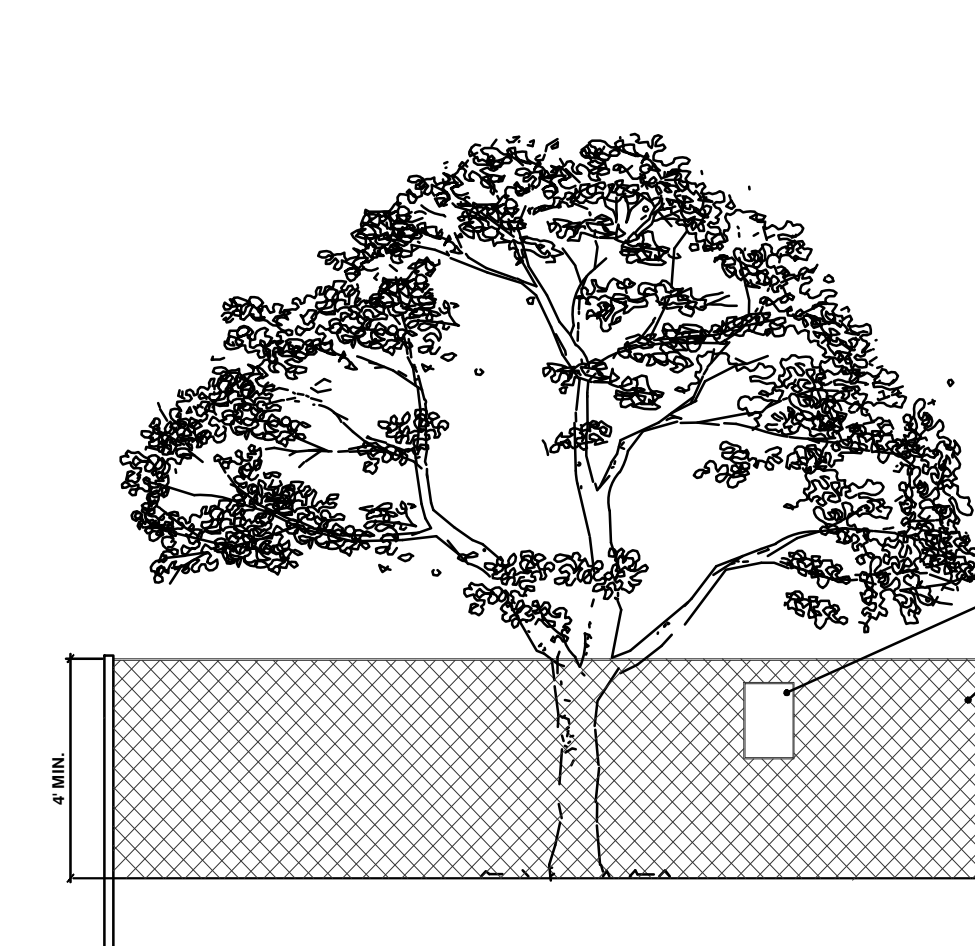
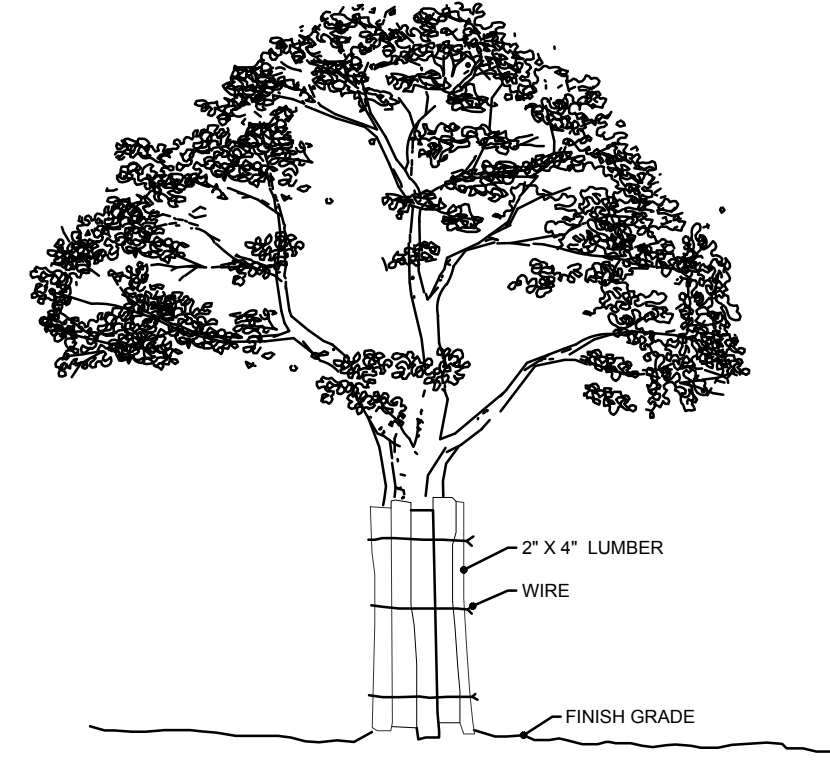
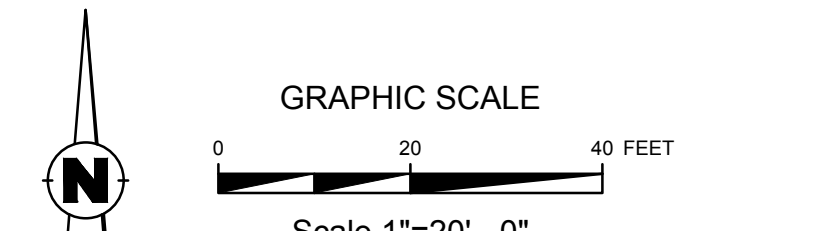
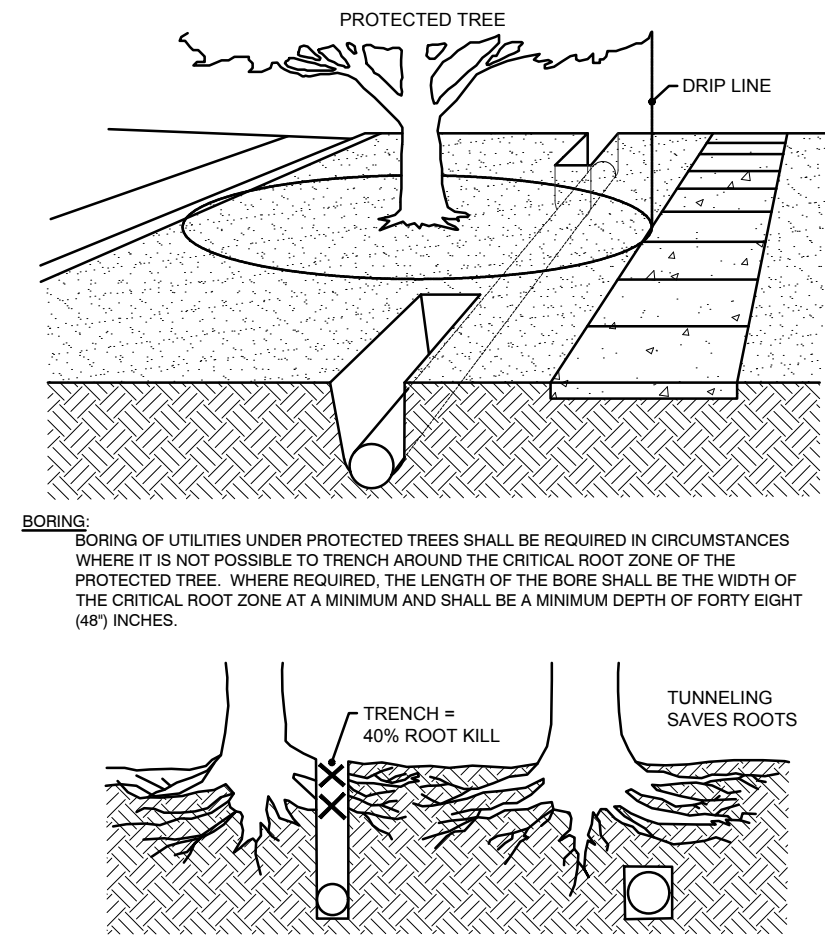




TREE PRESERVATION FENCING



3 BARK PROTECTION

WHERE A PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION, AND THE TREE MAY BE IN DANGER OF BEING DAMAGED BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE WITH 2" X 4" LUMBER ENCIRCLED WITH WIRE OR OTHER MEANS THAT DO NOT DAMAGE THE BARK OF THE TREE. THE INTENT IS TO PROTECT THE TRUNK OF THE TREE AGAINST INCIDENTAL CONTACT BY LARGE CONSTRUCTION EQUIPMENT.



AWR Designs, LLC
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Aledo, Texas 76008
amanda@awr-designs.com
c. 512.517.5589

TREE PRESERVATION NOTES

CONSTRUCTION METHODS:

BORING: BORING OF UTILITIES UNDER PROTECTED TREES MAY BE REQUIRED. WHEN REQUIRED, THE MINIMUM LENGTH OF THE BORE SHALL BE THE WIDTH OF THE CRITICAL ROOT ZONE AND SHALL BE A MINIMUM DEPTH OF FORTY (40) INCHES.

TRENCHING: A TRENCHING SHALL BE DESIGNED TO AVOID TRENCHING ACROSS CRITICAL ROOT ZONES OF ANY PROTECTED TREE. THE PLACEMENT OF UNDERGROUND UTILITY LINES SUCH AS ELECTRIC, PHONE, GAS, ETC., IS ENCOURAGED TO BE LOCATED OUTSIDE THE CRITICAL ROOT ZONE. TRENCHING FOR IRRIGATION SYSTEMS SHALL BE PLACED OUTSIDE THE CRITICAL ROOT ZONE EXCEPT THE MINIMUM REQUIRED SINGLE HEAD SUPPLY LINE. THIS LINE IS ALLOWED TO EXTEND INTO THE CRITICAL ROOT ZONE PERPENDICULAR TO THE TREE TRUNK WITH THE LEAST POSSIBLE DISTURBANCE.

TREES TO BE REMOVED: ALL TREES TO BE REMOVED FROM THE SITE SHALL BE FLAGGED BY THE CONTRACTOR WITH BRIGHT RED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF FOUR (4) FEET ABOVE GRADE.

TREES TO REMAIN: ALL TREES TO REMAIN, AS NOTED ON DRAWINGS, SHALL HAVE PROTECTIVE FENCING LOCATED AT THE TREE'S DRIP LINE. THE PROTECTIVE FENCING SHALL BE LOCATED AS INDICATED ON THE TREE PROTECTION DETAIL.

EXISTING TREES NOTED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION FROM DAMAGE AND COMPACTION OF SOIL UNDER AND AROUND DRIP LINE OF TREE

UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR PRUNE ANY PORTION OF THE DAMAGED TREE WITHOUT THE PRIOR APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

PROHIBITED ACTIVITIES IN CRITICAL ROOT ZONE:
THE FOLLOWING ACTIVITIES ARE PROHIBITED IN THE AREAS NOTED AS THE

MATERIAL STORAGE: NO MATERIALS INTENDED FOR USE IN CONSTRUCTION, OR WASTE MATERIALS ACCUMULATED DUE TO EXCAVATION OR DEMOLITION, SHALL BE PLACED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE.

EQUIPMENT CLEANING/LIQUID DISPOSAL: NO EQUIPMENT SHALL BE CLEANED, OR OTHER LIQUIDS DEPOSITED OR ALLOWED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF A PROTECTED TREE. THIS INCLUDES, WITHOUT LIMITATION: PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR SIMILAR MATERIALS.

TREE ATTACHMENTS: NO SIGNS, WIRES, OR OTHER ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY

VEHICULAR TRAFFIC: NO VEHICULAR AND/OR CONSTRUCTION, EQUIPMENT, TRAFFIC, OR PARKING SHALL TAKE PLACE WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE OTHER THAN ON EXISTING STREET PAVEMENT

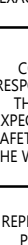
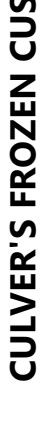
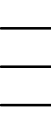
GRADE CHANGES: A MINIMUM OF 75% OF THE DRIP LINE AND ROOT ZONE SHALL BE PRESERVED AT NATURAL GRADE. ANY FINE GRADING DONE WITHIN THE CRITICAL ROOT ZONES OF THE PROTECTED TREES MUST BE DONE WITH LIGHT MACHINERY SUCH AS A BOBCAT OR LIGHT TRACTOR. NO EARTH MOVING EQUIPMENT WITH TRACKS IS ALLOWED WITHIN THE CRITICAL ROOT ZONE OF THE TREES.

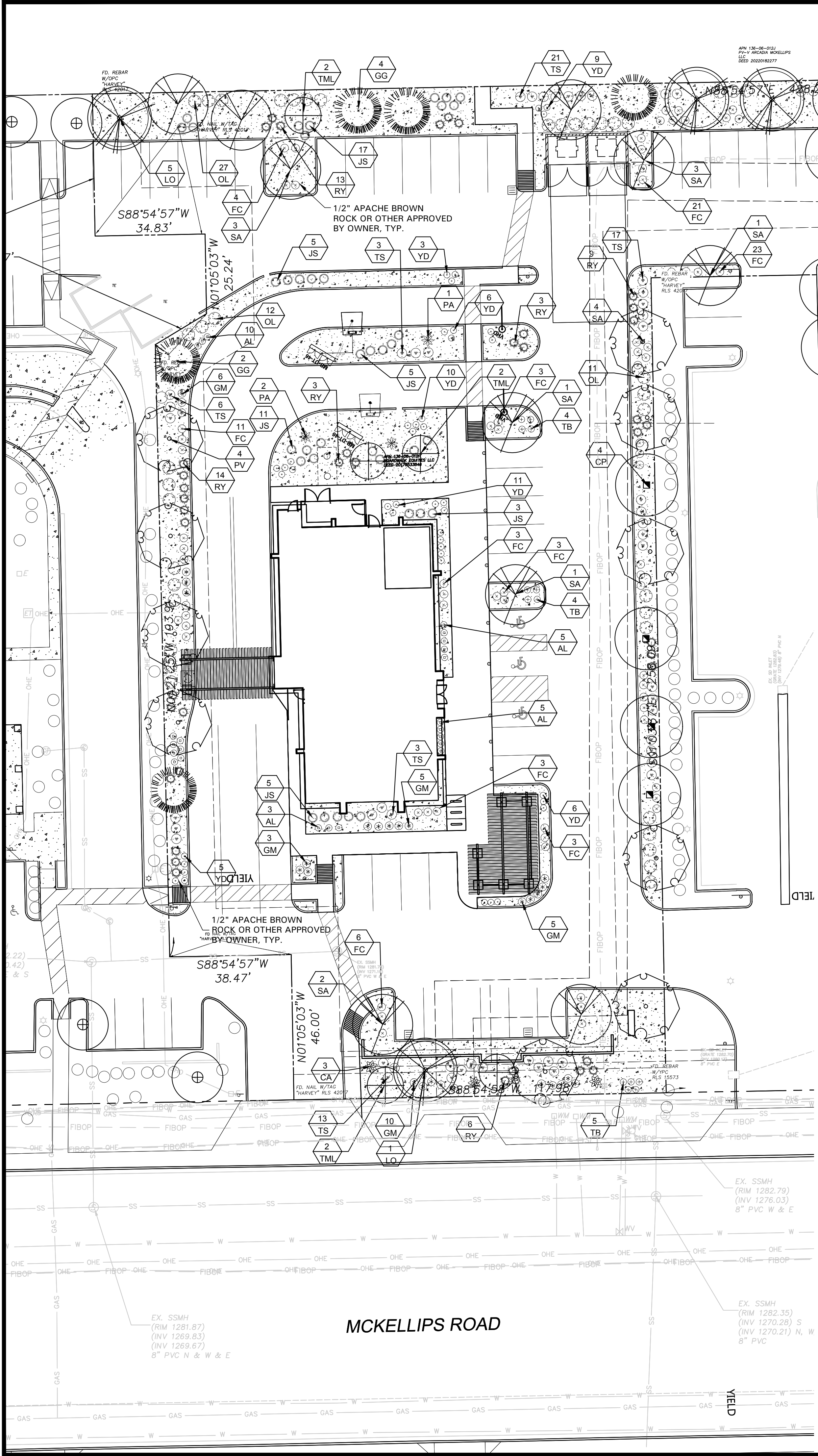
PROCEDURES REQUIRED PRIOR TO CONSTRUCTION:
PROTECTIVE FENCING: PRIOR TO CONSTRUCTION, THE CONTRACTOR OR SUBCONTRACTOR SHALL CONSTRUCT AND MAINTAIN, FOR EACH PROTECTED TREE ON A CONSTRUCTION SITE, A PROTECTIVE FENCING WHICH ENCLOSES THE OUTER LIMITS OF THE CRITICAL ROOT ZONE OF THE TREE TO PROTECT IT FROM CONSTRUCTION ACTIVITY. ALL PROTECTIVE FENCING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY SITE WORK, AND REMAIN IN PLACE UNTIL ALL EXTERIOR WORK HAS BEEN COMPLETED.

BARK PROTECTION: IN SITUATIONS WHERE A PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION, AND THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE DETERMINES THE TREE BARK TO BE IN DANGER OF DAMAGE BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE BY ENCLOSED THE ENTIRE CIRCUMFERENCE OF THE TREE WITH 2"x4" LUMBER ENDED WITH 2"x4" LUMBER OR OTHER MATERIALS THAT DO NOT DAMAGE THE TREE. THE INTENT IS TO PROTECT THE BARK OF THE TREE AGAINST INTERNAL CONTACT BY LARGE CONSTRUCTION EQUIPMENT.



WHERE A PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION, AND THE TREE MAY BE IN DANGER OF BEING DAMAGED BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE WITH 2" X 4" LUMBER ENCASED WITH WIRE OR OTHER MEANS THAT DO NOT DAMAGE THE BARK OF THE TREE. THE INTENT IS TO PROTECT THE TRUNK OF THE TREE AGAINST INCIDENTAL CONTACT BY LARGE CONSTRUCTION EQUIPMENT.

 Know what's below. Call before you dig. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND ARE NOT TO BE USED INDEPENDENTLY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR ON BEHALF OF THE CONTRACTOR'S FAILURE TO EXERCISE DUE CARE AND DILIGENCE TO LOCATE AND MARK ANY AND ALL EXISTING UTILITIES.	
NOTICE CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE CONTRACTOR NOR ATWELL LLC IS EXPECTED TO ASSUME ANY RESPONSIBILITY FOR THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES OR JOBS OR ANY OTHER PERSONS.	
CONSENT 0325 ATWELL LLC AND PRODUCTION SHALL BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF ATWELL LLC.	
24 HOUR EMERGENCY CONTACT ***** *****	
 ATWELL 866.850.4200 www.atwell-group.com 10000 RICHLAND HILLS, TX 76180 972.638.8860	
	
----- 1830 E. MCKELLIPS ROAD CITY OF MESA MARICOPA COUNTY, AZ	
CULVER'S FROZEN CUSTARD NORTH MESA SCOOP, LLC CIVIL IMPROVEMENT PLANS TREE PRESERVATION PLAN	
DATE 2025-04-23	
REVISIONS	
	
	
	
DRAWN BY: K. SARVAR CHECKED BY: A. ATCHLEY PROJECT MANAGER: C. ATCHLEY JOB #: 2408258 FILE CODE: ## SHEET NO. L101	



LANDSCAPE TABULATIONS for Mesa, AZ	
General Requirements	
1. 50% of all required open space shall contain live plant material	
Site: 64,258 s.f.	
REQUIRED	PROVIDED
evergreen tree @ 100 s.f. X 26 = 2600	
deciduous tree @ 50 s.f. X 20 = 1100	
ornamental tree @ 25 s.f. X 6 = 150	
large shrub 8' > @ 50 s.f. X 54 = 2700	
medium shrub 4-8' @ 25 s.f. X 127 = 3175	
small shrub <4' @ 10 s.f. X 137 = 1370	
evergreen g.c. @ 25 s.f. X 41 = 1025	
perennial plant/g.c. @ 5 s.f. X 55 = 275	
large ornamental grass @ 10 s.f. X 29 = 290	
TOTAL = 12,685 s.f.	
Perimeter Requirements	
McKellips Road: 118 l.f.	
REQUIRED	PROVIDED
5 trees	5 trees
28 shrubs	30 shrubs
East Adjacency: 280 l.f.	
REQUIRED	PROVIDED
8 evergreen trees	8 trees
56 shrubs	56 shrubs
North Adjacency: 314 l.f.	
REQUIRED	PROVIDED
13 trees	13 trees
63 shrubs	63 shrubs
West Adjacency: 320 l.f.	
REQUIRED	PROVIDED
6 trees	6 trees
64 shrubs	64 shrubs
Interior Parking Lot Requirements	
1. Each landscape island shall contain 1 tree and 3 shrubs.	
REQUIRED	PROVIDED
15 trees	17 trees
45 shrubs	81 shrubs
Building Requirements	
1. Building shall provide landscape at the base/foundation with plant materials such as trees, shrubs and perennials. Planting area shall be no less than 5' in depth.	
2. One tree shall be provided for every 50' of wall.	
REQUIRED	PROVIDED
foundation planting	foundation planting
1 trees	2 trees

PLANT SCHEDULE							
QTY	LABEL	COMMON NAME	SCIENTIFIC NAME	SIZE	NOTES	MATURE SIZE	CANOPY COVERAGE
TREES							(3.14 x R squared)* tree #
12	CP	Chinese Pistache	<i>Pistacia chinensis</i>	24" tree box	12' ht., 4' spread, matching	Deciduous, 40' x 35'	11539.5
7	GG	Ghost Gum	<i>Corymbia papuana</i>	24" tree box	12' ht., 4' spread, matching	Evergreen, 40' x 25'	3434.375
6	LO	Live Oak	<i>Quercus virginiana</i>	24" tree box	12' ht., 4' spread, matching	Evergreen, 40' x 50'	1884
10	PV	Fruitless Olive	<i>Olea europaea</i>	24" tree box	10' ht., 3' spread, matching	Evergreen 25' x 25'	4906.25
13	SA	Shoestring Acacia	<i>Acacia stenophylla</i>	24" tree box	12' ht., 4' spread, matching	Evergreen, 30' x 20'	4082
6	TML	Texas Mountain Laurel	<i>Sophora secundiflora</i>	24" tree box	8' ht., 4' spread min.	Evergreen, 10' x 8'	301.44
						TOTAL SITE CANOPY IN S.F.	26147.565
						SITE CANOPY PERCENTAGE	41%
SHRUBS							
23	AL	Medicinal Aloe	<i>Aloe vera</i>	5 gal.	full, 24" o.c.		
4	CA	Cowshorn Agave	<i>Agave bovicornuta</i>	5 gal.	full, 24" spread, 48" o.c.		
80	FC	Coral Fountain	<i>Russelia equisetiformis</i>	5 gal.	full, 30" o.c.		
29	GM	Pink Muhly (Gulf)	<i>Muhlenbergia capillaris</i>	3 gal.	full, 30" o.c.		
47	JS	Jerusalem Sage	<i>Phlomis fruticosa</i>	5 gal.	full, 24" sprd, 36" o.c.		
50	OL	Oleander	<i>Nerium oleander</i>	7 gal.	full, 30" sprd, 40" o.c.		
3	PA	Parry's Agave	<i>Agave parryi var. truncate</i>	5 gal.	full, 24" sprd, 36" o.c.		
48	RY	Red Yucca 'Brakelights'	<i>Hesperaloe parviflora</i> 'PERPA' Brakelights	5 gal.	full, 24" sprd, 30" o.c.		
41	TB	Turpentine Bush	<i>Ericameria laricifolia</i>	5 gal.	full, 24" o.c.		
63	TS	Texas Sage	<i>Leucophyllum frutescens</i>	5 gal.	full, 24" sprd, 36" o.c.		
55	YD	Yellow Dot	<i>Sphagneticola trilobata</i>	3 gal.	full, 24" o.c.		
GROUND COVER/VINES/GRASS							
Rock to match adjacent sites, potentially Apache brown 1/2"					match neighbor		

Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. Trees shall have a strong central leader and be of matching specimens. All plant material shall meet or exceed remarks as indicated.

LANDSCAPE NOTES

- CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING ELEMENTS. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LAYOUT DISCREPANCIES OR ANY CONDITION THAT WOULD PROHIBIT THE INSTALLATION AS SHOWN. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
- CONTRACTOR SHALL CALL 811 TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK. LANDSCAPE ARCHITECT SHOULD BE NOTIFIED OF ANY CONFLICTS. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR UNDERGROUND UTILITIES.
- A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES.
- CONTRACTOR SHALL FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS AS INDICATED. LEAVE AREAS TO RECEIVE TOPSOIL 3' BELOW FINAL FINISHED GRADE IN PLANTING AREAS AND 1' BELOW FINAL FINISHED GRADE IN LAWN AREAS.
- LANDSCAPE ISLANDS SHALL BE CROWNED, AND UNIFORM THROUGHOUT THE SITE. PLANTING AREAS AND SOD TO BE SEPARATED BY STEEL EDGING. NO STEEL EDGING SHALL BE INSTALLED ADJACENT TO BUILDINGS, WALKS OR CURBS. EDGING NOT TO BE MORE THAN 1/2" ABOVE FINISHED GRADE.
- EDGING SHALL BE CUT AT 45 DEGREE ANGLE WHERE IT INTERSECTS WALKS AND/OR CURBS.
- MULCH SHALL BE INSTALLED AT 1/2" BELOW THE TOPS OF SIDEWALKS AND CURBING. QUANTITIES ON THESE PLANS ARE FOR REFERENCE ONLY. THE SPACING OF PLANTS SHOULD BE AS INDICATED ON PLANS OR OTHERWISE NOTED. ALL TREES AND SHRUBS SHALL BE PLANTED PER DETAILS.
- CONTAINER GROWN PLANT MATERIAL IS PREFERRED HOWEVER BALL AND BURLAP PLANT MATERIAL CAN BE SUBSTITUTED IF NEEDED AND IS APPROPRIATE TO THE SIZE AND QUALITY INDICATED ON THE PLANT MATERIAL LIST.
- TREES SHALL BE PLANTED AT A MINIMUM OF 5' FROM ANY UTILITY LINE, SIDEWALK OR CURB. TREES SHALL ALSO BE 10' CLEAR FROM FIRE HYDRANTS.
- 4" OF SHREDDED HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED OVER WEED BARRIER FABRIC. MULCH SHALL BE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL. PINE STRAW MULCH IS PROHIBITED.
- WEED BARRIER FABRIC SHALL BE USED IN PLANT BEDS AND AROUND ALL TREES AND SHRUBS SHALL BE MIRAFI 1405 WEED BARRIER OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE UNIT PRICING OF LANDSCAPE MATERIALS AND BE RESPONSIBLE FOR OBTAINING ALL LANDSCAPE AND IRRIGATION PERMITS.

IRRIGATION

- ALL REQUIRED LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM WITH A FREEZE/RAIN SENSOR. SYSTEM SHALL ALSO HAVE AN ET WEATHER BASED CONTROLLER AND BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR.

MAINTENANCE REQUIREMENTS

- VEGETATION SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.
- MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR MAINTENANCE.
- ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

MISCELLANEOUS MATERIALS

- STEEL EDGING SHALL BE 3/16" X 4 X 16" DARK GREEN DURAEDGE STEEL.
- LANDSCAPE EDGING UNLESS NOTED OTHERWISE ON PLANS/DETAILS.
- ROCK SHALL LOCALLY AVAILABLE 3/4" DIAMETER. ROCK SHALL BE COMPACTED TO A MINIMUM OF 3" DEPTH OVER FILTER FABRIC.

PRUNING AND TRIMMING NOTES

- CONTRACTOR SHALL PRUNE ALL EXISTING TREES ON-SITE USING STANDARD GUIDELINES IN THE INDUSTRY.
- ALL TREES SHALL BE TRIMMED SO THAT NATURAL SHAPES OF THE PLANTS ARE RETAINED.
- DO NOT TOP OR HEAD TREES.
- IF BALLING OR SHEARING OF TREES HAS OCCURRED IN THE PAST, DISCONTINUE THIS PRACTICE AND ALLOW PLANTS TO GROW INTO NATURAL SHAPE.
- REMOVE SUCKERS, DEAD, DYING, DISEASED, BROKEN AND / OR WEAK BRANCHES FROM ALL TREES ALONG THE MAIN TRUNK STRUCTURE AND WITHIN THE BRANCHING AREA.
- CONTRACTOR SHALL PRUNE EXISTING DECIDUOUS HARDWOOD BY REMOVING LOWER LIMBS TO RAISE THE CANOPY. THE BOTTOM OF THE CANOPY SHALL BE RAISED TO 12'-0" ABOVE GRADE FOR DECIDUOUS HARDWOOD TREES, WHEN POSSIBLE. THE INTEGRITY OF THE CANOPY AND STRUCTURE OF THE TREE SHALL BE MAINTAINED. DO NOT CUT OR PRUNE CENTRAL LEADERS.
- CONTRACTOR SHALL THIN THE CANOPY BY ONE-FOURTH. PRUNE TREE TO EVENLY SPACE BRANCHES WITHIN THE CANOPY WHENEVER POSSIBLE. REMOVE THOSE LIMBS THAT CROSS OTHERS, DOUBLE LEADERS AND THOSE THAT EXCESSIVELY EXTEND BEYOND THE NATURAL CROWN OF THE TREE.
- CONTRACTOR SHALL PROVIDE DEEP ROOT FEEDING AND INVIGORATION OF EXISTING TREES. THIS SHALL BE ORGANIC BASED NUTRIENTS BASED FOR ROOT GROWTH AND LEAF GROWTH STIMULATION.
- CONTRACTOR SHALL BE REQUIRED TO CHIP ALL REMOVED BRANCHES, LEAFS, ETC.

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Call before you dig.

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NOTICE
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE PROVIDER SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY MAJOR STRUCTURES, OR OF ANY OTHER PERSONS.

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24 HOUR
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AZ COA # 35251

CULVER'S FROZEN CUSTARD

1830 E. MCKELLIPS ROAD

CITY OF MESA

MARICOPA COUNTY, AZ

NORTH MESA SCOOP, LLC

CIVIL IMPROVEMENT PLANS

LANDSCAPE PLAN

DATE 2025-04-23

REVISIONS

75119
AMANDA W.
RICHARDSON
2025-02-01
ATWELL U.S.A.

DRAWN BY: K. SARWAR
CHECKED BY: C. ATCHLEY
PROJECT MANAGER: C. ATCHLEY
JOB #: 24008258
FILE CODE: ##
SHEET NO: L102

