CHILD CRISIS ARIZONA
LANDSCAPE PACKAGE

PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
Acacia mulga Mulga Caliper Size: 1.5"	24" Box	*ADWR	11
Quercus virginiana Live Oak Caliper Size: 2.5"	36" Box	*ADWR	4
GROUNDCOVERS			**QTY**
Lantana montevidensis Trailing Lantana - Dallas Red	5 Gallon	*ADWR	18
Gazania rigens Trailing Gazania	5 Gallon	*ADWR	35
SHRUBS / ACCENTS			**QTY**
Hesperaloe parviflora 'brakelights' Red Yucca 'Brakelights'	5 Gallon	*ADWR	36
Leucophyllum frutescens Texas Ranger Sage	5 Gallon	*ADWR	21
Caesalpinia pulcherrima Red Bird of Paradise	5 Gallon	*ADWR	4
Muhlenbergia capillaris Regal Mist Grass	5 Gallon	*ADWR	15
LANDSCAPE MATERIALS			
Decomposed Granite. 3/4" screened "Express Gold" 2" deep in planting areas per plan. Match existing color/size.			6,860 sq ft

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

IRRIGATION LEGEND

SYMBOL		
	SERVICE POINT	CONNECT TO EXISTING IRRIGATION SYSTEM MAINLINE WATER SERVICE
	GATE VALVE	NIBCO GATE VALVE, SIZE PER LINE BRONZE MATERIAL
	DRIP VALVE	HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
	DRIP FLUSH CAP	SPEARS FLUSH CAP 1/2" FLUSH VALVE
	PRESSURE REG.	SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
N/S	EMITTER - SP	BOWSMITH 1.0 GPH (1 PER PLANT)
	EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE)

PIPE LEGEND

MAINLINE - 1" SIZE	PVC SCH. 40
TREE LATERAL	PVC SCH. 40 - SOLVENT WELD
SHRUB LATERAL	PVC SCH. 40 - SOLVENT WELD
PIPE SLEEVE	PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

CITY OF MESA LANDSCAPE NOTES

1. LANDSCAPE CONTRACTOR SHALL CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND SHALL BE RESPONSIBLE FOR THE FOLLOWING:
A) DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE CONTRACTORS ACTIVITIES.
B) DAMAGES TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC.
C) INSPECTING THE SITE IN ORDER TO BE FULLY AWARE OF EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.

2. INSTALLATION OF ALL LANDSCAPE AND IRRIGATION MATERIAL SHALL COMPLY WITH SECTIONS 424, 425, 757, AND 795 OF THE MAG STANDARD SPECIFICATIONS AS AMENDED BY THE CITY OF MESA IN THE CURRENT EDITION OF THE MESA ENGINEERING PROCEDURES MANUAL LANDSCAPE & IRRIGATION STANDARDS.

3. CONTRACTOR SHALL REPAIR ANY DAMAGE MADE TO THE EXISTING SPRINKLER SYSTEM TO THE SATISFACTION OF THE CITY AT NO ADDITIONAL COST TO THE CITY.

4. LANDSCAPE REMOVAL IS A NON-PAY ITEM UNLESS OTHERWISE NOTED.

5. ALL EXISTING VEGETATION, WEEDS, DEBRIS, ETC., SHALL BE REMOVED FROM PROJECT AREA AND DISPOSED OF PROPERLY OFF THE SITE AT THE CONTRACTORS EXPENSE (SCARIFY EXISTING SUBGRADE, MIN. SIZE (6) INCHES DEPTH).

6. DAMAGE TO TURF SHALL BE REPAIRED BY CONTRACTOR, IE RUTS FILLED WITH CLEAN SOIL, COMPACTED TO MATCH SURROUNDING GRADES, EXCESS SOIL, ROCK, ETC., SHALL BE REMOVED TO LEAVE THE SITE CLEAN.

7. ALL PLANT MATERIAL, OTHER THAN TREES, SHALL CONFORM TO GRADING, TYPE, ETC., AS SET FORTH IN THE AMERICA STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL TREES SHALL CONFORM TO THE CURRENT ARIZONA NURSERY ASSOCIATION TREE SPECIFICATIONS AND MAG SPEC 795.7. SHOULD ANY CONFLICTS IN THE SPECIFICATION OCCUR, THE ARIZONA NURSERY ASSOCIATION SPECIFICATIONS SHALL PREVAIL.

8. CITY RESERVES THE RIGHT TO INSPECT SHRUBS AND CONTAINER TREES FOR CONDITION OF ROOTBALLS. FOR ANY SUCH INSPECTIONS WHICH MAY DESTROY ROOTBALL, CONTRACTOR SHALL SUPPLY ADDITIONAL PLANT AT NO COST TO CITY.

9. PLANT PITS SHALL BE INSPECTED BY CITY PRIOR TO PLANTING BY THE CONTRACTOR BY REQUESTING AN INSPECTION 48 HOURS IN ADVANCE.

10. ROUGH AND FINE GRADING TO ESTABLISH UNIFORM SMOOTH GRADE IS INCLUDED IN THIS PROJECT.

11. SOIL TEST FOR FERTILITY AND ADDITIVE RECOMMENDATIONS (FOR TURF AND ORNAMENTALS) SHALL BE COMPLETED BY CONTRACTOR TO DETERMINE IF ADDITIVES ARE REQUIRED. CONTRACTOR SHALL PROVIDE COPY OF SOIL TEST RESULTS FOR REVIEW AND APPROVAL TO ENGINEERING INSPECTOR AT LEAST SEVEN (7) DAYS PRIOR TO ANTICIPATED PLANTING. AFTER APPROVAL BY THE CITY, THE CONTRACTOR SHALL PROVIDE AND INCORPORATE AND ADDITIVES REQUIRED PRIOR TO OR AT TIME OF PLANTING.
12. PLANT PIT SOIL MIXTURE SHALL CONSIST OF FOUR AND ONE-HALF PARTS NATURE FERTILE, FRIABLE SOIL AND ONE PART HUMUS BY VOLUME, THOROUGHLY MIXED PRIOR TO BACKFILLING IN PITS. BACKFILLING SHALL BE IN 6" LIFTS WITH EACH LIFT WATER SETTLED WITHOUT PUDDLING.

13. CONTRACTOR SHALL STAKE TREE AND SHRUB LOCATIONS FOR 5-GALLON PLANTS AND LARGER. STAKES SHALL BE MARKED WITH PLANT NAME OR PLANT LEGEND ITEM NUMBER FORM PLANS.

14. ALL EXISTING (GAS, ELECTRIC, WATER, ETC.,) COVERS AND BOXES SHALL REMAIN UNCOVERED. CONTRACTOR TO ADJUST TO FINAL GRADE AS NECESSARY.

15. THE CONTRACTOR SHALL INSTALL WATER METER PROVIDED BY THE CITY OF MESA. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS INCLUDING ALL APPURTENANCES AND LABOR NECESSARY TO INSTALL THE COMPLETE AUTOMATIC SPRINKLER SYSTEM FROM THE METER (WATER USAGE CHARGES SHALL BE PAID BY CONTRACTOR UNTIL PROJECT FINAL ACCEPTANCE BY CITY OF MESA). CONTRACTOR SHALL ORDER METER FROM DEVELOPMENT SERVICES.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION THE UNDERGROUND SPRINKLER SYSTEM IN ADVANCE OF CONSTRUCTION. THE SPRINKLER SYSTEM LOCATIONS NOTED ON PLANS ARE FOR REFERENCE ONLY.

17. CONTRACTOR TO VERIFY DEPTH OF ALL INLET STRUCTURES AND SPRINKLER SYSTEMS PRIOR TO TRENCHING FOR LOW-FLOW CHANNEL.

18. CONTRACTOR TO PROVIDE PUMPING WITHIN FIVE (5) DAYS AFTER THE NOTICE TO PROCEED IS GIVE AS REQUIRED TO DRY THE AREA SUFFICIENTLY TO BEGIN CONSTRUCTION.

19. CONTRACTOR SHALL ARRANGE FOR SPRINKLER SYSTEM SHUT DOWN DURING CONSTRUCTION BY CONTACTING THE ENGINEERING INSPECTOR.

20. NO ROCKS LARGER THAN 1" IN DIAMETER SHALL BE ALLOWED IN THE TOP SIZE (6) INCHES OF TOPSOIL WHERE TURF ESTABLISHMENT IS SPECIFIED. ROCK REMOVALS AS NECESSARY IS INCLUDED IN THIS PROJECT.

21. WHERE CALICHE IS ENCOUNTERED IN PLANT PITS, DEPTH AND WIDTH OF PIT SHALL BE INCREASED BY ONE-THIRD (1/3) OVER SPECIFICATION, AND A LIQUID PENETRATION "AL-KALICHE" OR EQUAL SHALL BE INCORPORATED FOR EACH PIT PER MANUFACTURERS RECOMMENDATIONS.

22. PROJECT RECORD DRAWINGS FOR IRRIGATION SYSTEM:
A) MAINTAIN ON SITE AND SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION ,ONE COMPLETE SET OF CONTACT DOCUMENTS AS PROJECT RECORDS DOCUMENTS. KEEP DOCUMENT CURRENT. DON NOT PERMANENTLY COVER WORK UNTIL AS-BUILT INFORMATION IS RECORDED.
B) RECORD PIPE AND WIRING NETWORK ALTERATIONS. RECORD WORK WHICH IS INSTALLED DIFFERENTLY THAN SHOWN ON THE CONSTRUCTION DRAWINGS. RECORD ACCURATE REFERENCE DIMENSIONS, MEASURED FROM AT LEAST 2 PERMANENT REFERENCE POINT OF EACH IRRIGATION SYSTEM VALVE , EACH BACKFLOW PREVENTION DEVICE, EACH CONTROLLER OR CONTROL UNIT, EACH SLEEVE END, EACH STU-OUT FOR FUTURE PIPE OR WIRING CONNECTIONS, AND OTHER IRRIGATION COMPONENTS ENCLOSED WITHIN A VALVE BOX.

23. FOR PARKS RETENTION BASINS: CONTRACTOR SHALL INSTALL DECOMPOSED GRANITE TO A ROLLED DEPTH OF TWO (2) INCHES. DECOMPOSED GRANITE SHALL BE 1/2" MINUS WITH THE COLOR AS SPECIFIED ON THE PLANS. PRE-EMERGENT HERBICIDE SHALL BE APPLIED BEFORE AND AFTER PLACEMENT OF DECOMPOSED GRANITE PER THE MANUFACTURES RECOMMENDATIONS. PRE-EMERGENT HERBICIDE SHALL BE SURFALAN, DACTHAL, OR APPROVED EQUAL. NOT MORE THAN 8% OF DECOMPOSED GRANITE SHALL PASS THROUGH A #200 MESH SCREEN, 15% THROUGH A #40 MESH SCREEN, 98% THROUGH A #4 MESH SCREEN, AND 100% SHALL PASS THROUGH A 1/2" MESH SCREEN. SAMPLE TO BE PROVIDED FOR CITY REVIEW AND APPROVAL.

24. FOR STREET LANDSCAPE PROJECT: CONTRACTOR SHALL INSTALL DECOMPOSED GRANITE AS FOLLOWS:
A) DECOMPOSED GRANITE GROUND COVER SHALL BE 1/2" SIZE SCREENED AND WASHED.
B) PLACE AND ROLL TO TWO (2) INCH TOTAL DEPTH OVER 85% COMPACTED SUB-GRADE.
C) PRE-EMERGENT HERBICIDE SURFLAN, DACTHAL, OR APPROVED EQUAL SHALL BE APPLIED BEFORE AND AFTER GRANITE PLACEMENT.
D) DECOMPOSED GRANITE SAMPLE SHALL BE PROVIDED IN A RIGID PLASTIC CONTAINER FOR CITY REVIEW AND APPROVAL.

25. RESTORE ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS, COMPONENTS, AND LANDSCAPE AREAS IMPACTED BY ANY WORK UNDER THIS CONTACT. RESTORE ALL EXISTING IRRIGATION AND LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE RESTORATION NOTES INDICATED WITHIN THESE DOCUMENTS. AT A MINIMUM, ALL RESTORATION SHALL BE IN ACCORDANCE WITH MAG SPECIFICATION 107.9 - PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE . ALL RESTORATION WORK SHALL BE COMPETED TO THE SATISFACTION OF THE CITY OF MESA ENGINEER.

26. ALL RESTORATION WORK SHALL BE COMPLETED IN ACCORDANCE WIT THE DETAILS PROVIDED.

27. REFER TO LANDSCAPE PLANTING SHEETS AND ENGINEERING DRAWINGS FOR ADDITIONAL RESTORATION NOTES AND REQUIRED COORDINATION.

LANDSCAPE SITE NOTES

1. UNAUTHORIZED CHANGES TO DRAWINGS - THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF DRAWINGS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
2. OWNER SHALL OBTAIN AND PAY FOR ONLY CITY OF MESA ISSUED PERMITS TO COMPLETE WORK. CONTRACTOR SHALL PAY FOR ALL OTHER PERMITS.
3. NOTIFY LANDSCAPE ARCHITECT AT LEAST 4 WORKING DAYS IN ADVANCE PRIOR TO REQUIRED OR DESIRED INSPECTION AT (480) 250-0116.
4. STAKE SITE MATERIALS LOCATION AND RECEIVE LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
5. PROTECT ALL EXISTING PLANT MATERIALS DURING CONSTRUCTION. REPLACE IN KIND ANY DAMAGED OR DESTROYED MATERIALS.
6. PRESERVE EXISTING IRRIGATION SYSTEM IN PLACE. MAINTAIN IRRIGATION TO EXISTING PLANTS DURING CONSTRUCTION. REPLACE ANY DAMAGED OR DESTROYED EQUIPMENT.

IRRIGATION GENERAL NOTES

1. IRRIGATION PLAN IS DIAGRAMMATIC. ADJUST LOCATION OF EMISSION POINTS TO PROVIDE FULL AND ADEQUATE COVERAGE OR ADD EMITTERS AS NECESSARY TO ENSURE 100% COVERAGE OF PLANT MATERIALS. PREVENT OVERSPRAY ON ADJACENT IMPROVEMENTS.
2. VERIFY WATER PRESSURE IN FIELD AND NOTIFY OWNER IMMEDIATELY SHOULD A DISCREPANCY EXIST.
3. COORDINATE IRRIGATION SLEEVES LOCATION AND SIZE WITH A MINIMUM DIAMETER TWICE THE SIZE OF THE IRRIGATION LINE. EXTEND SLEEVES 12" BEYOND EDGE OF PAVEMENT, WALL, WALKS OR CURB.
4. PROGRAM CONTROLLERS TO MAINTAIN SUFFICIENT FLOW RATES THROUGHOUT THE SYSTEM. ADJUST AS REQUIRED FOR SEASON AND PLANT MATERIAL UNTIL FINAL ACCEPTANCES.
5. LOCATE TAN COLOR (CARSON OR EQUAL) VALVE BOXES (IRRIGATION, GATE VALVE, FLUSH CAP, QUICK COUPLERS, AND OTHER ELEMENTS) IN PLANTER AREAS. DO NOT LOCATE VALVE BOXES IN A LAWN OR HARDSCAPE UNLESS REQUIRED AND APPROVED BY OWNER.
6. ALL IRRIGATION EQUIPMENT DESCRIBED IN LEGEND WILL BE ACCEPTED AS APPROVED EQUALS FOR PERFORMANCE. CONTRACTOR MAY SUBMIT FOR REVIEW EQUAL PERFORMANCE EQUIPMENT.

SHEET INDEX

OWNER CONTACT

CHILD CRISIS ARIZONA
817 N. COUNTRY CLUB DRIVE
MESA, ARIZONA 85201
JACOB PROUD
(480) 834-9424

LANDSCAPE ARCHITECT

HARRINGTON PLANNING + DESIGN (HP+D)
3116 S. MILL AVENUE, SUITE 305
TEMPE, ARIZONA 85282
JASON HARRINGTON, RLA, ASLA, ASIC, APWA
(480) 250-0116
JASON●HARRINGTONPLANNINGDESIGN.COM

HARRINGTON PLANNING + DESIGN
3116 S. Mill Avenue, Suite 305
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Tel: 480-250-0116
www.HarringtonPlanningDesign.com

REGISTERED LANDSCAPE ARCHITECT
44161
JASON E. HARRINGTON
01.29.19
ARIZONA U.S.A.

Child Crisis Arizona
827 North Country Club Drive
Mesa, Arizona 85210

REV.	COMMENT	DATE

2ND REVIEW SET	01.29.19
1ST REVIEW SET	09,20,18
ISSUE	DATE

Landscape Plan

January 29, 2019

DRAWN BY:	DCM
CHECK BY:	JEH
PROJ. NO.:	2018-040
CASE NO.:	NA

CASE NO.: 000000000

LANDSCAPE COVER

L0.1

1 of 6

ARIZONA BLUESTAKE CENTER
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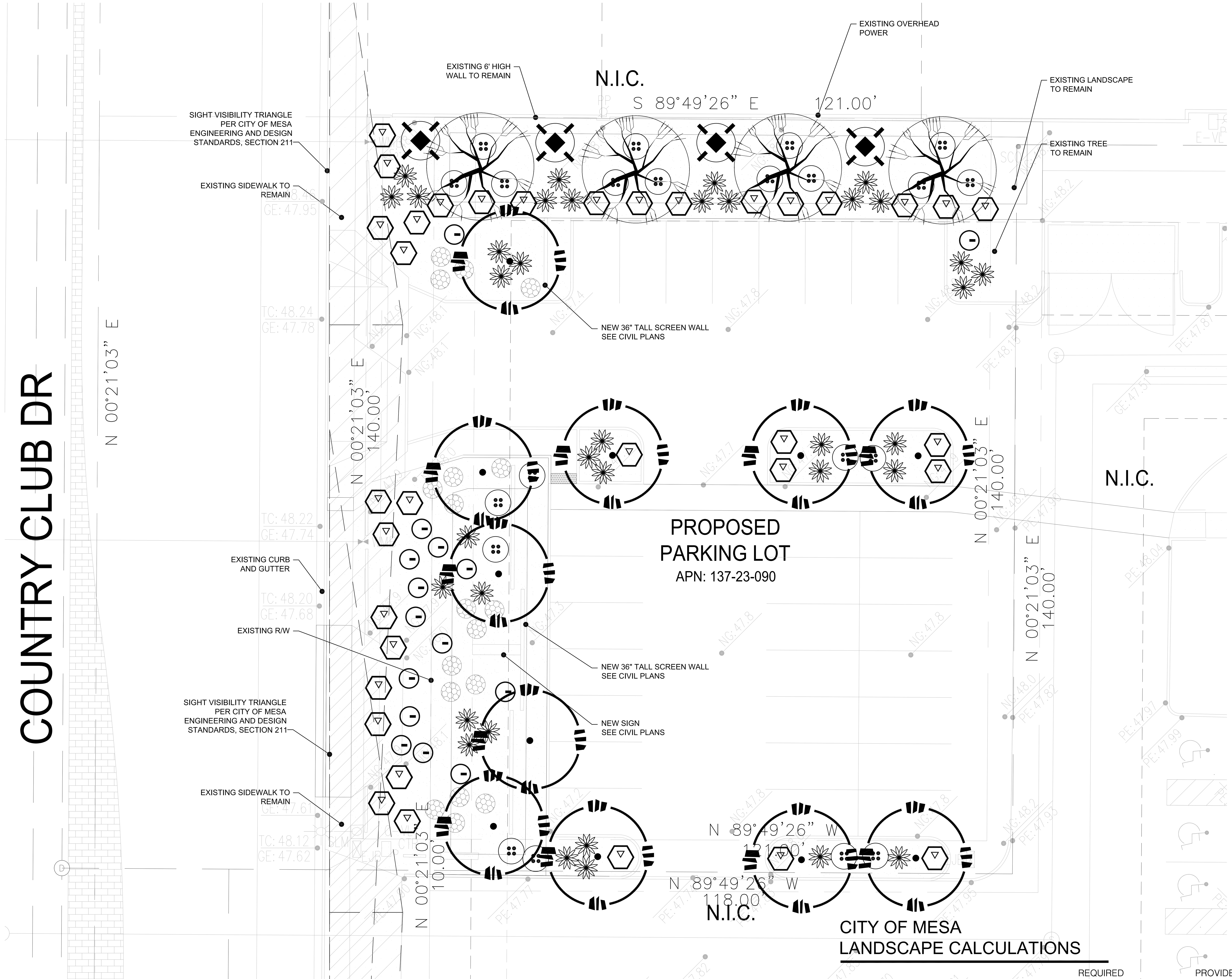

PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
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Decomposed Granite. 3/4" screened "Express Gold" 2" deep in planting areas per plan. Match existing color/size.			6,860 sq ft

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

SITE LANDSCAPE NOTES

1. FIELD VERIFY EXISTING SITE PRIOR TO BID AND CONSTRUCTION.
2. REFER TO CIVIL ENGINEERING PLANS FOR VERTICAL AND HORIZONTAL CONTROL.
3. PROTECT ALL UTILITIES DURING CONSTRUCTION.

CITY OF MESA LANDSCAPE CALCULATIONS

	REQUIRED	PROVIDED
PERIMETER LANDSCAPE PER 11-33-3 MESA Z/O ARTERIAL STREET - U DESIGNATE	3 TREE / 24 SHRUB PER 100 FT FRONTAGE	COUNTRY CLUB DRIVE: 148' = 1.48 x 3 (4.44 TREES): 5 TREES PROVIDED. 148' = 1.48 x 24 (35.52 SHRUBS) 66 SHRUBS PROVIDED
COVERAGE AREA	50% OF LS AREA	55% COVERAGE
INTERIOR PARKING LANDSCAPE PER 11-33-4 MESA Z/O	1 TREE / 3 SHRUB PER PLANTER ISLAND	2 TREE / 3.5 SHRUB PROVIDED PER PARKING ISLAND (AVERAGE)
FOUNDATION LANDSCAPE PER 11-33-5 MESA Z/O*	1 TREE / 50 LF BUILDING FACE	NOT APPLICABLE - NO STRUCTURE THIS PROJECT

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DRAWN BY:	DCM
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PROJ. NO.:	2018-040
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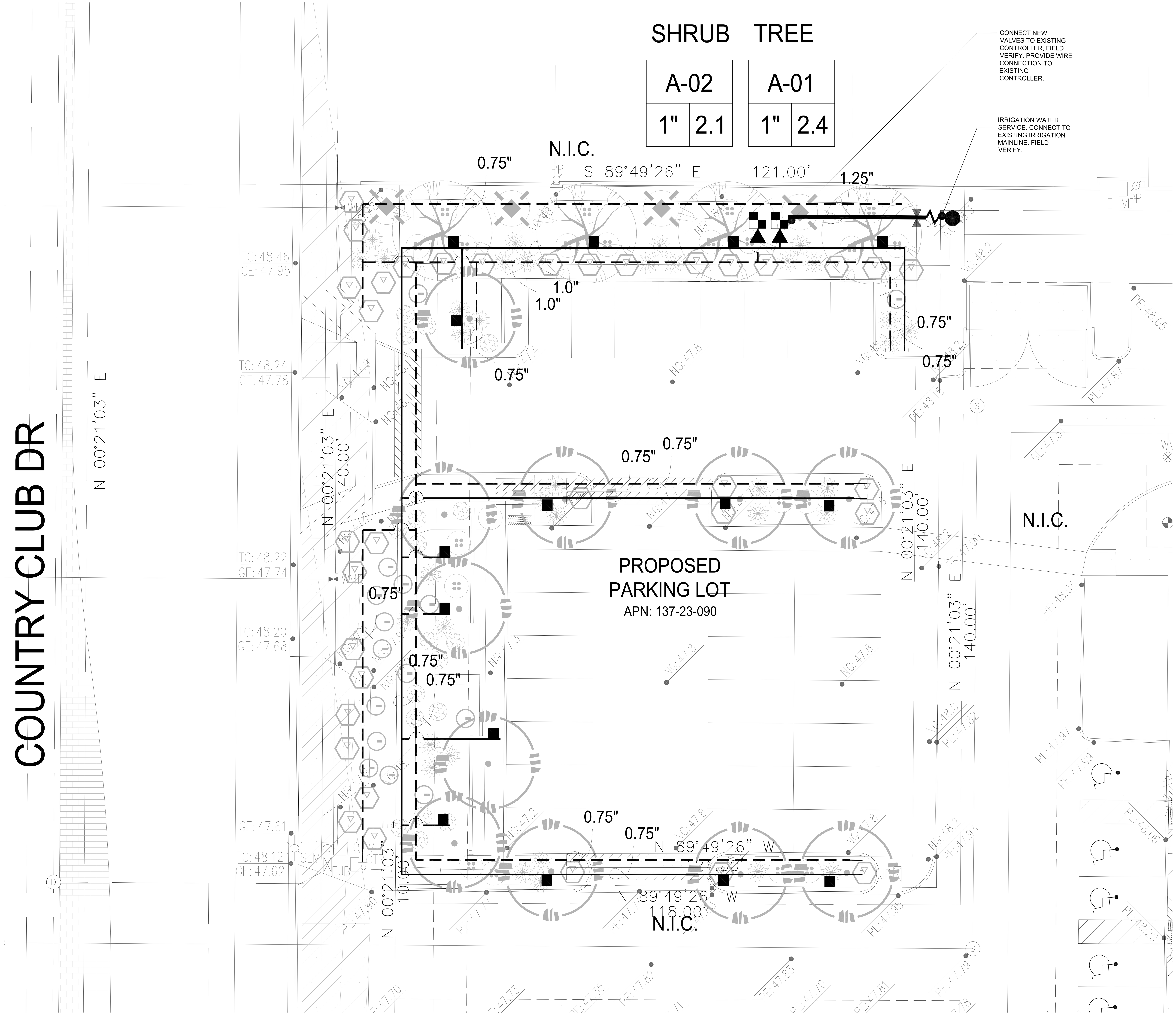
NORTH
0 5 10 20

CASE NO.: 00000000

LANDSCAPE PLAN

L1.0



IRRIGATION LEGEND

SYMBOL		
	SERVICE POINT	CONNECT TO EXISTING IRRIGATION SYSTEM MAINLINE WATER SERVICE
	GATE VALVE	NIBCO GATE VALVE, SIZE PER LINE BRONZE MATERIAL
	DRIP VALVE	HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
	DRIP FLUSH CAP	SPEARS FLUSH CAP 1/2" FLUSH VALVE
	PRESSURE REG.	SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
N/S	EMITTER - SP	BOWSMITH 1.0 GPH (1 PER PLANT)
	EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE)

PIPE LEGEND

	MAINLINE - 1" SIZE PVC SCH. 40
	TREE LATERAL PVC SCH. 40 - SOLVENT WELD
	SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
	PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

SITE IRRIGATION NOTES

1. FIELD VERIFY EXISTING SITE PRIOR TO BID AND CONSTRUCTION.
2. REFER TO CIVIL ENGINEERING PLANS FOR VERTICAL AND HORIZONTAL CONTROL.
3. PROTECT ALL UTILITIES DURING CONSTRUCTION.
4. ALL VENDOR PRODUCTS LISTED MAY BE SUBMITTED WITH COMPARABLE / EQUAL AS APPROVED BY OWNER.

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REGISTERED LANDSCAPE ARCHITECT CERTIFICATE NO. 44161 JASON E. HARRINGTON Date Signed 01.29.19 ARIZONA U.S.A.

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NORTH

0 5 10 20

IRRIGATION PLAN

L2.0

CASE NO.: 000000000

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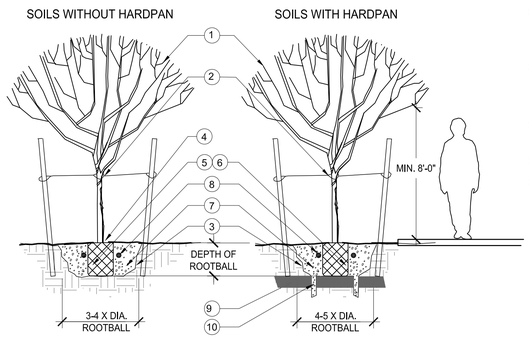
FERTILIZER TABLET SCHEDULE

AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 5 GAL.,
4 PER 15 GAL.,
6 PER 24"BOX
6 PER 36" BOX OR LARGER

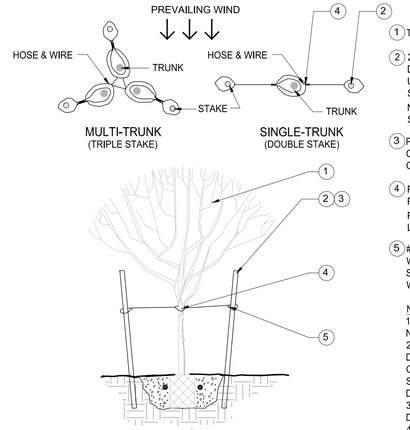


1. TREE.
2. REF. STAKING DETAIL.
3. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES.
4. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE.
5. PLACE ROOTBALL ON UNDISTURBED SOIL.
6. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLED WITH MINIMAL DISTURBANCE).
7. BACKFILL:
   PER SOIL AMENDMENT MIX OR NATIVE MATERIAL IF NONE DESCRIBED.
8. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE.
9. UNDISTURBED HARDPAN
10. DIG A MIN. OF 3 DRAINAGE CHIMNEY HOLES BESIDE ROOT BALL AND THROUGH HARDPAN

NOTES:
1. TRIM AND MAINTAIN TO PROVIDE A MINIMUM 8'-0" CLEARANCE FROM PATH TO TREE CANOPY.

1 TREE PLANTING

SCALE: N.T.S.

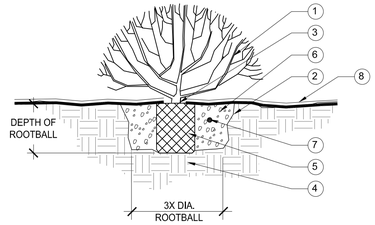


1. TREE PLANTING, REF. DETAIL.
2. 2" DIA. LODGEPOLE OR 2" SQ. STAKES DRIVEN VERTICALLY OR SLIGHT ANGLE IN UNDISTURBED SOIL. 8' TALL FOR #15 GAL. SIZE, 10' TALL FOR 24" BOX OR LARGER . NOTCH EACH STAKE WITH $\frac{3}{4}$" CUT TO SECURE WIRE AT.
3. PLACE OR CUT STAKES OFF BELOW THE CANOPY TO PREVENT DAMAGE TO OVERHEAD BRANCHES.
4. PLACE HOSE AND WIRE 6" ABOVE STRESS POINT OF TREE. NOTCH BACKSIDE OF POLY. USE $\frac{3}{4}$" ID RUBBER HOSE 12"-15" LONG MIN.
5. #12 DOUBLE STAND GALVANIZED WIRE, WRAP MINIMUM TWICE AROUND STAKE AND SECURE. WRAP MINIMUM OF 5X TO TIGHTEN WIRE END.

NOTES:
1, TYPICALLY LARGE SALVAGED TREES DO NOT NEED STAKING.
2, THE CONTRACTOR MAY USE THEIR OWN DISCRETION IN STAKING TREES OF 52" BOX OR LARGER AND SHOULD REVIEW SITE SPECIFIC CONDITIONS AND EACH TREE TO DETERMINE IF STAKING IS NECESSARY.
3.DO NOT DISTURB IRRIGATION SYSTEM DURING STAKING.
4. DOUBLE STAKE SINGLE TRUNK TREES, TRIPLE STAKE MULTI-TRUNK TREES.

2 TREE STAKING DETAIL

SCALE: N.T.S.



1. PLANT.
2. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES.
3. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE.
4. PLACE ROOTBALL ON UNDISTURBED SOIL
5. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLE WITH MINIMAL DISTURBANCE).
6. BACKFILL:
   PER SPECIFIED SOIL AMENDMENT MIX, OR NATIVE MATERIAL IF NONE DESCRIBED. REMOVE ALL ROCK 1" OR GREATER FROM BACKFILL.
7. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE .
8. INERT MULCH OR DG. REFER TO LEGEND.

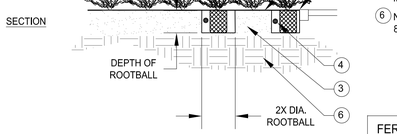
NOTES:
1. PROVIDE ADEQUATE DRAINAGE. REFER TO DETAIL REGARDING SOILS WITH HARDPAN OR CALICHE.

FERTILIZER TABLET SCHEDULE

AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 5 GAL.,
4 PER 15 GAL.,
6 PER 24"BOX
6 PER 36" BOX OR LARGER

3 SHRUB PLANTING

SCALE: N.T.S.



1. GROUNDCOVER / PLANT MATERIAL.
2. EDGE OF PLANTING BED.
3. 12" TILL NATIVE SOIL BED OR BACKFILL SOIL MIX:
   1 PART MULCH TO 3 PARTS TOPSOIL
   PLANTING PIT SIZES:
   1 GAL. OR 5 GAL.: 2X WIDTH OF ROOTBALL
   DEPTH-2X WIDTH OF ROOTBALL
4. PLANT FERTILIZER TABLET.
5. INSTALL 2" THICK MULCH LAYER. REF. LEGEND FOR MULCH MATERIAL / INERT MATERIAL.
6. NATIVE SUBGRADE OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.

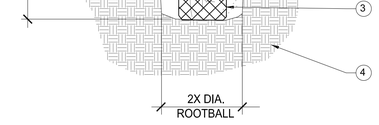
FERTILIZER TABLET SCHEDULE

AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 5 GAL.,
3 PER 15 GAL.,
4 PER 24"BOX
6 PER 36" BOX OR LARGER

NOTES:
1. REF. PLAN FOR DESIGN AND SPACING.

4 GROUNDCOVER PLANTING

SCALE: N.T.S.

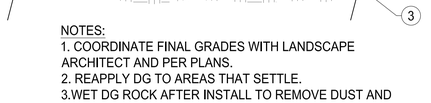


1. FINISH GRADE. SLOPE AWAY FROM BASE OF PLANT.
2. PLANTING PIT TO BE AS DEEP AS ROOTS.
3. BACKFILL TO BE NATIVE SOIL TREATED WITH SOIL SULFUR. HAND TAMP IN PLACE. WATER ONLY AT TIME OF PLANTING.
4. NATIVE SOIL. REMOVE ROCK 1" OR LARGER FROM BACKFILL.
5. INERT MULCH OR DG. REFER TO LEGEND.

NOTES:
1. IN AREAS WHERE CALICHE OR HARDPAN OCCURS BENEATH THE ROOTS, BORE THROUGH IT WITH AN 8" DIAMETER HOLE 12" DEEP.
2. PLANT AT SAME LEVEL AS FINISH GRADE OF ORIGINAL SOIL LINE OF BASE OF PLANT.

5 ACCENT PLANTING - CONTAINER

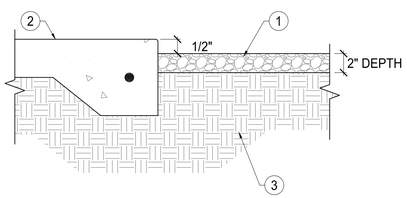
SCALE: N.T.S.



NOTES:
1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER PLANS.
2. REAPPLY DG TO AREAS THAT SETTLE.
3.WET DG ROCK AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
4. WASH DG FROM ADJACENT PAVEMENTS.
5. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

6 GRANITE INSTALLATION

SCALE: N.T.S.



1. DECOMPOSED GRANITE PER PLANTING LEGEND.
2. CONCRETE CURB OR WALK PER CIVIL PLANS.
3. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS. COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERENT CHEMICAL APPLICATION.

NOTES:
1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER CIVIL PLANS.
2. REAPPLY DG TO AREAS THAT SETTLE.
3.WET DG ROCK AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
4. WASH DG FROM ADJACENT PAVEMENTS
5. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

7 CONCRETE / GRANITE TRANSITION

SCALE: N.T.S.

1. DECOMPOSED GRANITE PER PLANTING LEGEND.
2. FINISH GRADE PER PLANS. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS.
3. COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERENT CHEMICAL APPLICATION.

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REGISTERED LANDSCAPE ARCHITECT
44161
JASON E. HARRINGTON
01.29.19
Not Signed
ARIZONA U.S.A.

Child Crisis Arizona
827 North Country Club Drive
Mesa, Arizona 85210

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Landscape Plan

January 29, 2019

DRAWN BY:	DCM
CHECK BY:	JEH
PROJ. NO.:	2018-040
CASE NO.:	NA

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LANDSCAPE DETAILS

L3.0

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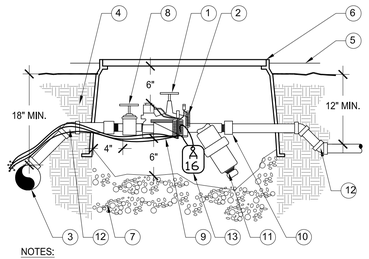


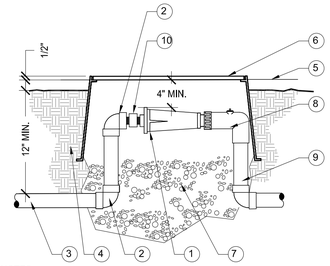
1. ELECTRIC REMOTE VALVE PER LEGEND.
2. EPOXY FILLED CYLINDER WIRE CONNECTORS.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
7. ¾" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
8. PVC ISOLATION BALL VALVE.
9. CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
10. PVC SCH 80 UNION.
11. WYE FILTER (#150 MESH) WITH STAINLESS STEEL SCREEN, POSITION TO ONE SIDE AND DOWNWARD.
12. PVC SCH 80 FITTINGS.
13. VALVE TAG. STANDARD VALVE I.D. AND LETTER TO CORRESPOND TO CONTROLLER AND VALVE NUMBER. AFFIX TO CONTROL WIRE W/ ELECTRICAL WIRE TIE.

NOTES:

1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP WIRE AROUND PIPE 15 TIMES).
2. SET VALVE BOX PARALLEL W/ GRADE.
3. SEAL THREADED JOINTS WITH TEFLON .
4. DO NOT REST VALVE BOX ON MAIN LINE.
5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
6. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
7. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

1 DRIP VALVE ASSEMBLY

SCALE: N.T.S.



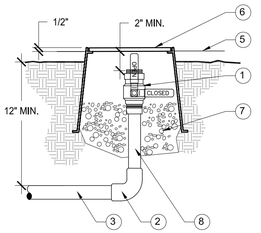
1. PRESET PRESSURE REGULATOR, 30 PSI OR PER LEGEND.
2. PVC SCH 80 FITTINGS.
3. PVC SCH 40 MAINLINE / LATERAL.
4. COMPACT SOIL AROUND PRESSURE REGULATOR ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.
7. ¾" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12") MIN.
8. PCV ELL ¾" HT SWIVEL W/ SCHRADER PRESSURE CHECK VALVE.
9. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
10. PVC SCH 80 UNION.

NOTES:

1. SET VALVE BOX PARALLEL WITH GRADE.
2. SEAL THREADED JOINTS WITH TEFLON .
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY 1 PRESSURE REGULATOR PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

2 PRESSURE REGULATOR - DRIP VALVE

SCALE: N.T.S.



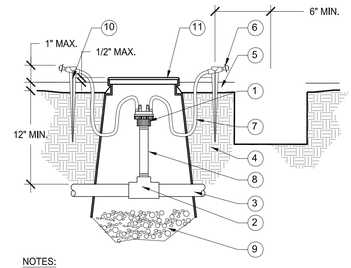
1. BRONZE ¾" THREADED FULL-PORT BALL VALVE.
2. PVC SCH 80 FITTINGS.
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
4. COMPACT SOIL AROUND FLUSH CAP ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
7. ¾" WASHED PEA GRAVEL SUMP, 1 CU. FT MIN.
8. PVC SCH 80 1/2" NIPPLE RISER (LENGTH AS REQUIRED).

NOTES:

1. SET VALVE BOX PARALLEL W/ GRADE.
2. SEAL THREADED JOINTS WITH TEFLON .
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY ONE FLUSH CAP PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

3 DRIP BALL VALVE FLUSH CAP

SCALE: N.T.S.



1. THREADED PRESSURE COMPENSATING EMITTER. SEE LEGEND FOR SIZE.
2. PVC SCH 80 FITTING, ELL OR TEE.
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
4. COMPACT SOIL AROUND EMITTER TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. BUG CAP.
7. 1/4" DISTRIBUTION TUBING. LOOP FOR A 5 FT. MAXIMUM LENGTH. NO KINKS IN TUBING.
8. PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
9. ¾" WASHED PEA GRAVEL SUMP, 1/2 CU. FT MIN.
10. 1/4" DISTRIBUTION TUBE EMITTER STAKE.
11. 6" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.

NOTES:

1. MULTI PORT EMITTER FOR TREES AND MASSED PLANTS ONLY.
2. TEFLON SEAL ALL THREAD JOINTS.
3. ON SLOPE CONDITIONS, PLACE EMITTER ON UPHILL SIDE OF PLANT.
4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
5. SPACE EMITTER TUBING EQUALLY AROUND DRIP LINE OF TREE.
6. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.
7. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
8. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

4 MULTI PORT EMITTER W/ DISTRIBUTION TUBING

SCALE: N.T.S.

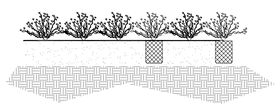
1. EMISSION POINT (TYP.).
2. PLANT ROOTBALL (TYP.).
3. MULTI-PORT EMITTER, SEE EMITTER DETAIL.
4. DISTRIBUTION TUBE, MAXIMUM LENGTH 5 FT. (TYP.) DO NOT KINK TUBING.
5. LATERAL PIPE, SCH 40 PVC OR PER IRRIGATION LEGEND.
6. TREE CANOPY.

NOTES:

1. MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE 5 FEET.
2. PLACE EMISSION POINT AT EDGE OF ROOTBALL ON UPHILL SIDE OF PLANT.
3. ADJUST EMITTER LOCATIONS AS DRIPLINE OF TREE INCREASES WITH GROWTH.
4. PLACE 50% OF DISTRIBUTION TUBES OUTSIDE OF TREE ROOTBALL DURING INSTALL FOR FUTURE GROWTH.

5 EMITTER LOCATIONS - TREES

SCALE: N.T.S.



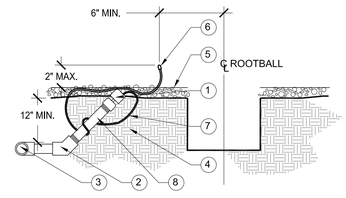
1. EMISSION POINT (TYP.).
2. PLANT ROOTBALL (TYP.).
3. MULTI-PORT EMITTER, SEE EMITTER DETAIL.
4. DISTRIBUTION TUBE, MAXIMUM LENGTH 5 FT. (TYP.) DO NOT KINK TUBING.
5. LATERAL PIPE, SCH 40 PVC OR PER IRRIGATION LEGEND.

NOTES:

1. MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULTI-PORT EMITTER.
2. MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE 5 FEET.
3. IF MORE THAN ONE DISTRIBUTION TUBE USED PER SHRUB, EQUALLY SPACE AROUND PLANT ROOTBALL.
4. PLACE EMISSION POINT AT EDGE OF ROOTBALL ON UPHILL SIDE OF PLANT.

6 EMITTER LOCATIONS - SHRUBS

SCALE: N.T.S.



1. PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE.
2. PVC SCH 80 FITTING, ELL OR TEE.
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
4. COMPACT SOIL AROUND EMITTER TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. BUG CAP.
7. DISTRIBUTION TUBING. LOOP AROUND PVC FOR A 5 FT MAXIMUM LENGTH. DO NOT KINK TUBING.
8. PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).

NOTES:

1. SINGLE PORT EMITTER FOR SHRUBS, ACCENTS, AND GROUND COVERS ONLY.
2. SEAL THREAD JOINTS WITH TEFLON .
3. SLOPE CONDITIONS: PLACE EMITTER ON UPHILL SIDE OF PLANT.
4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
5. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.

7 SINGLE PORT EMITTER W/ DISTRIBUTION TUBING

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44161
JASON E. HARRINGTON
01.29.19
ARIZONA U.S.A.

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Landscape Plan

January 29, 2019

DRAWN BY:	DCM
CHECK BY:	JEH
PROJ. NO.:	2018-040
CASE NO.:	NA

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IRRIGATION DETAILS

L4.0

5 of 6

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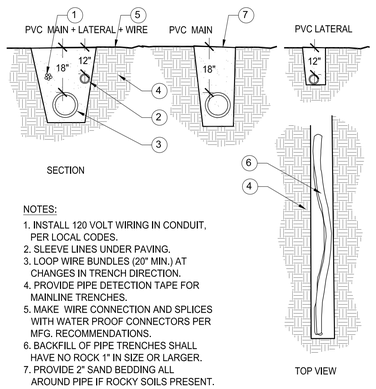


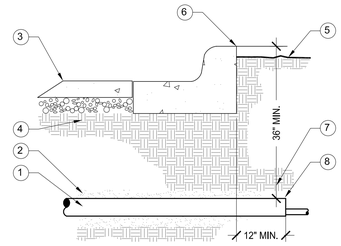
1. CONTROL WIRE BUNDLE, TAPE AT 10' INTERVALS.
2. PVC LATERAL LINE.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. SNAKE PVC PIPE IN TRENCHES.
7. COMPACT TRENCH BACKFILL IN 6" LIFTS. DENSITY TO MATCH ADJACENT SOIL CONDITIONS.

NOTES:

1. INSTALL 120 VOLT WIRING IN CONDUIT, PER LOCAL CODES.
2. SLEEVE LINES UNDER PAVING.
3. LOOP WIRE BUNDLES (20" MIN.) AT CHANGES IN TRENCH DIRECTION.
4. PROVIDE PIPE DETECTION TAPE FOR MAINLINE TRENCHES.
5. MAKE WIRE CONNECTION AND SPLICES WITH WATER PROOF CONNECTORS PER MFG. RECOMMENDATIONS.
6. BACKFILL OF PIPE TRENCHES SHALL HAVE NO ROCK 1" IN SIZE OR LARGER.
7. PROVIDE 2" SAND BEDDING ALL AROUND PIPE IF ROCKY SOILS PRESENT.

1 IRRIGATION TRENCH

SCALE: N.T.S.



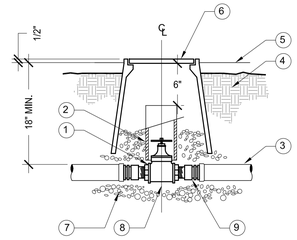
1. SCH. 40 PVC SLEEVE. TWICE DIAMETER OF SERVICE PIPE, SEE SLEEVE/PIPE SCHEDULE.
2. WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS.
3. PAVING.
4. COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. DISCRETELY PAINT OR MARK EDGE OF PAVING, CURB, OR WALK AT SLEEVE LOCATIONS.
7. 36" MIN. DEPTH OR PER LOCAL CODE.
8. EXTEND SLEEVES 12" BEYOND EDGES.

NOTES:

1. CAP SLEEVES UNTIL USE.
2. MULTIPLE SLEEVES REQUIRE 4" SEPERATION WITHIN SAME SLEEVE TRENCH.
3. PROVIDE SEPERATE WATER LINE AND WIRE SLEEVES AS REQUIRED. NO WIRES IN WATER SLEEVES.

2 IRRIGATION SLEEVE

SCALE: N.T.S.



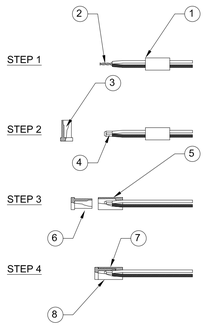
1. THREADED BRONZE GATE VALVE WITH SOLID WEDGE, NON-RISING STEM PER LEGEND.
2. PVC CL 200 PIPE (LENGTH AS REQUIRED), 6-INCH DIA.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
7. ¾" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12").
8. PROVIDE THRUST BLOCK FOR VALVES 2" OR LARGER.
9. SCH 80 PVC COUPLING, 2 PLS.

NOTES:

1. SET VALVE BOX ½" ABOVE FINISHED GRADE.
2. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

3 GATE VALVE ASSEMBLY

SCALE: N.T.S.



1. SLIP BASE SOCKET OVER END OF WIRES.
2. STRIP WIRES ½" FROM ENDS, TWIST ENDS TOGETHER.
3. APPLY SEALER TO OUTSIDE OF SEALING PLUG, FILL CAVITY WITH SEALER.
4. PLACE CRIMP SLEEVE OVER WIRE ENDS, CRIMP SLEEVE AND BEND OVER EXCESS WIRE.
5. PLACE BASE SOCKET OVER WIRE END SNUG TO CRIMP SLEEVE.
6. PUSH SEALING PLUG INTO BASE SOCKET.
7. PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION..
8. RAINBIRD PEN-TITE WIRE CONNECTOR APPROVED EQUAL.

NOTE: FOR WIRE SIZES NO.14, NO.12, AND NO.10

4 IRRIGATION WIRE CONNECTIONS

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