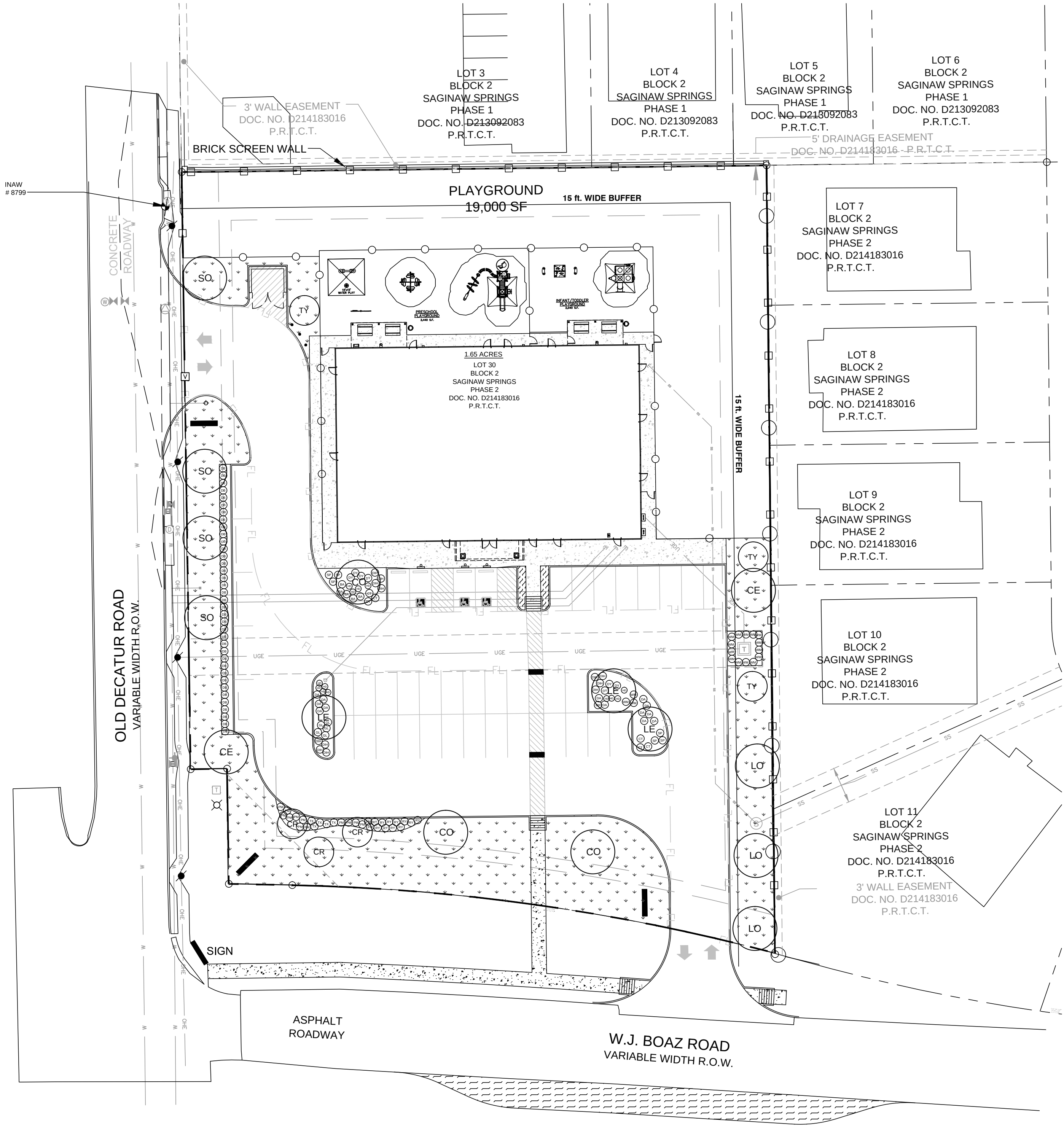


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TREE LEGEND

- Canopy Trees
- LO Live Oak
 - SO Shumard Oak
 - CE Cedar Elm
 - CO Chinquapin Oak
 - LE Lacebark Elm
- Ornamental Trees
- CR Crapemyrtle 'Tuscarora'
 - TY Ilex vomitoria

SHRUB LEGEND

- DIH Dwarf Indian Hawthorne
 DY Dwarf Yaupon
 PM Pink Muhly
 RY Red Yucca
 TX Texas Sage
 HD Harbor Dwarf Nandina
- SP Spiraea
 DA Dwarf Abelia
 WM Dwarf Wax Myrtle
 CL Giant Loropetalum
 BA Barberry
 CT Gray Cotoneaster

HATCH LEGEND

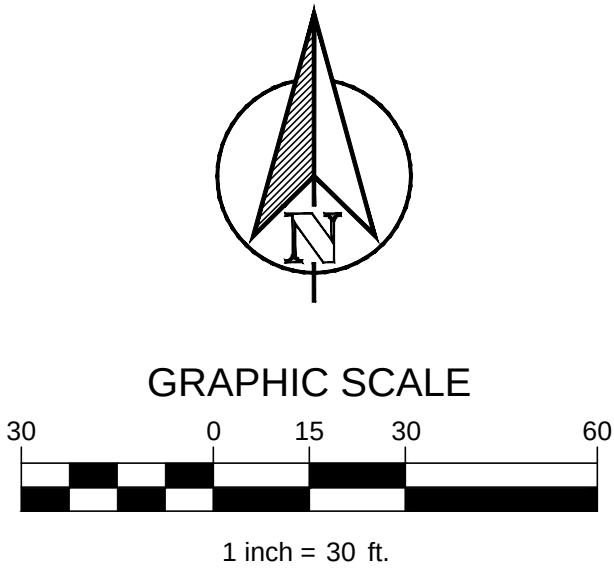
- Solid Sod
 Bermuda Grass
- Decomposed Granite

LANDSCAPE NOTES

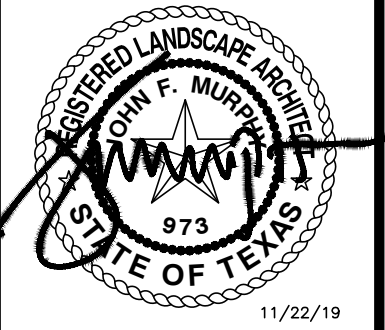
- The project will have an underground automatic irrigation system to water all new plantings.
- Install 4" layer of shredded hardwood mulch to all planting beds.
- Install 4" steel edging between all shrub beds and grass areas.
- Shrub beds to have 12 inches of prepared planting mix (75% import topsoil, 15% composted amendment, 10% washed sand)
- Shredded hardwood mulch must contain long strands along with double shred finer material obtained from a local source.
- Install 4 inches of clean topsoil in all areas of the site disturbed by grading and construction operations. Topsoil shall be free from sticks, debris and rocks larger than 2 inches in diameter and have an organic matter level of 3 percent minimum and a pH range between 5.5 and 7.4 percent. Provide soil test analysis from a soil test laboratory showing soil makeup and organic percentage.
- Solid sod or hydromulch all areas disturbed by construction activities as shown on plan.

site integration studio
 Landscape Architecture - Sustainable Site Planning - Natural Resource Design
 John F. Murphy, ASLA
 7529 Cross Gate Way
 Tyler, TX 75703
 john@siteint.com
 scott@siteint.com

512.632.3822 - Tyler
 512.589.9584 - Austin
 www.siteint.com



TEXAS REGISTRATION #14199
 CLAY MOORE
 ENGINEERING



TLE SAGINAW
 OLD DECATUR RD. AND WJ BOAZ RD
 SAGINAW, TEXAS

NO.	DATE	REVISION	BY

LANDSCAPE PLAN

DESIGN:	LRR
DRAWN:	LRR
CHECKED:	CLC
DATE:	11/22/2019

SHEET

L-1

PLOTTED BY: SCOTFULWILER
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PLANT LIST

CANOPY TREES				
3	LE	Lacebark Elm	Ulmus parviflora	3" cal. B&B 12' ht. 5' spread
3	CO	Chinquapin Oak	Quercus muhlenbergii	3" cal. B&B 12' ht. 5' spread
4	SO	Shumard Oak	Quercus shumardi	3" cal. B&B 12' ht. 5' spread
3	LO	Live Oak	Quercus virginiana	3" cal. B&B 12' ht. 5' spread
2	CE	Cedar Elm	Ulmus crassifolia	3" cal. B&B 12' ht. 5' spread
ORNAMENTAL TREES				
3	CR	Crapemyrtle	Lagerstroemia indica 'Tuscarora'	3" cal. B&B 10' ht. 5 trunk min.
3	TY	Tree Yaupon	Ilex vomitoria	3" cal. B&B 8' ht. 5 trunk min. female
SHRUBS & GROUNDCOVERS				
12	DIH	Dwf. Indian Hawthorne	Raphiolepis indica 'Pinkie'	5 gal. 36" oc
7	DY	Dwarf Yaupon	Ilex vomitoria 'Nana'	5 gal. 36" oc
14	PM	Pink Muhly	Muhlenbergia capillaris	5 gal. 36" oc
11	RY	Red Yucca	Hesperaloe parviflora	5 gal. 36" oc
37	DB	Dwf. Burford Holly	Ilex cornuta burfordii 'nana'	5 gal. 36" oc
5	TX	Texas Sage	Leucophyllum frutescens 'Silverado'	5 gal. 36" oc
12	HD	Harbor Dwf. Nandina	Nandina domestica 'Harbor Dwarf'	1 gal. 24" oc
6	SP	Spiraea	Spiraea 'Anthony Waterer'	5 gal. 36" oc
14	DA	Dwarf Abelia	Abelia grandiflora 'Edward Goucher'	5 gal. 36" oc
17	WM	Dwarf Wax Myrtle	Myrica pusilla	5 gal. 36" oc
5	GL	Giant Liriope	Liriope gigantea	5 gal. 36" oc
5	BA	Barberry	Berberis sp.	5 gal. 36" oc
6	CT	Gray Cotoneaster	Cotoneaster macrophyllus	5 gal. 36" oc

LANDSCAPE CALCULATIONS

Site Area	Required	Provided
71,874 SF	6,187 sf	14,368 sf total
- 10,000 SF (building)	10%	23.3%
61,874 SF		

Landscape area requirement	Required	Provided
6,187 SF	124 shrubs	126 shrubs
1 shrub per 50 SF	5 gallon	5 gallon

Landscape Buffer area	Req. Points	Provided
double sided 8 ft. wood fence 15 points	25	25
additional 10 ft buffer width 10 points		

Street Frontage	Total shrubs	Shrubs in frontage
75% of 5 gallon shrubs required	93	126 (100%)

Site Tree Coverage	need 20,503			
4 Shumard Oak	Large tree	8,000	3 Tree Yaupon	Small tree 300
2 Chinquapin Oak	Large tree	4,000	3 Crapemyrtle	Small tree 300
1 Cedar Elm	Large tree	2,000		600
3 Live Oak	Large tree	6,000		
		20,000		

Parking Coverage	need 9,548	
3 Lacebark Elm	Large tree	6,000
1 Chinquapin Oak	Large tree	2,000
1 Cedar Elm	Large tree	2,000
		10,000

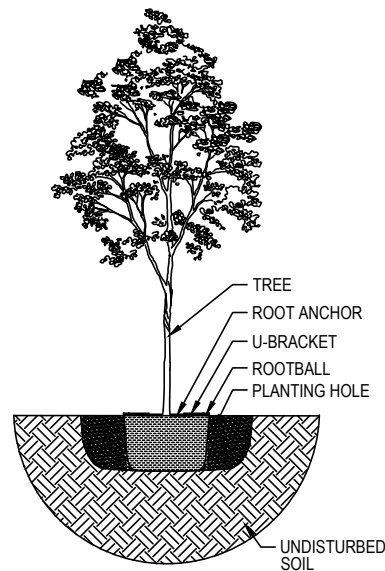
UF CALCULATIONS

Site Area	Required	Provided	
71,874 SF	20,503 sf	10 large trees 2000 sf each	20,000
- 3,532 SF (building)	30% canopy coverage	6 ornamental trees 100 sf each	600
68,342 SF			20,600 sf

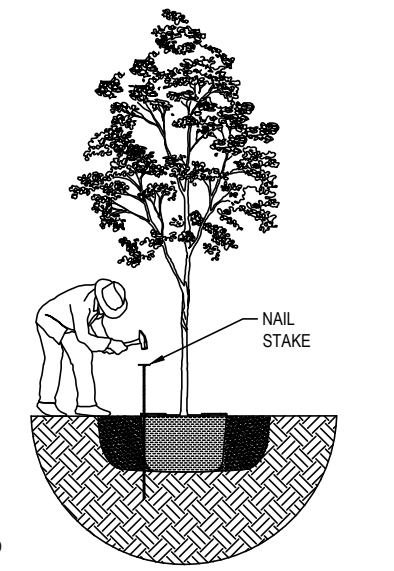
Parking Area	Required	Provided	
23,871 SF	9,548 sf	5 large trees 2000 sf each	10,000 SF
40% coverage			



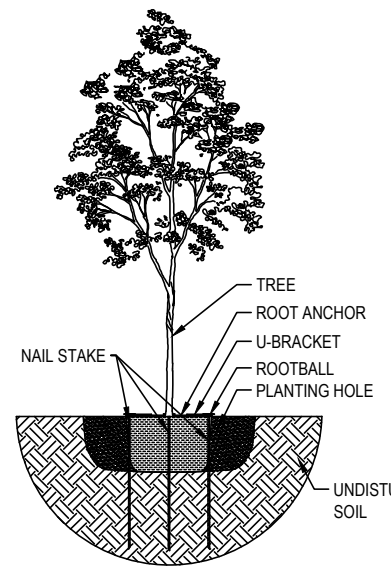
TREE STAKE SOLUTIONS LLC
9973 FM 521 ROAD
ROSHARON, TX 77583
PHONE: (281) 778-1400
FAX: (281) 778-1425
www.treestakesolutions.com



1. WITH TREE IN A STRAIGHT & PLUMB POSITION, CENTER THE APPROPRIATE ROOT ANCHOR SAFETY STAKE AROUND THE TRUNK, WITH RINGS LAYING FLAT AGAINST THE ROOTBALL. U-BRACKETS FACING UP.



2. INSERT 1 OF 3 NAIL STAKES THROUGH EACH OF THE U-BRACKETS. NAILS SHOULD REST IN THE UNDISTURBED SOIL AT THE BOTTOM OF THE TREE PIT. ALL NAILS SHOULD FIT SNUG AGAINST THE SIDE OF THE ROOTBALL.



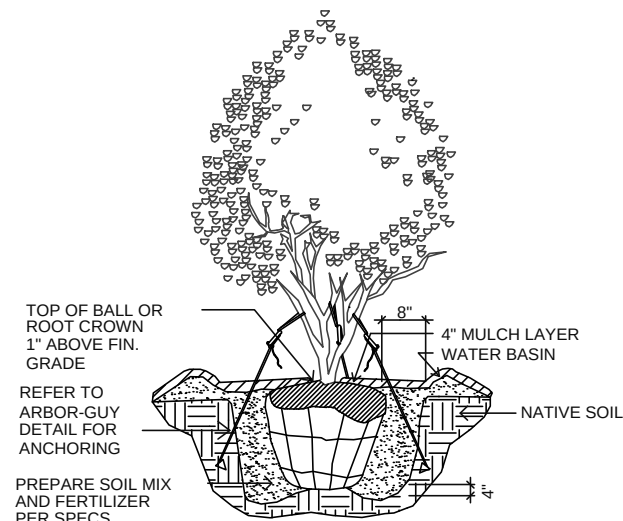
3. NAIL STAKES SHOULD BE DRIVEN STRAIGHT DOWN INTO THE UNDISTURBED SOIL BELOW THE ROOTBALL. THE NAILS ARE NOW CAGING THE ROOTBALL IN PLACE, WHILE THE TOP BRACKET PINS THE ROOTBALL DOWN.

AFTER THE TREE STAKE IS INSTALLED, A LAYER OF MULCH CAN BE ADDED OVER THE STAKE. REMOVE ROOT ANCHOR AFTER TREE IS ESTABLISHED.

ROOT ANCHORTM BELOW GRADE SAFETY STAKE SIZING CHART				
ITEM #	DESCRIPTION	NAIL LENGTH X 3PC (INCLUDED)	ITEM #	DESCRIPTION
5 BG	5 GALLON OR 10" ROOTBALL	#4 X 24"	100 BG	95/100 GALLON OR 36" ROOTBALL
15 BG	10/15 GALLON OR 17" ROOTBALL	#4 X 36"	150 BG	150 GALLON OR 42" ROOTBALL
30 BG	20/30 GALLON OR 22" ROOTBALL	#4 X 36"	200 BG	200 GALLON OR 48" ROOTBALL
45/65 BG	45/65 GALLON OR 27-30" ROOTBALL	#4 X 48"	300 BG	300 GALLON OR 80" ROOTBALL

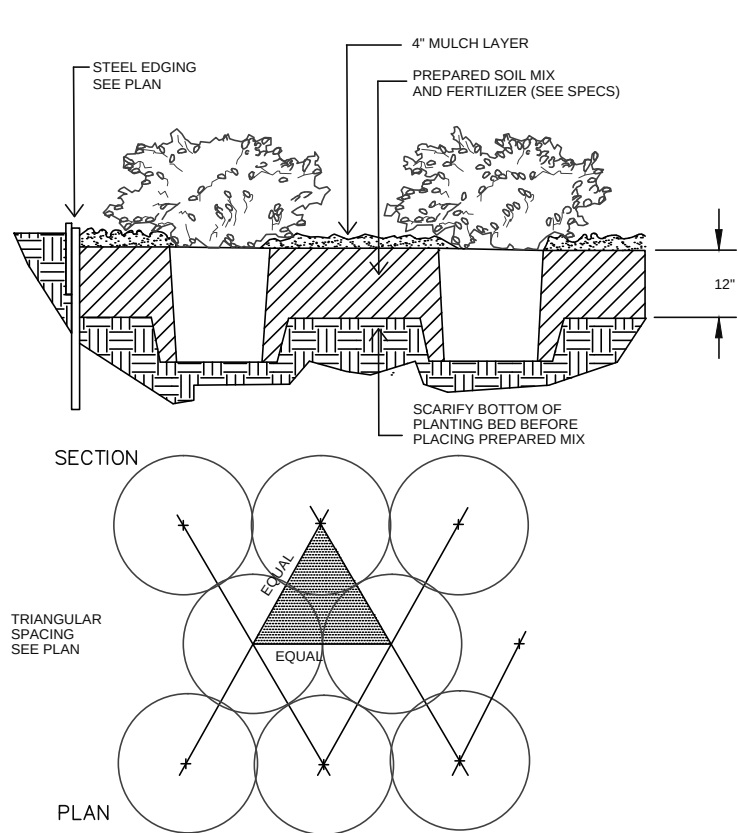
1 CANOPY TREE PLANTING

SCALE: NONE



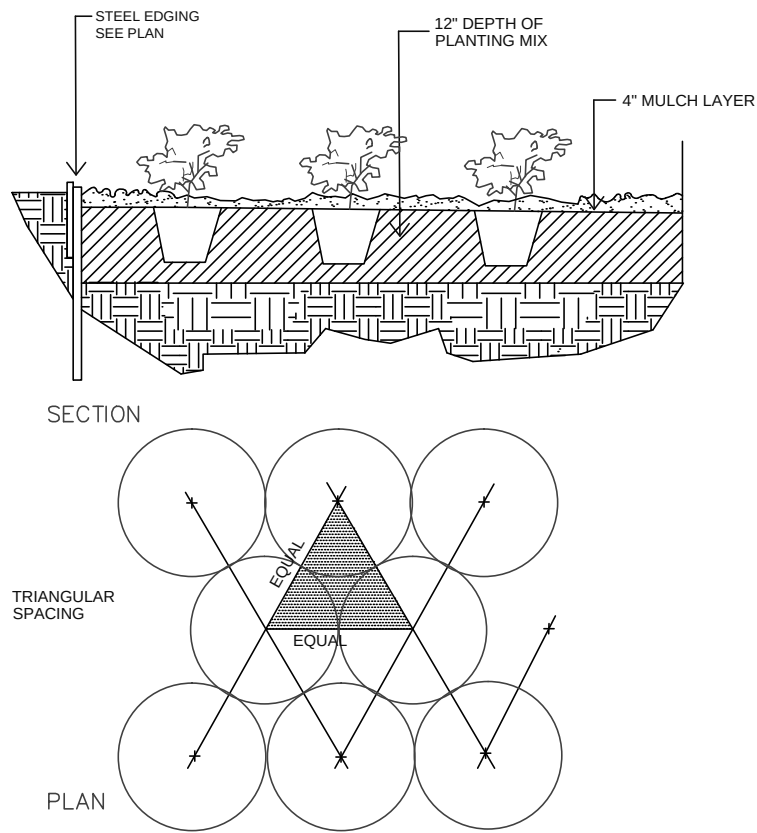
2 MULTI-TRUNK PLANTING

SCALE: NONE



3 SHRUB PLANTING

SCALE: NONE



4 GROUNDCOVER PLANTING

SCALE: NONE



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John F. Murphy, ASLA

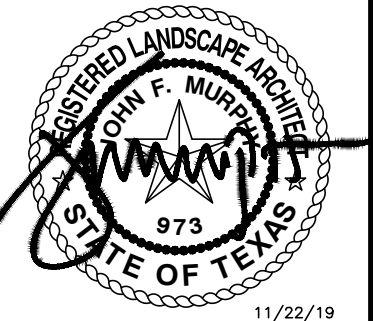
7529 Cross Gate Way
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PHONE: 817.281.0072
WWW.CLAYMOORE.COM



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NO.	DATE	REVISION	BY

LANDSCAPE DETAILS

DESIGN:	LRR
DRAWN:	LRR
CHECKED:	CLC
DATE:	11/22/2019
SHEET	
L-2	
File No.	2019-135