TREE MITIGATION CALCULATIONS

PROTECTED LIVE OAKS REMOVED:	0 INCHES
REQUIRED REPLACEMENT: (MIN. 4" PER TREE)	0 INCHES
PROTECTED PAMC TREES REMOVED:	0 INCHES
REQUIRED REPLACEMENT:	0 INCHES
OTHER PROTECTED TREES REMOVED 6–11.5": (0"/3)	0 INCHES
OTHER PROTECTED TREES REMOVED 11–23.5": (142"/3)	48 INCHES
OTHER PROTECTED TREES REMOVED 24"+: (70"/1)	70 INCHES
TOTAL REPLACEMENT REQUIRED:	118 INCHES
TOTAL REPLACEMENT PROVIDED:	124 INCHES
SURPLUS:	6 INCHES

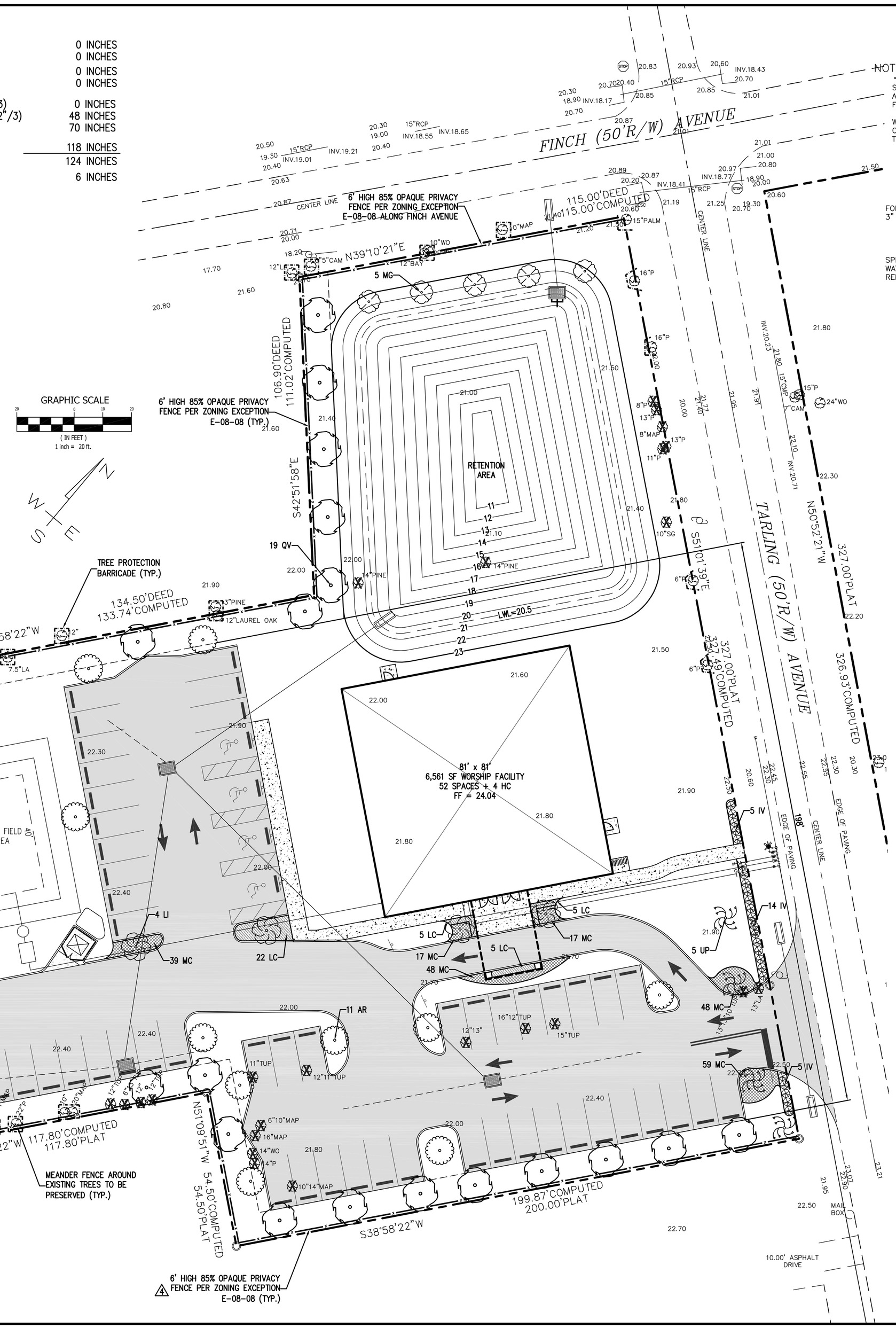
LANDSCAPE CALCULATIONS

STREET FRONTAGE – TARLING AVENUE
FRONTAGE: 199 LF – 24' D/W – 81' BLDG = 93 LF
REQUIRED AREA (93 LF x 10 FT): 930 SF
PROVIDED: 1,808 SF
TREES:
1 TREE PER 50 LF REQUIRED 2 TREES
SHRUBS:
REQUIRED (93 LF x 75%) = 69.75 LF
69.75 LF / 3 FT PER SHRUB = 24 SHRUBS

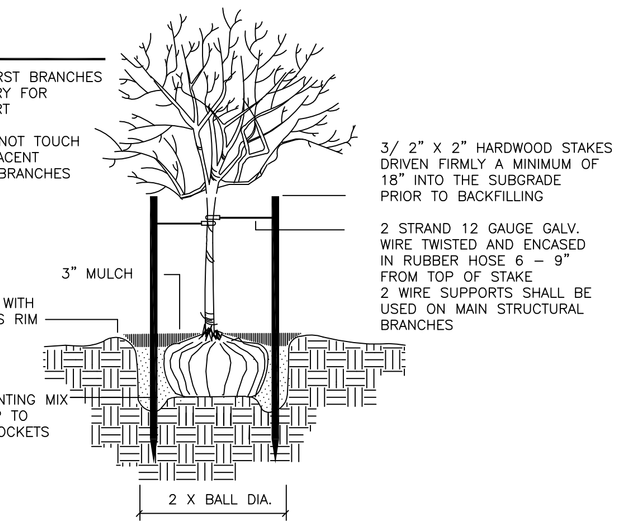
STREET FRONTAGE – SHRIKE AVENUE
FRONTAGE: 158 LF – 24' D/W = 134 LF
REQUIRED AREA (134 LF x 10 FT): 1,340 SF
PROVIDED: 1,537 SF
TREES:
1 TREE PER 50 LF REQUIRED 3 TREES
SHRUBS:
REQUIRED (134 LF x 75%) = 100.5 LF
100.5 LF / 3 FT PER SHRUB = 34 SHRUBS

INTERIOR VUA
TOTAL INTERIOR VUA: 23,174 SF
REQUIRED AREA (23,174 SF / 10 SF): 2,318 SF
PROVIDED: 5,125 SF
TREES:
TREES REQUIRED: (1/4,000 SF VUA) 6 TREES
SHRUBS:
REQUIRED (2,318 x 25%) = 579.5 SF
579.5 SF / 6.25 SF PER SHRUB = 93 SHRUBS

ADJACENT PROPERTY
FRONTAGE: 614 LF
REQUIRED AREA (614 LF x 10 FT): 6,140 SF
PROVIDED: 6,140 SF
TREES:
1 TREE PER 25 LF REQUIRED 25 TREES



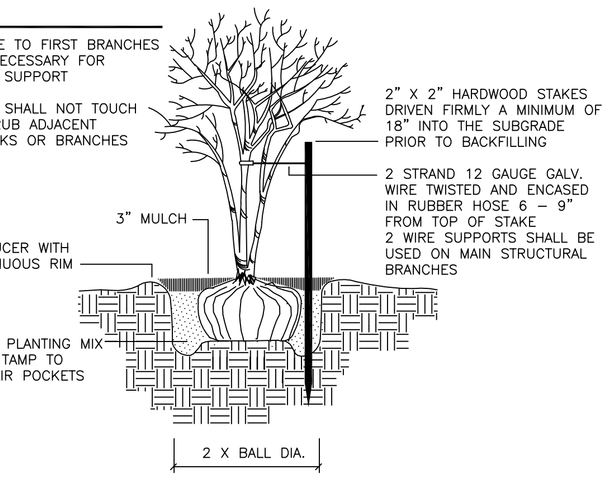
NOTE:
STAKE TO FIRST BRANCHES AS NECESSARY FOR FIRM SUPPORT
WIRE SHALL NOT TOUCH OR RUB ADJACENT TRUNKS OR BRANCHES



SINGLE-TRUNK TREE STAKING

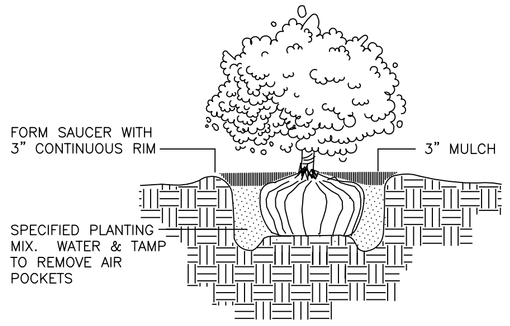
SCALE: NOT TO SCALE

NOTE:
STAKE TO FIRST BRANCHES AS NECESSARY FOR FIRM SUPPORT
WIRE SHALL NOT TOUCH OR RUB ADJACENT TRUNKS OR BRANCHES



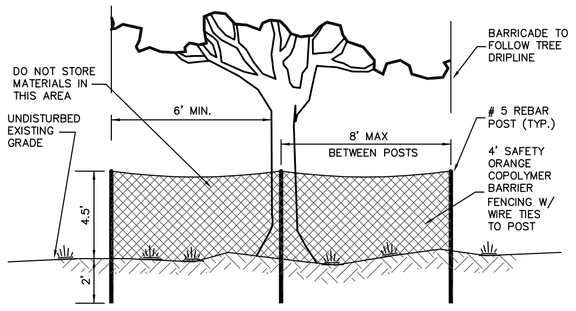
MULTI-TRUNK TREE STAKING

SCALE: NOT TO SCALE



SHRUB PLANTING

SCALE: NOT TO SCALE



TREE PROTECTION BARRICADE

SCALE: NOT TO SCALE

PLANTING NOTES:

1. The landscape contractor if responsible for verifying the project site and all of the quantities indicated on these plans before bidding this job.
2. Plant materials should be Florida Grade #1 or better that has been nursery grown. Refer to Florida Grades and Standards handbook.
3. All plants shall be in good health, vigorous, evenly branched and thickly foliated when in leaf. All plants shall be free of disease, insects (including eggs and larvae), as well as a healthy developed root system. They should also be free of physical damage or adverse conditions that would prevent thriving growth.
4. All plants will be container grown or B&B indicated in the plant list.
5. Plants shall conform to the specifications on the plant list.
6. There will be no substitute of plant materials unless authorized by the landscape designer in writing. If proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size or variety with the corresponding adjustment of contract price.
7. Plant material locations and bed outlines shall be staked or flagged on site by the contractor and shall be adjusted if required to fit actual as–built conditions on site and approved by the owner or owners representative.
8. All proposed tree planting locations shall be staked or flagged before installation by the landscape designer and approved by the owner or owners representative.
9. The contractor shall excavate plant pits, according to the drawings, unless otherwise directed.
10. All container grown rootballs shall be carefully scoured before setting in plant pits.
11. All backfill around plant materials shall be worked firmly, tamped and watered in under and around the rootball to fill all voids.
12. Landscape designer shall bear final responsibility for proper surface drainage of planted areas. Any discrepancy in the drawings, obstruction on the site, or prior to work done by any other party, which the contractor feels precludes establishing proper drainage shall be brought to the attention of the landscape designer for correction or relief of said responsibility.
13. Planting beds shall be cut or edged to form a uniform clean line between beds and lawn areas.
14. After all plant material in a bed area has been installed and approved, the areas between plants shall be raked to an even grade to conform to premulching finish grades. All planting beds and plant saucers shall then be uniformly covered with a minimum three inch layer of #2 grade or better natural cypress mulch.
15. All planting bed areas with acceptable topsoil shall be top dressed with 50% organic 6–6–6 commercial fertilizer at a rate of nine ponds per 1000 square feet and tilled to a minimum depth of three inches.
16. Plant material backfill mixture shall thoroughly mixed in the following preparations:
    50% existing clean topsoil
    50% soil mix: 1/3 peat, 1/3 topsoil, 1/3 composted cow manure
17. The landscape designer is responsible for all fine grading preparation for planting.
18. Rough grades will be established by the owners general contractor at approximately 3 inches below curbs, sidewalks, hardscape amenities, mowing strips and abutments.
19. Contractor shall coordinate construction of planting areas with installation of irrigation system or hose bibs, whichever is specified.
20. Where seeding may be required on the plans, germination rate shall be the maximum percentage required for the variety specified at the rate of application specified.
21. Sod areas shall be specified sod. Grass for sodding shall be freshly cut in squares one foot wide by two feet long. Sod shall be healthy, free of insect, in naturally flourishing conditions. Dry, brown, and unfresh sod will be rejected.
22. Sod shall be laid end–to–end and side–to–side in a staggered line to form a uniform layer. All uneven edges shall be squarely trimmed to allow close and firm fitting if each piece.
23. After sodding is completed the entire sod areas shall be watered by hand or irrigation system each day for two weeks. Sodded areas shall then be top dressed with a commercial fertilizer as directed herein at eh rate of 12 pounds per 1000 square feet of area in an evenly brood case pattern.
24. The landscape contractor is responsible for fully maintaining all plant material on site during and before planting, until the work is accepted by the landscape designer and/or owner.
25. All plants shall be guaranteed by the landscape contractor to be healthy plants and in flourishing condition for ninety (90) days from final inspection and acceptance. All trees shall be guarantee an additional one–year from final inspection and acceptance.
26. The landscape designer, owner, or owners representative shall have the right to reject any and all work which in his opinion does not meet with the requirements of the specifications at any stage of the project operation.
27. In general, the work shall proceed as rapidly as the site becomes available. Keep all areas of work clean, neat, and orderly at all times.
28. There will be special care to all existing trees to be retained on site to avoid construction damage.
29. If an automatic irrigation system is to be provided in lieu of hose bibs as shown on the plan, a shop drawing of the layout and hose bibs must be submitted to the governmental agency, for review and approval, prior to the installation.
30. Irrigation system shall be fully automatic, providing 100% coverage to all planting areas, with all pop up heads in lawn area.
31. Irrigation station shall be set where there will be no mixing of shrub and lawn areas, fixed spray heads with gear driven heads or impacts. Shrub risers shall be minimum 2.5' from EOP and all heads minimum 1' from building.
32. A double check backflow prevention (or approved equal); equal to a DCA–100; to be mounted in a rectangular valve box (12' x 10'0 on the service side of the meter and immediately adjacent to the water meter.
33. After the landscape plan is approved by the governmental agency any subsequent changes must be resubmitted for review and approval.
34. Shade trees shall be planted minimum of 4' from EOP and 15' from OHE.

TREE LEGEND

14"LA	DENOTES 14" LAUREL OAK
14"WO	DENOTES 14" WATER OAK
14"HICK	DENOTES 14"HICKORY
14"CAM	DENOTES 14"CAMPHOR
14"MAP	DENOTES 14"MAPLE
14"TUP	DENOTES 14"TUPELO
14"SG	DENOTES 14"SWEETGUM

IRRIGATION NOTE:

2 IRRIGATION PLAN SHALL BE PROVIDED PER COJ REQUIREMENTS.

PLANT SCHEDULE

QUANTITY	SYMBOL	DESCRIPTION	SPECS. / SPACING
		TREES	
5	MG	SOUTHERN MAGNOLIA – MAGNOLIA GRANDIFLORA	MIN. 10' HT., 2" CAL. / AS SHOWN
19	QV	LIVE OAK – QUERCUS VIRGINIANA	12–14' HT., 4" CAL. / AS SHOWN
5	UP	DRAKE ELM – ULMUS PARFIVOLIA	MIN. 10' HT., 2" CAL. / AS SHOWN
11	AR	RED MAPLE – ACER RUBRUM	12–14' HT., 4" CAL. / AS SHOWN
4	LI	LAGERSTROEMIA INDICA – CRAPE MYRTLE	8' HT., 3" CAL., 8' SPD., MIN 3 TRUNKS / AS SHOWN
		SHRUBS AND GROUNDCOVER	
65	IV	YAUPON HOLLY – ILEX VOMITORIA	MIN. 18" HT., 3 GAL., 36" O.C.
37	LC	LANTANA – LANTANA CAMARA 'GOLD MOUND'	3 GAL., 30" O.C.
228	MC	MUHLY GRASS – MUHLENBERGIA CAPILLARIS	1 GAL., 18" O.C.
	SOD	ST. AUGUSTINE "FLORATAM"	FRESH CUT
		MULCH WITH RED CYPRESS AT MINIMUM 3" DEPTH	GRADE A

SOD ALL 4:1 SLOPES OR GREATER, LANDSCAPE ISLANDS AND 10' FROM EOP. COORDINATE FURTHER GRASSING WITH GENERAL CONTRACTOR.

BRIDEGROOM APOSTOLIC CHURCH
S.W. CORNER OF TARLING AVENUE AND FINCH AVENUE

LANDSCAPE PLAN

WILLIAM E. (ED) TULLY III., INC.
Consulting Civil Engineer
FLORIDA REG. P.E. # 36191
(904) 824-6371; Fax: (904) 824-9305
10625 Quail Ridge Drive - Ponte Vedra, FL 32081
Certificate of Authorization # 4576
Not valid unless embossed by a seal

THE JOHN STOKES COMPANY
(904) 321-1832
2424-A LYNNDALE ROAD
FERNANDINA BEACH, FLORIDA
FLA. CERTIFICATION NO. CGC026018

No.	Revisions	Date	By
1	PER JEA COMMENTS	02-09-06	WES
2	PER COJ TO SET, S.RIMD.RAI	03-04-09	WES
3	PER HRS	03-25-09	WES
4	PER COJ TO SET FINAL	03-25-09	WES
5	PER COJ TO SET	04-06-09	WES
6	PER DCRD	04-27-09	WES
7			

Date	01-27-09
Scale	1"=20'
Drawn	WES
Checked By	WET
Job	09-003
Sheet	L1

NOT RELEASED FOR CONSTRUCTION

C:\1Drawings\William E Tully III, Inc\W09-003 Bridegroom Apostolic Church\09-003 Civil-Land.dwg, L1-LAND, 5/2/2009 11:11:48 AM, PDF Wizard, 1:1