

LANDSCAPE BORDERS:

- STREETSCAPE LANDSCAPE BORDER
 - UTILITY SERVICE ADJACENT TO NON-MS&R
 - TOTAL LENGTH: 174'
 - REQUIRED: 10' STREET BORDER WITH 6' SCREEN
 - PROVIDED: 10' STREET BORDER WITH 6' SCREEN
 (CHAIN LINK FENCE SLATS TO BE INSTALLED ON EXISTING FENCE)
 - TREES REQUIRED (174' / 1 PER 33'): 6
 - TREES PROVIDED: 7
 - VEGETATIVE GROUND COVER REQUIRED: 50%, 871 SF
 - VEGETATIVE GROUND COVER PROVIDED: 55%, 968 SF
 (648 SF PER DALEA & 64 SF PER AGAVE & 96 SF PER EUPHORBIA & 160 SF PER HESPERALOE)

PLANT SCHEDULE

	BOTANICAL NAME COMMON NAME	SIZE	QTY
TREES	PROSOPIS VELUTINA VELVET MESQUITE	15 Gal.	6
	SHRUBS		
	DALEA GREGGII TRAILING DALEA	5 Gal.	18
	CORDIA PARVIFOLIA LITTLE LEAF CORDIA	5 Gal.	6
	RUPELLIA PENINSULARIS BAJA RUELLIA	5 Gal.	10
ACCENTS	AGAVE 'BLUE GLOW' BLUE GLOW AGAVE	5 Gal.	16
	EUPHORBIA ANTISYPHILITICA CANDELILLA	5 Gal.	6
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA	5 Gal.	10
	GROUND COVER		
NOT SHOWN	DECORATIVE ROCK (DG): "MOHAVE GOLD" BY KALAMAZOO MATERIALS. SIZE: 1"-2" SCREENED INSTALLED IN ALL LANDSCAPE AREAS. 1" INSTALLED THROUGHOUT 3-4' WIDE RIGHT OF WAY ALONG COLLETTE STREET AND 36' RIGHT OF WAY ALONG CAMINO SECO 1" INSTALLED THROUGHOUT 0.5' WIDE SPACE BETWEEN SIDEWALK AND BORDER ALONG COLLETTE		

LANDSCAPE & IRRIGATION MAINTENANCE SCHEDULE:

- PRUNING: PRUNING SHALL BE PERFORMED ACCORDING TO AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) A300 STANDARDS. PRUNING SHALL BE CARRIED OUT WITH CARE TO THE HEALTH AND NATURAL GROWTH PATTERN OF PLANT MATERIAL. PRUNING WILL MAINTAIN PEDESTRIAN AND VEHICULAR CLEARANCES AT ALL TIMES. FROST DAMAGE SHALL BE PRUNED IN LATE WINTER OR EARLY SPRING.
 - GENERAL PRUNING CALENDAR:
 - NON-NATIVE DECIDUOUS TREES TO BE PRUNED IN WINTER.
 - NATIVE TREES TO BE PRUNED IN SUMMER.
 - SHRUBS TO BE PRUNED AFTER THEIR RESPECTIVE FLOWERING SEASONS.
 - IT IS NOT RECOMMENDED TO PRUNE ACCENT PLANTS (ALTHOUGH FLOWER STALKS CAN BE REMOVED).
 - ORNAMENTAL GRASSES SHALL BE CUT BACK TO WITHIN A FEW INCHES OF THE GROUND ONCE EVERY TWO-THREE YEARS.
- PLANT REPLACEMENT CRITERIA: DEAD PLANT MATERIAL SHALL BE REPLACED WITH HEALTHY NURSERY STOCK OF THE SAME SPECIES (OR AN EQUAL SUBSTITUTION). REPLACEMENT PLANT MATERIAL MUST BE INSTALLED ACCORDING TO THE FOLLOWING MINIMUM STANDARD SIZES: TREE @ 15 GALLON, SHRUBS AND ACCENTS @ 5 GALLON, AND VEGETATIVE GROUND COVERS @ 1 GALLON.
- INERT GROUND COVER MAINTENANCE: INERT GROUND COVER SHALL BE REPLENISHED AS OFTEN AS NECESSARY TO MAINTAIN A 2" DEPTH THROUGHOUT ALL LANDSCAPE COMMON AREAS NOT COVERED IN HYDROSEED. ROCK SHALL BE RAKED FREE FROM DEBRIS, FOLLOWING PLANT PRUNING AND GENERAL PLANT MAINTENANCE.
- HARDSCAPE MAINTENANCE: HARDSCAPE MATERIALS (WALKWAYS, WALLS, MONUMENT SIGNS, SITE FURNISHINGS, PLAY STRUCTURES, ETC.) SHALL BE KEPT WHOLE, CLEAN, ACCESSIBLE, AND SAFE AT ALL TIMES. HARDSCAPE MATERIALS SHALL BE MAINTAINED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. BROKEN HARDSCAPE SHALL BE REPLACED WITH COMPARABLE HARDSCAPE OF EQUAL VALUE. VANDALIZED HARDSCAPE SHALL BE RESTORED TO ORIGINAL CONDITION.
- IRRIGATION MAINTENANCE: IRRIGATION EQUIPMENT SHALL PERFORM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. BROKEN EQUIPMENT SHALL BE REPLACED WITH COMPARABLE EQUIPMENT OF EQUAL VALUE. IRRIGATION CONTROLLER SHALL BE ADJUSTED MONTHLY ACCORDING TO PLANT WATER DEMANDS AND SEASONAL CLIMATE VARIABILITY.

LANDSCAPE NOTES:

- SIGHT VISIBILITY TRIANGLES: PLANT MATERIAL INSTALLED WITHIN THE SIGHT VISIBILITY TRIANGLES SHALL BE MAINTAINED SO AS NOT TO INTERFERE WITH A VISIBILITY PLANE DESCRIBED AS TWO HORIZONTAL LINES AT LOCATED AT 30' AND 72' ABOVE FINISHED GRADE OF THE ROADWAY SURFACE.
- PLANT SIZE: PLANT MATERIAL SHALL BE INSTALLED AT THE FOLLOWING MINIMUM SIZES: TREES = 15 GAL., SHRUBS/ACCENTS = 5 GAL., GROUND COVER = 1 GAL.
- IRRIGATION: LANDSCAPE WILL BE IRRIGATED BY MEANS OF A PERMANENT UNDERGROUND IRRIGATION SYSTEM OPERATED BY AUTOMATIC CONTROLLER. ALL WATER USE FOR IRRIGATION PURPOSES WILL CONFORM TO THE ARIZONA GROUNDWATER CODE, ARIZONA REVISED STATUTES TITLE 45, CHAPTER 2.
- HARDSCAPE, LANDSCAPE, AND IRRIGATION CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND CITY OF TUCSON STANDARD SPECIFICATIONS. DEVIATIONS FROM APPROVED PLANS REQUIRE LANDSCAPE ARCHITECT AND CITY OF TUCSON APPROVAL PRIOR TO IMPLEMENTATION.
- ALL CITY OF TUCSON AND LANDSCAPE ARCHITECT INSPECTIONS REQUIRE A MINIMUM ADVANCE NOTICE OF 48 HOURS. A SUBSTANTIAL COMPLETION INSPECTION BY OWNER'S AUTHORIZED REPRESENTATIVE WILL BE CONDUCTED AND ALL DEFICIENCIES LISTED. SEPARATE INSPECTIONS MAY BE REQUIRED FOR BACKFLOW PREVENTION ASSEMBLIES AND ELECTRICAL WORK. CONTRACTOR SHALL RECTIFY ALL DEFICIENCIES PRIOR TO FINAL INSPECTION BY OWNER'S AUTHORIZED REPRESENTATIVE AND CITY OF TUCSON.
- ALL EQUIPMENT, MATERIALS, LABOR, AND TRANSPORTATION NOT INDICATED OR EXPLICITLY SPECIFIED BY THESE PLANS OR CITY OF TUCSON STANDARD SPECIFICATIONS, BUT REQUIRED FOR THE EXECUTION OF THE WORK SHALL BE SUPPLIED BY THE CONTRACTOR AND ARE CONSIDERED INCIDENTAL TO THE WORK.
- PROJECT MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR ITS SUCCESSORS.
- ALL WALLS, FENCES, SIGNS AND GATES REQUIRE SEPARATE PERMITS.
- ALL SCREEN AND DECORATIVE WALLS MUST BE CONSTRUCTED OF GRAFFITI RESISTANT MATERIALS.
- DUST CONTROL: ALL DISTURBED, GRADED OR BLADED AREAS NOT OTHERWISE IMPROVED WITH VEGETATION SHALL BE TREATED WITH AN APPROVED DUST CONTROL AGENT TO REDUCE DUST POLLUTION. ALL LANDSCAPE AND OPEN AREAS, AREAS BETWEEN THE PROPERTY LINE AND THE SIDEWALK AND AREAS BETWEEN THE SIDEWALK AND THE STREET CURB MUST RECEIVE DECOMPOSED GRANITE AT A 2" DEPTH. GROUND SURFACES IN PLANTING BEDS, PLANTERS, MEDIANS, OR TREE UNDER STORY

PLANTING IN RIGHT OF WAY NOTES (TDOT):

- IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE SIGHT VISIBILITY TRIANGLES (SVT), AND THE PEDESTRIAN ACCESS AREA CLEAR OF VEGETATION AT ALL TIMES, PER UNIFIED DEVELOPMENT CODE.
- IT IS THE OWNER RESPONSIBILITY TO KEEP A 5' WIDE BY 7' TALL CLEAR PEDESTRIAN ACCESS OPEN ACROSS THE ENTIRE PROPERTY.
- IT IS THE OWNER RESPONSIBLE TO KEEP VEGETATION FROM GROWING PAST THE CURB LINE CLEAR, AND KEEP A 15' HIGH CLEAR ZONE OVER THE TRAVEL LANE.
- FINAL PLANT LOCATIONS MUST BE IN COMPLIANCE WITH ALL UTILITY SETBACK REQUIREMENTS.
- THE OWNER UNDERSTANDS THAT IF THE CITY OF TUCSON TRANSPORTATION DEPARTMENT OR ANY UTILITY COMPANY NEEDS TO WORK WITHIN THE ROW IN THE LANDSCAPED AREA, PLANTS AND IRRIGATION MAY BE DESTROYED WITHOUT REPLACEMENT OR REPAIR.
- THE OWNER TAKES FULL LIABILITY FOR THIS LANDSCAPE AND IRRIGATION, AND ANY DAMAGE TO ROADWAY, SIDEWALK AND UTILITIES.
- THE ONLY PRIVATE IRRIGATION EQUIPMENT THAT IS ALLOWED WITHIN THE ROW ARE LATERAL LINES, TUBING AND EMITTERS THAT ARE NOT UNDER CONSTANT PRESSURE. ALL OTHER EQUIPMENT MUST BE ON PRIVATE PROPERTY. (EXCLUDING WATER METER)
- CONTRACTOR TO OBTAIN A ROW PERMIT PRIOR TO CONSTRUCTION WITHIN THE ROW.

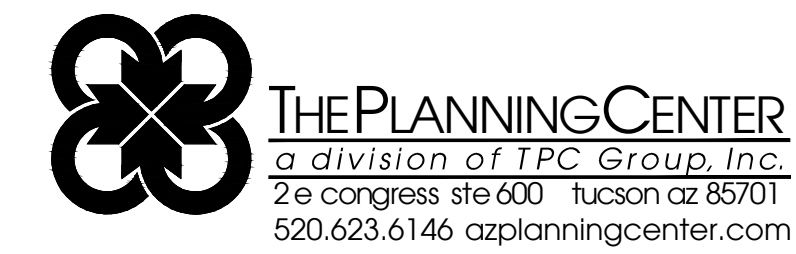
LANDSCAPE PLAN
 DEVELOPMENT PACKAGE
 FOR
WELL SITE D-048A
SCADA UPGRADE

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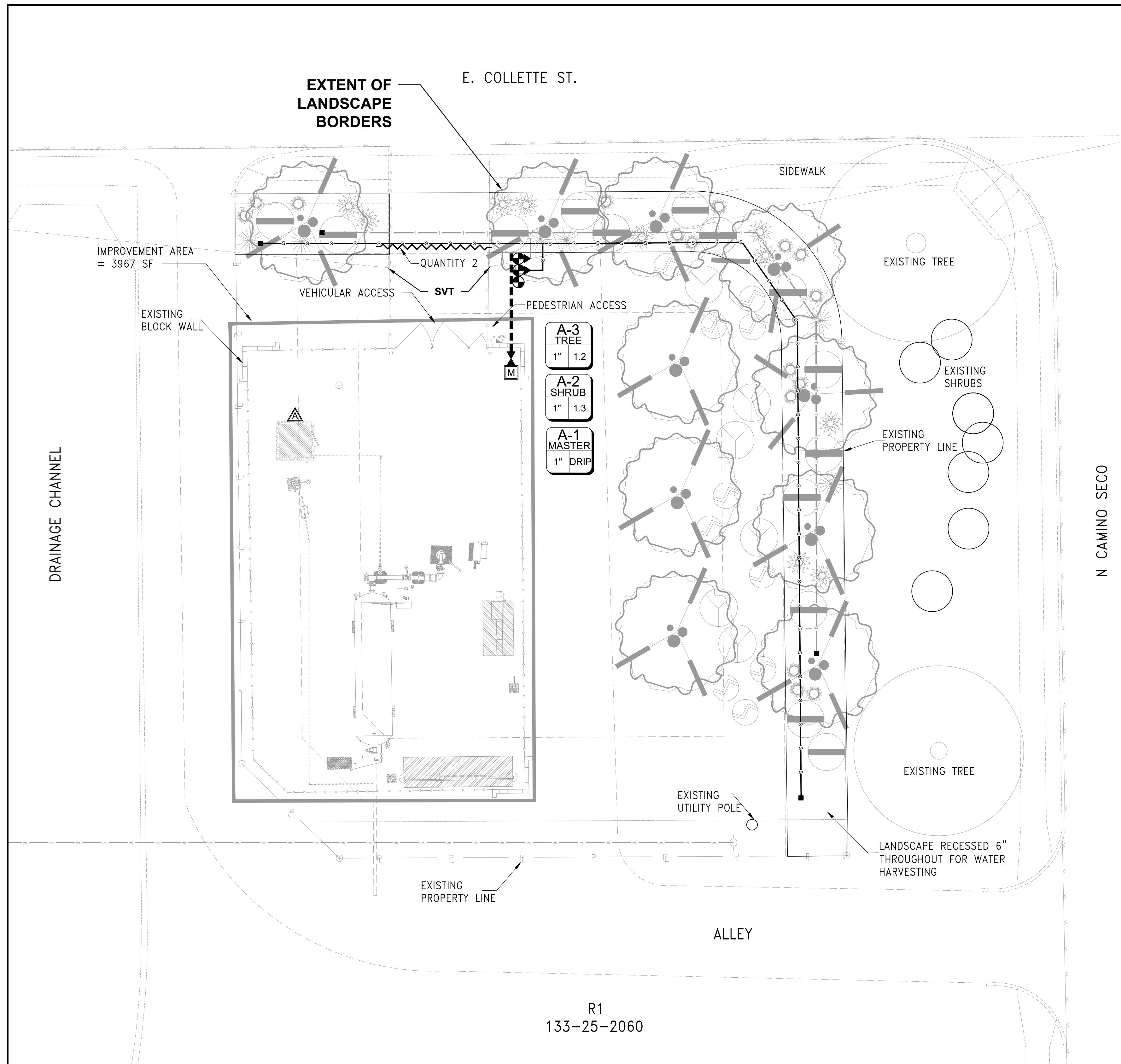
DP21-0347

T21SE _____ COT ADMINISTRATIVE ADDRESS:
 8650 E. COLETTE STREET
 TUCSON, ARIZONA 85711

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IRRIGATION LEGEND

- M** WATER METER
- ▶** REDUCED PRESSURE BACKFLOW PREVENTER, FEBCO 825Y/A, SIZE TO MATCH METER. INSTALLED ON CONCRETE PAD, WITH PIPE INSULATION, IN METAL ENCLOSURE W/ LOCK.
- △** CONTROLLER: (4 STATION CONTROLLER) RAINBIRD #ESP-ME. INSTALLED ON EXTERIOR OF BUILDING. LOCATION ON THIS PLAN IS SCHEMATIC AND SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE WITH ARCHITECT/ENGINEER FOR PRECISE INSTALL LOCATION. SLEEVE UNDER ANY ADJACENT HARDSCAPE (MAY NOT BE SHOWN IN PLANS).
- IRRIGATION MAINLINE: SCHEDULE 40 PVC, SIZE 1", UNLESS OTHERWISE NOTED. BURY DEPTH: 18" COVER TO TOP OF LINE.
- REMOTE CONTROL VALVE: RAINBIRD 100 - PEB, INSTALLED IN RAINBIRD #PVB VALVE BOX, TAN.
- DRIP ZONE KIT: RAINBIRD #XCZ-100-PRB-COM, INSTALLED IN JUMBO VALVE BOX, TAN.
- ~~~~~** IRRIGATION SLEEVES: SCHEDULE 40 PVC. DIAMETER SHALL BE TWICE (2X) THE NOMINAL SIZE OF IRRIGATION PIPE CARRIED WITHIN. QUANTITY AS NOTED. BURY DEPTH: 24" BELOW FINISHED SUBGRADE FOR SLEEVES UNDER DRIVEWAYS. BURY DEPTH: 18" FOR SLEEVES UNDER WALKS, PARKING LOT PAVEMENT, CHANNELS, AND SWALES. ALL TRENCHING SHALL REMAIN 6'-0" CLEAR OF UNDERGROUND DRAINAGE STRUCTURES.
- |—|—|** TREE LATERAL W/ FLUSH CAP ASSEMBLY: POLYETHYLENE, SIZE 1". COMPRESSION OR THREADED FITTING. BURY DEPTH: 8" COVER TO TOP OF LINE.
- |—|—|** SHRUB LATERAL W/ FLUSH CAP ASSEMBLY: POLYETHYLENE, SIZE 1". COMPRESSION OR THREADED FITTING. BURY DEPTH: 8" COVER TO TOP OF LINE.
- FLUSH CAP ASSEMBLY W/ HOSE THREADED CAP. INSTALLED IN 6" ROUND BOX, TAN. SEE DETAIL ON LANDSCAPE DETAILS SHEET.

IRRIGATION NOTES

1. SLEEVE UNDER ALL ROADWAY, SIDEWALKS, WALLS WHEN NECESSARY IRRIGATION LINES AND SLEEVES ARE SHOWN SCHEMATICALLY. NOT ALL SLEEVES MAY BE SHOWN.
2. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE UNDER A MINIMUM STATIC PRESSURE OF 40 PSI (POINT OF CONNECTION). CONTRACTOR SHALL TEST STATIC PRESSURE PRIOR TO ORDERING IRRIGATION MATERIAL OR BEGINNING THE INSTALLATION AND ADVISE (IN WRITING) LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE IF PRESSURE TESTS BELOW 40 PSI. CONTRACTOR SHALL AT THEIR EXPENSE, REDESIGN AND REINSTALL THE SYSTEM FOR PROPER OPERATION IF TEST PRESSURE IS BELOW 40 PSI AND THEY FAIL TO NOTIFY (IN WRITING) LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO ORDERING OR INSTALLING MATERIAL.

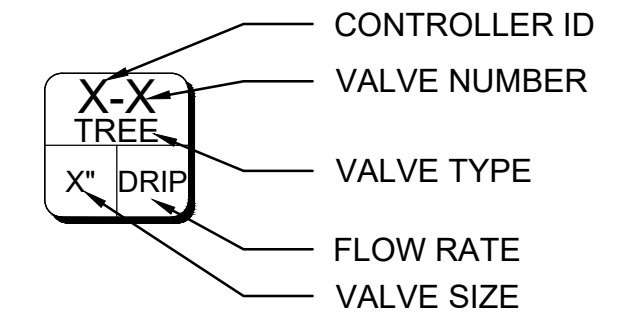
PLANTING IN RIGHT OF WAY NOTES (TDOT):

1. IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE SIGHT VISIBILITY TRIANGLES (SVT), AND THE PEDESTRIAN ACCESS AREA CLEAR OF VEGETATION AT ALL TIMES, PER LAND USE CODE (LUC) SECTION.
2. IT IS THE OWNER RESPONSIBLE TO KEEP VEGETATION FROM GROWING PAST THE CURB LINE CLEAR, AND KEEP A 15' HIGH CLEAR ZONE OVER THE TRAVEL LANE.
3. FINAL PLANT LOCATIONS MUST BE IN COMPLIANCE WITH ALL UTILITY SETBACK REQUIREMENTS.
4. THE OWNER UNDERSTANDS THAT IF THE CITY OF TUCSON TRANSPORTATION DEPARTMENT OR ANY UTILITY COMPANY NEEDS TO WORK WITHIN THE ROW IN THE LANDSCAPED AREA, PLANTS AND IRRIGATION MAY BE DESTROYED WITHOUT REPLACEMENT OR REPAIR.
5. THE OWNER TAKES FULL LIABILITY FOR THIS LANDSCAPE AND IRRIGATION, AND ANY DAMAGE TO ROADWAY, SIDEWALK AND UTILITIES.
6. THE ONLY PRIVATE IRRIGATION EQUIPMENT THAT IS ALLOWED WITHIN THE ROW ARE LATERAL LINES, TUBING AND EMITTERS THAT ARE NOT UNDER CONSTANT PRESSURE. ALL OTHER EQUIPMENT MUST BE ON PRIVATE PROPERTY. (EXCLUDING WATER METER)
7. CONTRACTOR TO OBTAIN A ROW EXCAVATION PERMIT PRIOR TO CONSTRUCTION WITHIN THE ROW.

INCLUDED ITEMS (NOT SHOWN)

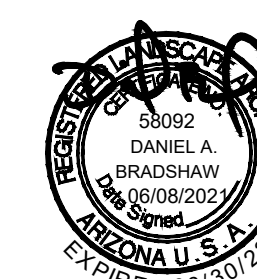
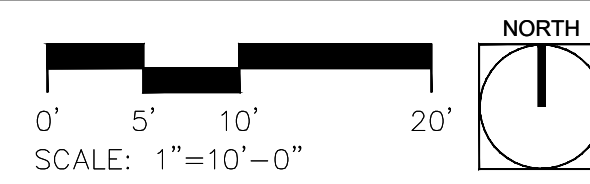
- NOT SHOWN CONTROL WIRE BURIED WITH MAINLINE, TO BE SIZED BY CONTRACTOR. COCONTROL WIRE TO HAVE ITS OWN SLEEVE.
- NOT SHOWN CONTROL WIRE SPLICES/CONNECTIONS: ALL SPLICES OR CONNECTIONS OF TWO WIRE CONTROL WIRES TO BE INSTALLED IN 6" ROUND BOX. CONNECTIONS SHALL BE WATERPROOFED AND MADE PER MANUFACTURER'S RECOMMENDATIONS.
- NOT SHOWN DISTRIBUTION TUBING: RAINBIRD 1/4" DISTRIBUTION TUBING. BURY DEPTH: 6" BELOW FINISHED SUBGRADE.
- NOT SHOWN SINGLE EMITTERS - RAINBIRD XERIBUG BARB X BARB EMITTERS. SEE EMITTER SCHEDULE.
- NOT SHOWN MULTI-PORT EMITTERS - RAINBIRD MULTI-OUTLET XERI-BUG. SEE EMITTER SCHEDULE.
- NOT SHOWN WIRED RAIN SENSOR - RAINBIRD RSD-BEX. MOUNTED WITH METAL BRACKET TO MASONRY WALL ADJACENT THE CONTROLLER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- NOT SHOWN SOIL MOISTURE SENSOR - RAINBIRD SMRT-Y SENSOR KIT. SENSOR KIT CONTROLLER INTERFACE TO BE MOUNTED ADJACENT TO IRRIGATION CONTROLLER ON MASONRY WALL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

VALVE TAG



EMITTER SCHEDULE

TREES	(6) 2 GPH EMITTERS PER TREE
SHRUBS	(1) 1 GPH EMITTER PER SHRUB
ACCENTS	(1) 1 GPH EMITTER PER SHRUB



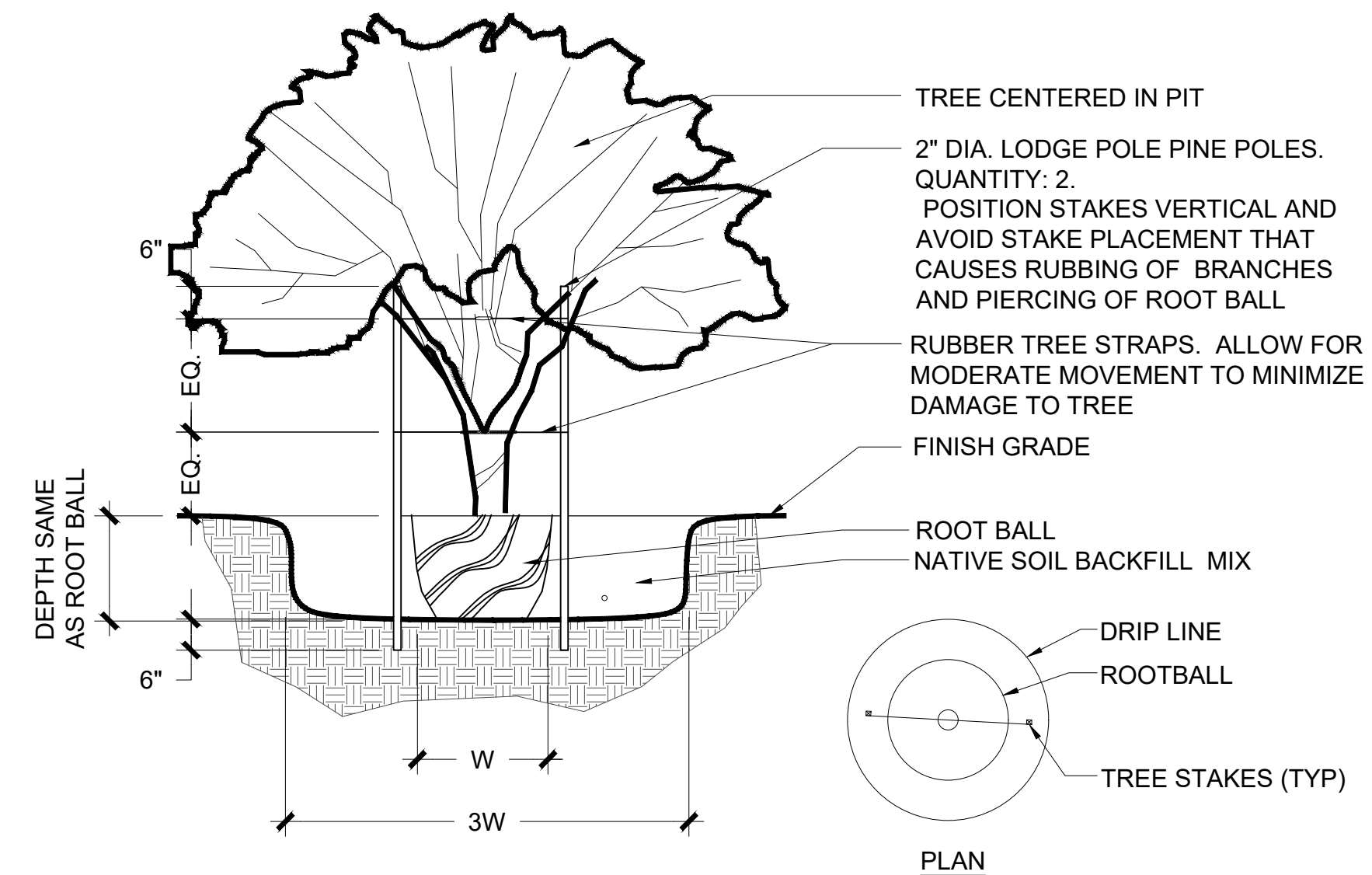
IRRIGATION PLAN
DEVELOPMENT PACKAGE
FOR
WELL SITE D-048A
SCADA UPGRADE

A PORTION OF
SECTION 09, T 14 S, R 15 E, G&SRM,
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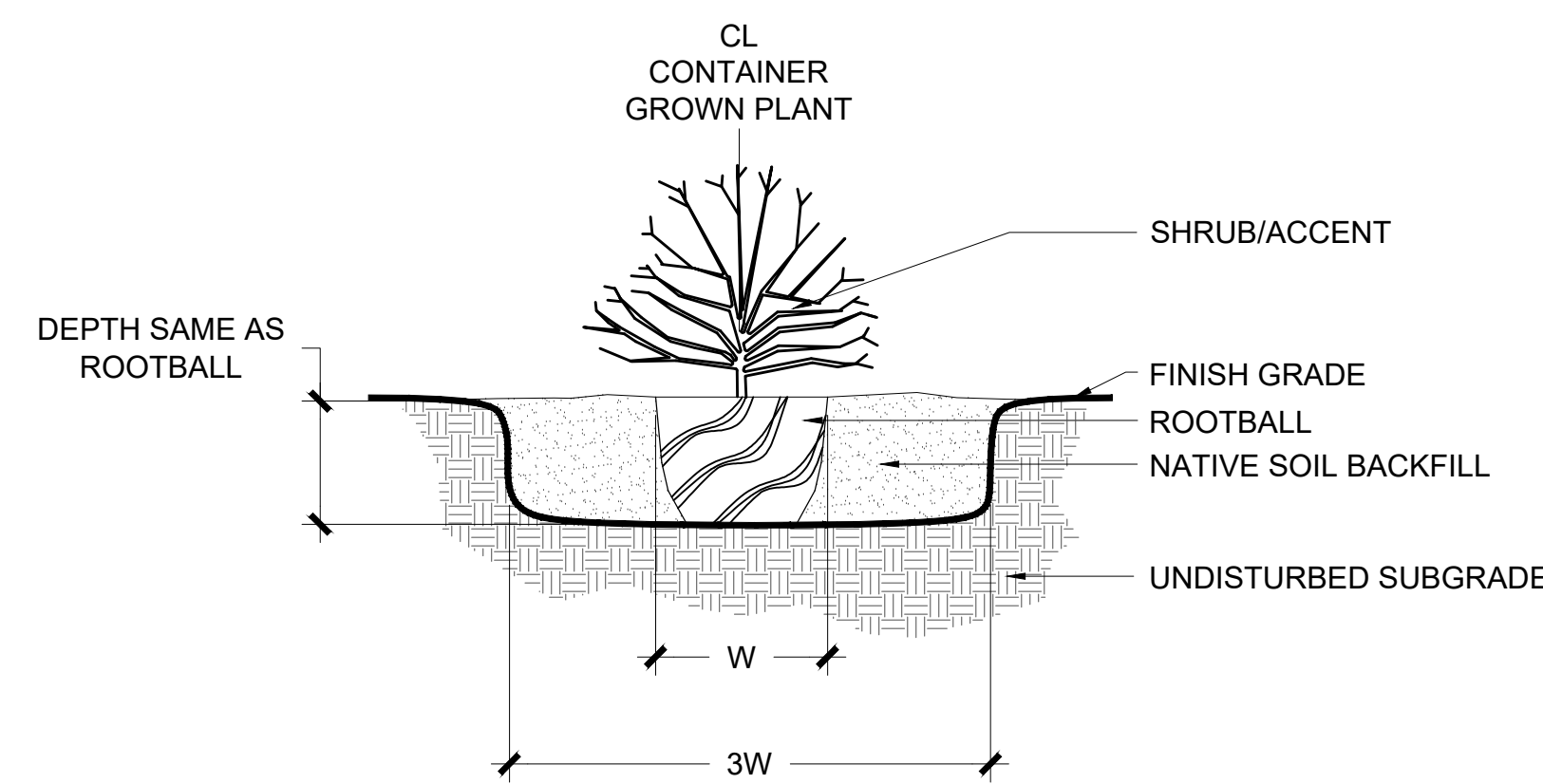
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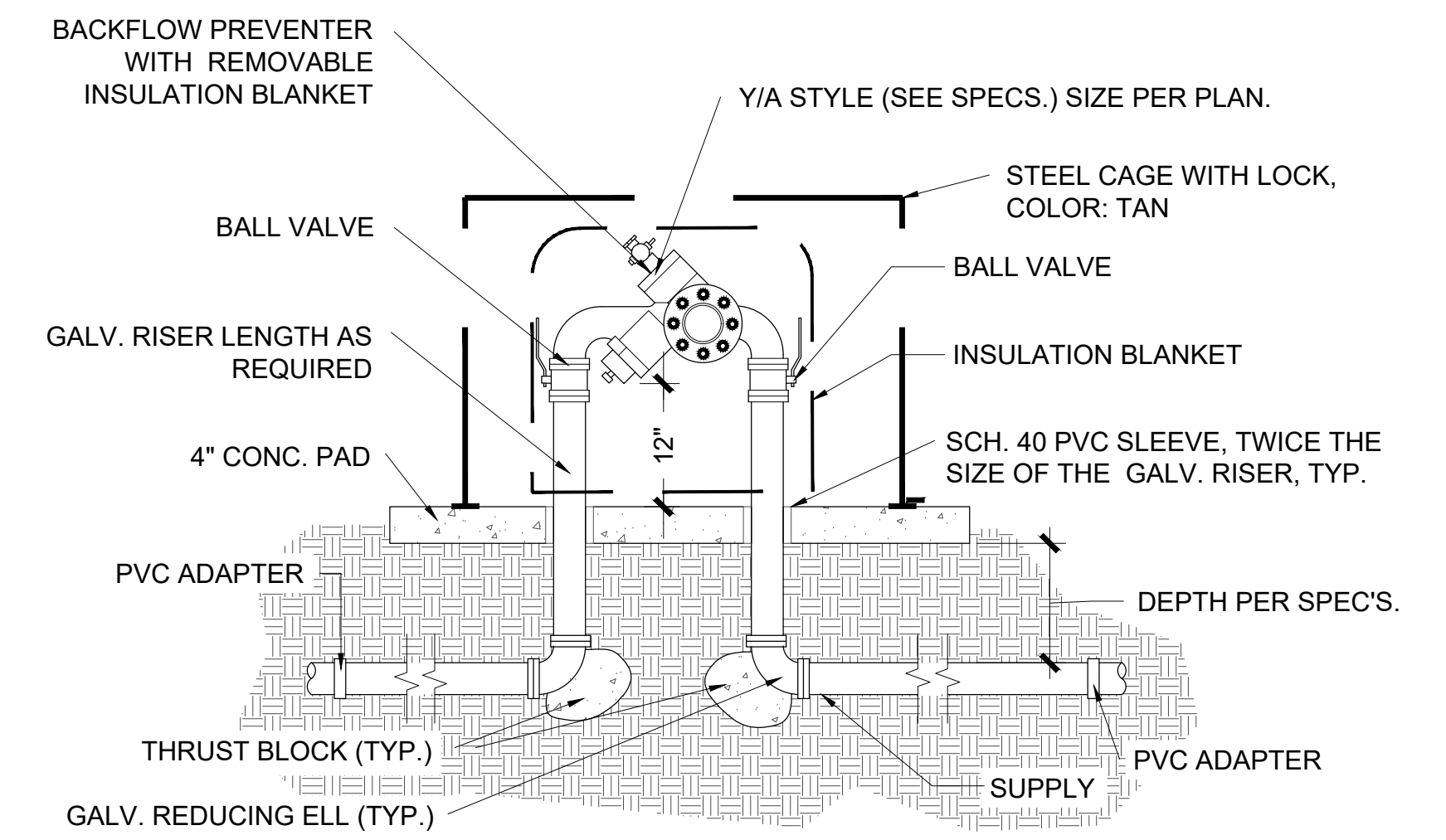
- NOTES:
1. MARK THE NORTH SIDE OF THE TREE IN THE FIELD BEFORE TRANSPLANTING, AND WHEN TRANSPLANTING ROTATE THE TREE TO FACE NORTH, WHENEVER POSSIBLE.
 2. STAKING SHALL BE CONSTRUCTED SO TRUNK HAS FLEXIBILITY.
 3. PLANTS TO BE STAKED ARE NOTED ON PLANTING SCHEDULE SHEET UNDER REMARKS.
 4. SUFFICIENT CLEARANCE SHALL BE MAINTAINED BETWEEN PLANTS AND UTILITY FACILITIES SO AS TO NOT HINDER UTILITY MAINTENANCE.
 5. PRUNE TREE AT TIME OF STAKE REMOVAL, ONE YEAR AFTER INSTALLATION.
 6. TREES SHALL BE MAINTAINED IN THEIR NATURAL FORM. OVER PRUNING AND/OR "BALLING" IS PROHIBITED.

1 TREE PLANTING SCALE: NTS



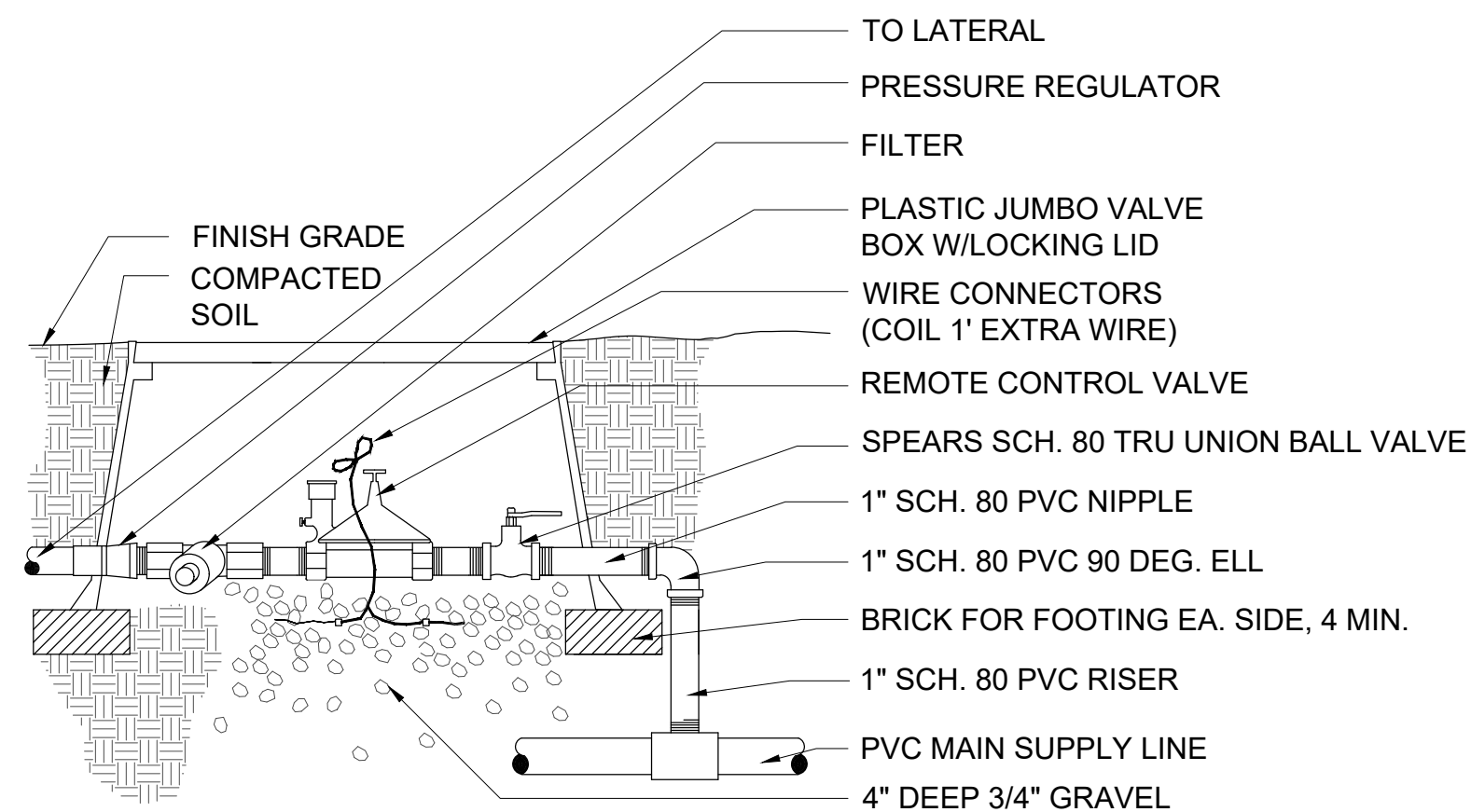
- NOTES:
1. SUFFICIENT CLEARANCE SHALL BE MAINTAINED BETWEEN PLANTS AND UTILITY FACILITIES SO AS TO NOT HINDER UTILITY MAINTENANCE.
 2. CONTRACTOR SHALL ASSURE THAT PLANTS ARE LOCATED SO THAT AT FULL GROWTH PLANTS DO NOT INTERFERE WITH HARDSCAPE SURFACES SUCH AS WALKS AND PATHS.
 3. PLANTS SHALL BE MAINTAINED IN THEIR NATURAL FORM. OVER PRUNING AND/OR "BALLING" IS PROHIBITED.

2 SHRUB & ACCENT PLANTING SCALE: NTS

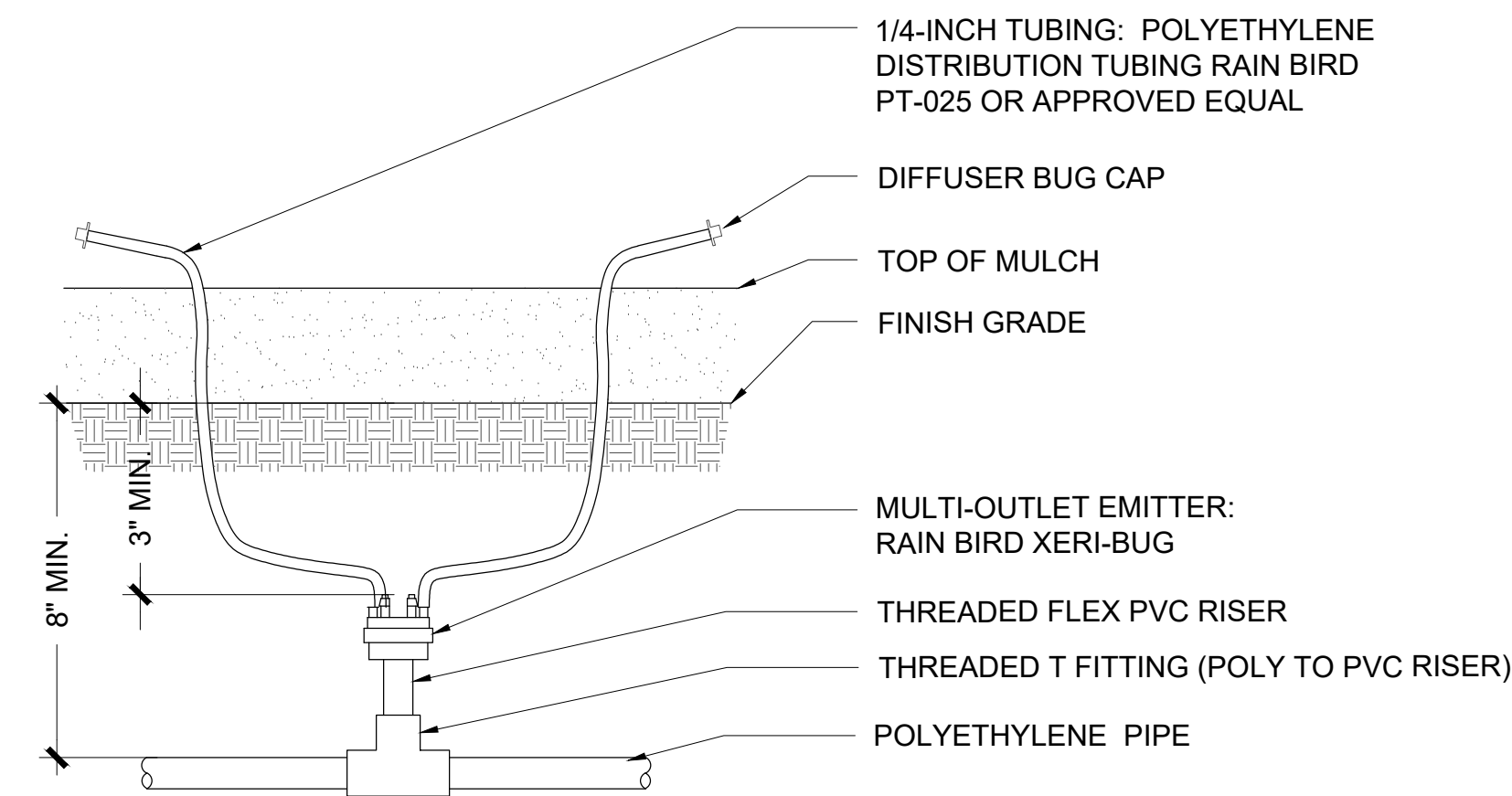


3 REDUCED PRESSURE BACKFLOW PREVENTER SCALE: NTS

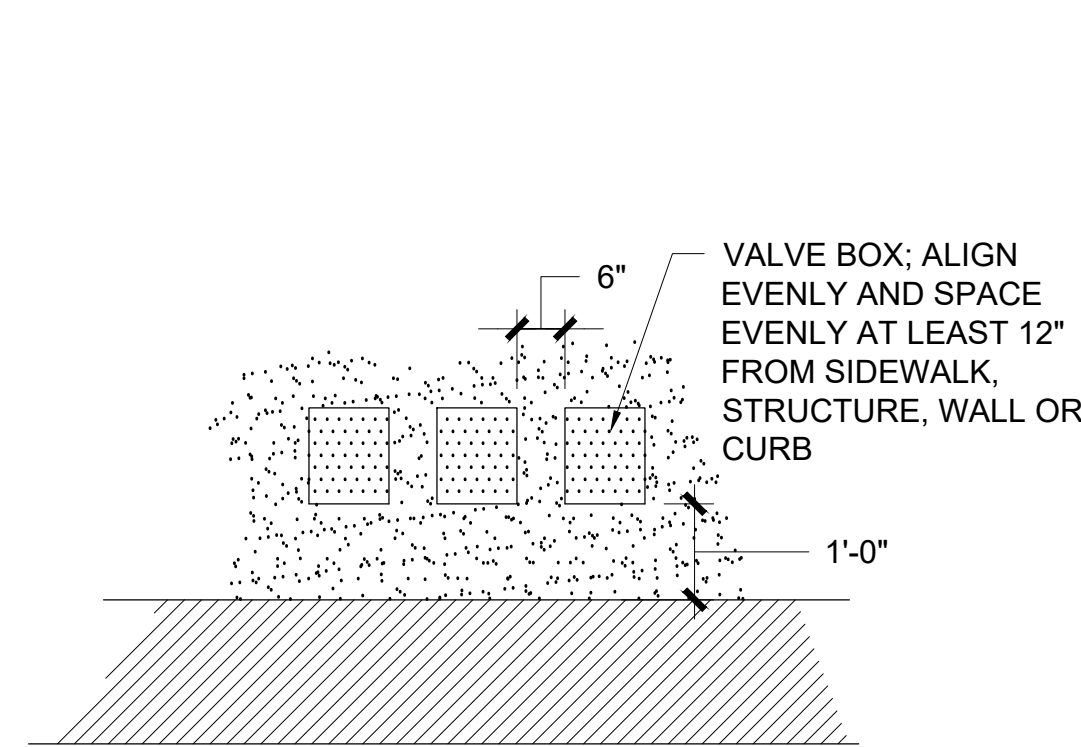
- NOTES:
1. ALL WIRE TO BE INSTALLED AS PER LOCAL CODE. TAPE AND BUNDLE WIRE EVERY 20' PROVIDE EXPANSION COILS AT EA. WIRE CONNECTION IN VALVE BOX (WRAP AROUND 1/2" PIPE 15 TIMES)
 2. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
 3. ALL THREADED PVC JOINTS TO BE WRAPPED WITH TEFLON TAPE OR APPROVED EQUAL.
 4. SEAL BOTTOM AND ALL OPENINGS WITH GEOTEXTILE FABRIC.
 5. INSTALL GRAVEL AT BOTTOM OF BOX, 4" DEPTH



4 DRIP VALVE ASSEMBLY DETAIL SCALE: NTS

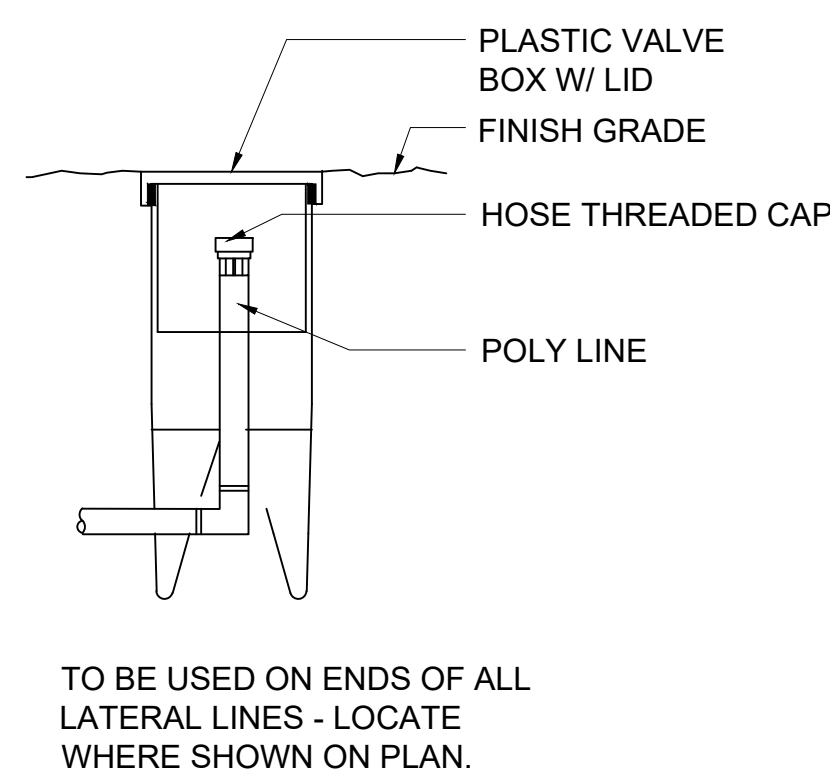


5 MULTI-PORT EMITTER SCALE: NTS

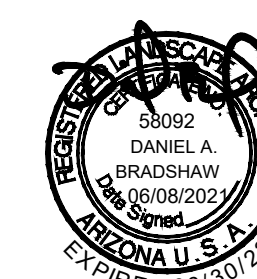


NOTE: DO NOT PLACE VALVE (S) IN PEDESTRIAN AREAS

6 VALVE BOX PLACEMENT SCALE: NTS



7 END FLUSH CAP ASSEMBLY SCALE: NTS



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