makaka ka	partially uprooted
		Acacia greggii	Catclaw Acacia		Low	Low				low split
136	AG - 136	Acacia greggii	Catclaw Acacia	7.0	Medium	Low	RFS	4	multiple	low split
137	FW - 137	Ferocactus wizlizenii	Compass Barrel	3.0	Medium	Low	RFS	0		leaning
138	CG - 138	Carnegia gigantea	Saguaro	9.0	High	High	TOS	0	مي پسيدار دخر د د دولان ده دولان سندار يې د د	spear
		Prosopis juliflora	Velvet Mesquite		Low	Low	RFS	12	,,,,,,,,,,	mistletoe
		Prosopis juliflora	Velvet Mesquite	······································	Low	Low			multinle	mistletoe
		Carnegia gigantea	Saguaro	and a second	Medium	High		0		apache bootspear
		Acacia constricta	Whitethorn Acacia		High					
			.,			Low			multiple	*
I		Parkinsonia florida	Blue Palo Verde		High	Medium	PIP	J		concrete at base
		Prosopis juliflora	Velvet Mesquite			Medium		4		leaning
		Prosopis juliflora	Velvet Mesquite			Low		4		leaning poor branch form
146	AG - 146	Acacia greggii	Catclaw Acacia	7.0	High	Low	RFS	4	multiple	on slope crest
147	PF - 147	Parkinsonia florida	Blue Palo Verde	20.0	High	Low	PIP	8	multiple	coord w wall animal burro
148	PF - 148	Parkinsonia florida	Blue Palo Verde	12.0	Medium	Medium	PIP		multiple	
		Parkinsonia florida	Blue Palo Verde			Medium			multiple	
		Parkinsonia florida		and the trades, at the settlement type, at the set of	No. 1980 a. 1 Maria de pero, por la reconstrucción de la coloque de la c	10.000 (page de			***************************************	astronomen and the sequence of
		in the control of the second process and the control of the contro	Blue Palo Verde	to the gat a superior type of promopers (# 1 mg/s, n/m/m/	of the management and the contract of the cont	Medium	5.7844 Nov. 1174 (1916) 114 oct 11 oct 1		multiple	and and an extension of the second of the second and a second of the sec
		Parkinsonia florida	Blue Palo Verde		·	Medium		4		poor form
		Parkinsonia florida	Blue Palo Verde		Low	Low	RFS	4		almost dead
153	PJ - 153	Prosopis juliflora	Velvet Mesquite	20.0	High	Low	RFS	5	multiple	The state of the s
		Parkinsonia florida	Blue Palo Verde	15.0	Medium	High	TOS	4	multiple	
		Parkinsonia florida	Blue Palo Verde		High	High	PIP		multiple	
		Parkinsonia florida	Blue Palo Verde	·····		Medium			multiple	
156			, m.v (Y1WV						יייאיייי	
		Prosopis juliflora	Velvet Mesquite	12.0	Hinh 1	High	- خية إفياؤ	4 I	,	

Call at least two full working day

al 8-1-1 or 1-800-STAKE-IT (782-5348

In Maricopa County: (602) 263-1100

ag#	Label	Botanical Name	Common Name	Height	Viability	Transplant	Disposition	Caliper	Trunk	Comment
	PJ - 159	Prosopis juliflora	Velvet Mesquite	10.0	High	Medium	TOS	4		low split
160	PJ - 160	Prosopis juliflora	Velvet Mesquite	10.0	Low	High	RFS	4		trunk damage
161	PJ - 161	Prosopis juliflora	Velvet Mesquite	20.0	Medium	Low	RFS	12	multiple	
162	PJ - 162	Prosopis juliflora	Velvet Mesquite	8.0	Medium	Low	RFS	6	multiple	low split
163	FW-163	Ferocactus wizlizenii	Compass Barrel	3.0	High	High	TOS	0		
164	PF - 164	Parkinsonia florida	Blue Palo Verde	12.0	High	High	TOS	4	multiple	
	PJ - 165	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	8	multiple	low split old
166	PJ - 166	Prosopis juliflora	Velvet Mesquite	18.0	Medium	Low	RFS	16	multiple	dead wood
167	PF - 167	Parkinsonia florida	Blue Palo Verde	8.0	High	High	TOS	4		
168	PJ - 168	Prosopis juliflora	Velvet Mesquite	15.0	Medium	Low	RFS	16	multiple	low split old
169	PF - 169	Parkinsonia florida	Blue Palo Verde	12.0	High	Medium	PIP	4	multiple	
170	PF - 170	Parkinsonia florida	Blue Palo Verde	12.0	Medium	Low	PIP	4	multiple	low split
171	PF - 171	Parkinsonia florida	Blue Palo Verde	12.0	High	Medium	PIP	4	multiple	low split
172	PF - 172	Parkinsonia florida	Blue Palo Verde	18.0	High	High	TOS	4	multiple	
173	PJ - 173	Prosopis juliflora	Velvet Mesquite	18.0	Low	Low	PIP	5	multiple	diseased
174	PF - 174	Parkinsonia florida	Blue Palo Verde	15.0	Medium	Medium	PIP	4	multiple	low split
175	PJ - 175	Prosopis juliflora	Velvet Mesquite	15.0	High	Medium	TOS	5	multiple	
176	PF - 176	Parkinsonia florida	Blue Palo Verde	12.0	High	Medium	PIP	4	multiple	and the second
177	PJ - 177	Prosopis juliflora	Velvet Mesquite	15.0	High	Medium	TOS	6		от на компиний в биной от большей подну, дато било в в той большения на поднивания деней подниваний будней и т
178	PJ - 178	Prosopis juliflora	Velvet Mesquite	12.0	High	High	TOS	4		
179	PJ - 179	Prosopis juliflora	Velvet Mesquite	12.0	High	Medium	TOS	4	multiple	
180	PJ - 180	Prosopis juliflora	Velvet Mesquite	20.0	High	Low	RFS	16		
181	PJ - 181	Prosopis juliflora	Velvet Mesquite	25.0	Low	Low	RFS	18	multiple	mistletoe broken branc
182	AC - 182	Acacia constricta	Whitethorn Acacia	18.0	Low	Low	RFS	5	multiple	dead wood
183	PJ - 183	Prosopis juliflora	Velvet Mesquite	12.0	High	Low	RFS	4	multiple	low split
184	AC - 184	Acacia constricta	Whitethorn Acacia	15.0	High	Low	RFS	4	multiple	low split
185	PJ - 185	Prosopis juliflora	Velvet Mesquite	8.0	High	Low	RFS	4	multiple	next to powerpole
186	PJ - 186	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	4	multiple	trunk damage
187	PJ - 187	Prosopis juliflora	Velvet Mesquite	10.0	High	Medium	RFS	6		
188	PJ - 188	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	7	multiple	dead wood
189	FW - 189	Ferocactus wizlizenii	Compass Barrel	2.0	Low	Low	RFS	0		in tree falling over
190	PJ - 190	Prosopis juliflora	Velvet Mesquite	15.0	Medium	Low	RFS	6	multiple	trunk lying on ground
191	PJ - 191	Prosopis juliflora	Velvet Mesquite	10.0	Low	Low	RFS	4	multiple	leaning
192	PJ - 192	Prosopis juliflora	Velvet Mesquite	12.0	Medium	Low	RFS	6		leaning
193	PJ - 193	Prosopis juliflora	Velvet Mesquite	18.0	High	Low	PIP	10	multiple	
194	PJ - 194	Prosopis juliflora	Velvet Mesquite		High	Medium	PIP	5	multiple	low branches
195	PJ - 195	Prosopis juliflora	Velvet Mesquite		High	Low	PIP	4	multiple	low split
	And the party of the same of t	Prosopis juliflora	Velvet Mesquite	25.0	i programatini protestipi ni perspropresenti di la	Low	RFS	24	Annual de la constitue de la c	mistletoe
vys, Asserya <del>thys</del>	angliga paramana kata and ana magamana and and and and and and and and and	Acacia greggii	Catclaw Acacia	10.0	innesi ya pakamanga pininisi na manina papa anan	Low	RFS	8	ده المسابقة بالمقالة (المقالية المقالية المقالة المقالة المقالة المقالة المقالة المقالة المقالة المقالة المقالة	broken trunk
		Prosopis juliflora	Velvet Mesquite		High	Low	RFS	18		gamen ang alimanon iliyad hily dya marana and mananag malamang manang manapa kemagapapang ang apabah d
		Prosopis juliflora	Velvet Mesquite		Low				multiple	broken branches

# 204 PJ - 204 Prosopis juliflora

200 PJ - 200 Prosopis juliflora

201 PJ - 201 Prosopis juliflora

202 PJ - 202 Prosopis juliflora

203 AG - 203 Acacia greggii

Velvet Mesquite

Velvet Mesquite

Velvet Mesquite

Catclaw Acacia

Velvet Mesquite

PLANT DISPOSITION CHANGED FROM SABINO CANYON AND TANQUE VERDE RD. INTERSECTION PLAN. INCLUDED IN MITIGATION CALCULATIONS.

18.0 Low

15.0 Low

15.0 High Low

10.0 Low Low

12.0 Medium Low

2. PLANT DISPOSITION UNCHANGED FROM SABINO CANYON AND TANQUE VERDE RD. INTERSECTION PLAN. SHOWN FOR REFERENCE ONLY AND NOT INCLUDED IN MITIGATION CALCULATIONS.

### PLANT TRANSPLANTABILITY CRITERIA

PLANT TRANSPLANTABILITY IS BASED UPON PLANT GENUS, SPECIES, SIZE, SOILS, CONTEXT AND TOPOGRAPHY. THE FOLLOWING FIVE (5) CATEGORIES SHALL BE CONSIDERED WHEN DETERMINING THE ABILITY TO SALVAGE VIABLE PLANT MATERIAL. PLANTS RATED LOW FOR TRANSPLANTABILITY SHOULD NOT BE CONSIDERED FOR SALVAGE AND TRANSPLANT. PLANTS RATED MEDIUM TO HIGH THAT ARE NOT PRESERVED-IN-PLACE SHALL BE CONSIDERED FOR TRANSPLANT ON-SITE OR OFF-SITE.

- 1. HIGH: HIGH TRANSPLANTABILITY SHALL BE ASSIGNED TO VIABLE PLANTS WHICH ALSO MEET THE FOLLOWING CRITERIA:
  - a. GENUS AND SPECIES: HAS A HIGH SURVIVAL RATE FOR RE-ESTABLISHMENT AFTER TRANSPLANT.
  - b. SIZE: OVERALL PLANT DIMENSIONS ARE SUITABLE FOR TRANSPLANTING BASED UPON THE GENUS AND SPECIES.
  - c. SOILS: CAN BE EXCAVATED, ARE COHESIVE AND SEEM CAPABLE OF SUPPORTING THE ROOTBALL SYSTEM.
  - d. TOPOGRAPHY: PERMITS ACCESS WITH THE APPROPRIATE EQUIPMENT NEEDED TO REMOVE PLANTS AND THEIR ROOTBALL SYSTEM.
  - e. CONTEXT: ADJACENT PLANTS DO NOT POSSESS A LIKELY INTERFERENCE WITH ROOT SYSTEMS OR INTERFERE WITH PLANT REMOVAL.
- MEDIUM: A MEDIUM TRANSPLANTABILITY RATING SHALL BE ASSIGNED TO PLANTS WHICH DO NOT MEET ALL OF THE CRITERIA FOR A HIGH RATING, BUT HAVE SUFFICIENT MERIT TO WARRANT TRANSPLANTING
- LOW: A LOW PLANT TRANSPLANTABILITY RATING SHALL BE ASSIGNED TO PLANTS MEET THE FOLLOWING CRITERIA.
  - a. GENUS AND SPECIES: HAS A LOW SURVIVAL RATE FOR RE-ESTABLISHMENT AFTER TRANSPLANT.
  - b. SIZE: OVERALL PLANT DIMENSIONS ARE NOT SUITABLE FOR TRANSPLANTING BASED UPON THE GENUS AND SPECIES.
  - c. SOILS: TOO ROCKY, SANDY OR SHALLOW TO EXCAVATE A COHESIVE ROOTBALL
  - d. TOPOGRAPHY: SERIOUSLY LIMITS ACCESS TO THE SPECIMEN BY THE APPROPRIATE EQUIPMENT.
  - e. CONTEXT: ADJACENT PLANTS INTERFERE WITH REMOVAL OR PRESENT LIKELY CONFLICTS WITH THE ROOTBALL SYSTEM.

### NATIVE PLANT PRESERVATION LEGEND

- PRESERVE IN PLACE (PIP)
- TRANSPLANT ON SITE (TOS)
- REMOVE FROM SITE (RFS)

## NATIVE PLANT INVENTORY SUMMARY

COMMON NAME	TOTAL	VIABLE	PIP	TOS	RFS
Whitethorn Acacia	18	9	2	1	15
Catclaw Acacia	12	2	0	0	12
Saguaro	2	2	0	2	0
Barrel Cactus	10	8	0	7	3
Blue Palo Verde	24	23	15	7	2
Velvet Mesquite	50	33	9	8	33
	Whitethorn Acacia Catclaw Acacia Saguaro Barrel Cactus Blue Palo Verde	Whitethorn Acacia 18 Catclaw Acacia 12 Saguaro 2 Barrel Cactus 10 Blue Palo Verde 24	Whitethorn Acacia         18         9           Catclaw Acacia         12         2           Saguaro         2         2           Barrel Cactus         10         8           Blue Palo Verde         24         23	Whitethorn Acacia         18         9         2           Catclaw Acacia         12         2         0           Saguaro         2         2         0           Barrel Cactus         10         8         0           Blue Palo Verde         24         23         15	Whitethorn Acacia         18         9         2         1           Catclaw Acacia         12         2         0         0           Saguaro         2         2         0         2           Barrel Cactus         10         8         0         7           Blue Palo Verde         24         23         15         7

## NATIVE PLANT PRESERVATION NOTES

- 1. THIS NATIVE PLANT PRESERVATION PLAN MEETS THE REQUIREMENTS AND INTENTIONS OF THE FOLLOWING REGULATIONS AND STANDARDS: ARTICLE III, DIVISION 8 OF THE CITY OF TUCSON LAND USE CODE, AND DEVELOPMENT STANDARD
- 2. FOR ADDITIONAL PROJECT REQUIREMENTS THE CONTRACTOR MUST FAMILIARIZE THEMSELVES AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SPECIAL PROVISIONS SECTION 809 NATIVE PLANT SALVAGE WORK PRIOR TO BEGINNING ANY CONSTRUCTION ON SITE. PER SAID SECTION THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE PROJECT ENGINEER/CITY REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION ON-SITE. CONTACT GARY WITTWER CITY OF TUCSON DEPT. OF TRANSPORTATION LANDSCAPE ARCHITECT (520) 310-2002.
- 3. THE CITY OF TUCSON PLANT INVENTORY METHODOLOGY METHOD WAS USED TO PREPARE THIS PLAN.
- 4. BEFORE THE ISSUING OF GRADING PERMITS ALL VIABLE INVENTORIED PLANTS PROPOSED FOR REMOVAL FROM SITE SHALL BE TAGGED WITH AN EMBOSSED METAL TAG BEARING THEIR ASSIGNED INVENTORY NUMBER. TAGS AS WELL AS COLOR CODED FLAGGING (AS DIRECTED BY THIS NATIVE PLANT PRESERVATION PLAN) SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

COLOR CODING FOR FLAGGING: WHITE = PRESERVE IN PLACE (PIP) BLUE = TRANSPLANT ON SITE (TOS) YELLOW = REMOVE FROM SITE (RFS)

- 5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL
- 6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FEDERAL ENDANGERED SPECIES ACT AND THE ARIZONA NATIVE PLANT LAW.
- 7. CONTRACTOR SHALL KEEP THESE PLANS ON-SITE AT ALL TIMES. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE LANDSCAPE PLANS.
- 8. THE DATE OF THE AERIAL IS SEPTEMBER 2009. THE SITE IS SUBSTANTIALLY UNCHANGED FROM THE DATE OF THE AERIAL PHOTOGRAPH.

## PLANT VIABILITY CRITERIA

PLANT VIABILITY IS BASED UPON PLANT HEALTH, AGE AND FORM, PLANTS RATED LOW ARE NOT CONSIDERED VIABLE AND ARE NOT REQUIRED TO BE ASSESSED ACCORDING TO THE TRANSPLANTABILITY CRITERIA. PLANTS RATED MEDIUM OR HIGH ARE CONSIDERED VIABLE AND SHALL BE FURTHER ASSESSED UNDER THE TRANSPLANTABILITY CRITERIA.

- HIGH: A HIGH PLANT VIABILITY RATING SHALL BE ASSIGNED TO PLANTS MEETING THE FOLLOWING CRITERIA.
  - a. HEALTH: PLANT IS GOOD TO EXCELLENT WITH NO MAJOR INFESTATIONS OF INSECTS OR APPARENT DISEASES.
  - b. AGE: PLANT AGE IS YOUNG OR MATURE WITH LIKELY CHANCE OF LONG SURVIVAL
  - c. FORM: PLANT IS RELATIVELY UNDAMAGED WITH A HEALTHY BRANCHING
- MEDIUM: A MEDIUM RATING SHALL BE ASSIGNED TO PLANTS WHICH DO NOT MEET ALL OF THE CRITERIA FOR A HIGH RATING, BUT HAVE SUFFICIENT MERIT TO WARRANT PRESERVATION, IN THE OPINION OF THE QUALIFIED PLANT PROFESSIONAL CONDUCTING THE INVENTORY.
- LOW: A LOW PLANT VIABILITY RATING SHALL BE GIVEN TO PLANTS MEETING ANY ONE OR MORE OF THE FOLLOWING:
- a. HEALTH: PLANT HEALTH IS POOR. GENERALLY, THE RESULT OF SEVERE INFESTATIONS OF PESTS OR DISEASES OR A LACK OF WATER OVER TIME.
- b. AGE: PLANT IS IN A STATE OF DECLINE, SUGGESTING A LOW PROBABILITY OF LENGTHY SURVIVAL.
- c. FORM: PLANT FORM AND CHARACTER IS SEVERELY DAMAGED. FOR TREES, THIS MAY INCLUDE NEW BRANCHES LARGE, OLD, DEAD TRUNKS OR WEAK BRANCHING HABIT.



NP5

168



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION SABINO CANYON ROAD

TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU 12/14 REF. SCALE: H: NA DSGN. BY HU 12/14 PLAN NO. 1-2009-029

## MITIGATION CALCULATIONS - CITY OF TUCSON DEVELOPMENT STANDARD NO. 2-15.0

RFS

RFS

NATIVE PLANT PRESERVATION WORKSHEET LINE ITEM REFERENCE NUMBERS		STEP 1					STEP 2		STEP 3			STEP 4			
		LINE 1	LINE 1	LINE 3	LINE 5	LINE 7	LINE 8	LINE 9	LINE 10	LINE 11	LINE 12	LINE 13	LINE 14	LINE 15	LINE 16
	SPECIES:	TOTAL VIABLE	TOTAL PIP	TOTAL TOS	TOTAL # OF PLANTS TO REMAIN ON SITE	TOTAL RFS	PIP CREDITS	MITIGATION REQ. FOR TOS	MITIGATION REQ. FOR RFS	TOTAL # PLANTS REQ. FOR MITIGATION	MITIGATION REDUCED BY EXCESS TOS	MITIGATION REDUCED BY PRES. CREDITS	TOTAL MITIGATION REQ.	TOTAL PLANTS ON SITE	
	Acacia constricta	9	2	1	3	. 6	0	0	12	12	12	12	12	15	
	Acacia greggii	2	0	0	0	2	0	1	2	3	3	3	3	3	
	Carnegiea gigantea	2	0	2	2	0	0	1	0	1	0	0	0	2	
	Ferocactus wislezenii	8	0	7	7	1	0	2	2	4	0	0	0	7	
	Parkinsonia florida	23	15	7	22	1	10	0	2	2	0	0	0	22	
	Prosopis iuliflora	33	10	8	17	16	6	1	32	33	26	20	20	37	

multiple dead branches

multiple old dead wood

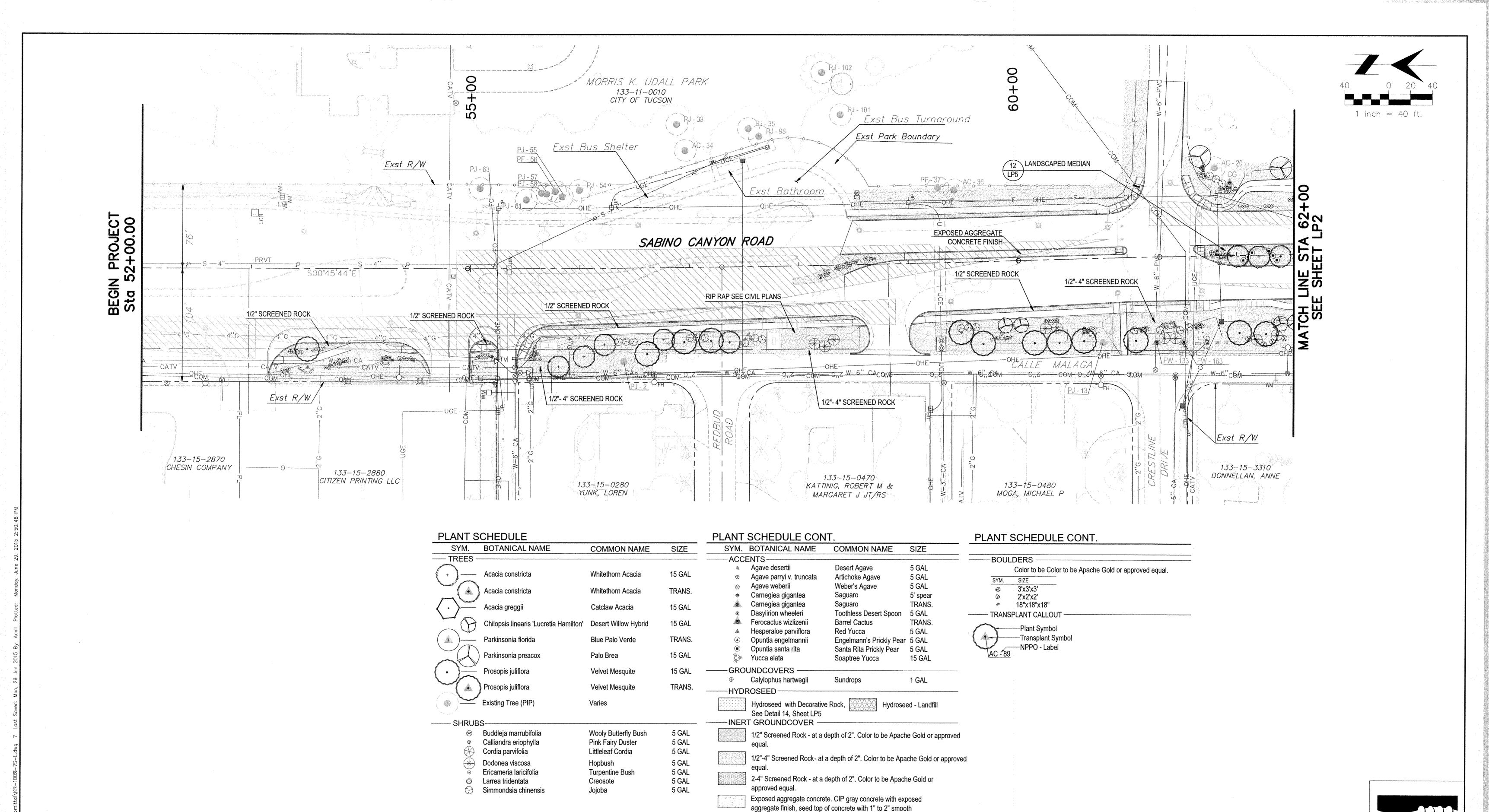
multiple mistletoe

multiple





NO. DATE REVISION BY CHKD. APPR.



**PSOMAS** 

# LANDSCAPE PLANS DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD TANQUE VERDE ROAD TO KOLB ROAD

NORRIS DESIGN

Planning • Landscape Architecture

418 N. Toole Ave. Tucson, AZ 85701 Ph: 520.622.9565 Tucson, AZ 85701

LP1

LP5

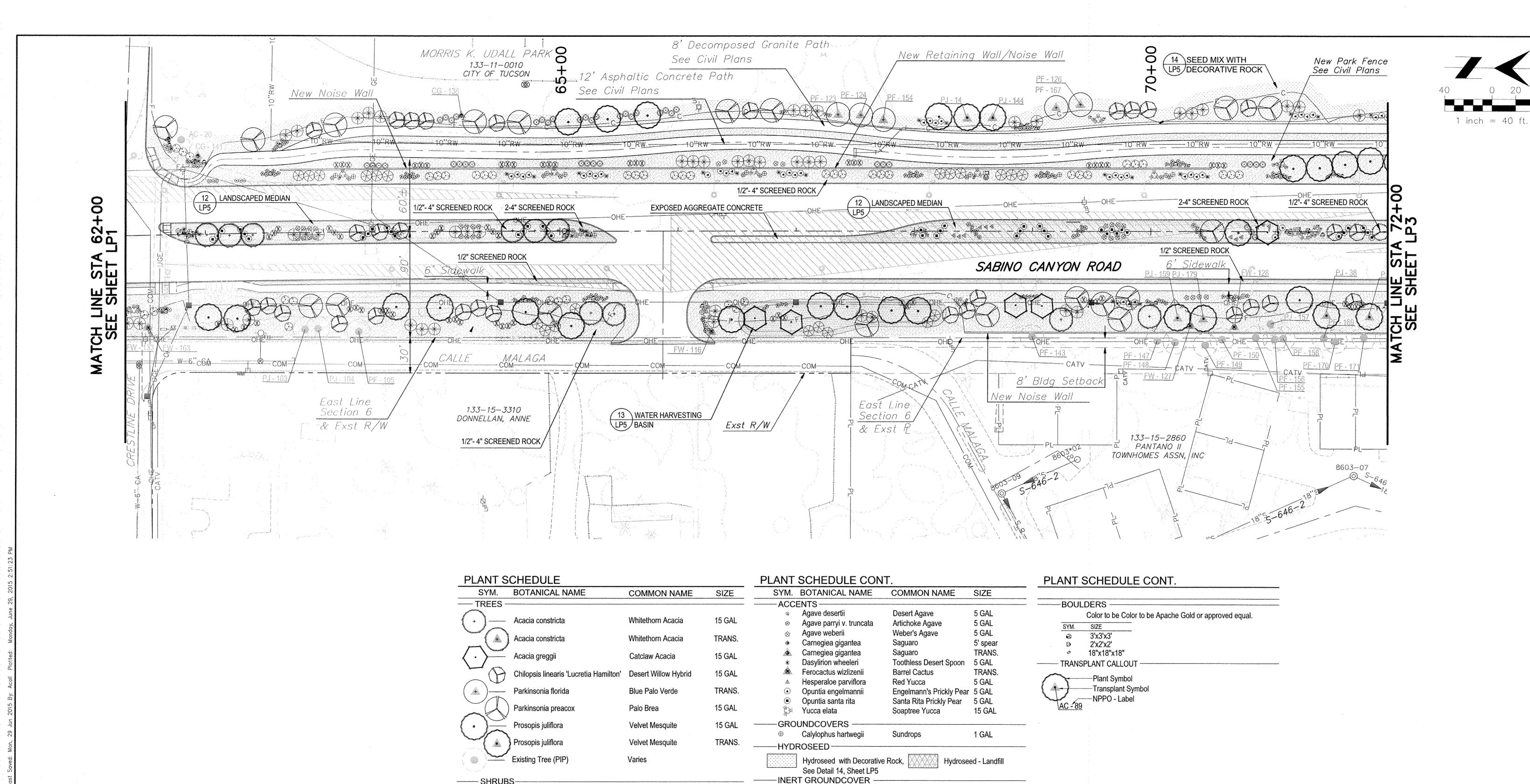
CITY OF TUCSO 12/14 REF. 169 DRWN. BY HU SCALE: <u>H: 1"=40'</u> V: NA DSGN. BY HU 12/14 189 12/14 PLAN NO. I-2009-029

ARIZONA 811.
Arizona Blue Stake, Inc.

333 E. Wetmore Road, Suite 450 Tucson, AZ 85719 (520) 292-2300 (520) 292-1290 fax www.psomas.com NO. DATE REVISION BY CHKD. APPR.

washed stone. See Civil Plan for construction detailing.

Call at least two full working days lal 8-1-1 or 1-800-STAKE-IT (782-5348 In Maricopa County: (602) 263-1100



5 GAL

Wooly Butterfly Bush

Pink Fairy Duster Littleleaf Cordia

**Turpentine Bush** 

Hopbush

Creosote

Jojoba

Buddleja marrubifolia

Calliandra eriophylla

Cordia parvifolia

Dodonea viscosa

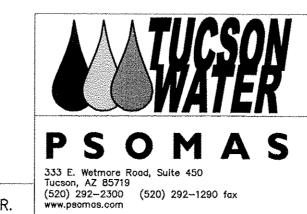
Simmondsia chinensis

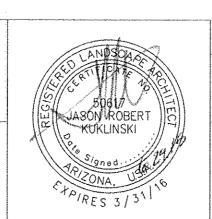
Larrea tridentata

Ericameria laricifolia

NORRIS DESIGN Planning • Landscape Architecture 418 N. Toole Ave. Tucson, AZ 85701 Ph: 520.622.9565 norris-design.com







_	LANDSCAPE PLANS	
	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION	LP2
	SABINO CANYON ROAD	OF-
	TANQUE VERDE ROAD TO KOLB ROAD	LP5

	ANQUE VERDE ROA	D TO	KOLB ROAD	LP5
CITY OF	DRWN. BY HU	12/14	REF. SCALE: H: 1"=40'	170
CITY OF TUCCON	DSGN. BY HU	12/14	V: NA	OF
I UCSUN	CHKD. BY JK	12/14	PLAN NO. 1-2009-029	189
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NO. DATE REVISION BY CHKD. APPR.

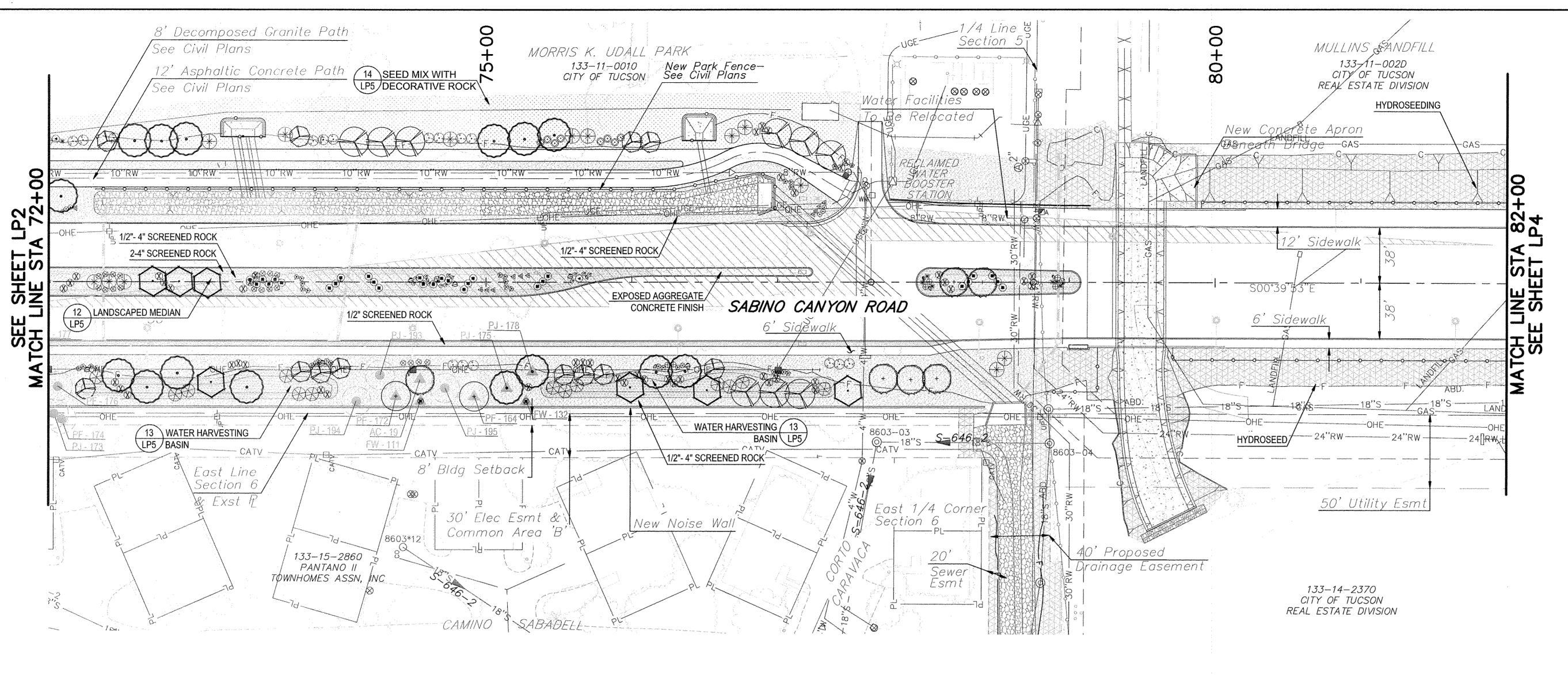
approved equal.

1/2" Screened Rock - at a depth of 2". Color to be Apache Gold or approved

1/2"-4" Screened Rock- at a depth of 2". Color to be Apache Gold or approved

2-4" Screened Rock - at a depth of 2". Color to be Apache Gold or

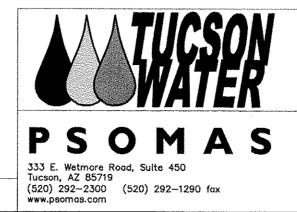
Exposed aggregate concrete. CIP gray concrete with exposed aggregate finish, seed top of concrete with 1" to 2" smooth washed stone. See Civil Plan for construction detailing.



PLANT S	CHEDULE			PLANT SCHEDULE CONT. PLANT SCHEDULE CONT.	
SYM.	BOTANICAL NAME	COMMON NAME	SIZE	SYM. BOTANICAL NAME COMMON NAME SIZE	
+ Hand	Acacia constricta Acacia constricta Acacia greggii Chilopsis linearis 'Lucretia Hamilton' Parkinsonia florida Parkinsonia preacox Prosopis juliflora Prosopis juliflora Existing Tree (PIP)	Whitethorn Acacia Whitethorn Acacia Catclaw Acacia	15 GAL TRANS. 15 GAL TRANS. 15 GAL TRANS. 15 GAL TRANS.	ACCENTS  A Agave desertii  A Agave parryi v. truncata  Artichoke Agave  Agave weberii  Weber's Agave  5 GAL  Agave weberii  Weber's Agave  5 GAL  Carnegiea gigantea  Saguaro  TRANS  Dasylirion wheeleri  Ferocactus wiziizenii  A Hesperaloe parviflora  Perocactus wiziizenii  Barrel Cactus  TRANS  Hesperaloe parviflora  Popuntia engelmannii  Popuntia santa rita  Santa Rita Prickly Pear  5 GAL  GROUNDCOVERS  Calylophus hartwegii  Sundrops  1 GAL  Hydroseed with Decorative Rock, Whydroseed - Landfill	
— SHRUE ⊗  ♥  ⊕  o  o  o	. ,	Wooly Butterfly Bush Pink Fairy Duster Littleleaf Cordia Hopbush Turpentine Bush Creosote Jojoba	5 GAL 5 GAL 5 GAL 5 GAL 5 GAL 5 GAL 5 GAL	See Detail 14, Sheet LP5 INERT GROUNDCOVER  1/2" Screened Rock - at a depth of 2". Color to be Apache Gold or approved equal.  1/2"-4" Screened Rock- at a depth of 2". Color to be Apache Gold or approved equal.  2-4" Screened Rock - at a depth of 2". Color to be Apache Gold or approved equal.  Exposed aggregate concrete. CIP gray concrete with exposed aggregate finish, seed top of concrete with 1" to 2" smooth washed stone. See Civil Plan for construction detailing.	

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1 inch = 40 ft.



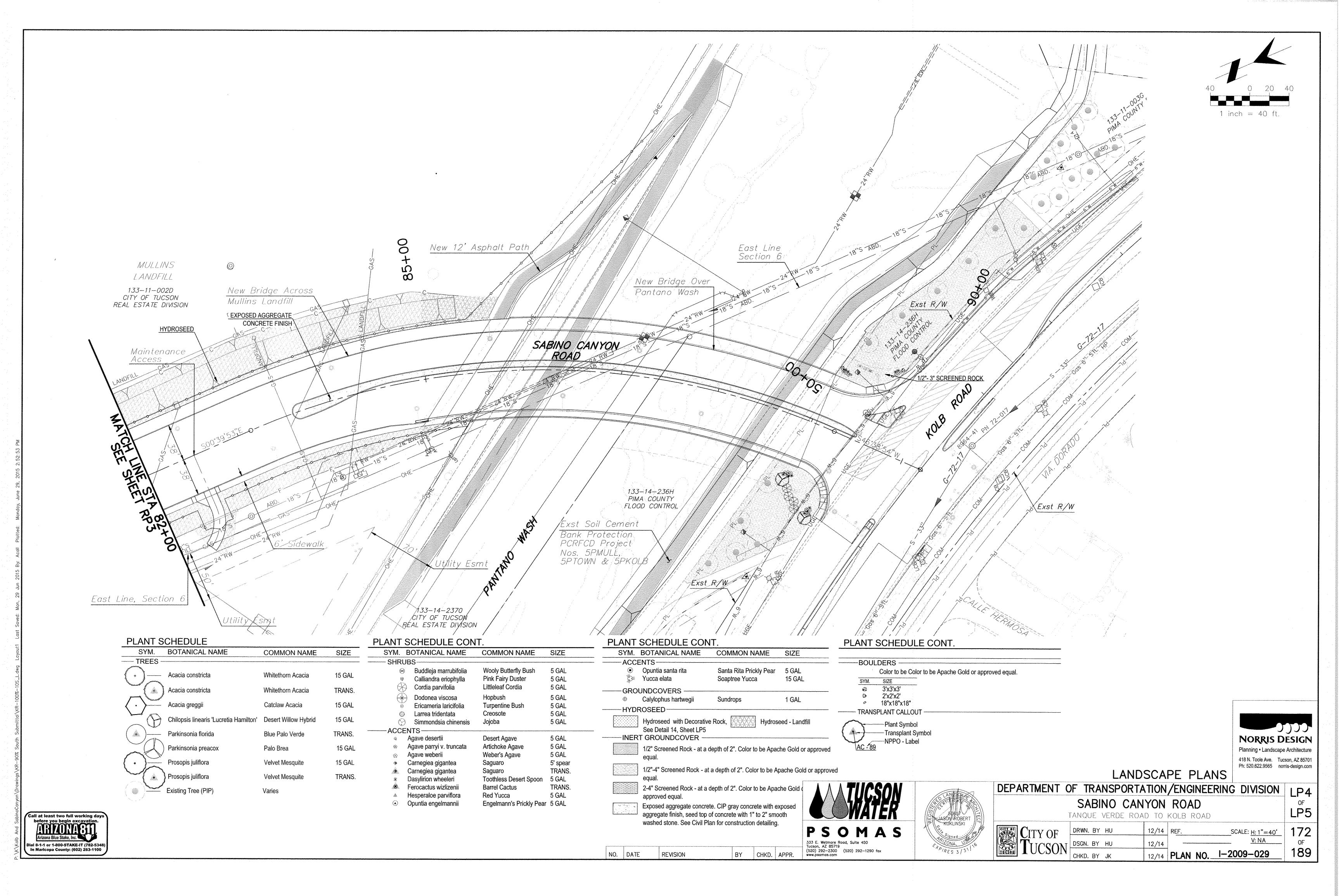


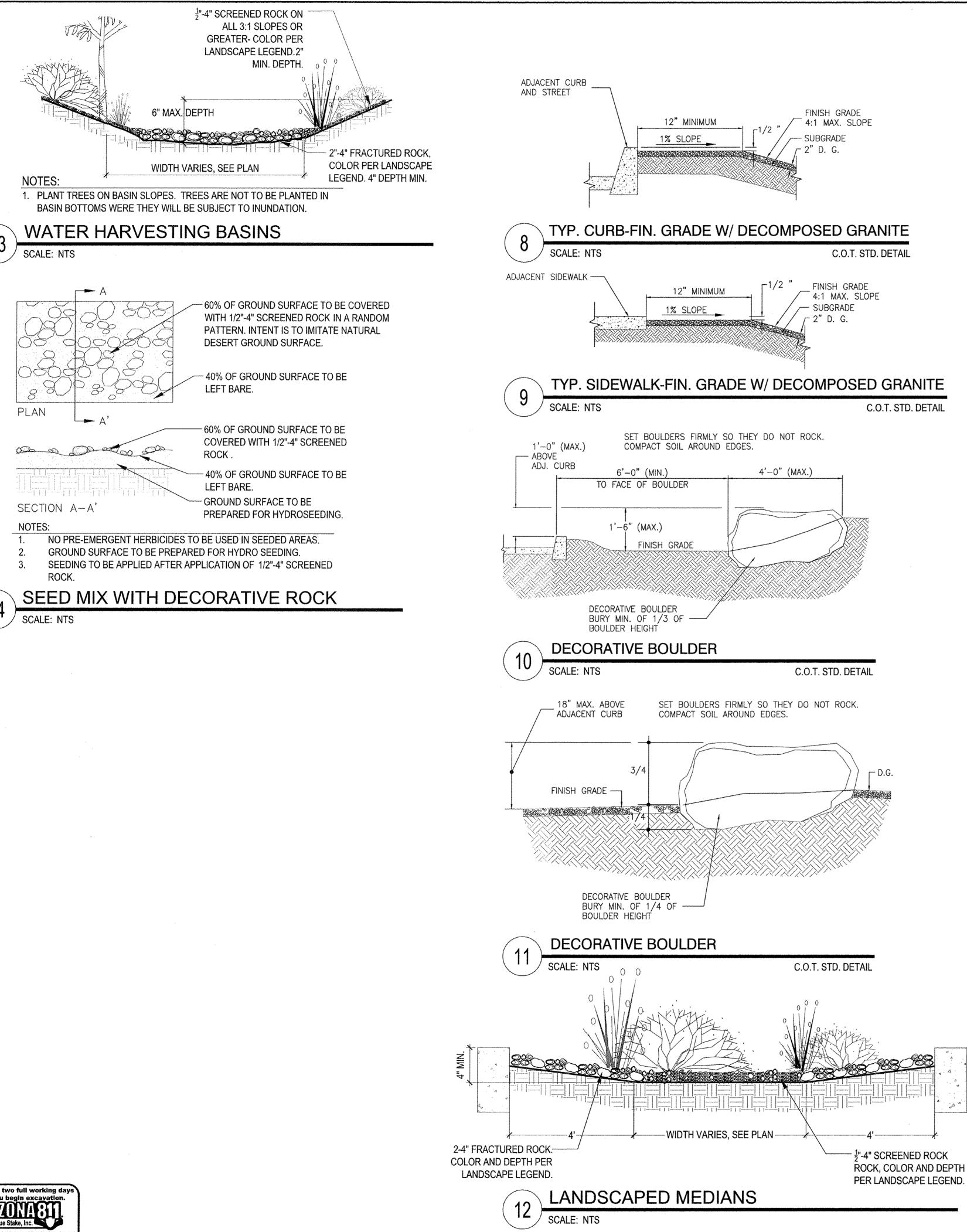
		LA	NDSC	APE	PLANS		
DEPARTMENT	OF	TRANSPO	ORTATIO	)N/EN	IGINEERING	DIVISION	
		SABINO (					1
	TAN	QUE VERDE	ROAD T	o kole	3 ROAD		L
	nev	WAL BY LIII	10/	1.4 DEE	<u></u>	7.41 cm	4

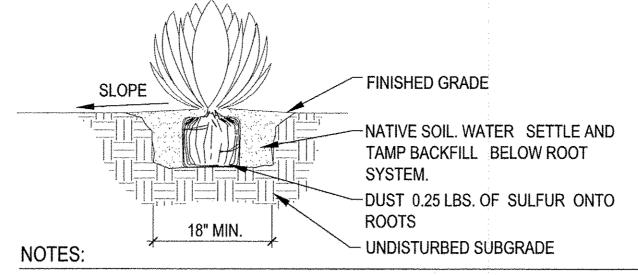
SCALE: <u>H: 1"=40'</u> <u>V: NA</u> 12/14 PLAN NO. I-2009-029



NO. DATE REVISION BY CHKD. APPR.





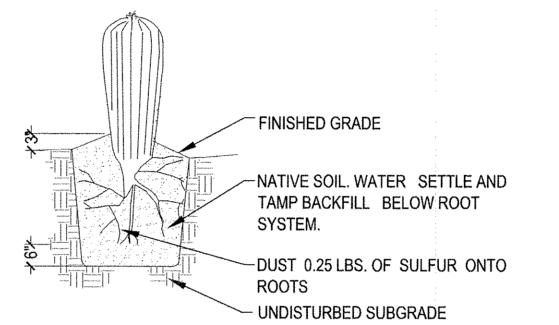


1. DO NOT CREATE BASIN AT BASE OF ACCENT. SLOPE BACKFILL AWAY FROM PLANT. USE DRY SITE SOIL ONLY IN PIT -- NO MULCH.

ACCENT/BARREL CACTI PLANTING SCALE: NTS SHRUB · " D.G. OVER ROOT BALL MAX. FINISH GRADE CLEAN SITE SOIL REMOVE ALL ROCKS - ROOT BALL COMPACT DISTURBED 2" IN DIAMETER SOIL UNDER ROOT BALL COMPACT TO 85% SIDES OF PIT SHALL BE DRAINAGE CHIMNEY ROUGH AND SLOPING IF REQUIRED MIN. 5X WIDTH OF ROOT BALL OR TO EDGE OF PAVEMENT

SHRUB PLANTING: 1 & 5 GALLON SIZE

C.O.T. STD. DETAIL

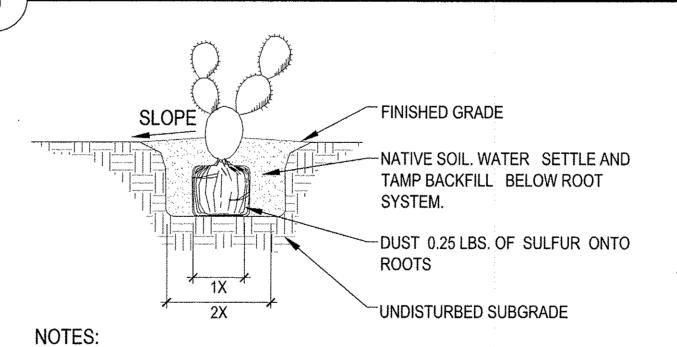


NOTES:

SCALE: NTS

- PLANT PIT TO BE 6" DEEPER THAN FREE EXTENSION OF ROOTS ROOT PRUNE ALL DAMAGED ROOTS. INSPECTION OF ROOT SYSTEM BY
- LANDSCAPE ARCHITECT REQUIRED PRIOR TO INSTALLATION. USE DRY NATIVE SITE SOIL ONLY IN PIT -- NO MULCH.
- DO NOT CREATE BASIN AT BASE OF CACTUS. SLOPE BACKFILL AWAY FROM PLANT. AT SITE, DUST ENTIRE ROOT STRUCTURE WITH WETTABLE DUSTING SULFUR.
- (1.5 LBS. MIN.) AS PER INDUSTRY STANDARDS.

BARREL/SAGUARO CACTUS PLANTING



 DO NOT CREATE BASIN AT BASE OF CACTUS. SLOPE BACKFILL AWAY FROM PLANT.

PRICKLY PEAR PLANTING

SCALE: NTS

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REVISION

NO. DATE

1" D.G. OVER TOP OF ROOT BALL MAX. FINISH GRADE ---CLEAN SITE SOIL EDGE OF REMOVE ALL ROCKS CURB OR -OVER 2" IN DIAMETER SIDEWALK COMPACT TO 85% SIDES OF PIT MIN. DISTANCE VARIES
REFER TO PLANTING KEY SHALL BE ROUGH -& SLOPING AND STANDARDS REFER NOTE 3 UNDISTURBED SITE SOIL ROOT BALL DRAINAGE DRAINAGE CHIMNEY COMPACT SUBGRADE REFER TO SPECIAL CHIMNEY IF REQUIRED TO 85% IF DISTURBED **PROVISIONS** SCARIFIED/DISTURBED SOIL 5 X WIDTH OF ROOT BALL (MIN.) OR TO EDGE OF CURB/WALK 1. NO PLANTS SHALL BE PRUNED EXCEPT @ THE DIRECTION OF THE COT REPRESENTATIVE 2. STAKE TREE ONLY IF NEEDED, PER DIRECTION OF COT REPRESENTATIVE (SEE TREE STAKING DETAIL) 3. DEPTH ("D") OF PLANT PIT TO BE EQUAL TO DEPTH OF ROOT BALL.
4. ROOT PRUNE PRIOR TO PLANTING.

TREE PLANTING DETAIL

TYPICAL TREE (SET PLUMB)

SCALE: NTS

TYPICAL TREE -CUT BELOW BOTTOM BRANCH CINCH BELT OR APPROVED EQ. EQ PRESSURE TREATED SET TIE @ \_APPROXIMATELY 1/2\_\_\_ 2"X2" DOUGLAS FIR OR 2" DIA. LODGE POLE PINE STAKES, TWO (2) PER TREE. HEIGHT OF TREÉ - NAIL TIE TO STAKE ---- FINISHED GRADE PREPARED SOIL COMPACT TO 85% - NATIVE SOIL

> NO PLANTS SHALL BE PRUNED EXCEPT @ THE DIRECTION OF THE COT REPRESENTATIVE STAKE TREE ONLY IF NEEDED, PER DIRECTION OF COT REPRESENTATIVE SET STAKES PARALLEL TO SIDEWALK AND STREET

TREE STAKING DETAIL

C.O.T. STD. DETAIL

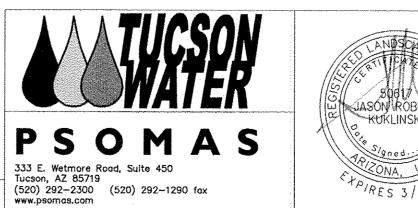
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Ph: 520.622.9565 norris-design.com

<u>V: N/A</u>

189

C.O.T. STD. DETAIL



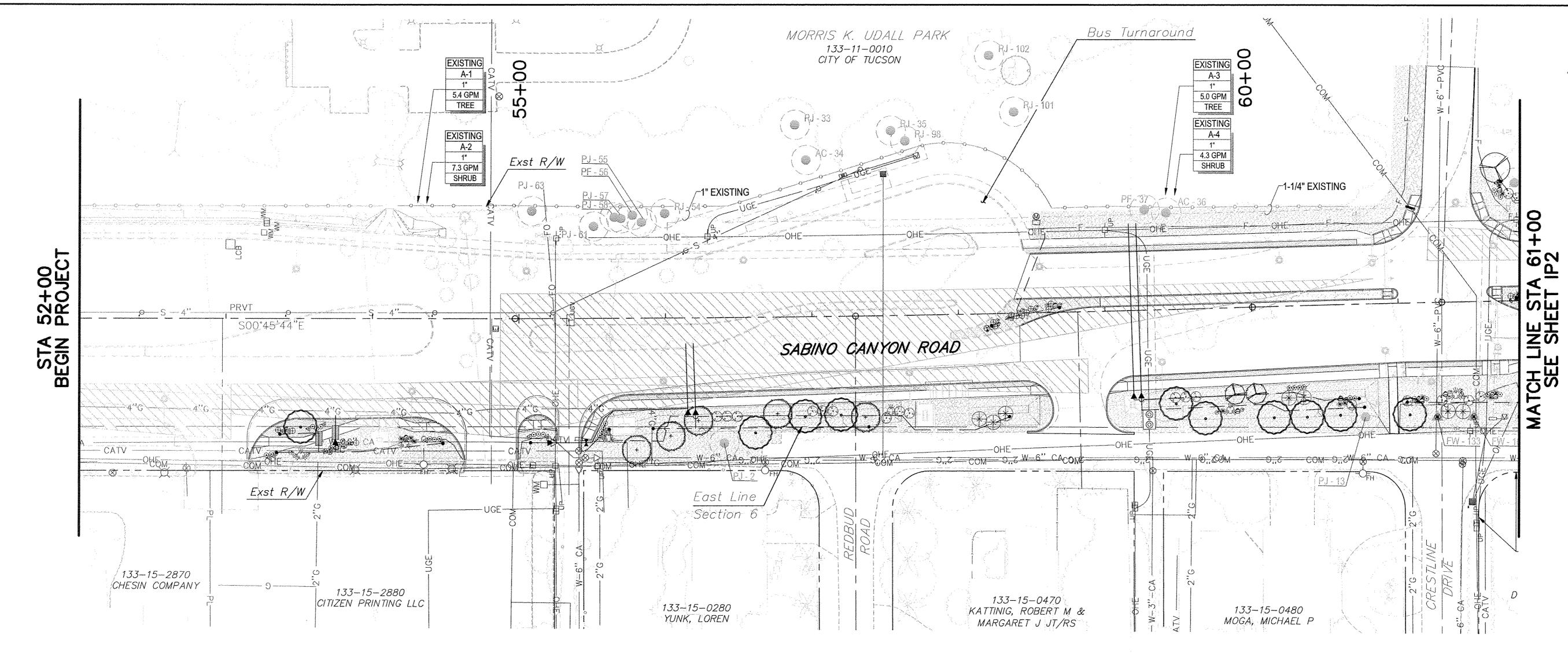


	LAND	SCAP	E DETAI	LS	
DEPARTMENT	OF TRANSPOR	RTATION	/ENGINEE	RING DIVISION	LP5
	SABINO C	ANYON	ROAD		OF
	TANQUE VERDE	ROAD TO	KOLB ROAD		LP5
CITY OF	DRWN. BY HU	12/14	REF.	SCALE: H: NA	173

12/14

12/14 PLAN NO. I-2009-029

Call at least two full working day AKIZUNA B Arizona Blue Stake, Inc. ial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100



**IRRIGATION LEGEND EQUIPMENT DESCRIPTION** COMMENTS Irrigation Point of Connection, 2" Sch. 40 PVC Stub See Sheet 134 Station 62 + 30 downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer Existing 1" Water Meter Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12'W X 24'H X Existing DIG LEIT XRC, 16 Stations, Solar Controller w/ Master Valve capability Existing Master Valve Assembly 1-1/2" Rain Bird PESB - Self-cleaning Scrubber Valve LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1-1/2" NIBCO T-580 Bronze Ball Valve EX. NEW Drip Valve Assembly Detail 3, Sheet IP5 1" Rain Bird PEB -LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter Or Approved Equal 1" NIBCO T-580 Bronze Ball Valve Or Approved Equal 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh Or Approved Equal API Agricultural Products 4E - Spin Clean Filter Senninger Pressure Regulator PMR-LF-25 Detail 5, Sheet IP5 Or Approved Equal 3/4" LF 2-25 GPM Detail 4, Sheet IP5 Watts WGV THD Bronze Gate Valve Size - Per line size Sleeve - Sch. 40 PVC Detail 2, Sheet IP5 Separate sleeves shall be installed for irrigation pipe and control 1-1/4" Main Line - Sch. 40 PVC - Size per Plan Detail 1, Sheet IP5 1" Lateral line - Sch. 40 PVC. Detail 1, Sheet IP5 Detail 1, Sheet IP5 3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter -See Emitter Schedule this Sheet.

- - - Lateral Flush End Cap In 6" round box - Color: Tan

\*NOTE: THE ABBREVIATION EX. = EXISTING

Detail 10, Sheet IP5

NO. DATE

REVISION

**VALVE CALLOUT** SLEEVE CALLOUT

A-1 — Controller and Valve Number

1" - Valve Size X GPM——Valve Flow TREE Zone Designation (Trees,

-Sleeve Size Approx. Length of Sleeve \*Note: Existing Sleeves not labeled

## EMITTER SCHEDULE

Shrubs, Accents and Groundcovers - Multi-port Emitters: All accents and cacti: 1-0.5 GPH Outlet, Rainbird XBT-05-6 Emitter \*Cacti - Emitters shall be plugged after the establishment period thereby eliminating irrigation to the cacti. All 1 Gal. groundcovers: 1-1 GPH Outlet, Rainbird XBT-10-6 Emitter 2-1 GPH Outlets, Rainbird XBT-10-6 Emitter

Trees and Transplanted Trees - Mulit-port Emitters: All 15 Gal. trees: 1-6 GPH Rainbird XBT-10-6 each Transplanted trees: 1-12 GPH Rainbird XBT-20-6 each \*\*Note: Emitters shall be as specified or Approved Equal.

\*\*Note: Emitters shall be as specified or Approved Equal.

**EXISTING IRRIGATION NOTES** 

THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER/PROJECT MANAGER TO PROVIDE CONNECTION TO EXISTING IRRIGATION IMPROVEMENTS AS SHOWN ON THESE PLANS TO IRRIGATE NEW MEDIANS AND RIGHT-OF-WAY ALONG KOLB ROAD.



<u>V: NA</u>

12/14 PLAN NO. I-2009-029

OF

189

1 inch = 40 ft.

IRRIGATION PLANS DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION SABINO CANYON ROAD IP5 TANQUE VERDE ROAD TO KOLB ROAD CITY OF TUCSO 174 DRWN. BY HU 12/14 REF. \_SCALE: <u>H: 1"=40'</u>

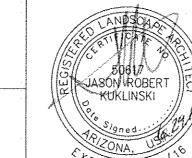
12/14

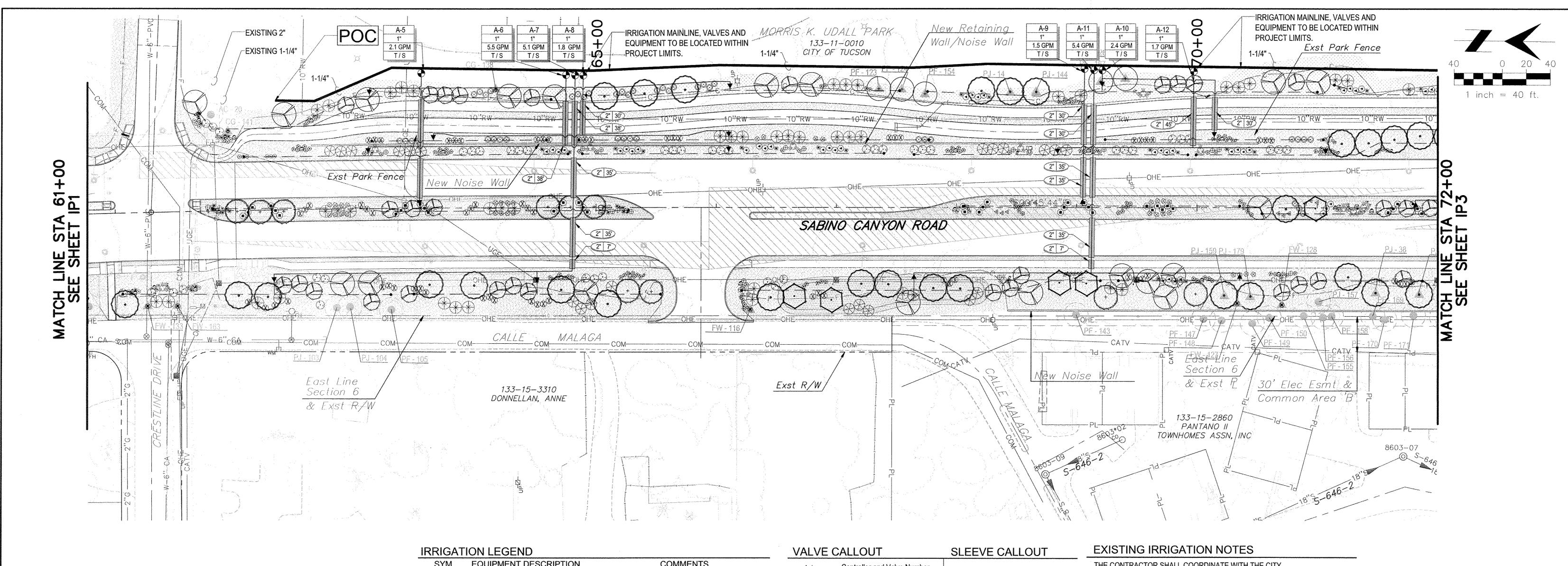
DSGN. BY HU

Call at least two full working days ARIZONA 811.
Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

**PSOMAS** 333 E. Wetmore Road, Suite 450
Tucson, AZ 85719
(520) 292-2300 (520) 292-1290 fax
www.psomas.com BY CHKD. APPR.







**EQUIPMENT DESCRIPTION** COMMENTS Irrigation Point of Connection, 2" Sch. 40 PVC Stub See Sheet 134 Station 62 + 30 downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer

Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12'W X 24'H X

Existing DIG LEIT XRC, 16 Stations, Solar Controller w/ Master Valve capability

1-1/2" NIBCO T-580 Bronze Ball Valve

Existing 1" Water Meter

**Existing Master Valve Assembly** 1-1/2" Rain Bird PESB - Self-cleaning Scrubber Valve LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter

API Agricultural Products 4E - Spin Clean Filter

EX. NEW

Detail 3, Sheet IP5 Drip Valve Assembly 1" Rain Bird PEB -LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter Or Approved Equal 1" NIBCO T-580 Bronze Ball Valve Or Approved Equal 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh Or Approved Equal

Senninger Pressure Regulator PMR-LF-25 Detail 5, Sheet IP5 Or Approved Equal 3/4" LF 2-25 GPM Watts WGV THD Bronze Gate Valve Detail 4, Sheet IP5 Size - Per line size

Sleeve - Sch. 40 PVC Detail 2, Sheet IP5 Separate sleeves shall be installed for irrigation pipe and control

1-1/4" Main Line - Sch. 40 PVC - Size per Plan Detail 1, Sheet IP5 Detail 1, Sheet IP5 1" Lateral line - Sch. 40 PVC. 3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter -Detail 1, Sheet IP5

Detail 10, Sheet IP5

\*NOTE: THE ABBREVIATION EX. = EXISTING

Lateral Flush End Cap In 6" round box - Color: Tan

See Emitter Schedule this Sheet.

A-1 — Controller and Valve Number 1" - Valve Size X GPM - Valve Flow TREE Zone Designation (Trees,

Shrubs)

-Sleeve Size Approx. Length of Sleeve \*Note: Existing Sleeves not labeled

**EMITTER SCHEDULE** 

Shrubs, Accents and Groundcovers - Multi-port Emitters: All accents and cacti: 1-0.5 GPH Outlet, Rainbird XBT-05-6 Emitter \*Cacti - Emitters shall be plugged after the establishment period thereby eliminating irrigation to the cacti.

All 1 Gal. groundcovers: 1-1 GPH Outlet, Rainbird XBT-10-6 Emitter All 5 Gal. plants: 2-1 GPH Outlets, Rainbird XBT-10-6 Emitter \*\*Note: Emitters shall be as specified or Approved Equal.

Trees and Transplanted Trees - Mulit-port Emitters:

All 15 Gal. trees: 1-6 GPH Rainbird XBT-10-6 each Transplanted trees: 1-12 GPH Rainbird XBT-20-6 each \*\*Note: Emitters shall be as specified or Approved Equal.

## IRRIGATION POINT OF CONNECTION NOTE

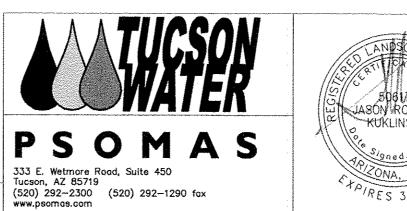
1. THE IRRIGATION POINT OF CONNECTION - THIS SHEET: IS A PVC TEE AND CAP ON A EXISTING 1-1/4" SCH. 40 PVC MAINLINE AT STATION 62 + 30, DOWNSTREAM OF THE EXISTING 1" POTABLE WATER METER AND 1" BACKFLOW PREVENTER. THE CONTRACTOR SHALL FIELD LOCATE THE IRRIGATION STUB AND COORDINATE WITH THE PROJECT REPRESENTATIVE PRIOR TO TAPING INTO THE WATER SOURCE. THE EXISTING IRRIGATION CAN BE OUT OF SERVICE FOR NO LONGER THAN 24 HRS. IF THE CONTRACTOR FAILS TO EXECUTE THIS THE CONTRACTOR IS LIABLE FOR ANY DEAD OR DAMAGED EXISTING PLANT MATERIAL.

THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER/PROJECT MANAGER TO PROVIDE CONNECTION TO EXISTING IRRIGATION IMPROVEMENTS AS SHOWN ON THESE PLANS TO IRRIGATE NEW MEDIANS AND RIGHT-OF-WAY ALONG KOLB ROAD.

12/14 PLAN NO. 1-2009-029

NORRIS DESIGN Planning • Landscape Architecture 418 N. Toole Ave. Tucson, AZ 85701

Ph: 520.622.9565 norris-design.com IPPICATION DI ANG



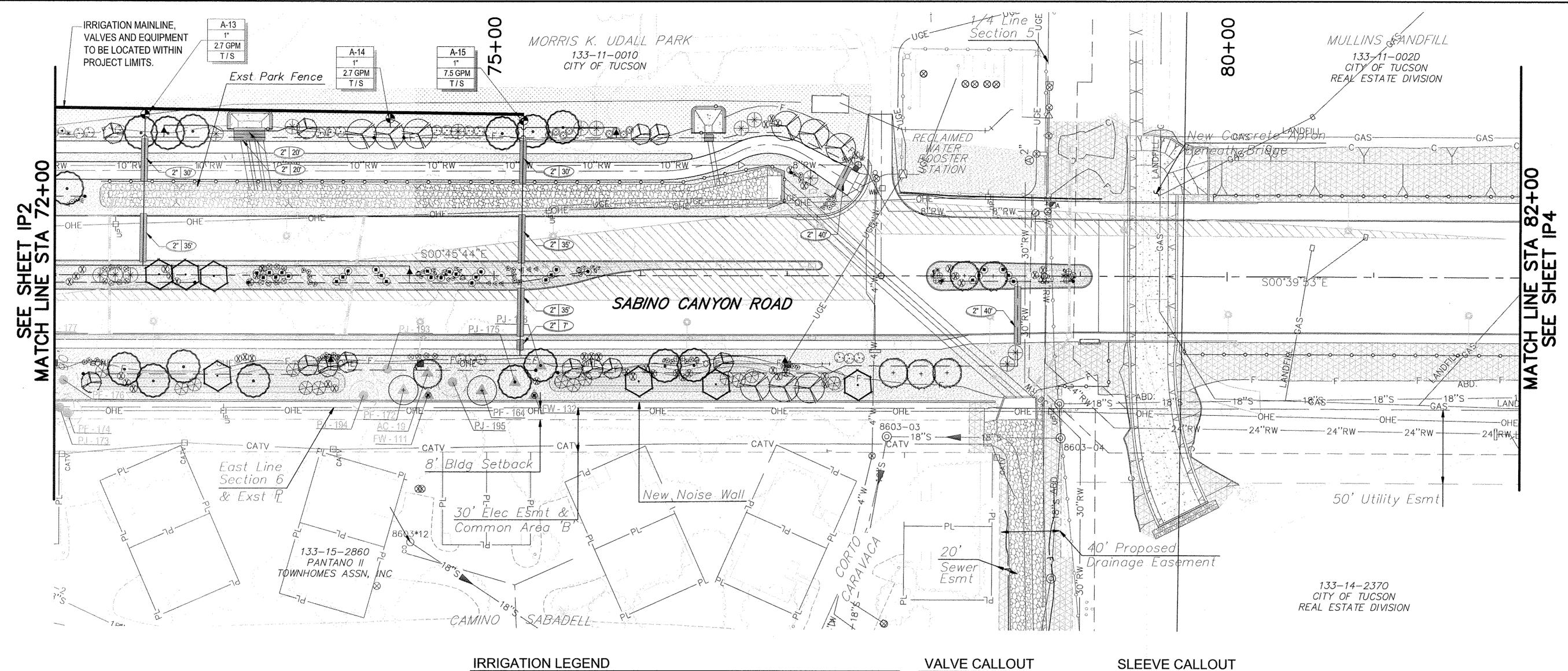


	IRRIGA	,     (	JN PLANS	
	DEPARTMENT OF TRANSPORTATI	ON	/ENGINEERING DIVISION	IP2
	SABINO CANYO	NC	ROAD	OF
	TANQUE VERDE ROAD	TO	KOLB ROAD	IP5
:	CITY OF DRWN. BY HU 12	/14	REF. SCALE: H: 1"=40'	175
		/14	<u>V: NA</u>	OF
	THESSEE I UCSUN CHKD. BY JK 12	/14	PLAN NO. 1-2009-029	189

Call at least two full working days ARIZONA 811.
Arizona Blue Stake, Inc. ial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

REVISION NO. DATE

BY CHKD. APPR.



IRRIGATION LEGEND **EQUIPMENT DESCRIPTION** COMMENTS Irrigation Point of Connection, 2" Sch. 40 PVC Stub See Sheet 134 Station 62 + 30 downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer Existing 1" Water Meter Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12'W X 24'H X 40'L Existing DIG LEIT XRC, 16 Stations, Solar Controller w/ Master Valve capability

1-1/2" Rain Bird PESB - Self-cleaning Scrubber Valve LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1-1/2" NIBCO T-580 Bronze Ball Valve EX. NEW

Existing Master Valve Assembly

Detail 3, Sheet IP5 Drip Valve Assembly 1" Rain Bird PEB -LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter Or Approved Equal 1" NIBCO T-580 Bronze Ball Valve Or Approved Equal 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh Or Approved Equal API Agricultural Products 4E - Spin Clean Filter

Senninger Pressure Regulator PMR-LF-25 Detail 5, Sheet IP5 Or Approved Equal 3/4" LF 2-25 GPM Watts WGV THD Bronze Gate Valve Detail 4, Sheet IP5 Size - Per line size Sleeve - Sch. 40 PVC Detail 2, Sheet IP5

Separate sleeves shall be installed for irrigation pipe and control 1-1/4" Main Line - Sch. 40 PVC - Size per Plan Detail 1, Sheet IP5 1" Lateral line - Sch. 40 PVC. Detail 1, Sheet IP5

See Emitter Schedule this Sheet. - — ◆ Lateral Flush End Cap In 6" round box - Color: Tan \*NOTE: THE ABBREVIATION EX. = EXISTING

3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter -

**VALVE CALLOUT** 

A-1 \_\_\_\_ Controller and Valve Number

1" - Valve Size X GPM Valve Flow TREE Zone Designation (Trees, Shrubs)

-Sleeve Size Approx. Length of Sleeve \*Note: Existing Sleeves not labeled

## **EMITTER SCHEDULE**

Shrubs, Accents and Groundcovers - Multi-port Emitters: All accents and cacti: 1-0.5 GPH Outlet, Rainbird XBT-05-6 Emitter \*Cacti - Emitters shall be plugged after the establishment period thereby eliminating irrigation to the cacti. All 1 Gal. groundcovers: 1-1 GPH Outlet, Rainbird XBT-10-6 Emitter All 5 Gal. plants: 2-1 GPH Outlets, Rainbird XBT-10-6 Emitter

Trees and Transplanted Trees - Mulit-port Emitters: All 15 Gal. trees: 1-6 GPH Rainbird XBT-10-6 each Transplanted trees: 1-12 GPH Rainbird XBT-20-6 each \*\*Note: Emitters shall be as specified or Approved Equal.

**PSOMAS** 

\*\*Note: Emitters shall be as specified or Approved Equal.



IP3

IP5

176

OF.

189

1 inch = 40 ft.



		IRRIGATION PLANS	
DEPARTMENT	OF	TRANSPORTATION/ENGINEERING	DIVISION

SABINO CANYON ROAD TANQUE VERDE ROAD TO KOLB ROAD 12/14 REF. DRWN. BY HU SCALE: H: 1"=40' V: NA DSGN. BY HU 12/14

12/14 PLAN NO. I-2009-029

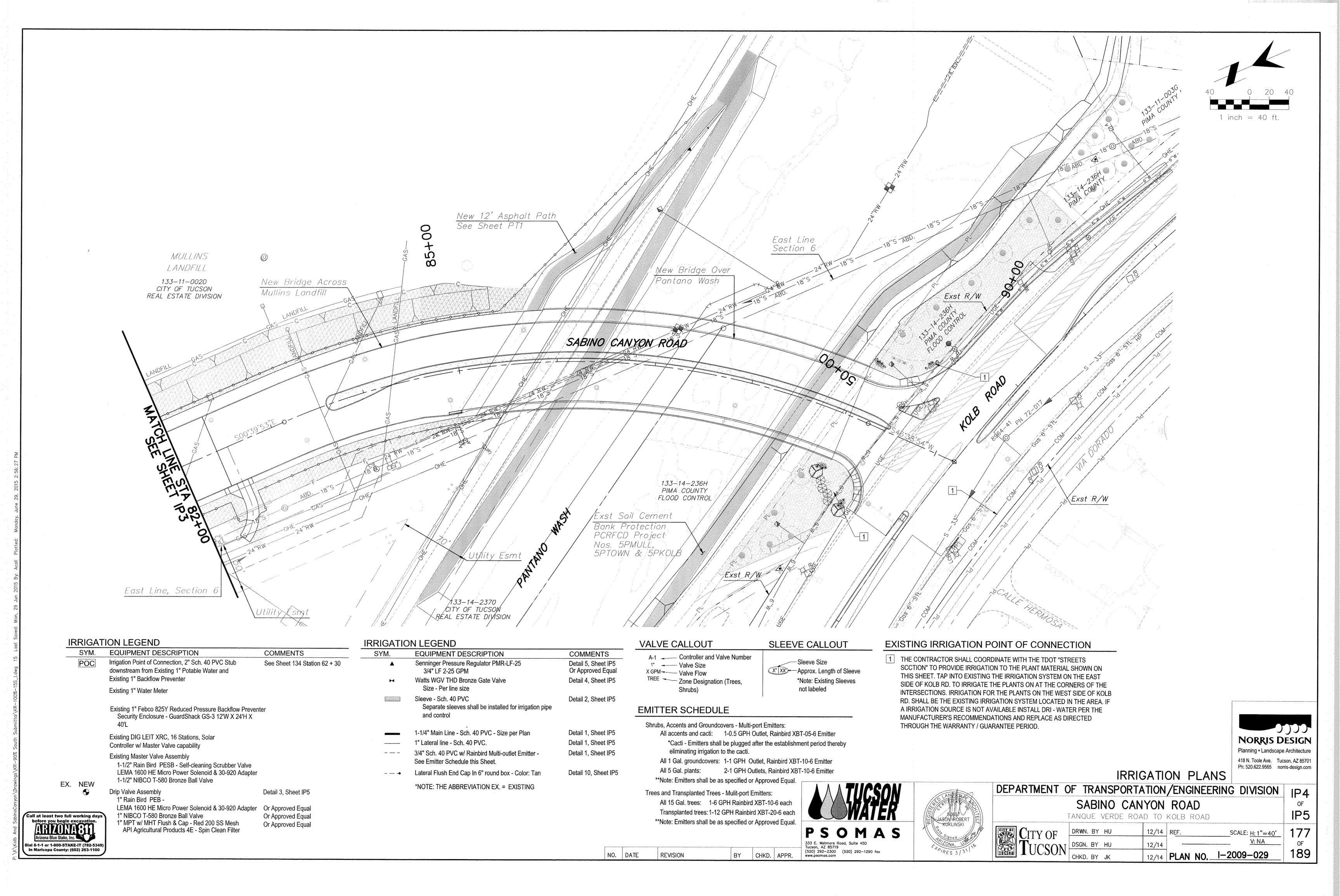
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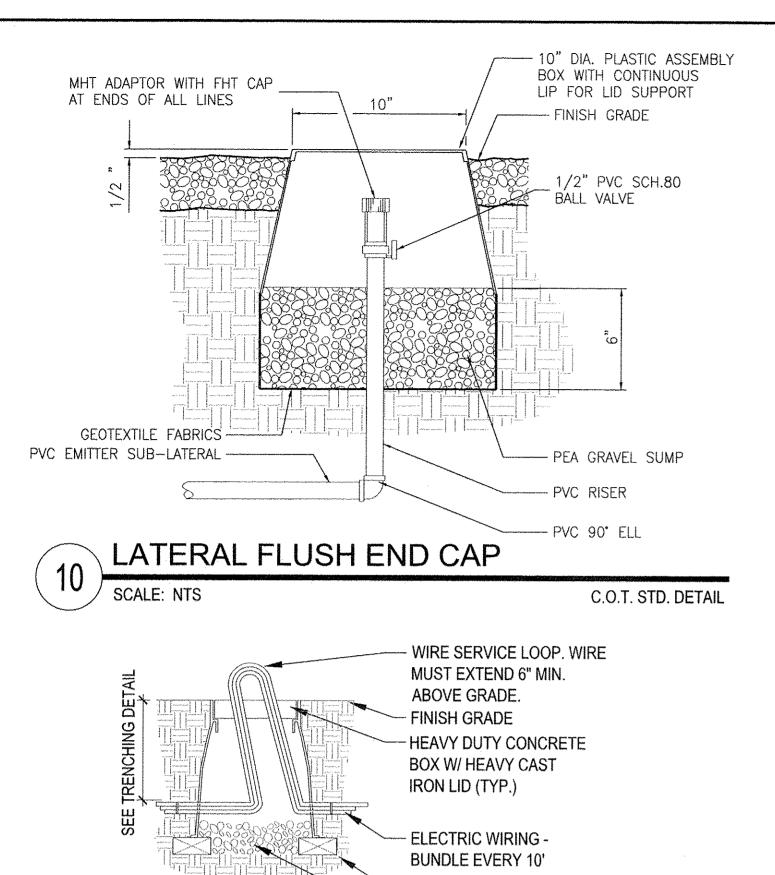
NO. DATE REVISION BY CHKD. APPR.

Detail 1, Sheet IP5

Detail 10, Sheet IP5

333 E. Wetmore Road, Suite 450
Tucson, AZ 85719
(520) 292-2300 (520) 292-1290 fax
www.psomas.com





1. LOCATE PULL BOXES AS SHOWN ON PLANS AND WHERE

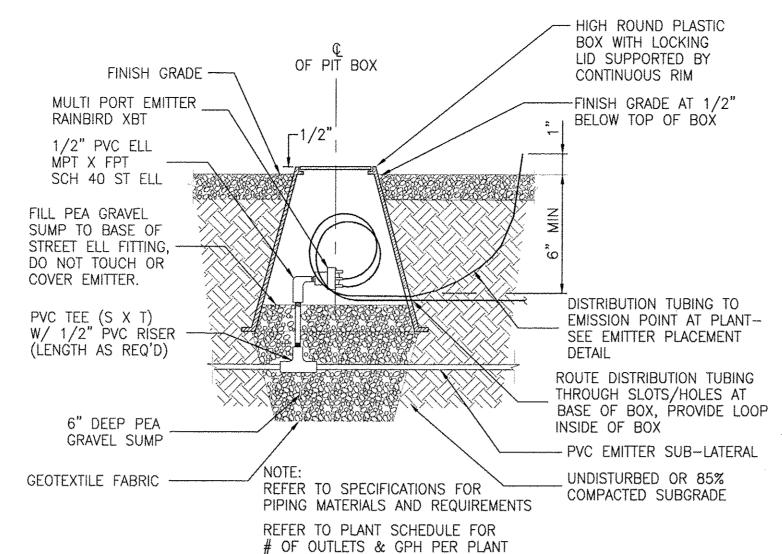
PULL BOX FOR 12 VOLT SYSTEMS

SPLICING OCCURS.

SCALE: NTS

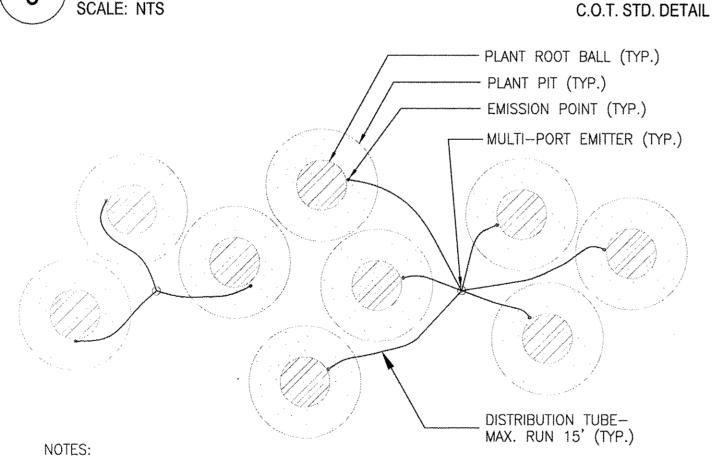
BRICK SUPPORTS 2 MIN.

- 3/4" GRAVEL SUMP - 4" DEPTH



MULTI-OUTLET EMITTER ON PVC LATERAL C.O.T. STD. DETAIL SCALE: NTS PLANT PIT PERIMETER 5X ROOTBALL EMISSION POINT . MAXIMUM LENGTH OF ONE TUBE (TYP.) DISTRIBUTION TUBE SHALL BE 15'. 2. EMISSION POINTS ARE NUMBERED TREE ROOT BALL IN ORDER OF PLACEMENT (I-6) 3. ALWAYS PLACE NUMBER ONE EMITTER UPHILL OF TREE. 4' MIN.

**EMITTER LOCATION DETAIL-TREES** SCALE: NTS

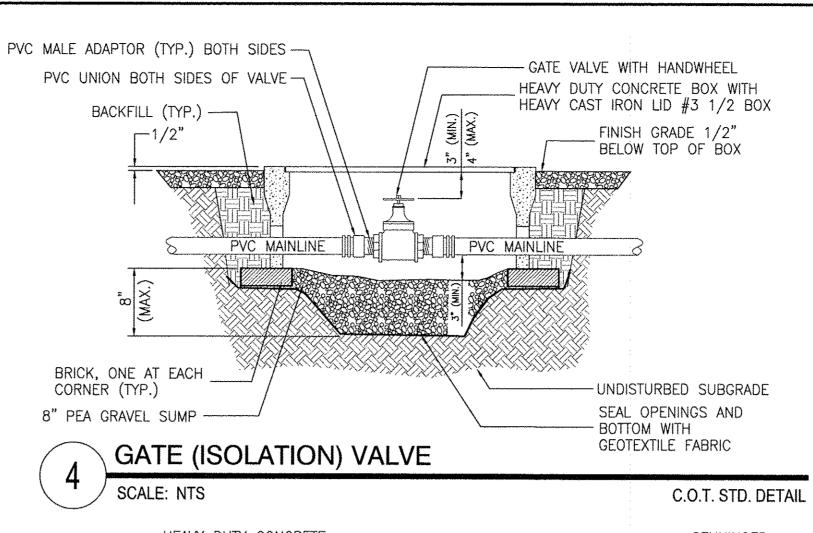


1. ALL SHRUBS, ACCENTS AND GROUNDCOVERS SHALL BE WATERED WITH A 2. MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULTI-PORT EMITTER.

- 3. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 15' 4. IF ONLY ONE DISTRIBUTION PER PLANT IS REQUIRED, PLACE EMISSION POINT ON TOP OF ROOT BALL OR UPHILL OF PLANT.
- 5. IF MORE THAN ONE DISTRIBUTION TUBE PER SHRUB IS REQUIRED, SPACE EMISSION POINTS EVENLY WITHIN PLANT PIT.

**EMITTER LOCATION DETAIL-SHRUBS** SCALE: NTS

C.O.T. STD. DETAIL



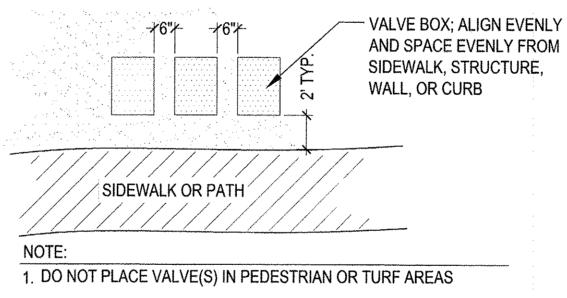
HEAVY DUTY CONCRETE SENNINGER BOX W/ HEAVY CAST IRON -- PRESET PRESSURE LID. #3 1/2 PULL BOX REGULATOR 4" MIN. --- PVC UNION SCH. 80 \_\_ 6" MAX. PVC UNION SCH. 80 -TYP. 2" GRANITE MULCH / FINISH GRADE WHERE SHOWN ON PLAN 1/2" BELOW PVC ELL-SXT-PVC PIPE-- PVC PIPE BRICK UNDERNEATH SEAL OPENINGS AND EACH CORNER (TYP.) - BOTTOM WITH GEOTEXTILE FABRIC PVC FITTING-SXSXS -PEA GRAVEL SUMP PVC LATERAL-FROM RCV-(1-CU. FT. EACH) PVC EMITTER SUBLATERAL.

ALL PIPE SCH. 40 EXCEPT SCH. 80 UNIONS

PRESSURE REGULATOR RISER

SCALE: NTS

C.O.T. STD. DETAIL



VALVE BOX PLACEMENT SCALE: NTS

- COLOR TRACER WIRE/RIBBON TO BE RUN ALONG DITCH ALIGNMENT COMPACT AT CENTERLINE OF PIPES (6"-8" DEEP). BACKFILL TO 85% AN EXPOSED LOOP IN THE TRACER 95% OVER ALL TRENCH WIRE/RIBBON SHALL BE PROVIDED WIDTH SLEEVING AT ALL VALVES, PULL BOXES, AND FINISH GRADE -THE ENDS OF ALL SLEEVES. TRACER WIRE SHALL BE #16 GREEN COATED COPPER WIRE. (ÖN ALL PVC PIPE). -PVC EMITTER SUB-LATERAL LINE - PVC LATERAL LINE CONTROL WIRES (TAPED AND BUNDLED EVERY 10') 3" MIN. SCH. 40 SLEEVE AT ALL LOCATIONS UNDER PAVEMENT (TYP.) -PVC MAINLINE UNDISTURBED OR 85% DIRT OR SAND FINE ENOUGH COMPACTED SUBGRADE TO PASS 1/2" SIEVE

1. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 2. NO PIPE OR WIRE SHALL BE LOCATED UNDER PAVING UNLESS IT IS SLEEVED.

## **IRRIGATION TRENCHING**

SCALE: NTS C.O.T. STD. DETAIL WRAP 12 GAUGE GALVANIZED WIRE AROUND EACH END OF SLEEVE(10 WRAPS MIN.) AND EXTEND TO SURFACE AS A LOCATING DEVICE. -FINISH GRADE / TOP OF DG. -COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS. SCH. 40 PVC SLEEVE, SEE IRRIGATION NOTE 13 FOR SLEEVE SIZING DEPTH VARIES SEE TRENCHING DETAIL THIS SHEET. EXTEND SLEEVES 12" 1. CAP SLEEVES UNTIL USE. BEYOND EDGES. 2. MULTIPLE SLEEVES REQUIRE 4" SEPARATION WITHIN SAME SLEEVE TRENCH.

3. IRRIGATION PIPE AND WIRE SHALL NOT SHARE THE SAME SLEEVE.

4. MARK / STAMP - IS (IRRIGATION SLEEVE) AND/OR PLACARD AT BACK OF CURB.

# **IRRIGATION SLEEVE**

SCALE: NTS REMOTE CONTROL VALVE W/ LEMA 1600 HE SOLENOID W/ 30-920 VALVE ADAPTER PVC SCH 80 UNION EACH REF. SPECS. & PLANS SIDE OF FILTER #5 PULL BOX --3"MIN/4"MAX. --- PVC LATERAL HEAVY DUTY CONC. BOX W/-HEAVY CAST IRON LID (TYP.) #7 PULL BOX - FINISH GRADE GEOTEXTILE FABRIC (TYP.) - (SEAL ALL BOX CUT OUTS AND BOTTOM) PVC SCH 80 UNIONS EACH BRICK AT CORNER SIDE OF VALVE (TYP.) 6" DEEP - 3/4" PEA GRAVEL SUMP (TYP.) └─ 3" MIN. CLEARANCE

REMOTE CONTROL VALVE - DRIP

C.O.T. STD. DETAIL

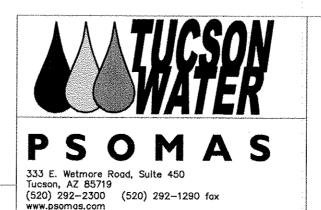
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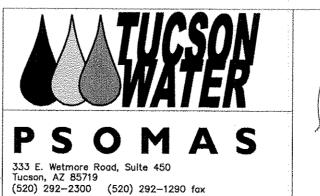
> 418 N. Toole Ave. Tucson, AZ 85701 Ph: 520.622.9565 norris-design.com

IRRIGATION PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION IP5 SABINO CANYON ROAD IP5 TANQUE VERDE ROAD TO KOLB ROAD 178 12/14 REF SCALE: <u>H: NA</u> DRWN. BY HU V: NA 12/14 12/14 PLAN NO. I-2009-029 189

**PSOMAS** 333 E. Wetmore Road, Suite 450 Tucson, AZ 85719 (520) 292-2300 (520) 292-1290 fax







NO. DATE REVISION BY CHKD. APPR.