

IRRIGATION NOTES

- 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.
- THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY WHEN NECESSARY. THE DESIGN INTENT IS THAT OPTIMUM FLOW IS 16 GPM.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE PLANT WATER REQUIREMENTS FOR LANDSCAPE IN THE RIGHT OF WAY.
- 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.
- 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.
- 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.
- THE ENTIRE IRRIGATION SYSTEM SHALL SATISFY ALL LOCAL AND STATE CODE REQUIREMENTS AND BE INSTALLED AS PER ALL CITY OF TUCSON/PIMA COUNTY SPECIFICATIONS.
- 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.
- 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.
- 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.
- 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 CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE AND QUANTITY
3/4" -1" PIPING	2" PVC (1)
1-1/4" PIPING	2-1/2" PVC (1)
1-50 CONTROL WIRES	2" PVC (1)

- CONTRACTOR SHALL COORDINATE INSTALLATION OF DRIP IRRIGATION LINES PRIOR TO INSTALLATION OF PLANT MATERIAL WITH THE CITY REPRESENTATIVE.
- 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 REPRESENTATIVE PRIOR TO START OF TRENCHING.
- 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.
- THE LANDSCAPE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO FINISH GRADE.
- ALL VALVE BOXES / LIDS SHALL BE PER THE CONSTRUCTION DETAILS WITH LOCKING LIDS AND COLOR TO BE TAN.
- ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE IRRIGATED BY MULTI-OUTLET EMITTERS. SEE EMITTER SCHEDULE (THIS SHEET) FOR ADDITIONAL INFORMATION.
- 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.

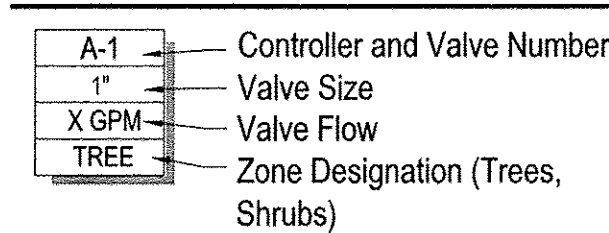
GENERAL LANDSCAPE NOTES (CONT.)

- 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.
- NOTIFY THE CITY REPRESENTATIVE 48 HOURS IN ADVANCE OF ANY INSPECTIONS AND / OR APPROVALS OF LANDSCAPE MATERIAL AND IRRIGATION PRODUCTS PRIOR TO INSTALLATION.
- 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.
- 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.
- 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 OWNER.

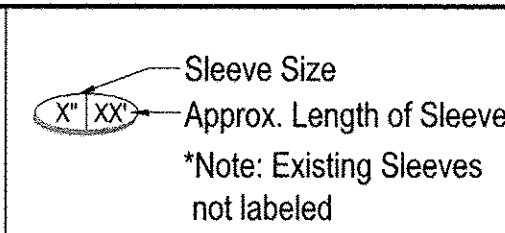
IRRIGATION LEGEND

SYM.	EQUIPMENT DESCRIPTION	COMMENTS
POC	Irrigation Point of Connection, 2" Sch. 40 PVC Stub downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer	See Sheet 134 Station 62 + 30
IM	Existing 1" Water Meter	
	Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12W X 24H X 40L	
A	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 API Agricultural Products 4E - Spin Clean Filter	Or Approved Equal
	Senninger Pressure Regulator PMR-LF-25 3/4" LF 2-25 GPM	Detail 5, Sheet IP5 Or Approved Equal
	Watts WGV THD Bronze Gate Valve Size - Per line size	Detail 4, Sheet IP5
	Sleeve - Sch. 40 PVC	Detail 2, Sheet IP5
	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	Detail 1, Sheet IP5
	1" Lateral line - Sch. 40 PVC.	Detail 1, Sheet IP5
	3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter - See Emitter Schedule this Sheet.	Detail 1, Sheet IP5
	Lateral Flush End Cap in 6" round box - Color: Tan	Detail 10, Sheet IP5

VALVE CALLOUT



SLEEVE CALLOUT



EMITTER SCHEDULE

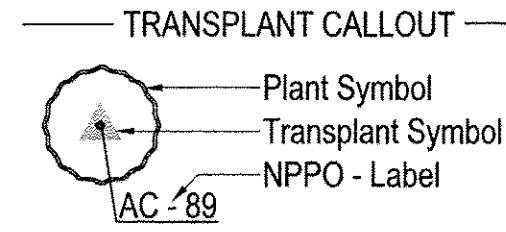
- Shrubs, Accents and Groundcovers - Multi-port Emitters:
 All accents and cacti: 1-0.5 GPH Outlet, Rainbird XBT-05-6 Emitter
 *Cacti - Emitters shall be plugged after the establishment period thereby eliminating irrigation to the cacti.
 All 1 Gal. groundcovers: 1-1 GPH Outlet, Rainbird XBT-10-6 Emitter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

HYDROSEED WITH DECORATIVE ROCK

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 ssp. mexicana	Mexican Gold Poppy	2.0
Arroyo Lupine		2.0
Desert Lupine		0.25
Arroyo Lupine		2.0
Firecracker Penstemon		0.25
Parry's Penstemon		1.0
California Bluebells		0.5



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.
- 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 SSP) 2003 EDITION, DIVISION 500
- 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.
- LOCATION OF ALL ELEMENTS ON THIS PLAN SHALL BE APPROVED BY THE CITY OF TUCSON LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE, PRIOR TO INSTALLATION.
- 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 SSP) 2003 EDITION
- ALL DISTURBED, GRUBBED, GRADED OR BLEATED AREAS NOT OTHERWISE IMPROVED SHALL BE LANDSCAPED, RESEED, OR TREATED WITH AN INORGANIC OR ORGANIC GROUND COVER.
- 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.
- PLANT SIZE, LOCATION AND SPACING:
 - 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.
- 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.
- WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 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.

PLANT SCHEDULE

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
	Prosopis juliflora	Velvet Mesquite	15 GAL	41
	Prosopis juliflora	Velvet Mesquite	TRANS.	8
	Existing Tree (PIP)	Varies		61
SHRUBS				
	Buddleja marrubifolia	Woolly Butterfly Bush	5 GAL	114
	Calliandra eriophylla	Pink Fairy Duster	5 GAL	113
	Cordia parvifolia	Littleleaf Cordia	5 GAL	34
	Dodonea viscosa	Hopbush	15 GAL	62
	Ericameria laricifolia	Turpentine Bush	5 GAL	41
	Larrea tridentata	Creosote	5 GAL	40
	Simmondsia chinensis	Jojoba	5 GAL	68
ACCENTS				
	Agave desertii	Desert Agave	5 GAL	49
	Agave parryi v. truncata	Artichoke Agave	5 GAL	57
	Agave weberii	Weber's Agave	5 GAL	52
	Carnegiea gigantea	Saguaro	5' spear	2
	Carnegiea gigantea	Saguaro	TRANS.	2
	Dasylium wheeleri	Toothless Desert Spoon	5 GAL	50
	Ferocactus wizenii	Barrel Cactus	TRANS.	7
	Hesperaloe parviflora	Red Yucca	5 GAL	37
	Opuntia engelmannii	Engelmann's Prickly Pear	5 GAL	44
	Opuntia santa rita	Santa Rita Prickly Pear	5 GAL	70
	Yucca elata	Soaptree Yucca	15 GAL	18
GROUNDCOVERS				
	Calylophus hartwegii	Sundrops	5 GAL	38
INERT GROUNDCOVER				

- 1/2" Screened Rock - at a depth of 2" - 867 SY. Color to be Apache Gold or approved equal.
 - 1/2"-4" Screened Rock - at a depth of 2" - 17,030 SY. Color to be Apache Gold or approved equal.
 - 2-4" Screened Rock - at a depth of 2" - 2,372 SY. 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.
- 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.

SYM.	SIZE	QTY
	3'x3'x3'	9
	2'x2'x2'	34
	18"x18"x18"	33

HYDROSEED - LANDFILL

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

LANDSCAPE SUMMARY

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

DRWN. BY HU	12/14	REF.	SCALE: H: NA	163 OF 189
DSGN. BY HU	12/14		V: NA	
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

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

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

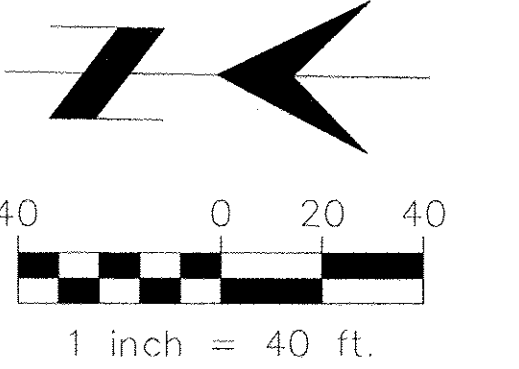
REGISTERED LANDSCAPE ARCHITECT
 JASON ROBERT KUKLINSKI
 State of Arizona, License No. 10000
 EXPIRES 3/31/16

CITY OF TUCSON

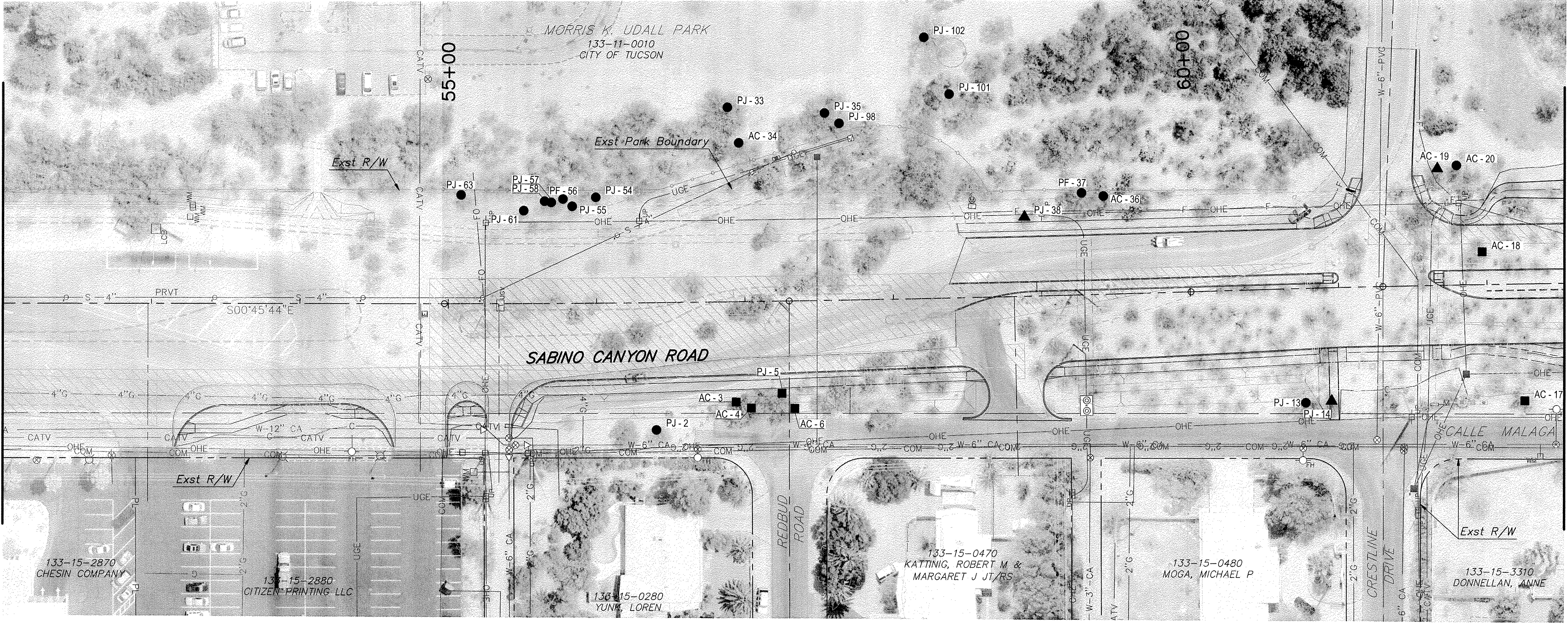
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Call at least two full working days before you begin excavation.
ARIZONA 811
 Arizona Blue Stake, Inc.
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
 In Maricopa County: (602) 263-1100

NO.	DATE	REVISION	BY	CHKD.	APPR.



STA 52+00
BEGIN PROJECT



MATCH LINE STA 62+00
SEE SHEET NP2

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.

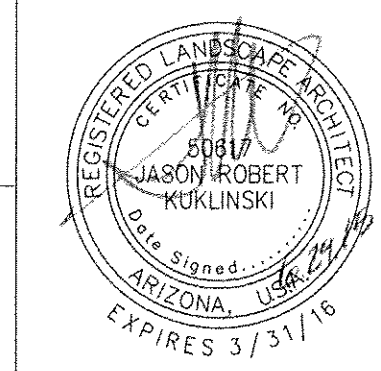
 COLOR CODING FOR FLAGGING:
 WHITE = PRESERVE IN PLACE (PIP)
 BLUE = TRANSPLANT ON SITE (TOS)
 YELLOW = REMOVE FROM SITE (RFS)
5. ANY CHANGES IN GRADING LIMITS OR DEVELOPMENT LAYOUT WILL REQUIRE THE SUBMITTAL OF A REVISED PRESERVATION PLAN FOR REVIEW AND APPROVAL.
6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS 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)



NO.	DATE	REVISION	BY	CHKD.	APPR.



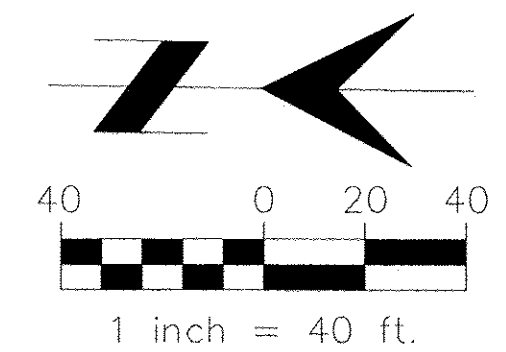
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
SABINO CANYON ROAD
 TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'
DSGN. BY HU	12/14		V: NA
CHKD. BY JK	12/14	PLAN NO. I-2009-029	

NP1
OF
NP5

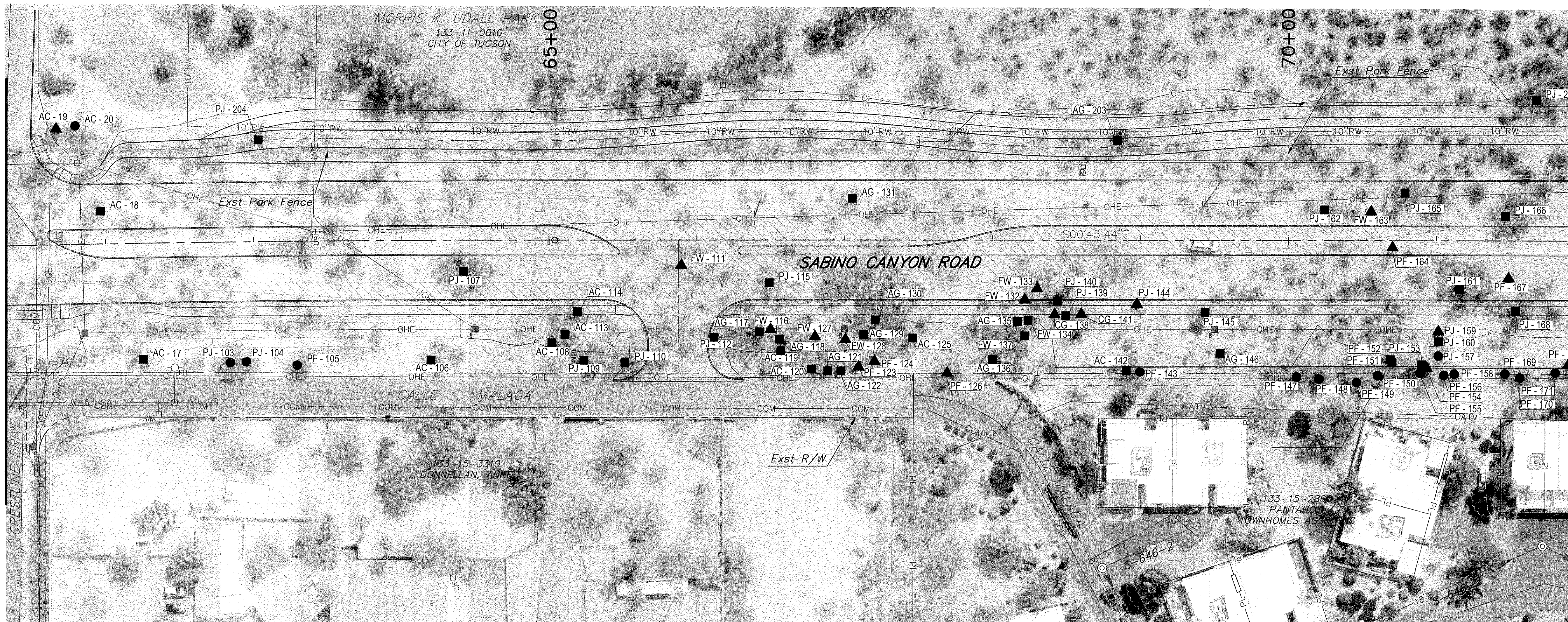
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SEE SHEET NP1

MATCH LINE STA 72+00
SEE SHEET NP3



NATIVE PLANT PRESERVATION NOTES:

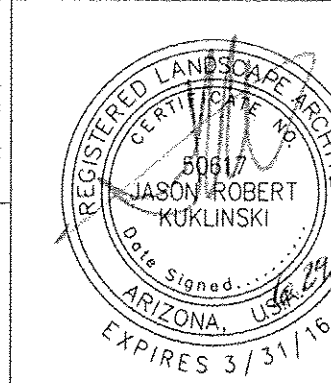
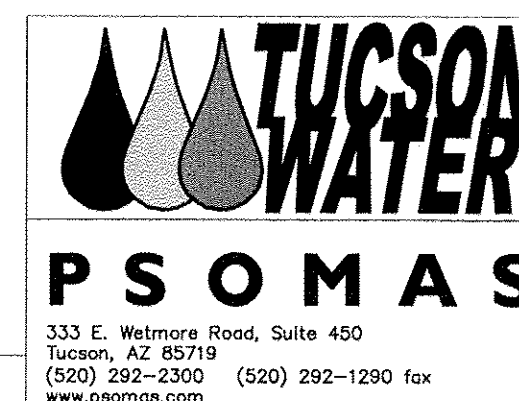
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NATIVE PLANT PRESERVATION LEGEND

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



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			
SABINO CANYON ROAD			
TANQUE VERDE ROAD TO KOLB ROAD			
DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'
DSGN. BY HU	12/14		V: NA
CHKD. BY JK	12/14	PLAN NO. I-2009-029	

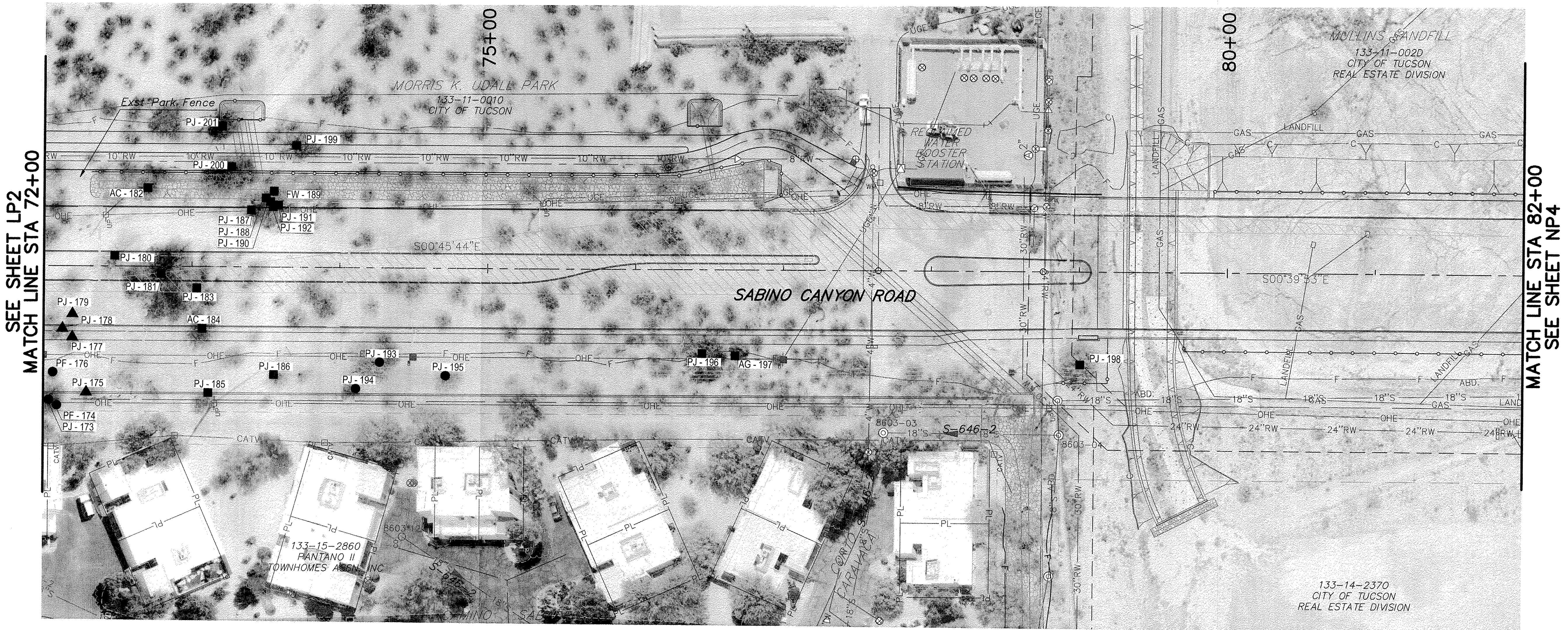
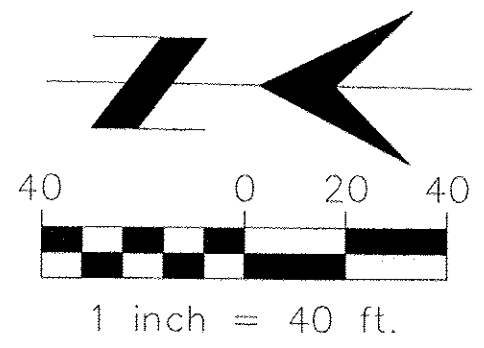


NPPO PLANS

NP2
OF
NP5

165
OF
189

NO.	DATE	REVISION	BY	CHKD.	APPR.



SEE SHEET LP2
MATCH LINE STA 72+00

MATCH LINE STA 82+00
SEE SHEET NP4

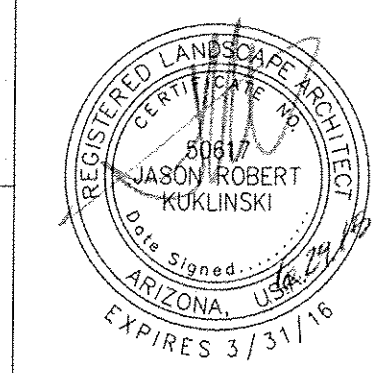
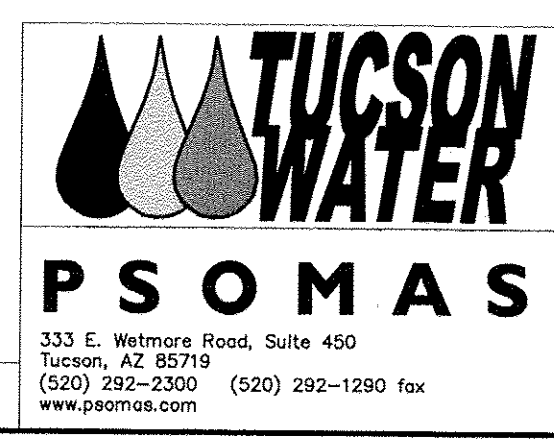
NATIVE PLANT PRESERVATION NOTES:

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 WITTMER 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

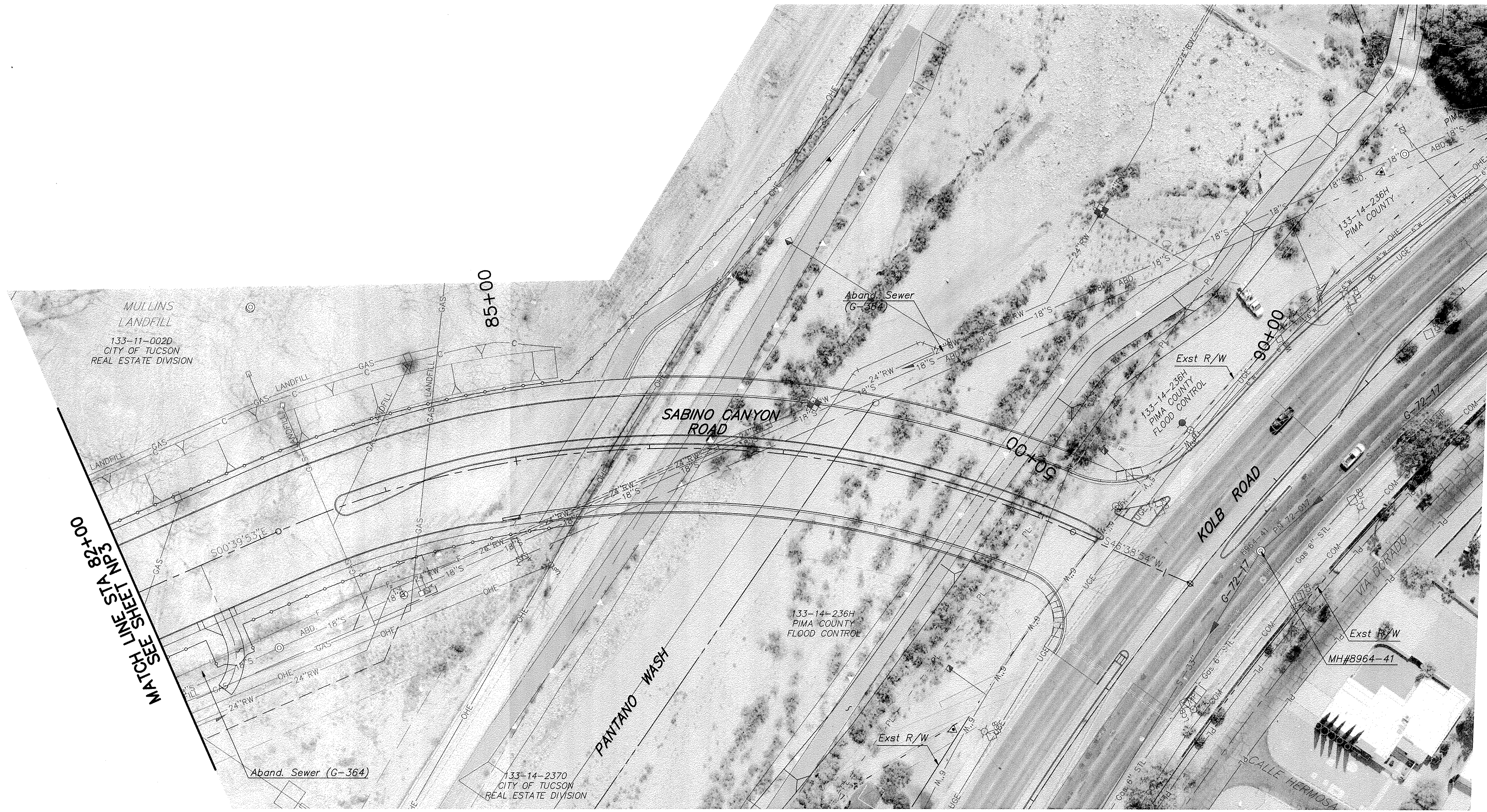
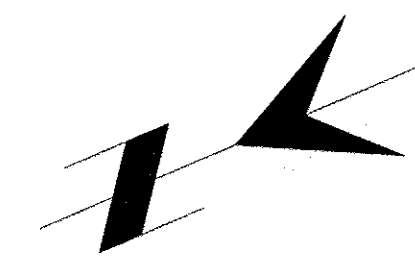
- PRESERVE IN PLACE (PIP)
- ▲ TRANSPLANT ON SITE (TOS)
- REMOVE FROM SITE (RFS)



		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		NP3 OF NP5
		SABINO CANYON ROAD TANQUE VERDE ROAD TO KOLB ROAD		
DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40' V: NA	166 OF 189
DSGN. BY HU	12/14			
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

NO.	DATE	REVISION	BY	CHKD.	APPR.

P:\K\Kob And SabinoCanyon\Drawings\NR-902\Submittal\NR-1002-45-NPPO.dwg Layout1 Last Saved: Mon, 29 Jun 2015 10:29:49:25 PM Plotted: Monday, June 29, 2015 2:49:25 PM



END OF PROJECT

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.
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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.

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NATIVE PLANT PRESERVATION LEGEND

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

P:\K\Kolb And SabinoCanyon Drawings\NR-90% South\Submitted\VR-100%-SS-NRPO.dwg Layout11 Last Saved: Mon, 29 Jun 2015 2:50:01 PM Plotted: Monday, June 29, 2015 2:50:01 PM

Call at least two full working days before you begin excavation.

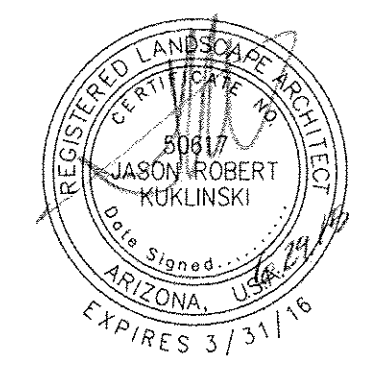
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (762-5348)
In Maricopa County: (602) 263-1100

NO.	DATE	REVISION	BY	CHKD.	APPR.

TUCSON WATER

PSOMAS

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



NPPO PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	167
DSGN. BY HU	12/14		V: NA	OF
CHKD. BY JK	12/14	PLAN NO. I-2009-029		189

NP4 OF NP5

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

NATIVE PLANT PRESERVATION INVENTORY

Tag #	Label	Botanical Name	Common Name	Height	Viability	Transplant	Disposition	Caliper	Trunk	Comment
2	PJ - 2	Prosopis juliflora	Velvet Mesquite	15.0	High	High	PIP	5		See Note #1
3	AC - 3	Acacia constricta	Whitehorn Acacia	15.0	Low	Low	RFS	4	multiple	mistletoe, See Note #1
4	AC - 4	Acacia constricta	Whitehorn Acacia	15.0	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	Whitehorn 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	Whitehorn Acacia	20.0	Low	Low	RFS	6	multiple	mistletoe, See Note #1
18	AC - 18	Acacia constricta	Whitehorn Acacia	12.0	Medium	Low	RFS	4		low branches, See Note #1
19	AC - 19	Acacia constricta	Whitehorn Acacia	12.0	High	Medium	TOS	4	multiple	See Note #1
20	AC - 20	Acacia constricta	Whitehorn Acacia	12.0	High	Low	PIP	4	multiple	See Note #1
33	PJ - 33	Prosopis juliflora	Velvet Mesquite	25.0	Medium	Low	PIP	13		See Note #2
34	AC - 34	Acacia constricta	Whitehorn Acacia	15.0	Medium	Low	PIP	4	multiple	See Note #2
35	PJ - 35	Prosopis juliflora	Velvet Mesquite	25.0	High	Low	PIP	13		See Note #2
36	AC - 36	Acacia constricta	Whitehorn Acacia	12.0	High	Low	PIP	4	multiple	See Note #1
37	PF - 37	Parkinsonia florida	Blue Palo Verde	18.0	High	Low	PIP	7		See Note #1
38	PJ - 38	Prosopis juliflora	Velvet Mesquite	8.0	High	High	TOS	4		See Note #1
54	PJ - 54	Prosopis juliflora	Velvet Mesquite	12.0	High	High	PIP	4	multiple	See Note #2
55	PJ - 55	Prosopis juliflora	Velvet Mesquite	12.0	High	High	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		See Note #2
61	PJ - 61	Prosopis juliflora	Velvet Mesquite	10.0	High	High	PIP	4		See Note #2
63	PJ - 63	Prosopis juliflora	Velvet Mesquite	12.0	Medium	Low	PIP	4	multiple	See Note #2
98	PJ - 98	Prosopis juliflora	Velvet Mesquite	15.0	High	High	PIP	4		See Note #2
101	PJ - 101	Prosopis juliflora	Velvet Mesquite	12.0	Medium	High	PIP	4		See Note #2
102	PJ - 102	Prosopis juliflora	Velvet Mesquite	25.0	High	Low	PIP	16		See Note #2
103	PJ - 103	Prosopis juliflora	Velvet Mesquite	15.0	High	Low	PIP	8	multiple	8in mult
104	PJ - 104	Prosopis juliflora	Velvet Mesquite	10.0	Medium	Low	PIP	4	multiple	4in mult
105	PF - 105	Parkinsonia florida	Blue Palo Verde	15.0	High	Low	PIP	6		6in
106	AC - 106	Acacia constricta	Whitehorn Acacia	12.0	Low	Low	RFS	4	multiple	mistletoe low branching
107	PJ - 107	Prosopis juliflora	Velvet Mesquite	15.0	Low	Low	RFS	16	multiple	mistletoe
108	AC - 108	Acacia constricta	Whitehorn Acacia	8.0	Low	Low	RFS	4	multiple	mistletoe
109	PJ - 109	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	8	multiple	mistletoe broken branches
110	PJ - 110	Prosopis juliflora	Velvet Mesquite	15.0	Low	Low	RFS	6	multiple	mistletoe
111	FW - 111	Ferocactus wislizenii	Compass Barrel	3.0	High	Medium	TOS	0		creosote entangled
112	PJ - 112	Prosopis juliflora	Velvet Mesquite	15.0	Low	Low	RFS	6		mistletoe
113	AC - 113	Acacia constricta	Whitehorn Acacia	12.0	Medium	Low	RFS	4	multiple	
114	AC - 114	Acacia constricta	Whitehorn 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 wislizenii	Compass Barrel	2.0	High	High	TOS	0		
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	multiple	mistletoe
119	AC - 119	Acacia constricta	Whitehorn Acacia	8.0	Low	Low	RFS	4	multiple	mistletoe
120	AC - 120	Acacia constricta	Whitehorn Acacia	12.0	Low	Medium	RFS	5		mistletoe
121	AG - 121	Acacia greggii	Catclaw Acacia	8.0	Low	Low	RFS	4		4in leaning mistletoe
122	AG - 122	Acacia greggii	Catclaw Acacia	12.0	Low	Low	RFS	5	multiple	leaning mistletoe
123	PF - 123	Parkinsonia florida	Blue Palo Verde	12.0	High	Medium	TOS	4		
124	PF - 124	Parkinsonia florida	Blue Palo Verde	12.0	High	High	TOS	4		
125	AC - 125	Acacia constricta	Whitehorn 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 wislizenii	Compass Barrel	2.0	Medium	High	TOS	0		
128	FW - 128	Ferocactus wislizenii	Compass Barrel	3.0	Medium	Medium	TOS	0		multi headed
129	AG - 129	Acacia greggii	Catclaw Acacia	10.0	Low	Low	RFS	4	multiple	
130	AG - 130	Acacia greggii	Catclaw Acacia	10.0	Low	Low	RFS	4	multiple	low split mistletoe
131	AG - 131	Acacia greggii	Catclaw Acacia	7.0	Low	Low	RFS	4		trunk on ground mistletoe
132	FW - 132	Ferocactus wislizenii	Compass Barrel	3.0	High	High	TOS	0		
133	FW - 133	Ferocactus wislizenii	Compass Barrel	3.0	High	High	TOS	0		
134	FW - 134	Ferocactus wislizenii	Compass Barrel	2.0	Low	Medium	RFS	0		partially uprooted
135	AG - 135	Acacia greggii	Catclaw Acacia	8.0	Low	Low	RFS	4	multiple	low split
136	AG - 136	Acacia greggii	Catclaw Acacia	7.0	Medium	Low	RFS	4	multiple	low split
137	FW - 137	Ferocactus wislizenii	Compass Barrel	3.0	Medium	Low	RFS	0		leaning
138	CG - 138	Carnegiea gigantea	Saguaro	9.0	High	High	TOS	0		spear
139	PJ - 139	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	12		mistletoe
140	PJ - 140	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	6	multiple	mistletoe
141	CG - 141	Carnegiea gigantea	Saguaro	6.0	Medium	High	TOS	0		apache boot spear
142	AC - 142	Acacia constricta	Whitehorn Acacia	15.0	High	Low	RFS	5	multiple	low split
143	PF - 143	Parkinsonia florida	Blue Palo Verde	15.0	High	Medium	PIP	5		concrete at base
144	PJ - 144	Prosopis juliflora	Velvet Mesquite	12.0	Medium	Medium	TOS	4		leaning
145	PJ - 145	Prosopis juliflora	Velvet Mesquite	8.0	Medium	Low	RFS	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 burrow
148	PF - 148	Parkinsonia florida	Blue Palo Verde	12.0	Medium	Medium	PIP	6	multiple	
149	PF - 149	Parkinsonia florida	Blue Palo Verde	15.0	Medium	Medium	PIP	5	multiple	
150	PF - 150	Parkinsonia florida	Blue Palo Verde	15.0	High	Medium	PIP	6	multiple	
151	PF - 151	Parkinsonia florida	Blue Palo Verde	12.0	Medium	Medium	RFS	4		poor form
152	PF - 152	Parkinsonia florida	Blue Palo Verde	12.0	Low	Low	RFS	4		almost dead
153	PJ - 153	Prosopis juliflora	Velvet Mesquite	20.0	High	Low	RFS	5	multiple	
154	PF - 154	Parkinsonia florida	Blue Palo Verde	15.0	Medium	High	TOS	4	multiple	
155	PF - 155	Parkinsonia florida	Blue Palo Verde	12.0	High	High	PIP	4	multiple	
156	PF - 156	Parkinsonia florida	Blue Palo Verde	12.0	Medium	Medium	PIP	4	multiple	
157	PJ - 157	Prosopis juliflora	Velvet Mesquite	12.0	High	High	PIP	4	multiple	
158	PF - 158	Parkinsonia florida	Blue Palo Verde	12.0	High	High	PIP	5	multiple	

NATIVE PLANT PRESERVATION INVENTORY (CONT.)

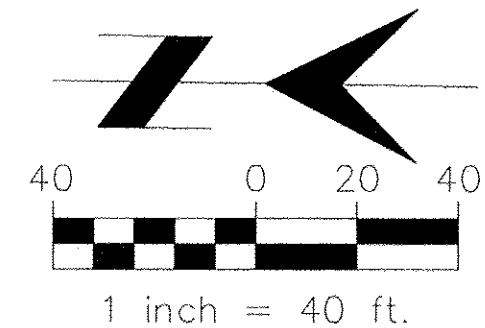
Tag #	Label	Botanical Name	Common Name	Height	Viability	Transplant	Disposition	Caliper	Trunk	Comment
159	PJ - 159	Prosopis juliflora	Velvet Mesquite	10.0	High	Medium	TOS	4		low split
160	PJ - 160	Prosopis juliflora	Velvet Mesquite	10.0	Low	High	RFS	4		trunk damage
161	PJ - 161	Prosopis juliflora	Velvet 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 wislizenii	Compass Barrel	3.0	High	High	TOS	0		
164	PF - 164	Parkinsonia florida	Blue Palo Verde	12.0	High	High	TOS	4	multiple	
165	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	
177	PJ - 177	Prosopis juliflora	Velvet Mesquite	15.0	High	Medium	TOS	6		
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 branches
182	AC - 182	Acacia constricta	Whitehorn 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	Whitehorn 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 wislizenii	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	12.0	High	Medium	PIP	5	multiple	low branches
195	PJ - 195	Prosopis juliflora	Velvet Mesquite	12.0	High	Low	PIP	4	multiple	low split
196	PJ - 196	Prosopis juliflora	Velvet Mesquite	25.0	Low	Low	RFS	24		mistletoe
197	AG - 197	Acacia greggii	Catclaw Acacia	10.0	Low	Low	RFS	8		broken trunk
198	PJ - 198	Prosopis juliflora	Velvet Mesquite	18.0	High	Low	RFS	18		
199	PJ - 199	Prosopis juliflora	Velvet Mesquite	12.0	Low	Low	RFS	8	multiple	broken branches
200	PJ - 200	Prosopis juliflora	Velvet Mesquite	18.0	Low	Low	RFS	12	multiple	dead branches
201	PJ - 201	Prosopis juliflora	Velvet Mesquite	15.0	Low	Low	RFS	16	multiple	old dead wood
202	PJ - 202	Prosopis juliflora	Velvet Mesquite	15.0	High	Low	RFS	8	multiple	
203	AG - 203	Acacia greggii	Catclaw Acacia	10.0	Low	Low	RFS	4	multiple	mistletoe
204	PJ - 204	Prosopis juliflora	Velvet Mesquite	12.0	Medium	Low	RFS	12		mistletoe

NOTES:

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

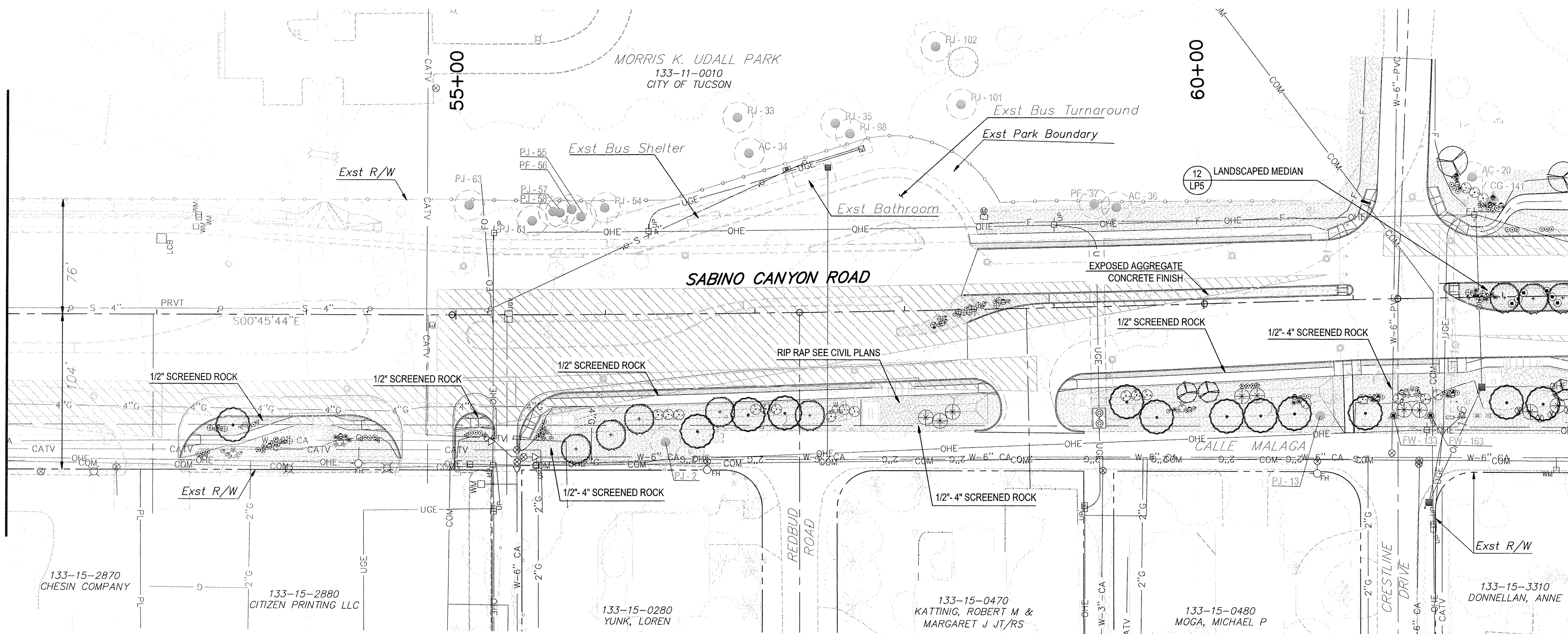
MITIGATION CALCULATIONS - CITY OF TUCSON DEVELOPMENT STANDARD NO. 2-15.0

NATIVE PLANT PRESERVATION WORKSHEET LINE ITEM REFERENCE NUMBERS	STEP 1			STEP 2			STEP 3			STEP 4		
	LINE 1	LINE 3	LINE 5	LINE 7	LINE 8	LINE 9	LINE 10	LINE 11	LINE 12	LINE 13	LINE 14	LINE 15
	TOTAL VIABLE	TOTAL PIP	TOTAL TOS	TOTAL # OF PLANTS TO REMAIN ON SITE	TOTAL RFS							



BEGIN PROJECT
Sta 52+00.00

MATCH LINE STA 62+00
SEE SHEET LP2



PLANT SCHEDULE

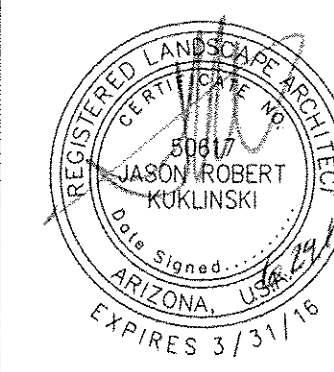
SYM.	BOTANICAL NAME	COMMON NAME	SIZE
TREES			
⊙	Acacia constricta	Whitethorn Acacia	15 GAL
⊙	Acacia constricta	Whitethorn Acacia	TRANS.
⊙	Acacia greggii	Catclaw Acacia	15 GAL
⊙	Chilopsis linearis 'Lucretia Hamilton'	Desert Willow Hybrid	15 GAL
⊙	Parkinsonia florida	Blue Palo Verde	TRANS.
⊙	Parkinsonia preacox	Palo Brea	15 GAL
⊙	Prosopis juliflora	Velvet Mesquite	15 GAL
⊙	Prosopis juliflora	Velvet Mesquite	TRANS.
⊙	Existing Tree (PIP)	Varies	
SHRUBS			
⊙	Buddleja marrubifolia	Wooly Butterfly Bush	5 GAL
⊙	Calliandra eriophylla	Pink Fairy Duster	5 GAL
⊙	Cordia parvifolia	Littleleaf Cordia	5 GAL
⊙	Dodonea viscosa	Hopbush	5 GAL
⊙	Ericameria laurifolia	Turpentine Bush	5 GAL
⊙	Larrea tridentata	Creosote	5 GAL
⊙	Simmondsia chinensis	Jojoba	5 GAL

PLANT SCHEDULE CONT.

SYM.	BOTANICAL NAME	COMMON NAME	SIZE
ACCENTS			
⊙	Agave desertii	Desert Agave	5 GAL
⊙	Agave parryi v. truncata	Artichoke Agave	5 GAL
⊙	Agave weberii	Weber's Agave	5 GAL
⊙	Carnegiea gigantea	Saguaro	5' spear
⊙	Carnegiea gigantea	Saguaro	TRANS.
⊙	Dasyliroon wheeleri	Toothless Desert Spoon	5 GAL
⊙	Ferocactus wislizenii	Barrel Cactus	TRANS.
⊙	Hesperaloe parviflora	Red Yucca	5 GAL
⊙	Opuntia engelmannii	Engelmann's Prickly Pear	5 GAL
⊙	Opuntia santa rita	Santa Rita Prickly Pear	5 GAL
⊙	Yucca elata	Soaptree Yucca	15 GAL
GROUNDCOVERS			
⊙	Calytophus hartwegii	Sundrops	1 GAL
HYDROSEED			
⊙	Hydroseed with Decorative Rock, See Detail 14, Sheet LP5	Hydroseed - Landfill	
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.		

PLANT SCHEDULE CONT.

BOULDERS	
Color to be Color to be Apache Gold or approved equal.	
SYM.	SIZE
⊙	3'x3'x3'
⊙	2'x2'x2'
⊙	18"x18"x18"
TRANSPLANT CALLOUT	
⊙	Plant Symbol
⊙	Transplant Symbol
⊙	NPPO - Label



LANDSCAPE PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

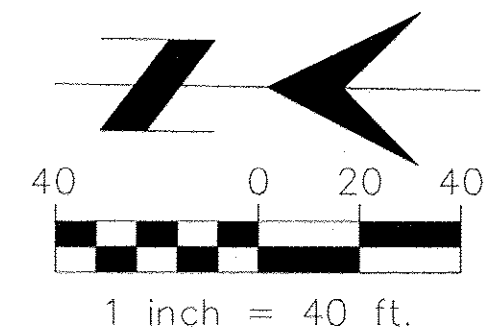
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CHKD. BY JK	12/14	PLAN NO. I-2009-029	



NO.	DATE	REVISION	BY	CHKD.	APPR.

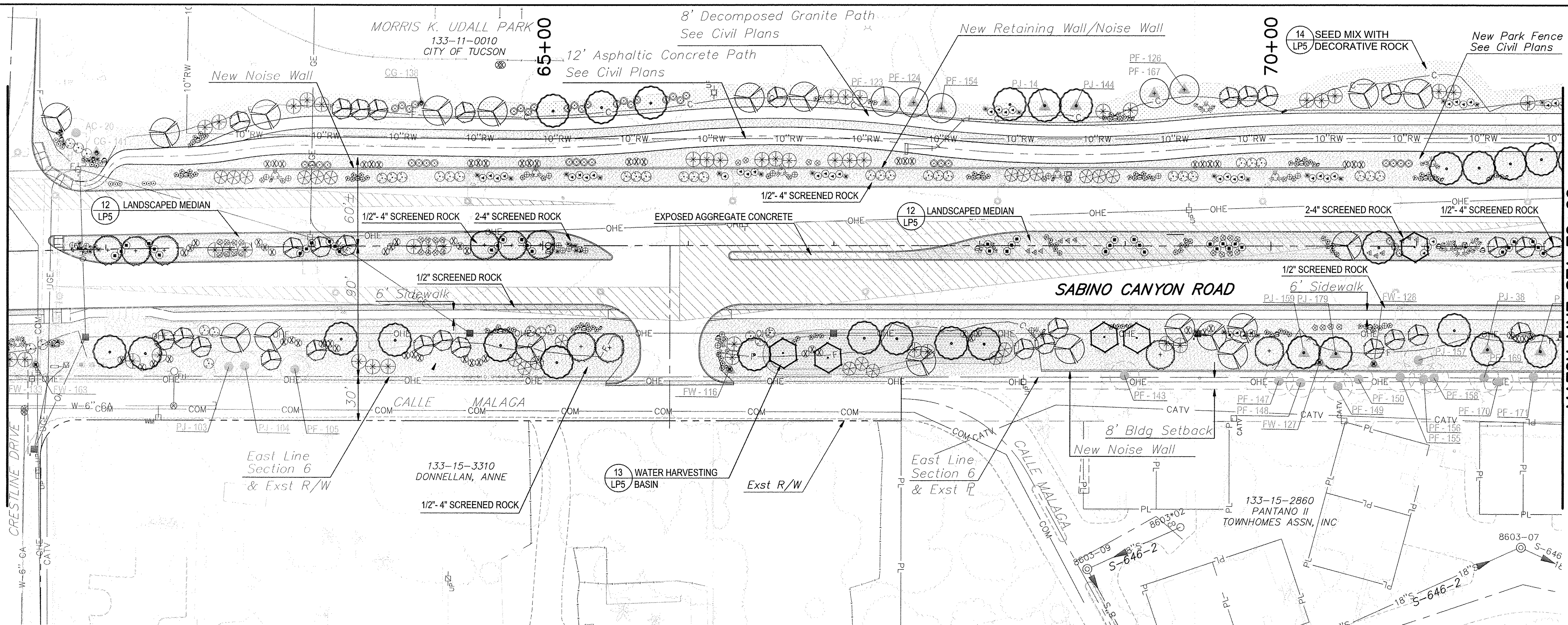
LP1
OF
LP5
169
OF
189

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MATCH LINE STA 62+00
SEE SHEET LP1

MATCH LINE STA 72+00
SEE SHEET LP3



PLANT SCHEDULE

SYM.	BOTANICAL NAME	COMMON NAME	SIZE
TREES			
⊙	Acacia constricta	Whitethorn Acacia	15 GAL
⊙	Acacia constricta	Whitethorn Acacia	TRANS.
⊙	Acacia greggii	Catclaw Acacia	15 GAL
⊙	Chilopsis linearis 'Lucretia Hamilton'	Desert Willow Hybrid	15 GAL
⊙	Parkinsonia florida	Blue Palo Verde	TRANS.
⊙	Parkinsonia precox	Palo Brea	15 GAL
⊙	Prosopis juliflora	Velvet Mesquite	15 GAL
⊙	Prosopis juliflora	Velvet Mesquite	TRANS.
⊙	Existing Tree (PIP)	Varies	
SHRUBS			
⊙	Buddleja marrubifolia	Woolly Butterfly Bush	5 GAL
⊙	Calliandra eriophylla	Pink Fairy Duster	5 GAL
⊙	Cordia parvifolia	Littleleaf Cordia	5 GAL
⊙	Dodonea viscosa	Hopbush	5 GAL
⊙	Ericameria laricifolia	Turpentine Bush	5 GAL
⊙	Larrea tridentata	Creosote	5 GAL
⊙	Simmondsia chinensis	Jojoba	5 GAL

PLANT SCHEDULE CONT.

SYM.	BOTANICAL NAME	COMMON NAME	SIZE
ACCENTS			
⊙	Agave desertii	Desert Agave	5 GAL
⊙	Agave parryi v. truncata	Artichoke Agave	5 GAL
⊙	Agave weberii	Weber's Agave	5 GAL
⊙	Carnegiea gigantea	Saguaro	5' spear
⊙	Carnegiea gigantea	Saguaro	TRANS.
⊙	Dasyliion wheeleri	Toothless Desert Spoon	5 GAL
⊙	Ferocactus wizenii	Barrel Cactus	TRANS.
⊙	Hesperaloe parviflora	Red Yucca	5 GAL
⊙	Opuntia engelmannii	Engelmann's Prickly Pear	5 GAL
⊙	Opuntia santa rita	Santa Rita Prickly Pear	5 GAL
⊙	Yucca elata	Soaptree Yucca	15 GAL
GROUNDCOVERS			
⊙	Calylophus hartwegii	Sundrops	1 GAL

PLANT SCHEDULE CONT.

BOULDERS	
Color to be Color to be Apache Gold or approved equal.	
SYM.	SIZE
⊙	3'x3'x3'
⊙	2'x2'x2'
⊙	18"x18"x18"
TRANSPLANT CALLOUT	
⊙	Plant Symbol
⊙	Transplant Symbol
⊙	NPPO - Label

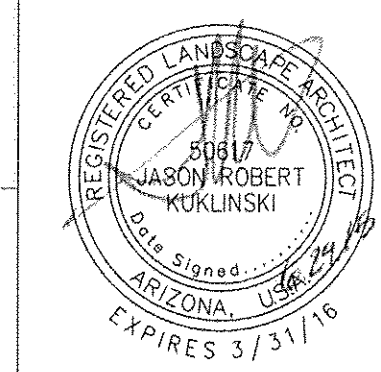
⊙	Hydroseed with Decorative Rock, See Detail 14, Sheet LP5	⊙	Hydroseed - Landfill
INERT GROUNDCOVER			
⊙	1/2" Screened Rock - at a depth of 2". Color to be Apache Gold or approved equal.		
⊙	1/2"-4" Screened Rock - at a depth of 2". Color to be Apache Gold or approved equal.		
⊙	2-4" Screened Rock - 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.		

Call at least two full working days before you begin excavation.

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LANDSCAPE PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

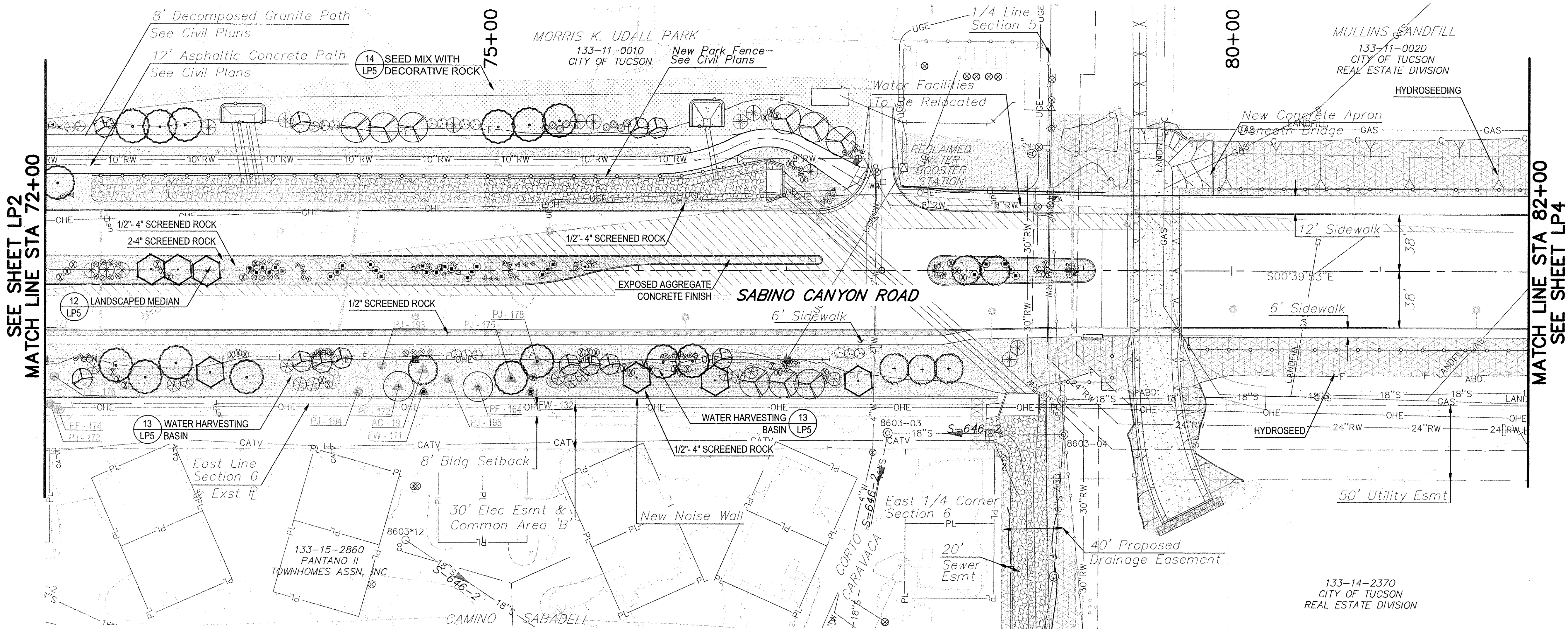
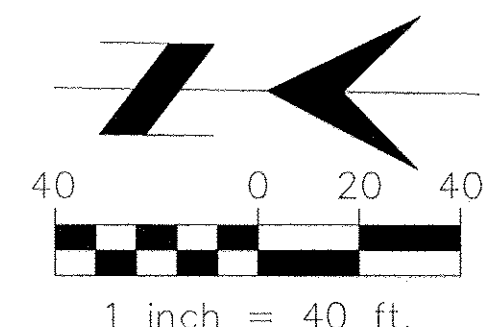
SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	LP2 OF LP5 170 OF 189
DSGN. BY HU	12/14		V: NA	
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

CITY OF TUCSON

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PLANT SCHEDULE

SYM.	BOTANICAL NAME	COMMON NAME	SIZE
TREES			
+	Acacia constricta	Whitethorn Acacia	15 GAL
⊕	Acacia constricta	Whitethorn Acacia	TRANS.
⊕	Acacia greggii	Catclaw Acacia	15 GAL
⊕	Chilopsis linearis 'Lucretia Hamilton'	Desert Willow Hybrid	15 GAL
⊕	Parkinsonia florida	Blue Palo Verde	TRANS.
⊕	Parkinsonia preacox	Palo Brea	15 GAL
⊕	Prosopis juliflora	Velvet Mesquite	15 GAL
⊕	Prosopis juliflora	Velvet Mesquite	TRANS.
⊕	Existing Tree (PIP)	Varies	
SHRUBS			
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⊕	Cordia parvifolia	Littleleaf Cordia	5 GAL
⊕	Dodonea viscosa	Hopbush	5 GAL
⊕	Ericameria laricifolia	Turpentine Bush	5 GAL
⊕	Larrea tridentata	Creosote	5 GAL
⊕	Simmondsia chinensis	Jojoba	5 GAL

PLANT SCHEDULE CONT.

SYM.	BOTANICAL NAME	COMMON NAME	SIZE
ACCENTS			
⊕	Agave desertii	Desert Agave	5 GAL
⊕	Agave parryi v. truncata	Artichoke Agave	5 GAL
⊕	Agave weberi	Weber's Agave	5 GAL
⊕	Carnegiea gigantea	Saguaro	5' spear
⊕	Carnegiea gigantea	Saguaro	TRANS.
⊕	Dasyliroon wheeleri	Toothless Desert Spoon	5 GAL
⊕	Ferocactus wislizenii	Barrel Cactus	TRANS.
⊕	Hesperaloe parviflora	Red Yucca	5 GAL
⊕	Opuntia engelmannii	Engelmann's Prickly Pear	5 GAL
⊕	Opuntia santa rita	Santa Rita Prickly Pear	5 GAL
⊕	Yucca elata	Soaptree Yucca	15 GAL
GROUNDCOVERS			
⊕	Calyptophus hartwegii	Sundrops	1 GAL
HYDROSEED			
⊕	Hydroseed with Decorative Rock	Hydroseed - Landfill	
INERT GROUNDCOVER			
⊕	1/2" Screened Rock - at a depth of 2". Color to be Apache Gold or approved equal.		
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⊕	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.		

PLANT SCHEDULE CONT.

BOULDERS	
SYM.	SIZE
⊕	3'x3'x3'
⊕	2'x2'x2'
⊕	18"x18"x18"
TRANSPLANT CALLOUT	
⊕	Plant Symbol
⊕	Transplant Symbol
⊕	NPPO - Label

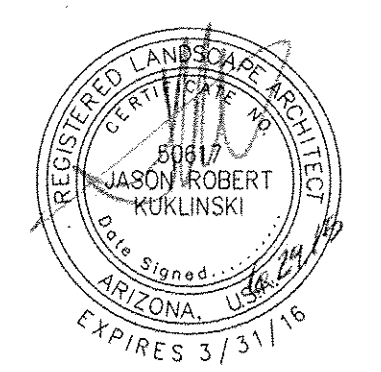
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LANDSCAPE PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

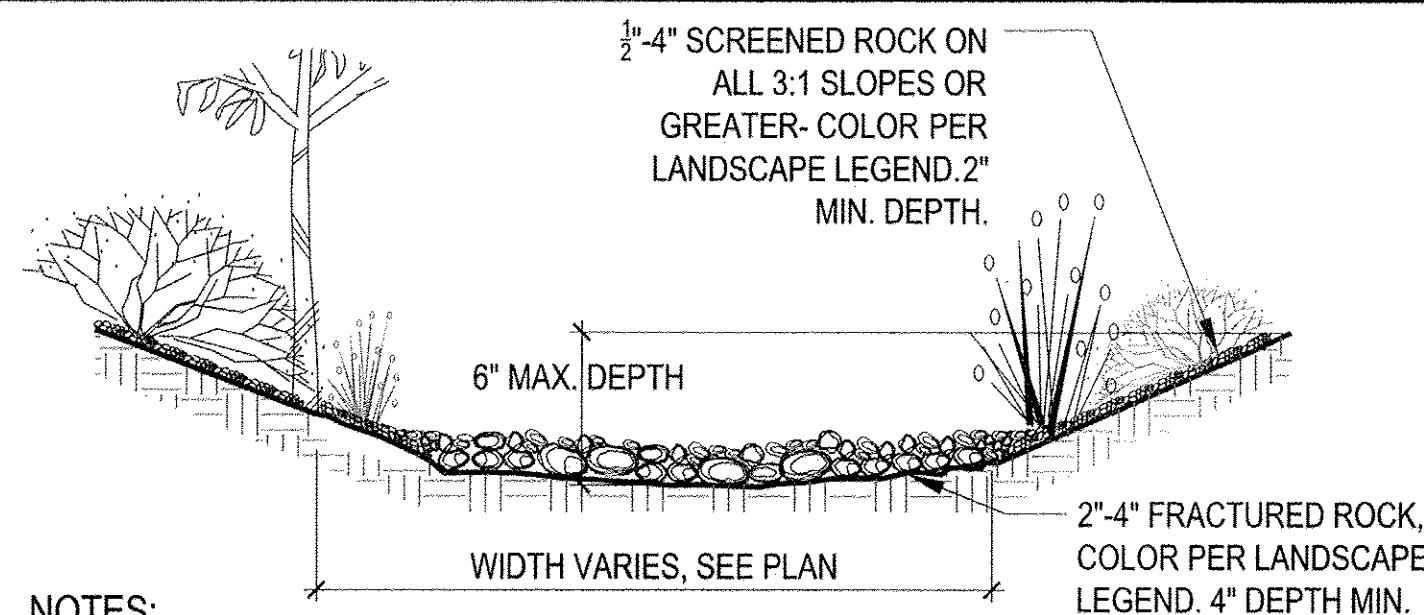
SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	LP3 OF LP5 171 OF 189
DSGN. BY HU	12/14		V: NA	
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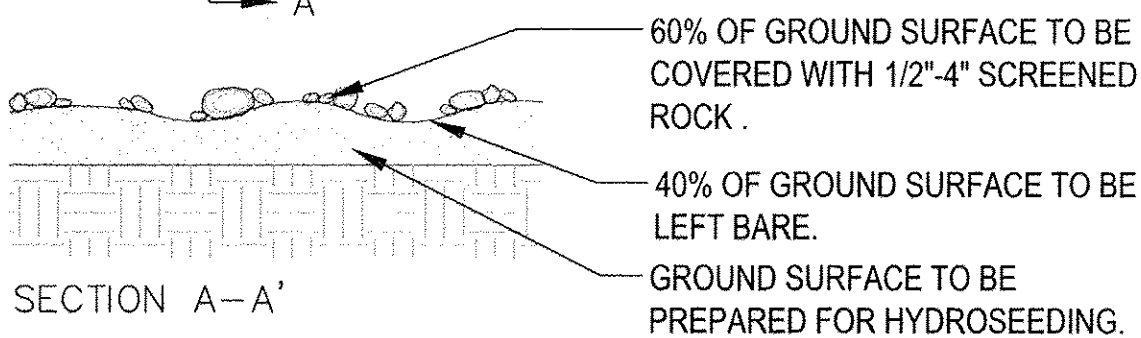
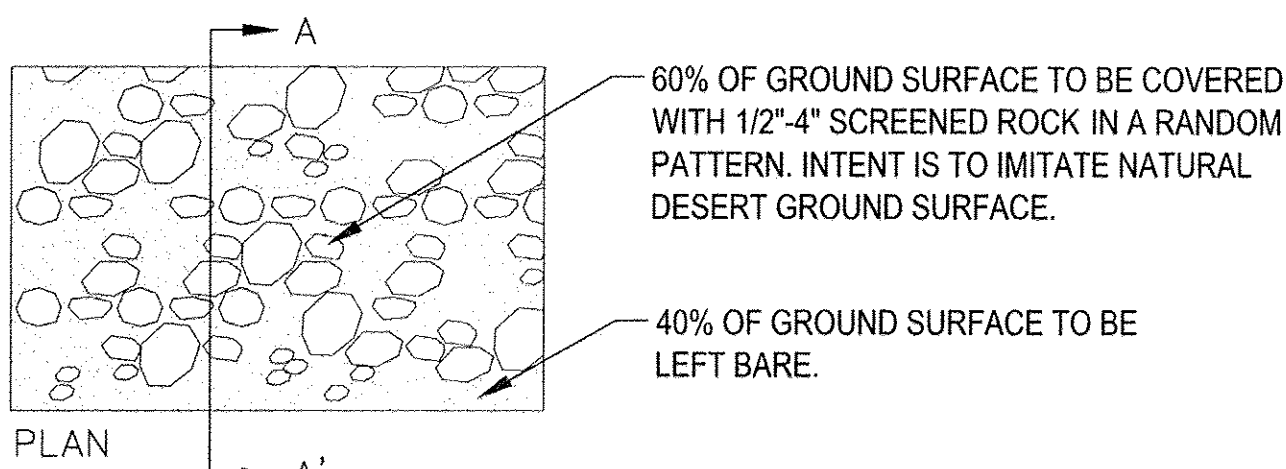
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- NOTES:**
1. PLANT TREES ON BASIN SLOPES. TREES ARE NOT TO BE PLANTED IN BASIN BOTTOMS WHERE THEY WILL BE SUBJECT TO INUNDATION.

13 WATER HARVESTING BASINS

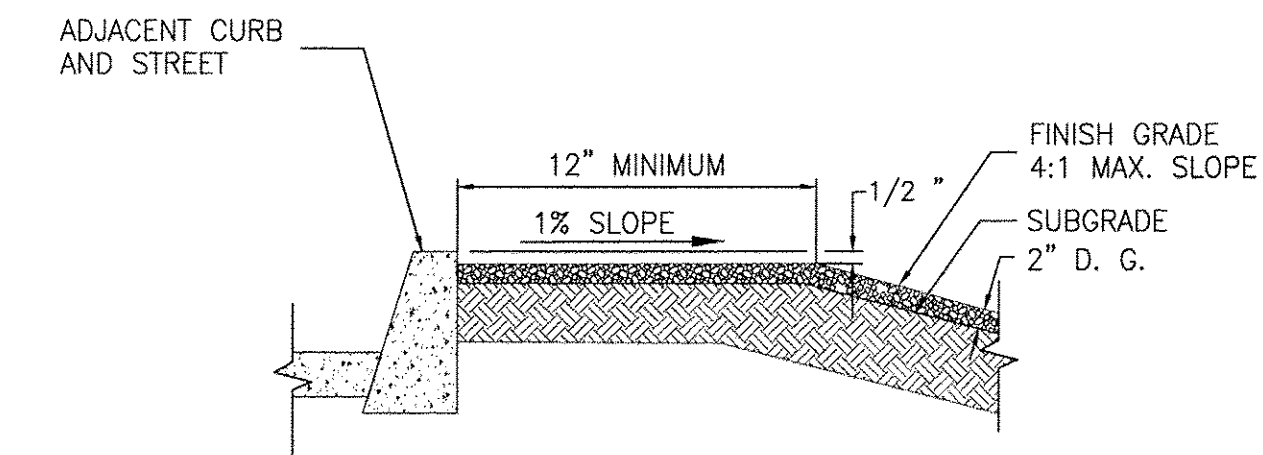
SCALE: NTS



- NOTES:**
1. NO PRE-EMERGENT HERBICIDES TO BE USED IN SEEDED AREAS.
 2. GROUND SURFACE TO BE PREPARED FOR HYDRO SEEDING.
 3. SEEDING TO BE APPLIED AFTER APPLICATION OF 1/2-4" SCREENED ROCK.

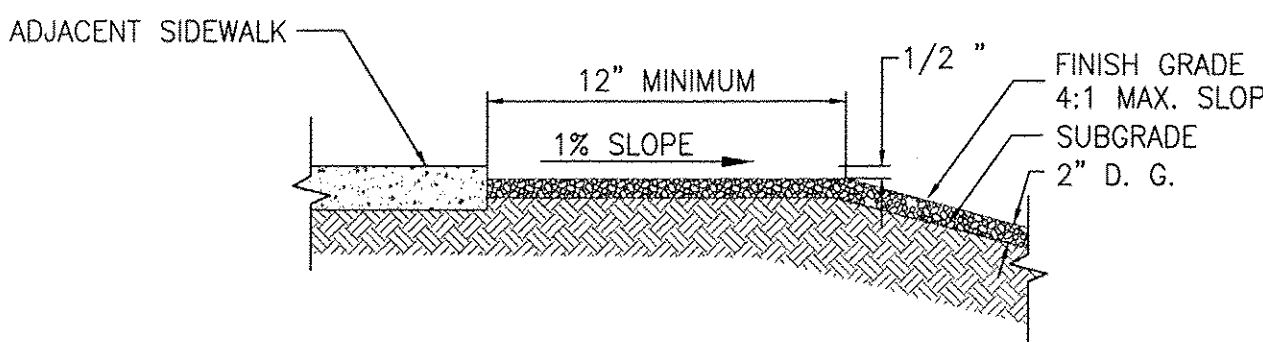
14 SEED MIX WITH DECORATIVE ROCK

SCALE: NTS



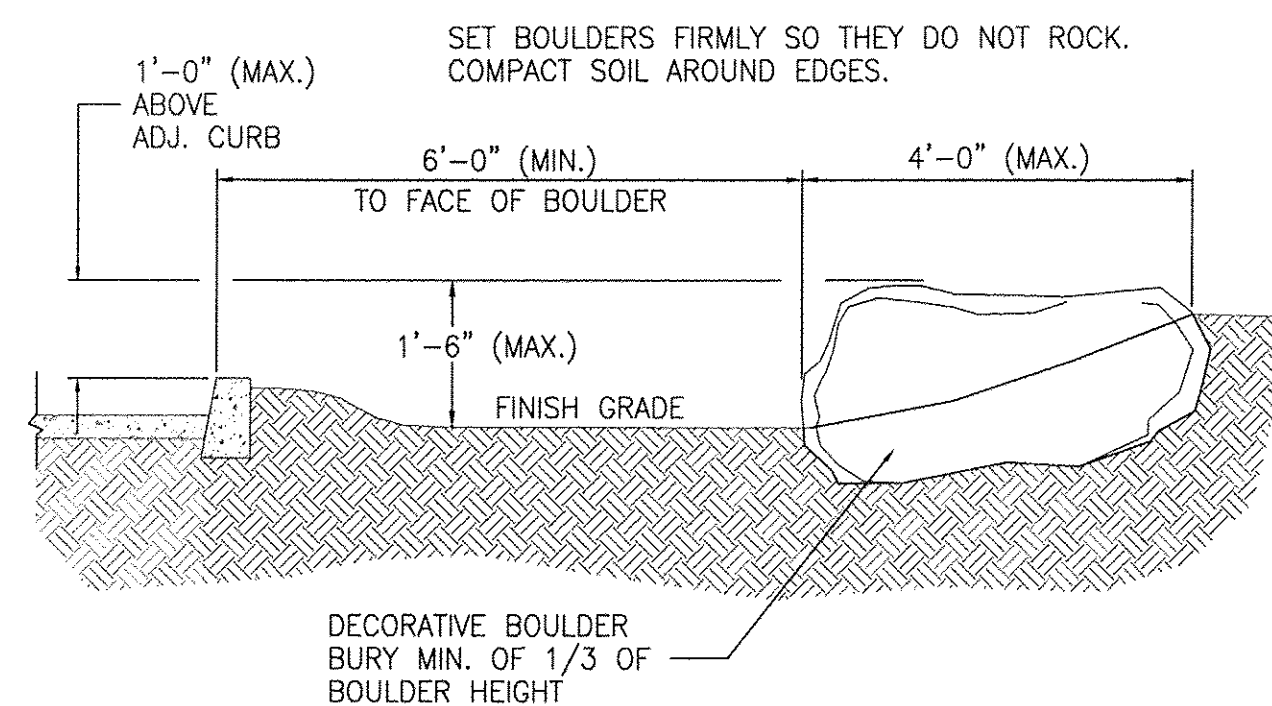
8 TYP. CURB-FIN. GRADE W/ DECOMPOSED GRANITE

SCALE: NTS C.O.T. STD. DETAIL



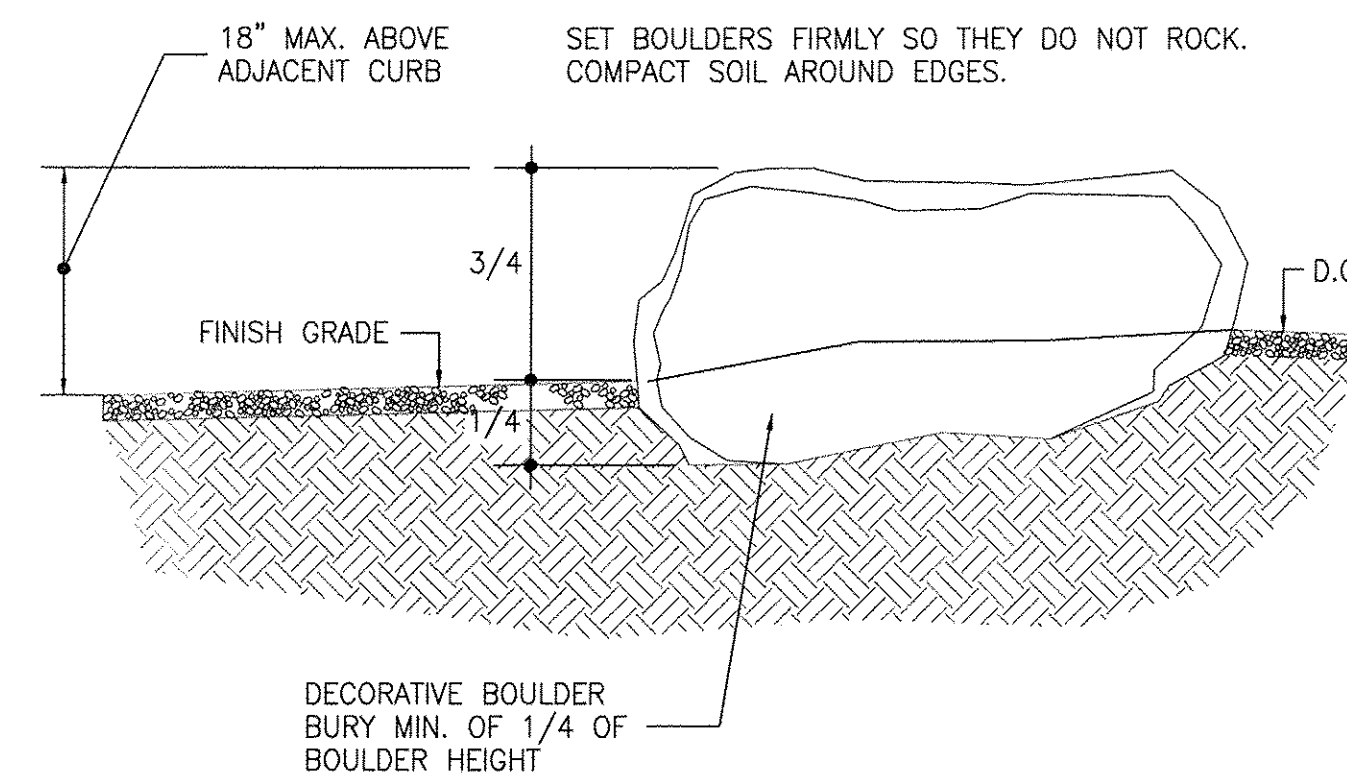
9 TYP. SIDEWALK-FIN. GRADE W/ DECOMPOSED GRANITE

SCALE: NTS C.O.T. STD. DETAIL



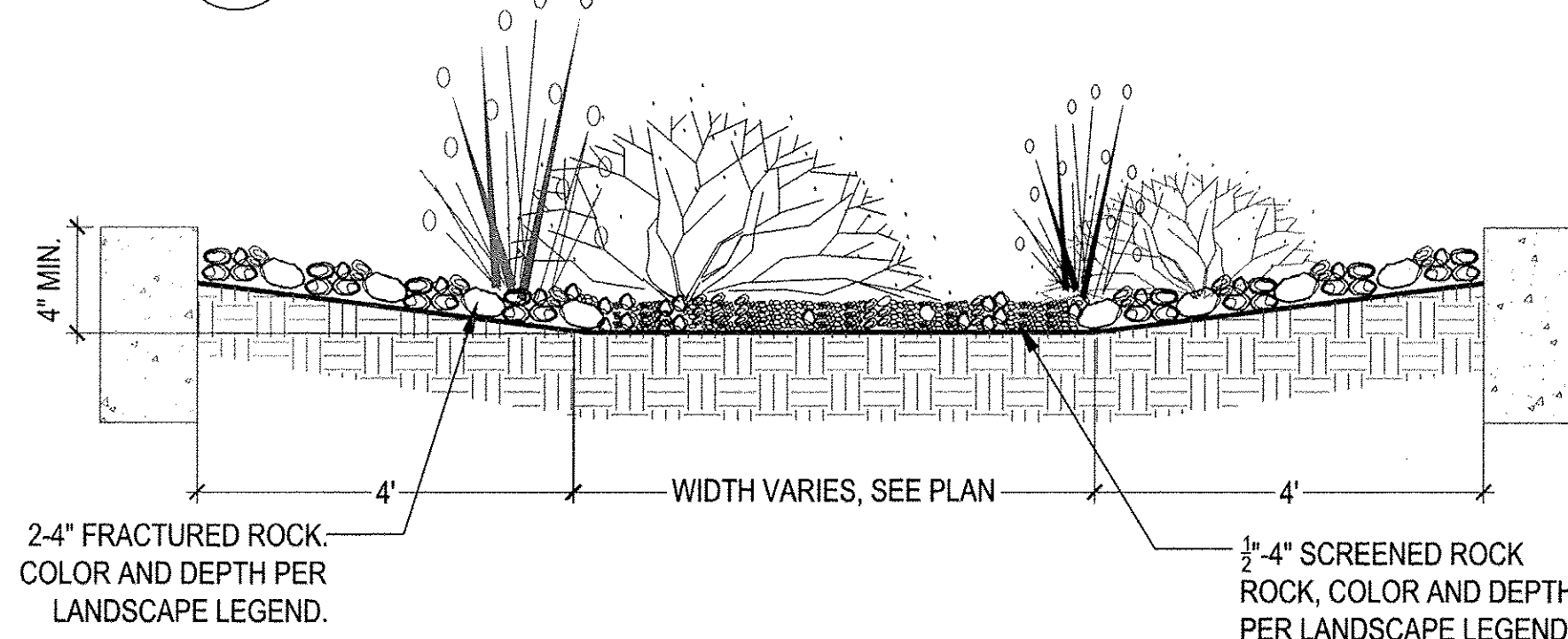
10 DECORATIVE BOULDER

SCALE: NTS C.O.T. STD. DETAIL



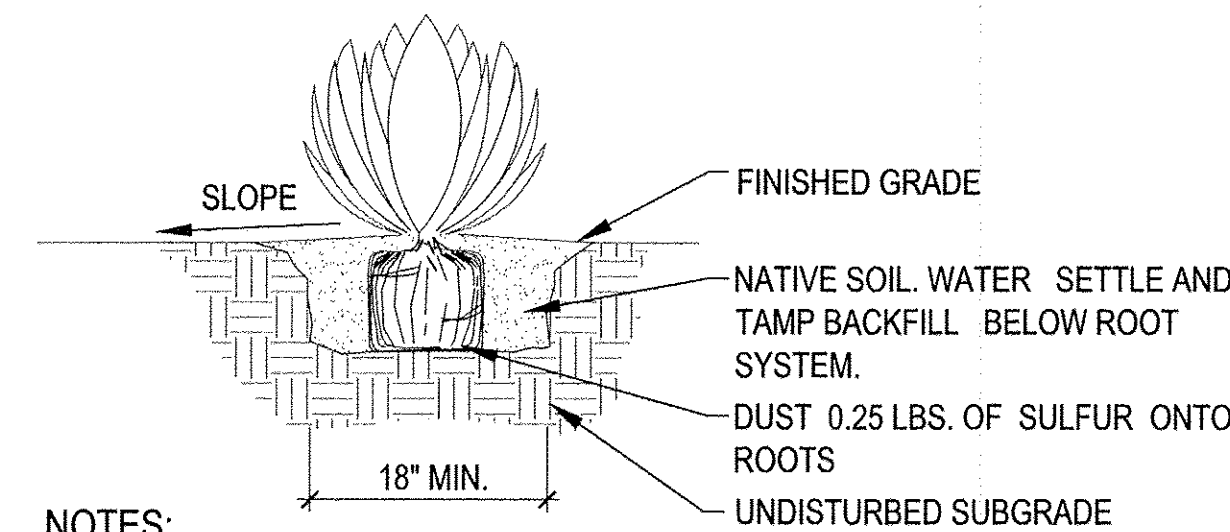
11 DECORATIVE BOULDER

SCALE: NTS C.O.T. STD. DETAIL



12 LANDSCAPED MEDIANS

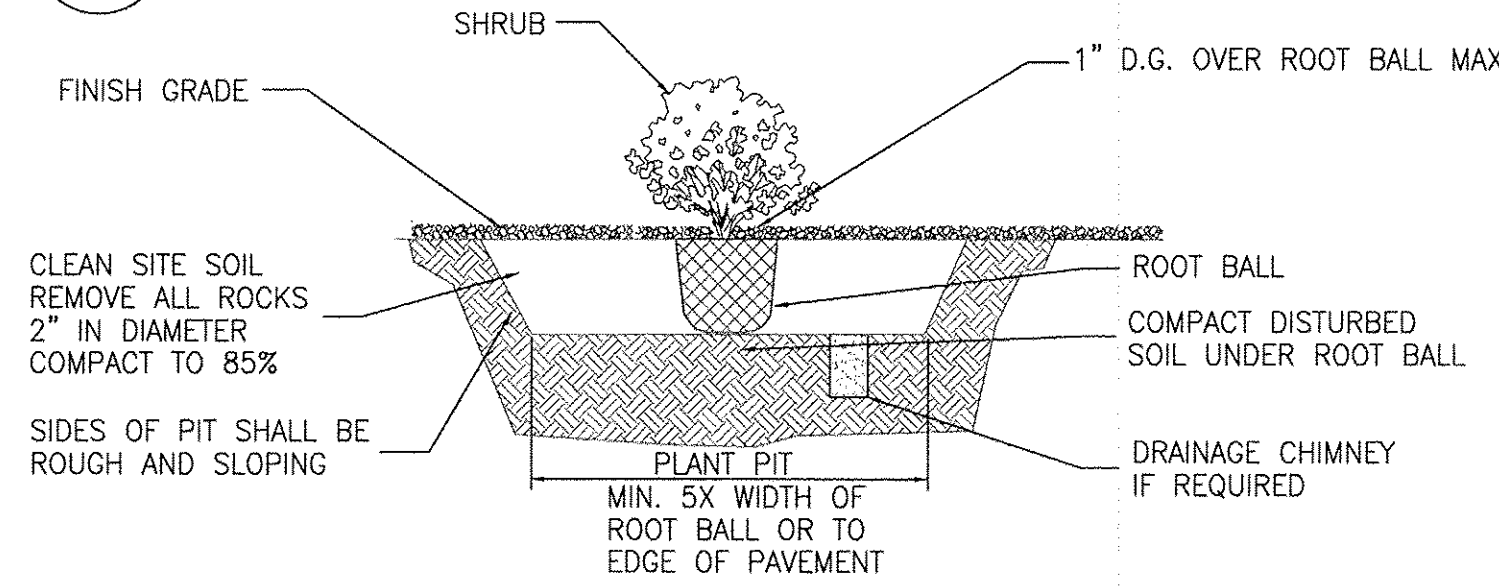
SCALE: NTS



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

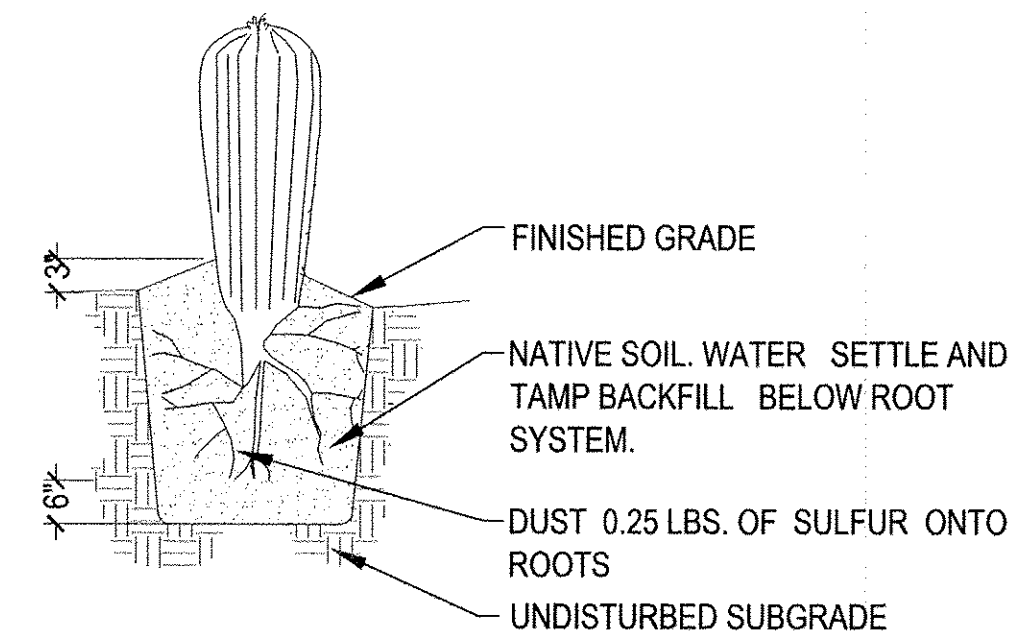
3 ACCENT/BARREL CACTI PLANTING

SCALE: NTS



4 SHRUB PLANTING: 1 & 5 GALLON SIZE

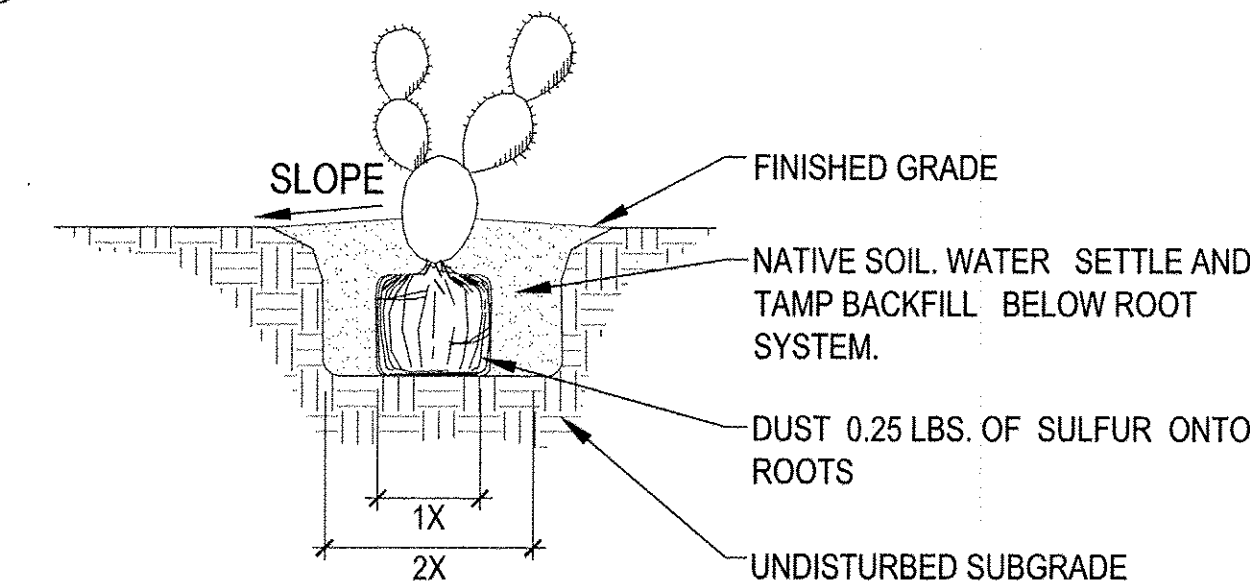
SCALE: NTS C.O.T. STD. DETAIL



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

5 BARREL/SAGUARO CACTUS PLANTING

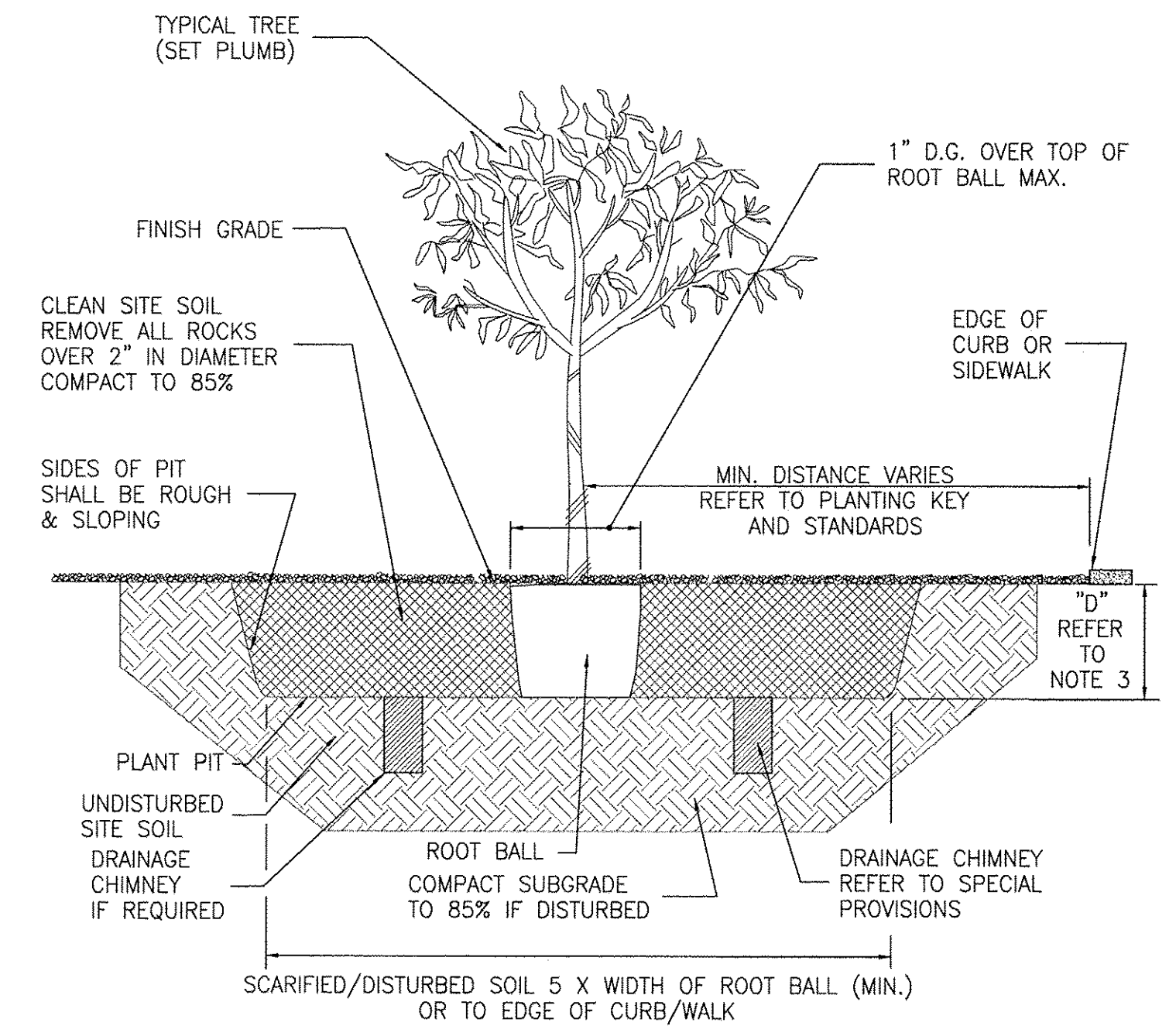
SCALE: NTS



- NOTES:**
1. DO NOT CREATE BASIN AT BASE OF CACTUS. SLOPE BACKFILL AWAY FROM PLANT.

6 PRICKLY PEAR PLANTING

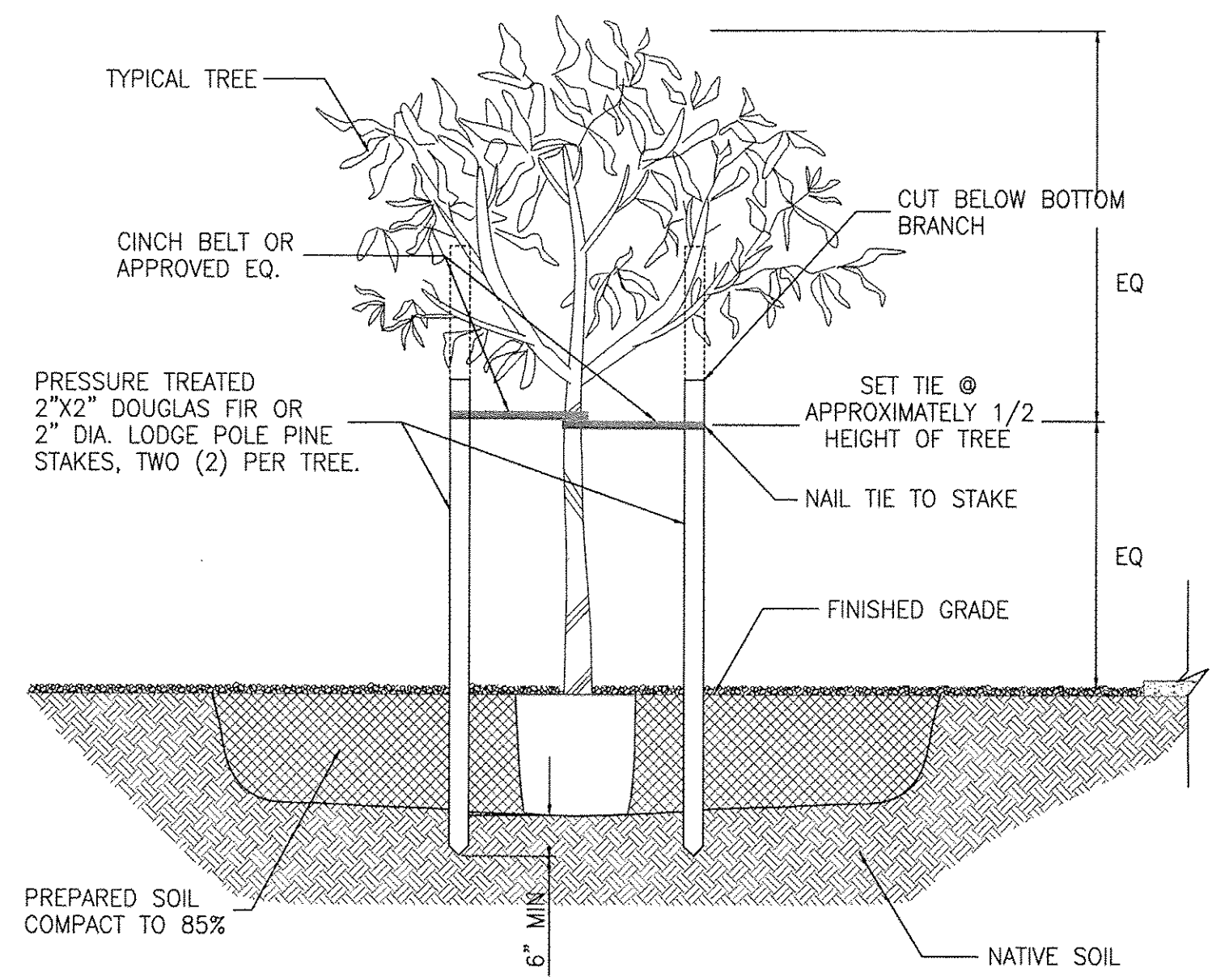
SCALE: NTS



- NOTES:**
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.

1 TREE PLANTING DETAIL

SCALE: NTS C.O.T. STD. DETAIL



- NOTES:**
1. NO PLANTS SHALL BE PRUNED EXCEPT @ THE DIRECTION OF THE COT REPRESENTATIVE
 2. STAKE TREE ONLY IF NEEDED, PER DIRECTION OF COT REPRESENTATIVE
 3. SET STAKES PARALLEL TO SIDEWALK AND STREET

2 TREE STAKING DETAIL

SCALE: NTS C.O.T. STD. DETAIL

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REGISTERED LANDSCAPE ARCHITECT

JASON ROBERT KUKLINSKI

ARIZONA, U.S.A.

EXPIRES 3/31/16

LANDSCAPE DETAILS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD

TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: NA	173
DSGN. BY HU	12/14		V: N/A	OF
CHKD. BY JK	12/14	PLAN NO. I-2009-029		189

NORRIS DESIGN

Planning • Landscape Architecture

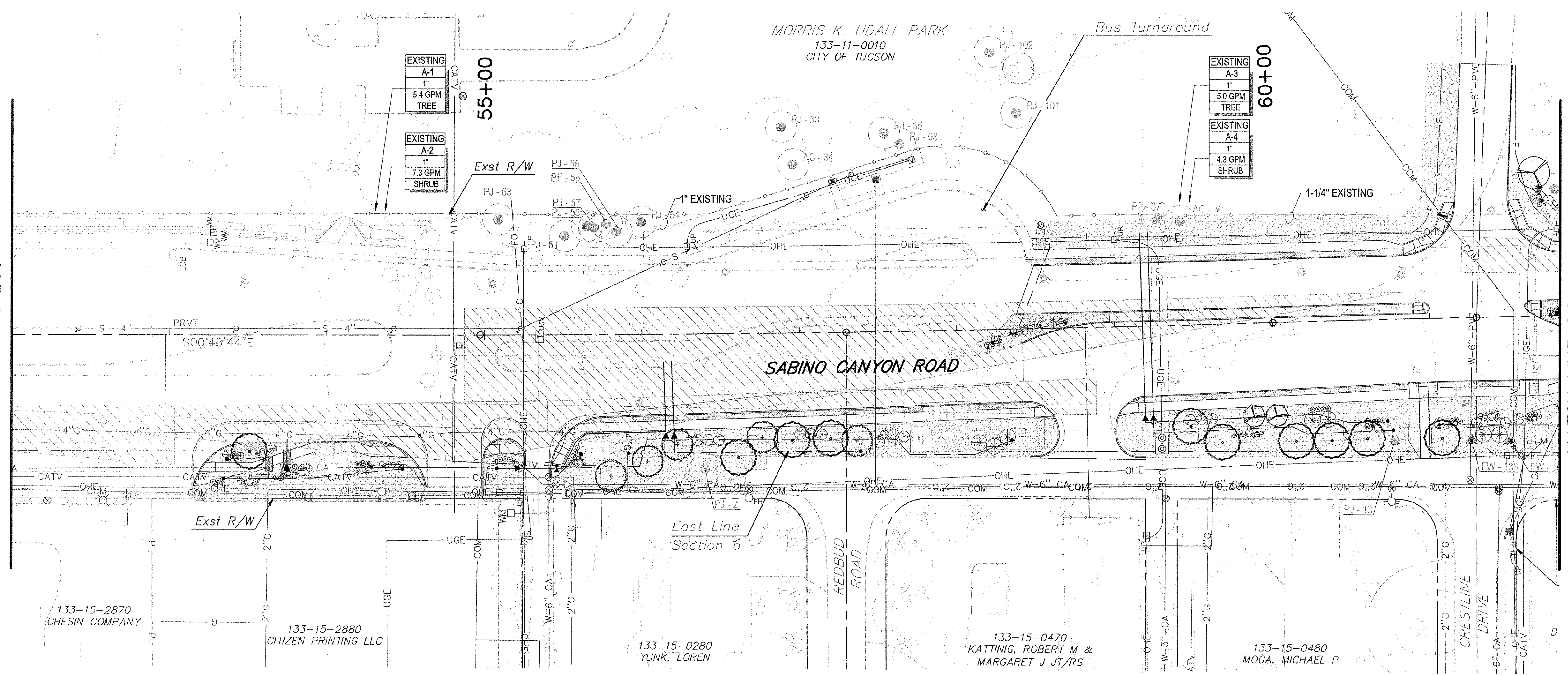
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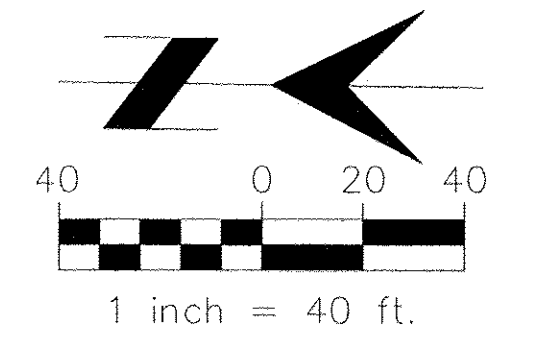
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STA 52+00
BEGIN PROJECT



MATCH LINE STA 61+00
SEE SHEET IP2



IRRIGATION LEGEND

SYM.	EQUIPMENT DESCRIPTION	COMMENTS
POC	Irrigation Point of Connection, 2" Sch. 40 PVC Stub downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer Existing 1" Water Meter	See Sheet 134 Station 62 + 30
EX. NEW	Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12W X 24H X 40L	
	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 1" Rain Bird PEB - LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1" NIBCO T-580 Bronze Ball Valve 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh API Agricultural Products 4E - Spin Clean Filter	Detail 3, Sheet IP5 Or Approved Equal Or Approved Equal Or Approved Equal
	Senninger Pressure Regulator PMR-LF-25 3/4" LF 2-25 GPM	Detail 5, Sheet IP5 Or Approved Equal
	Watts WGV THD Bronze Gate Valve Size - Per line size	Detail 4, Sheet IP5
	Sleeve - Sch. 40 PVC Separate sleeves shall be installed for irrigation pipe and control	Detail 2, Sheet IP5
	1-1/4" Main Line - Sch. 40 PVC - Size per Plan 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.	Detail 1, Sheet IP5
	Lateral Flush End Cap In 6" round box - Color: Tan	Detail 10, Sheet IP5

*NOTE: THE ABBREVIATION EX. = EXISTING

VALVE CALLOUT

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

SLEEVE CALLOUT

- ← Sleeve Size
- X' XX' ← 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 - Multi-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.

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.

IRRIGATION PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	IP1
DSGN. BY HU	12/14		V: NA	OF
CHKD. BY JK	12/14	PLAN NO. I-2009-029		174
				OF
				189

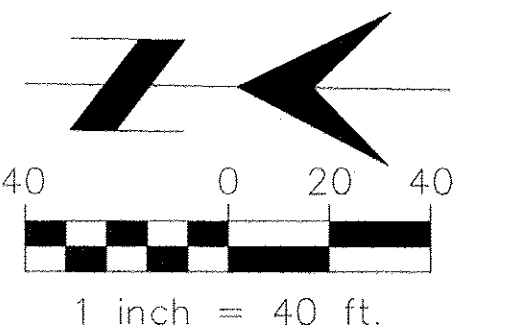
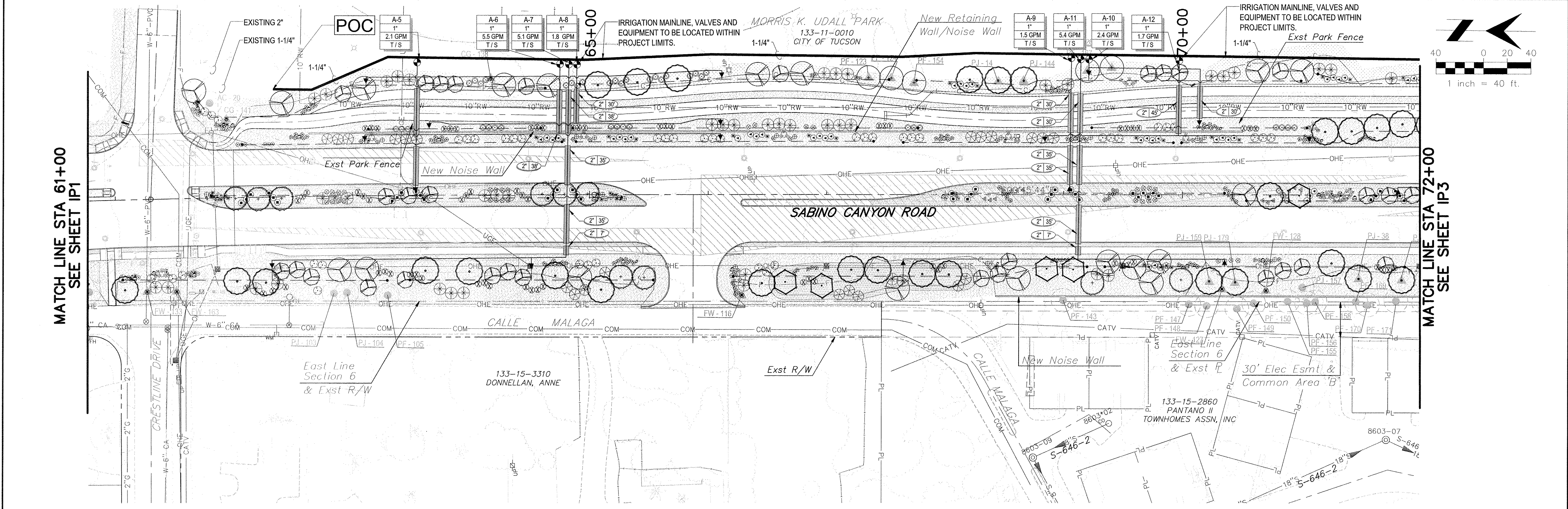
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PSOMAS
333 E. Wilmore Road, Suite 450
Tucson, AZ 85719
(520) 292-2300 (520) 292-1290 fax
www.psomas.com

REGISTERED LANDSCAPE ARCHITECT
JASON ROBERT KUKLINSKI
State of Arizona, License No. 10000
EXPIRES 3/31/16

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Ph: 520.622.9665 norris-design.com

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCH LINE STA 61+00
SEE SHEET IP1

MATCH LINE STA 72+00
SEE SHEET IP3

IRRIGATION LEGEND		
SYM.	EQUIPMENT DESCRIPTION	COMMENTS
POC	Irrigation Point of Connection, 2" Sch. 40 PVC Stub downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer Existing 1" Water Meter	See Sheet 134 Station 62 + 30
EX.	Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12W X 24H X 40L	
EX.	Existing DIG LEIT XRC, 16 Stations, Solar Controller w/ Master Valve capability	
EX.	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.	Drip Valve Assembly 1" Rain Bird PEB - LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1" NIBCO T-580 Bronze Ball Valve 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh API Agricultural Products 4E - Spin Clean Filter	Detail 3, Sheet IP5 Or Approved Equal Or Approved Equal Or Approved Equal
EX.	Senninger Pressure Regulator PMR-LF-25 3/4" LF 2-25 GPM	Detail 5, Sheet IP5 Or Approved Equal
EX.	Watts WGV THD Bronze Gate Valve Size - Per line size	Detail 4, Sheet IP5
EX.	Sleeve - Sch. 40 PVC Separate sleeves shall be installed for irrigation pipe and control	Detail 2, Sheet IP5
EX.	1-1/4" Main Line - Sch. 40 PVC - Size per Plan	Detail 1, Sheet IP5
EX.	1" Lateral line - Sch. 40 PVC.	Detail 1, Sheet IP5
EX.	3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter - See Emitter Schedule this Sheet.	Detail 1, Sheet IP5
EX.	Lateral Flush End Cap In 6" round box - Color: Tan	Detail 10, Sheet IP5

*NOTE: THE ABBREVIATION EX. = EXISTING

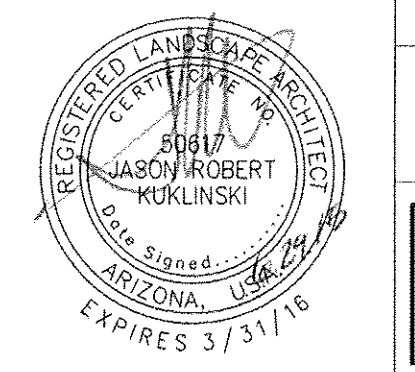
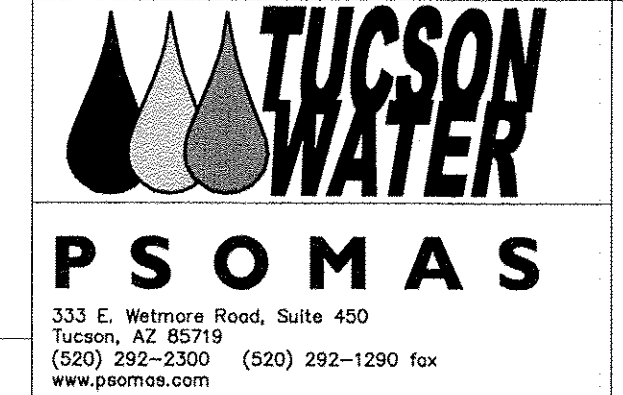
VALVE CALLOUT	
A-1	Controller and Valve Number
1"	Valve Size
X GPM	Valve Flow
TREE	Zone Designation (Trees, Shrubs)

SLEEVE CALLOUT	
XX"	Sleeve Size
X'XX"	Approx. Length of Sleeve
	*Note: Existing Sleeves not labeled

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.

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 - Multi-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 AN 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.



IRRIGATION PLANS

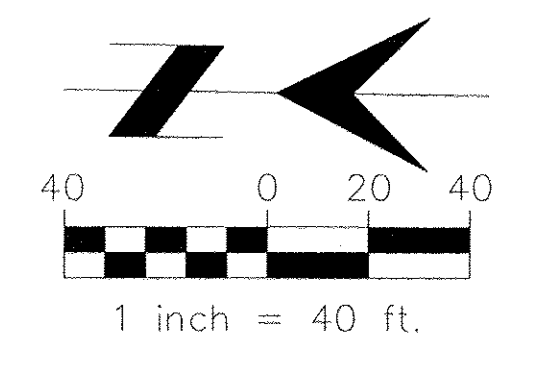
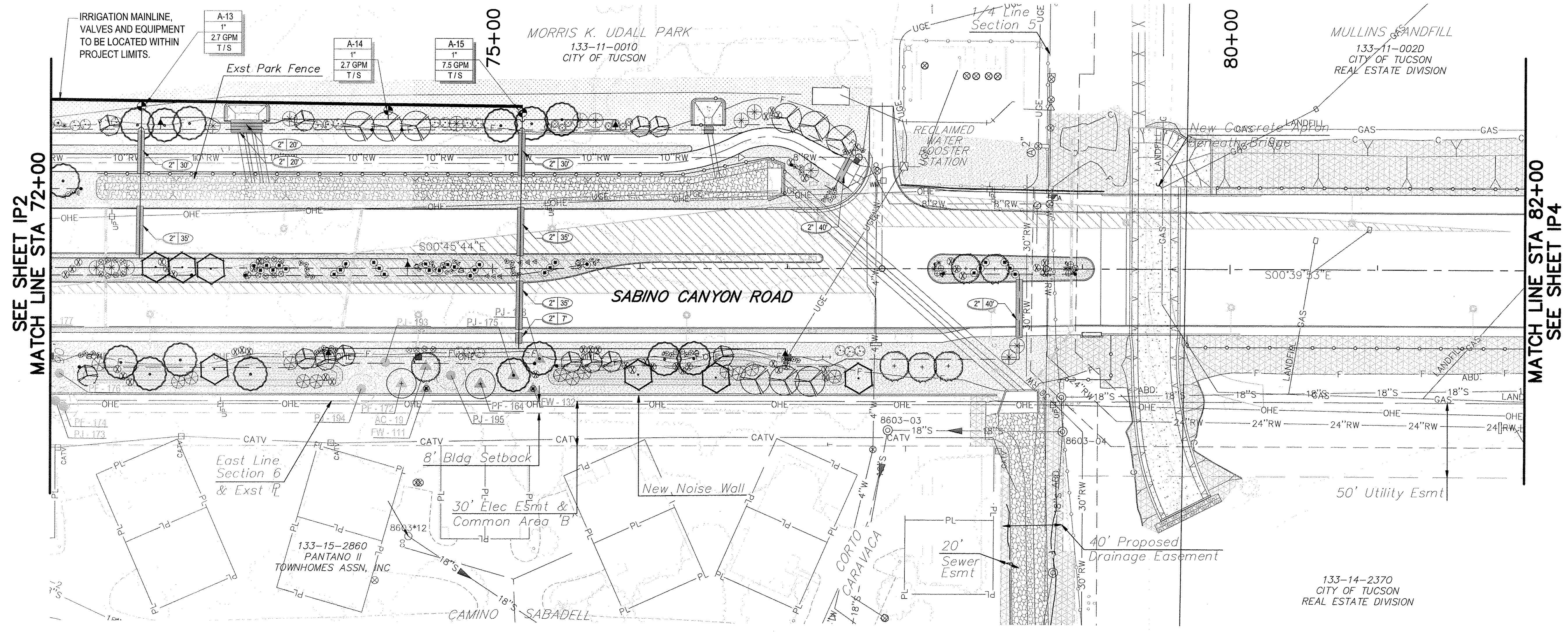
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	IP2 OF IP5 175 OF 189
DSGN. BY HU	12/14		V: NA	
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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SEE SHEET IP2
MATCH LINE STA 72+00

MATCH LINE STA 82+00
SEE SHEET IP4

IRRIGATION LEGEND

SYM.	EQUIPMENT DESCRIPTION	COMMENTS
POC	Irrigation Point of Connection, 2" Sch. 40 PVC Stub downstream from Existing 1" Potable Water and Existing 1" Backflow Preventer Existing 1" Water Meter	See Sheet 134 Station 62 + 30
	Existing 1" Febco 825Y Reduced Pressure Backflow Preventer Security Enclosure - GuardShack GS-3 12W X 24H X 40L	
	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 1" Rain Bird PEB - LEMA 1600 HE Micro Power Solenoid & 30-920 Adapter 1" NIBCO T-580 Bronze Ball Valve 1" MPT w/ MHT Flush & Cap - Red 200 SS Mesh API Agricultural Products 4E - Spin Clean Filter	Detail 3, Sheet IP5 Or Approved Equal Or Approved Equal Or Approved Equal
▲	Senninger Pressure Regulator PMR-LF-25 3/4" LF 2-25 GPM	Detail 5, Sheet IP5 Or Approved Equal
▼	Watts WGV THD Bronze Gate Valve Size - Per line size	Detail 4, Sheet IP5
▬	Sleeve - Sch. 40 PVC Separate sleeves shall be installed for irrigation pipe and control	Detail 2, Sheet IP5
—	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
---	3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter - See Emitter Schedule this Sheet.	Detail 1, Sheet IP5
---	Lateral Flush End Cap In 6" round box - Color: Tan	Detail 10, Sheet IP5

*NOTE: THE ABBREVIATION EX. = EXISTING

VALVE CALLOUT

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

SLEEVE CALLOUT

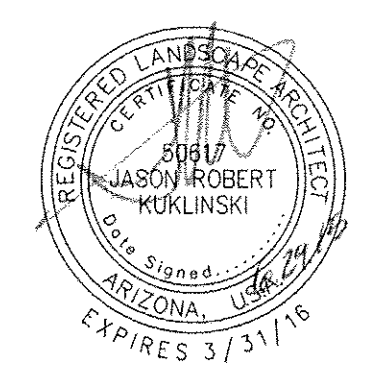
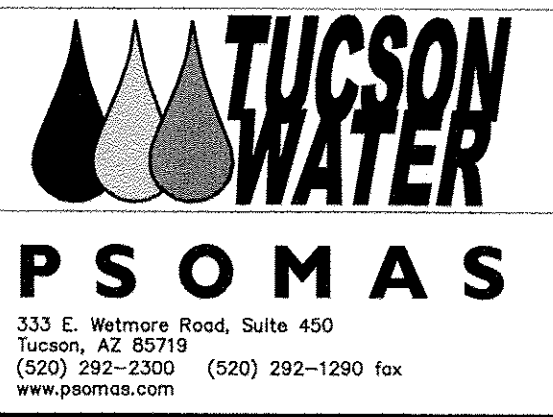
- ← Sleeve Size
 - X" XX' ← Approx. Length of Sleeve
- *Note: Existing Sleeves not labeled

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 - Multi-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.



NO.	DATE	REVISION	BY	CHKD.	APPR.



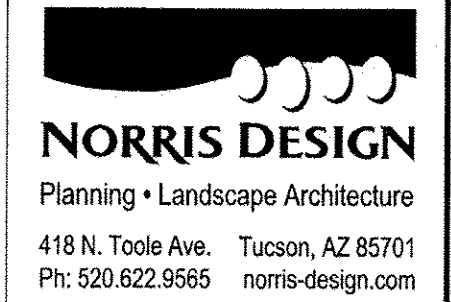
IRRIGATION PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

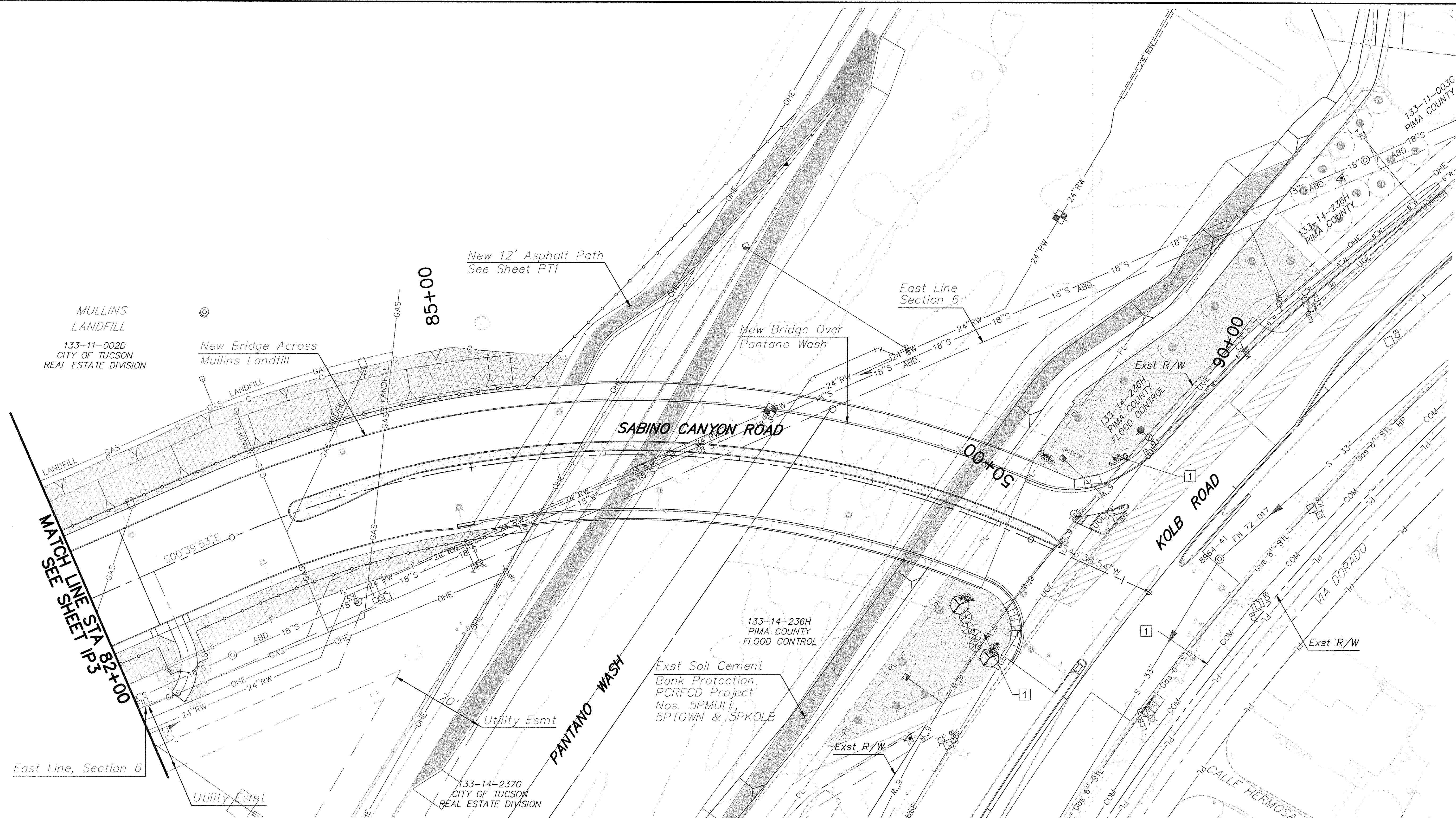
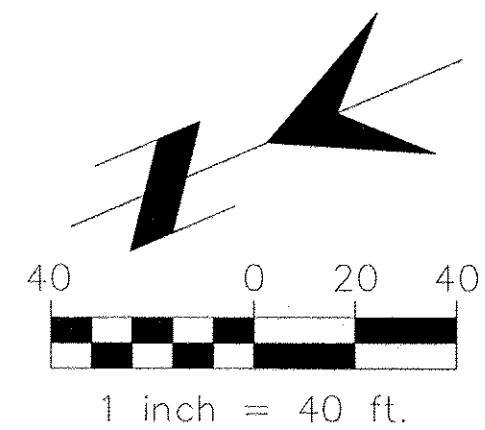
SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

DRWN. BY HU	12/14	REF.	SCALE: H: 1"=40'	IP3 OF IP5 176 OF 189
DSGN. BY HU	12/14		V: NA	
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

CITY OF TUCSON



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IRRIGATION LEGEND

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

IRRIGATION LEGEND

SYM.	EQUIPMENT DESCRIPTION	COMMENTS
▲	Senninger Pressure Regulator PMR-LF-25	Detail 5, Sheet IP5
3/4"	LF 2-25 GPM	Or Approved Equal
W	Watts WGV THD Bronze Gate Valve	Detail 4, Sheet IP5
Size - Per line size		
S	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
---	3/4" Sch. 40 PVC w/ Rainbird Multi-outlet Emitter -	Detail 1, Sheet IP5
	See Emitter Schedule this Sheet.	
---	Lateral Flush End Cap In 6" round box - Color: Tan	Detail 10, Sheet IP5

*NOTE: THE ABBREVIATION EX. = EXISTING

VALVE CALLOUT

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

SLEEVE CALLOUT

- Sleeve Size
- X' XX' — 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 - Multi-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.

EXISTING IRRIGATION POINT OF CONNECTION

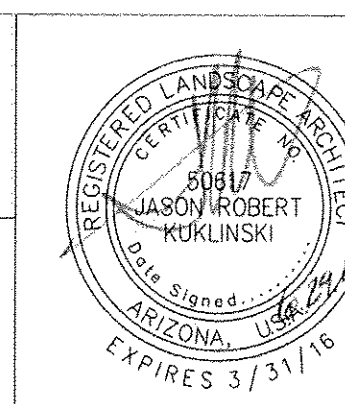
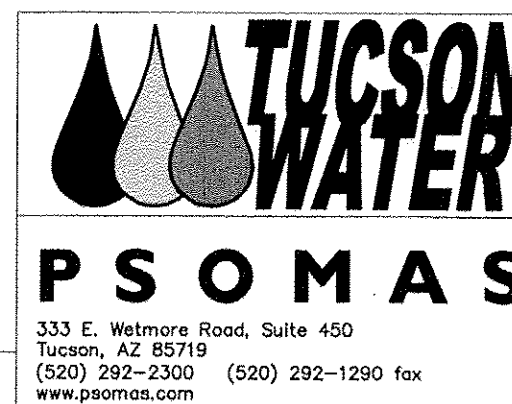
1 THE CONTRACTOR SHALL COORDINATE WITH THE TDOT "STREETS SECTION" TO PROVIDE IRRIGATION TO THE PLANT MATERIAL SHOWN ON THIS SHEET. TAP INTO EXISTING THE IRRIGATION SYSTEM ON THE EAST SIDE OF KOLB RD. TO IRRIGATE THE PLANTS ON AT THE CORNERS OF THE INTERSECTIONS. IRRIGATION FOR THE PLANTS ON THE WEST SIDE OF KOLB RD. SHALL BE THE EXISTING IRRIGATION SYSTEM LOCATED IN THE AREA. IF A IRRIGATION SOURCE IS NOT AVAILABLE INSTALL DRI - WATER PER THE MANUFACTURER'S RECOMMENDATIONS AND REPLACE AS DIRECTED THROUGH THE WARRANTY / GUARANTEE PERIOD.

EX. NEW



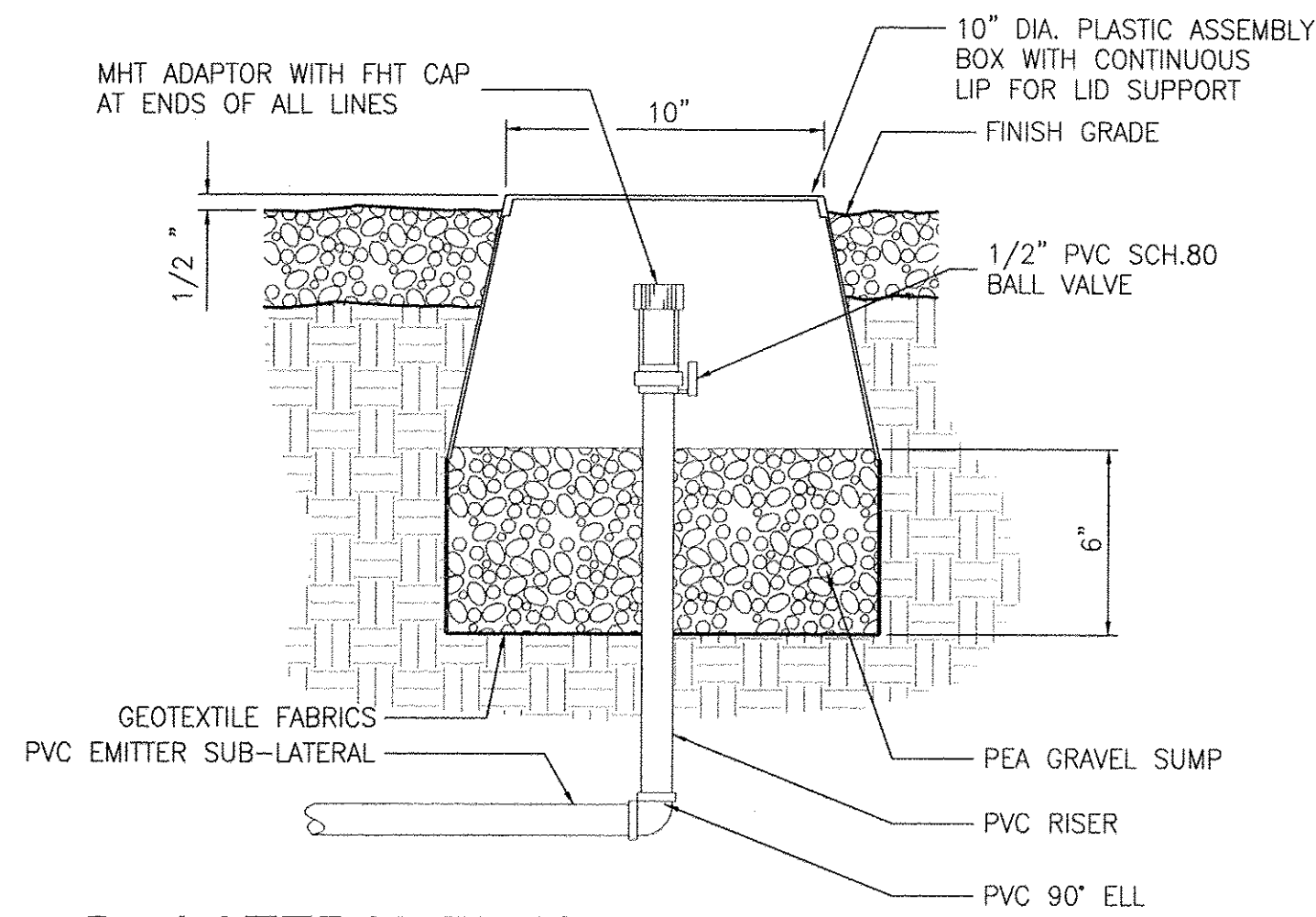
IRRIGATION PLANS

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION SABINO CANYON ROAD TANQUE VERDE ROAD TO KOLB ROAD		DRWN. BY HU 12/14 DSGN. BY HU 12/14 CHKD. BY JK 12/14	REF. SCALE: H: 1"=40' V: NA	IP4 OF IP5
				177 OF 189
CITY OF TUCSON		PLAN NO. I-2009-029		

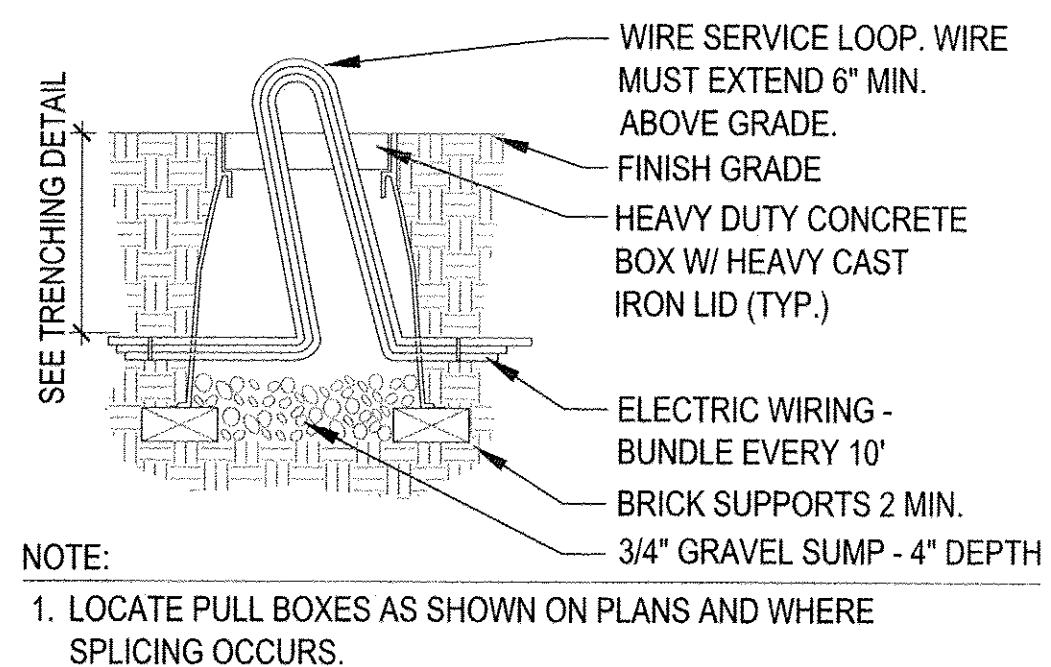


NO.	DATE	REVISION	BY	CHKD.	APPR.

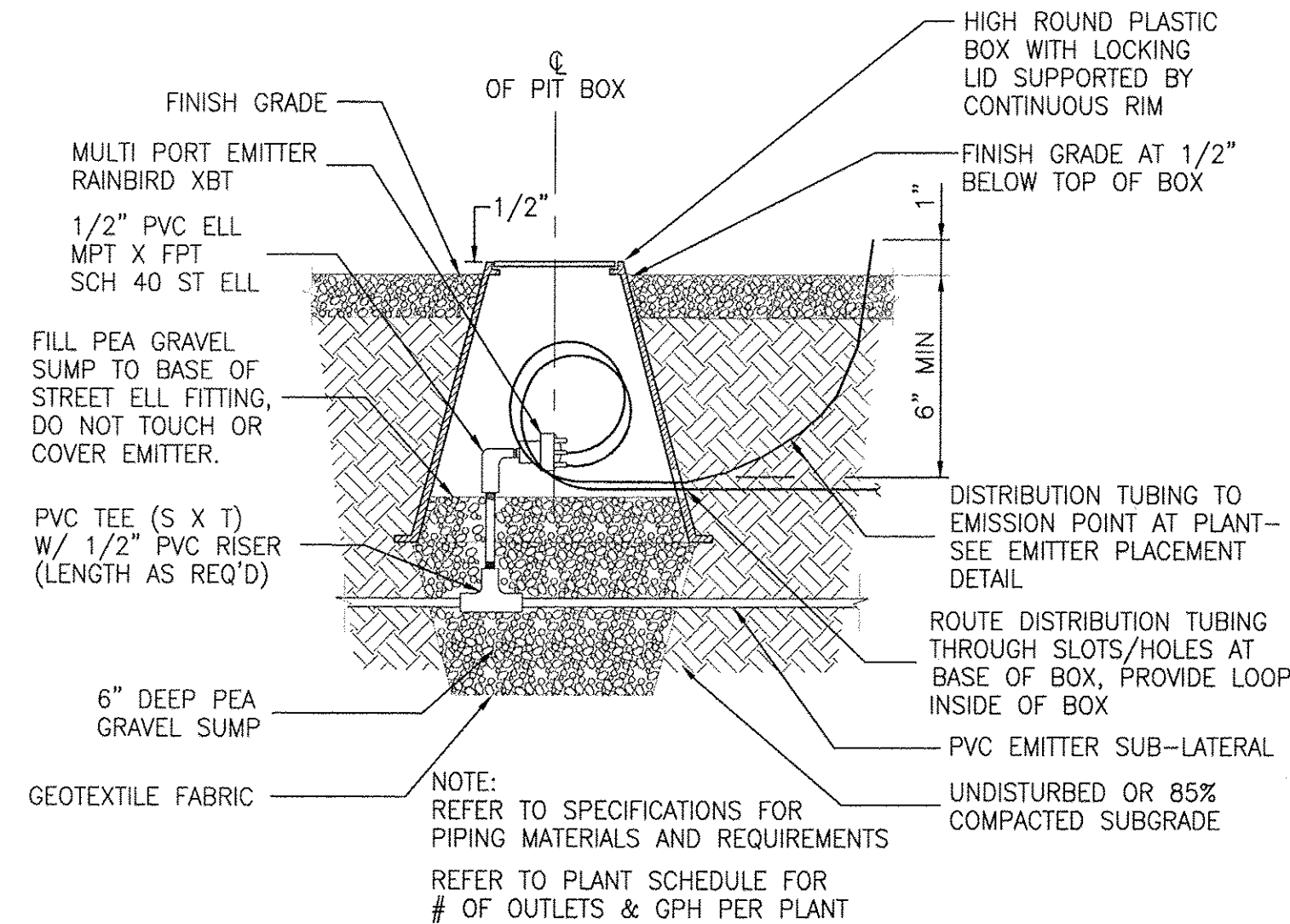
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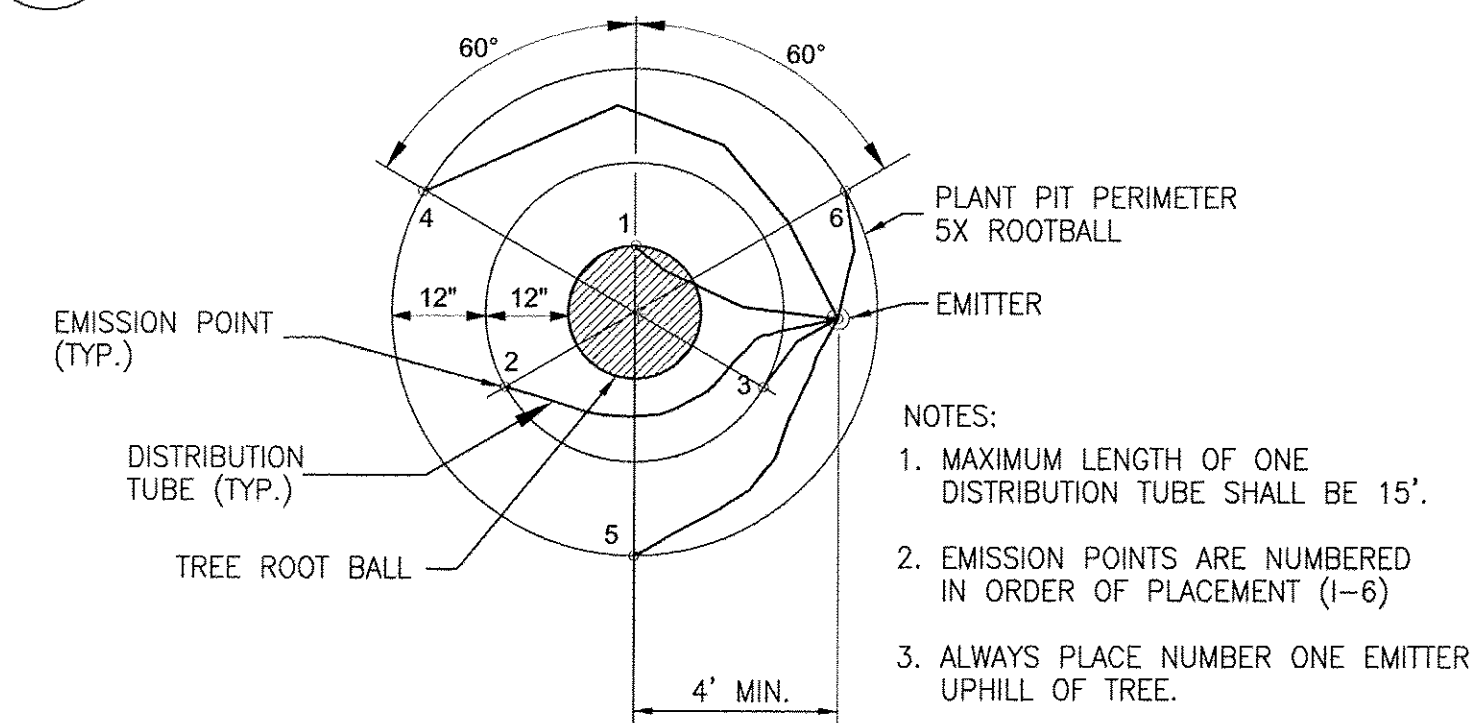
10 LATERAL FLUSH END CAP
SCALE: NTS C.O.T. STD. DETAIL



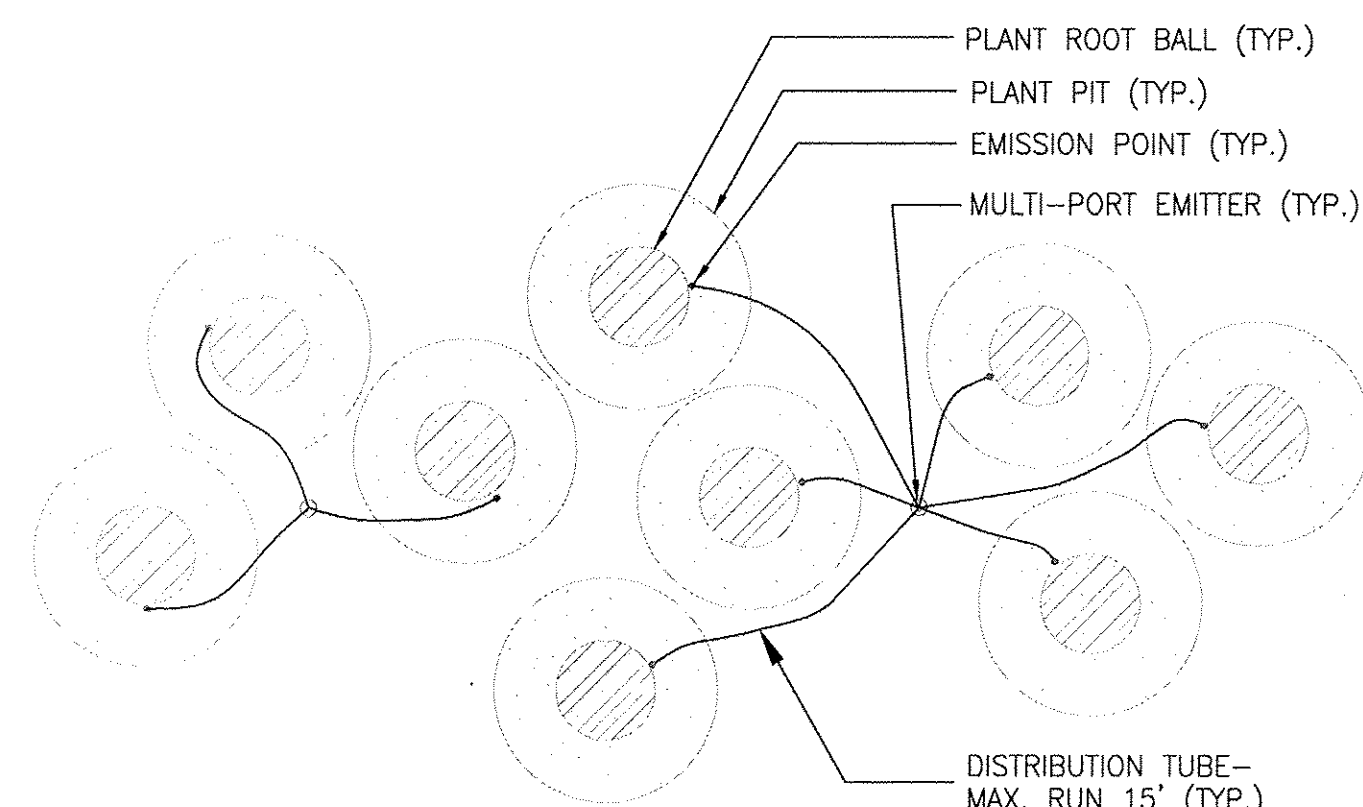
11 PULL BOX FOR 12 VOLT SYSTEMS
SCALE: NTS



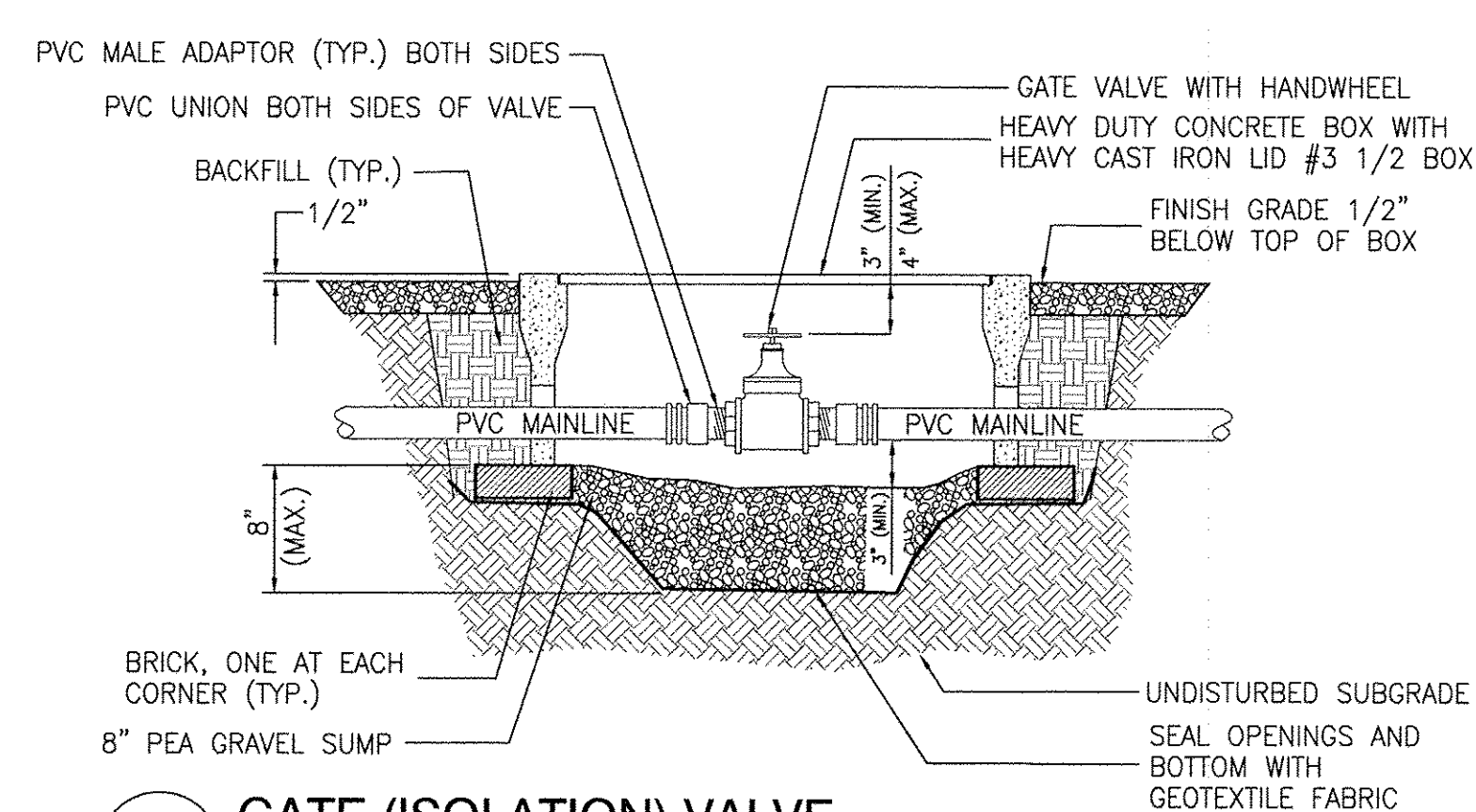
7 MULTI-OUTLET EMITTER ON PVC LATERAL
SCALE: NTS C.O.T. STD. DETAIL



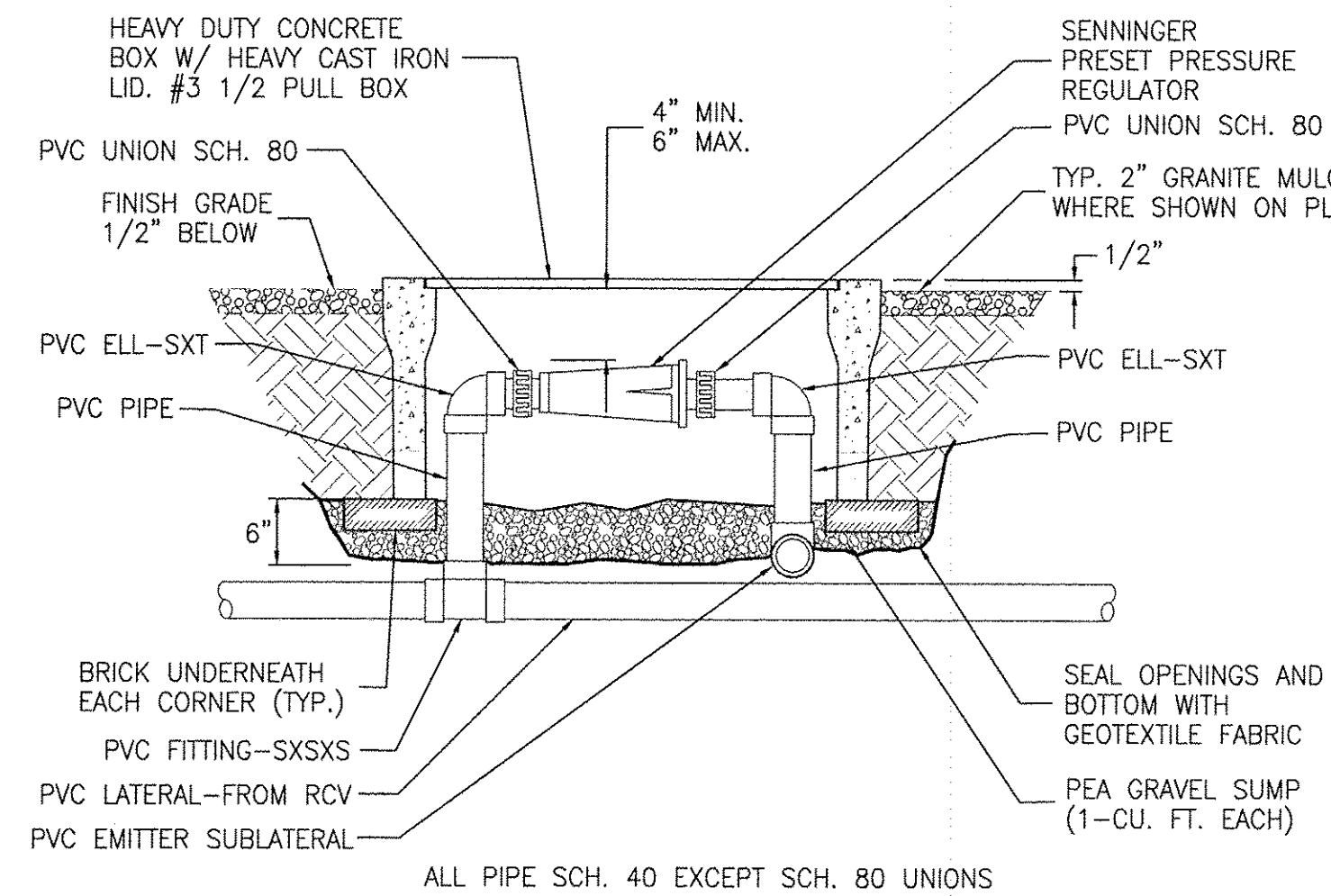
8 EMITTER LOCATION DETAIL-TREES
SCALE: NTS C.O.T. STD. DETAIL



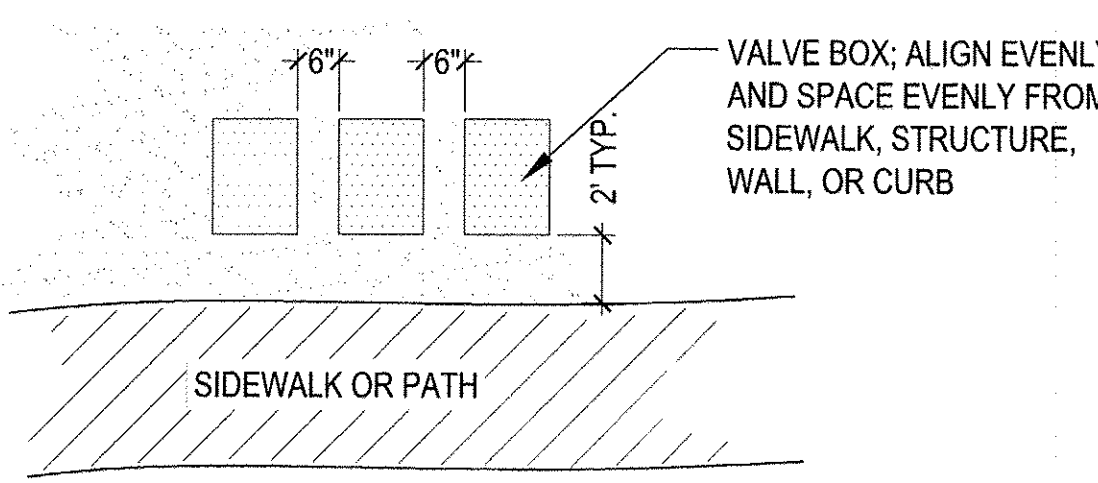
9 EMITTER LOCATION DETAIL-SHRUBS
SCALE: NTS C.O.T. STD. DETAIL



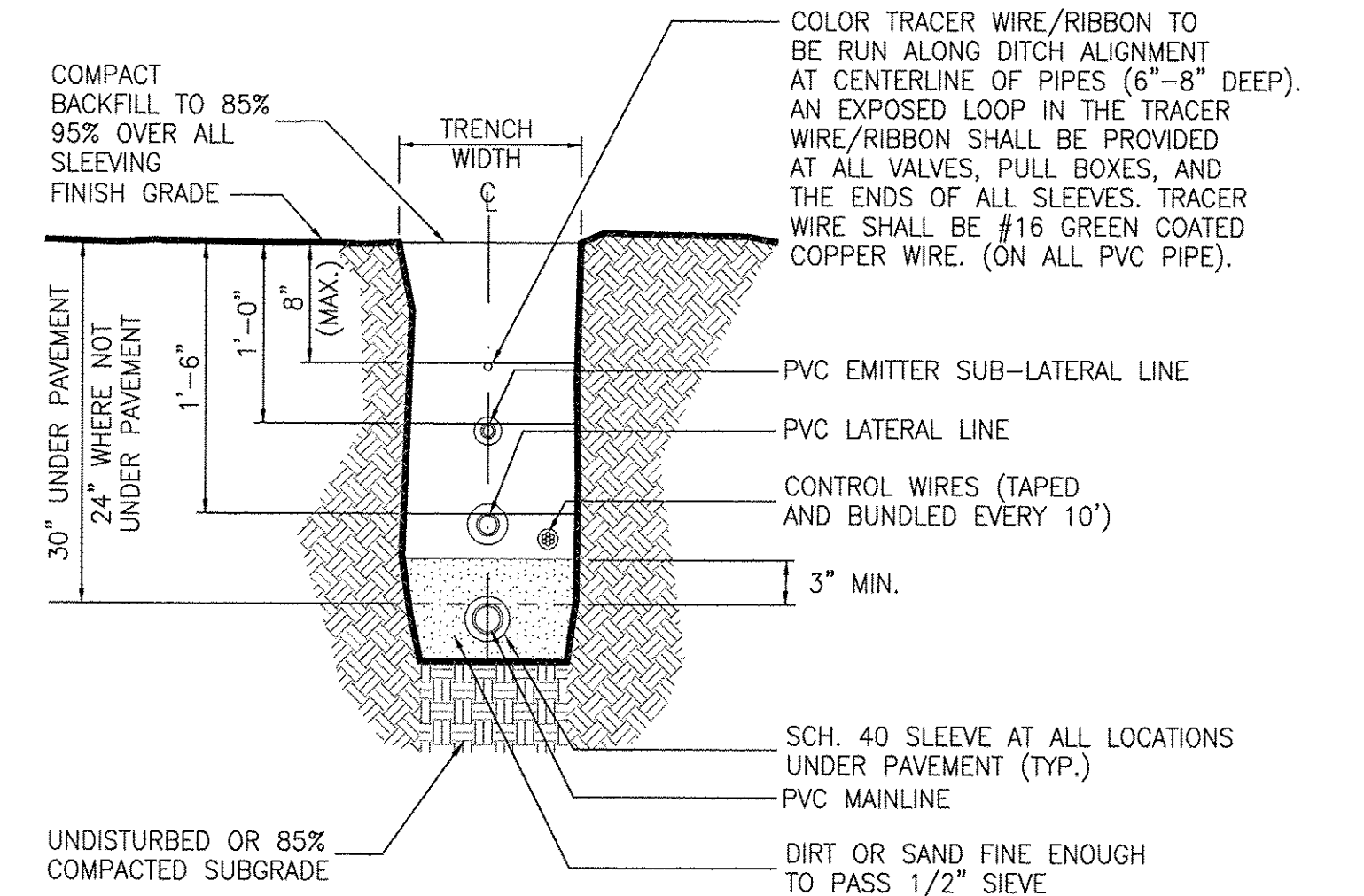
4 GATE (ISOLATION) VALVE
SCALE: NTS C.O.T. STD. DETAIL



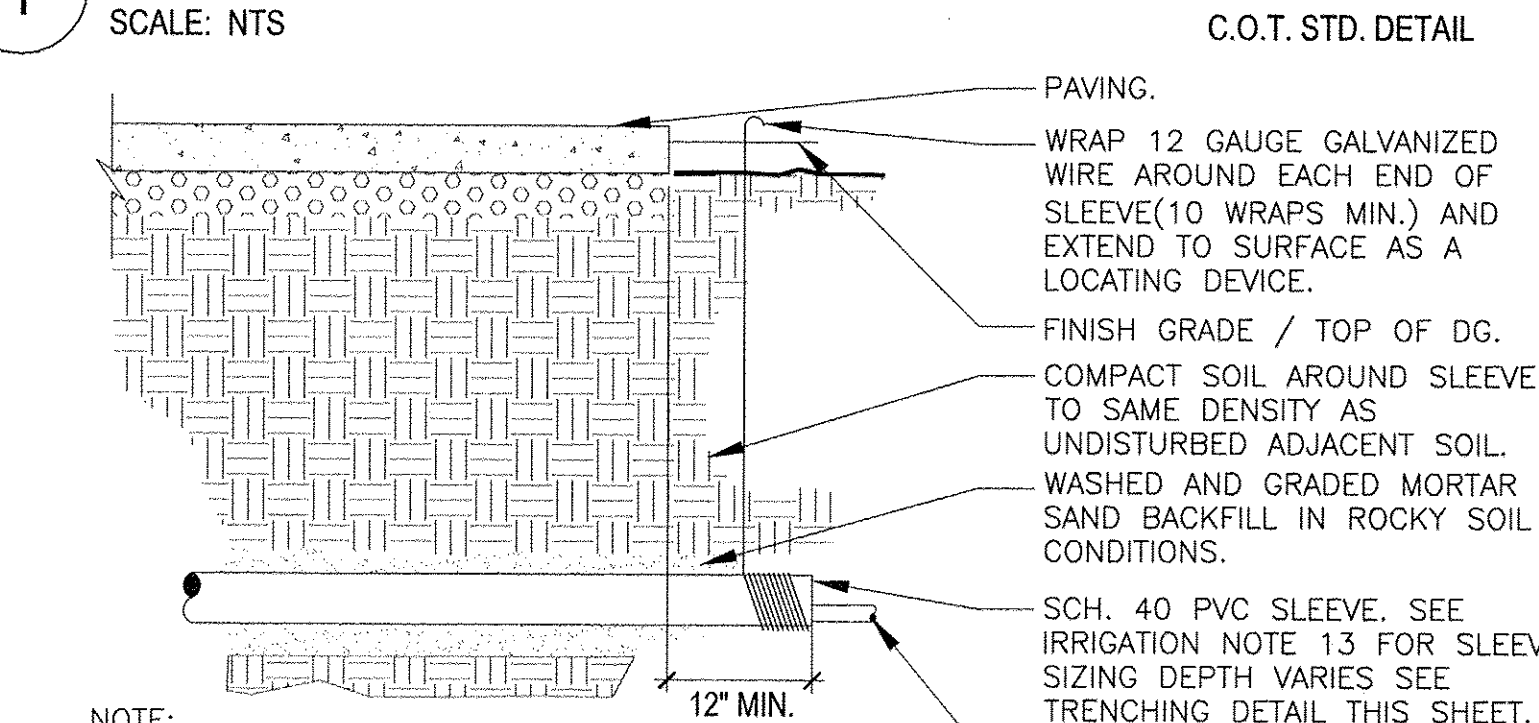
5 PRESSURE REGULATOR RISER
SCALE: NTS C.O.T. STD. DETAIL



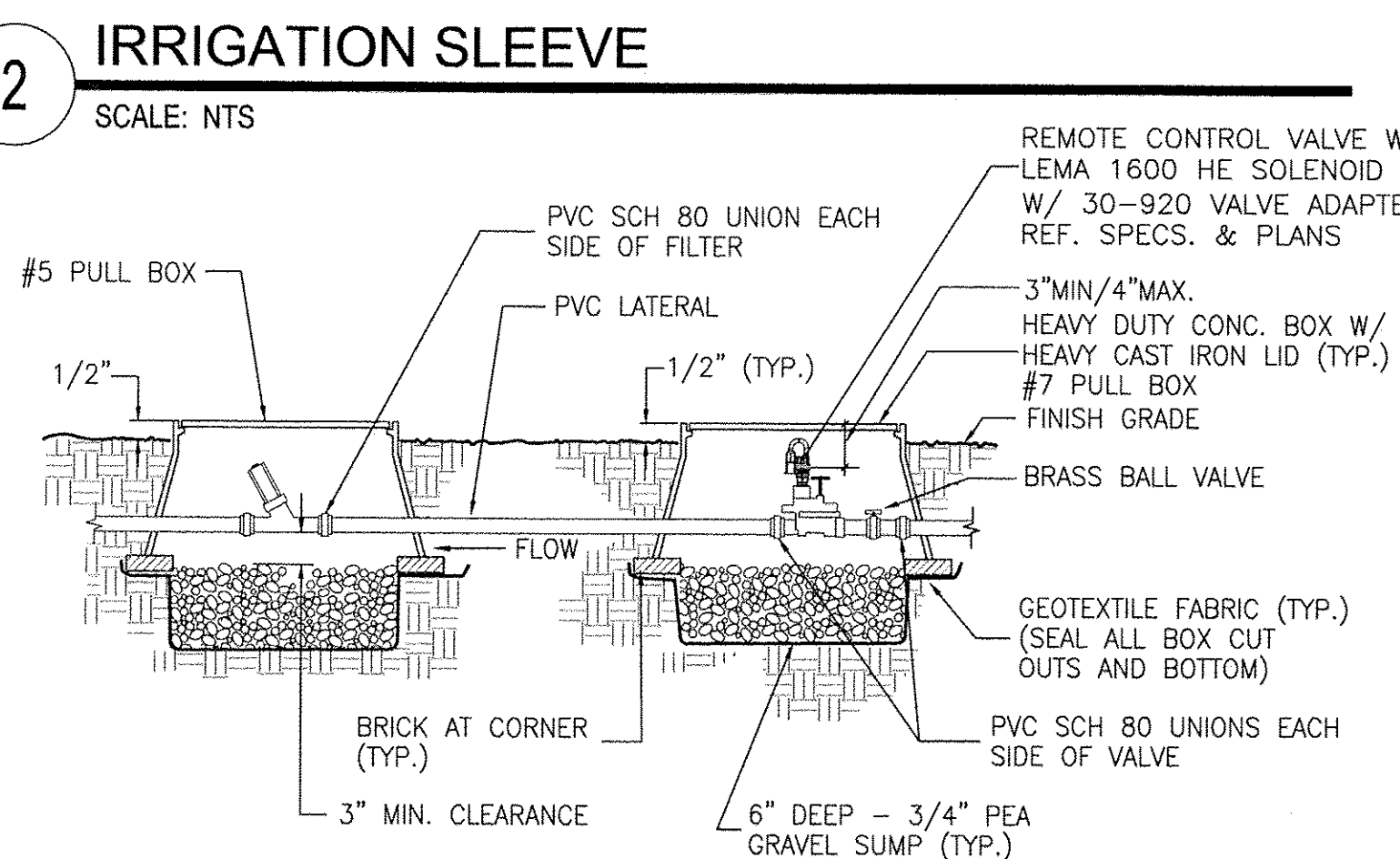
6 VALVE BOX PLACEMENT
SCALE: NTS



1 IRRIGATION TRENCHING
SCALE: NTS C.O.T. STD. DETAIL



2 IRRIGATION SLEEVE
SCALE: NTS



3 REMOTE CONTROL VALVE - DRIP
SCALE: NTS C.O.T. STD. DETAIL

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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Tucson, AZ 85719
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www.psomas.com

REGISTERED LANDSCAPE ARCHITECT

SEAL OF JASON ROBERT KUKLINSKI

EXPIRES 3/31/18

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

SABINO CANYON ROAD
TANQUE VERDE ROAD TO KOLB ROAD

CITY OF TUCSON

DRWN. BY HU	12/14	REF.	SCALE: H: NA	178 OF 189
DSGN. BY HU	12/14		V: NA	
CHKD. BY JK	12/14	PLAN NO. I-2009-029		

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Planning • Landscape Architecture
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IRRIGATION PLANS