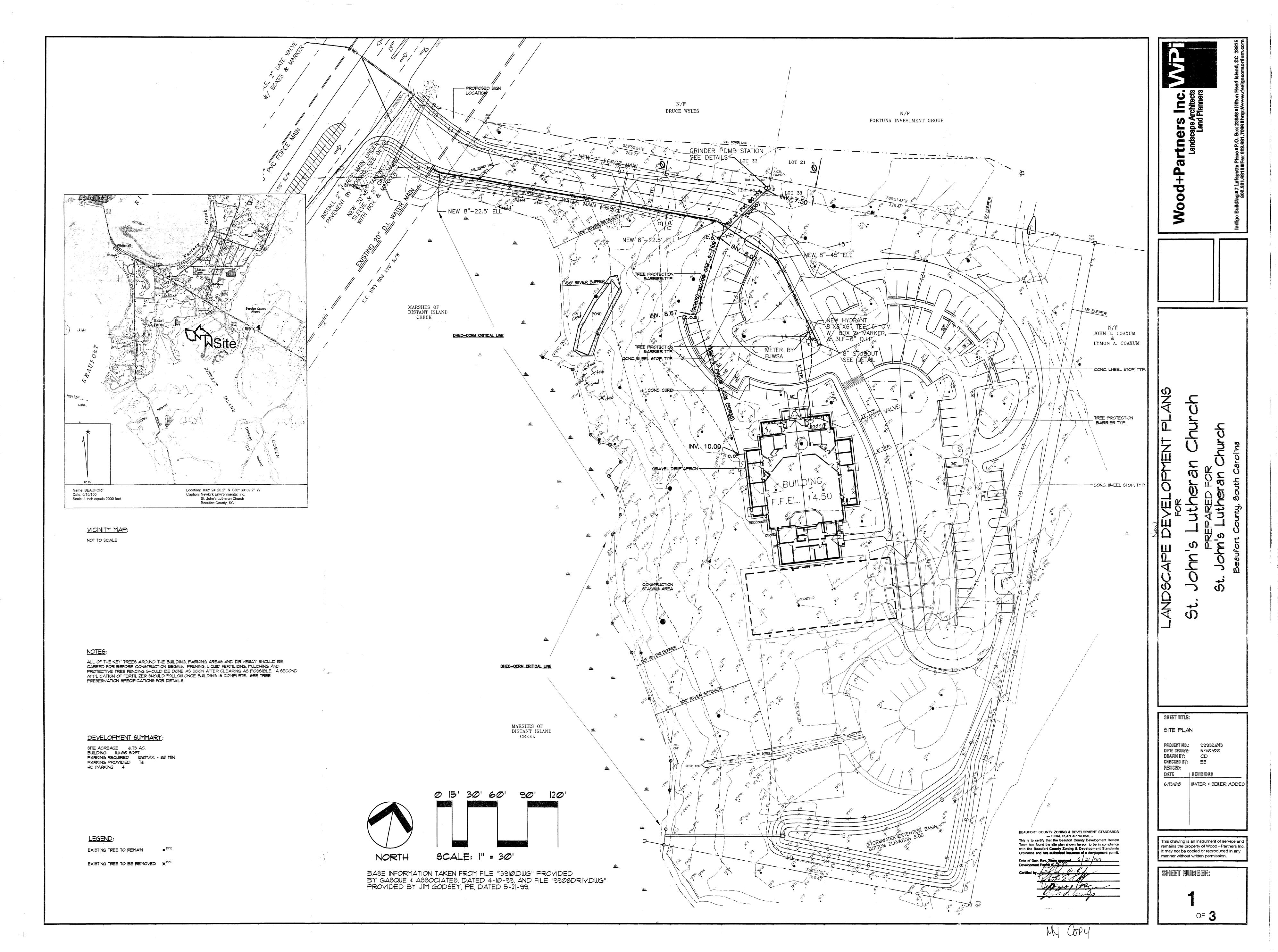
Beaufort County, South Carolina DEVELOPMENT PERMIT

Zoning and Development Administration

Permit Number 3692	Zone T (POD)	Date Issued 6/21/00
Development Name St. John	is LUTHERAN CHORCH	
Development Address/Location SC	HWY 802 LADYS: ISL.	
District/Map/Parcel Number <u>200 - 1</u>	8 - 268/33 A Acreage 6 · 75. Type of Develop	pment THISTITUTIONIAL
HAS MET AND	CERTIFIES THAT THE ABOVE NAMED DEVELORS IN ACCORDANCE WITH THE BEAUFORT CO. DEVELOPMENT STANDARDS ORDINANCE. BY: Lala L.	DUNTY
CONDITIONS OF PERMIT APP	Zoning and Dev	velopment Administrator

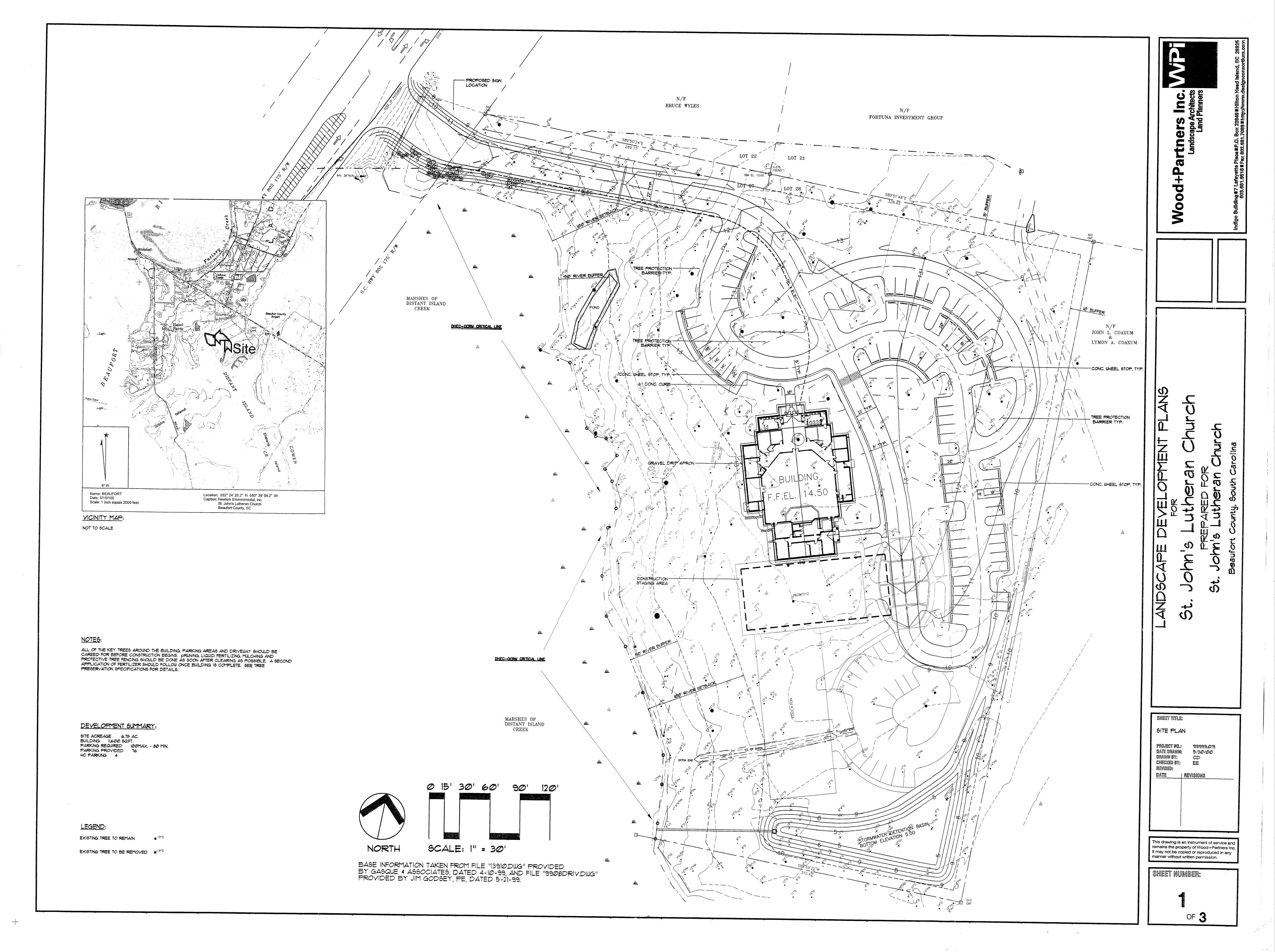
- 1. All tree aeration systems and tree protection barriers must be constructed first and authorization to proceed requested and granted prior to further site work and issuance of a Beaufort County Building Permit. Upon completion of tree aeration systems and barriers, applicants should contact the County Engineers Office to request an inspection and authorization to proceed.
- 2. All permits expire two(2) years from the date of approval unless substantial improvement has occurred.
- 3. Subdivision approvals are for construction of infrastructure only unless infrastructure bonding has been posted and accepted and Final Approval certified on the final subdivision plat.
- 4. Subdivision plats may not be recorded and sale of lots is not permitted until Final Approval is affixed and certified on the final subdivision plat and the plat duly recorded by the Registrar of Mesne Conveyances.
- 5. Commercial, Industrial and Institutional projects may not be occupied until a Final Certificate of Compliance has been issued. The developer nor agents should request a final certificate of compliance inspection until all site work has been completed. The County Engineers office should be contacted for all inspections.
- 6. Any deviations from the approved plans must be approved by the DRT prior to construction.
- 7. A tree survival bond is required for all trees planted or relocated on site prior to Certificate of Compliance.
- Subdivision infrastructure bonding is for a maximum of one (1) year. In order to obtain release of bond, all infrastructure must be completed within one year and a final Certificate of Compliance inspection requested.
- 9. All bonding shall be in the form of Cash, Certified Check or Irrevocable Bank Letter of Credit.



BEAUFORT COUNTY

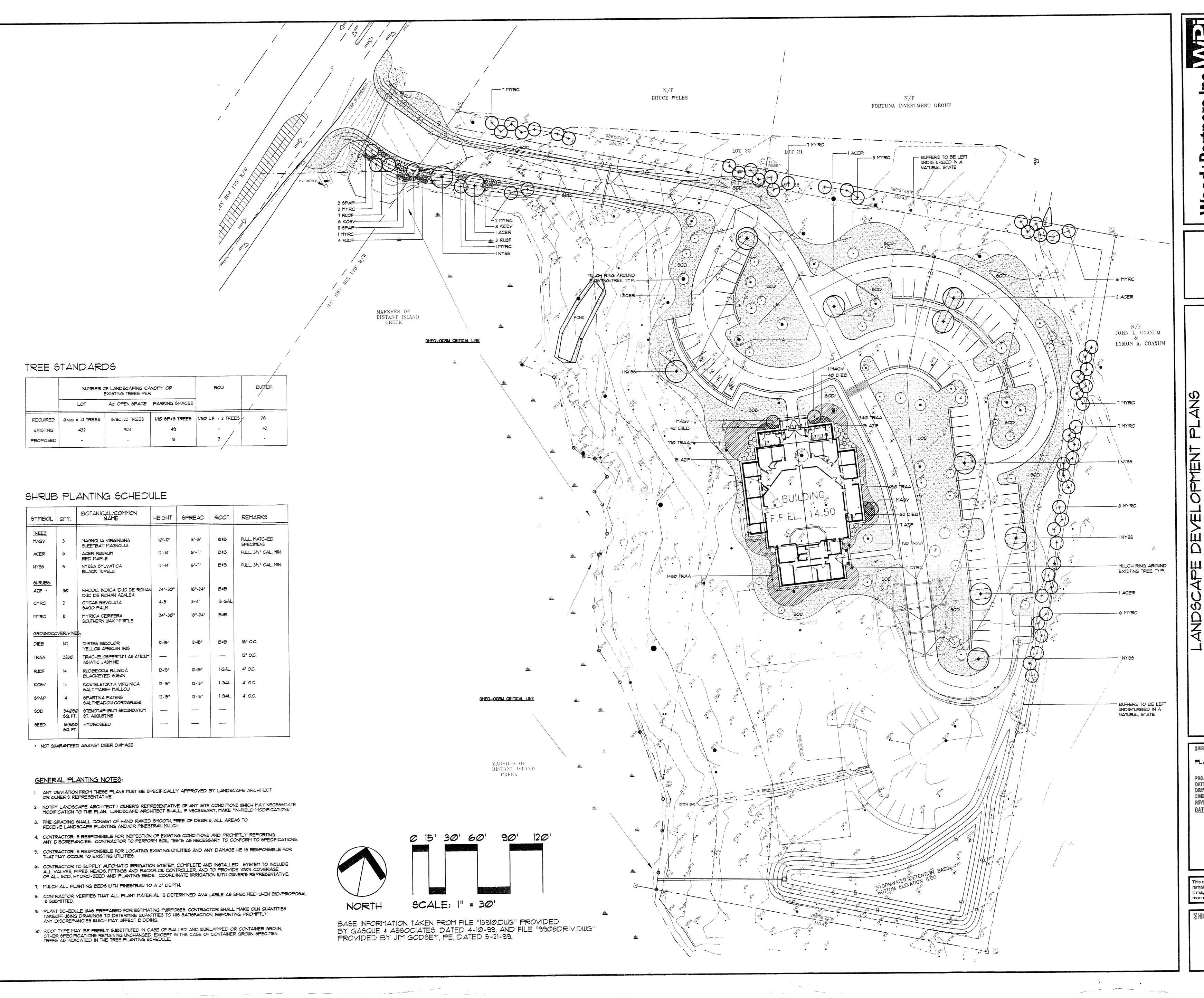
ZONING & DEVELOPMENT STANDARDS ORDINANCE -MILTI FAMILY AND NONRESIDENTIAL FINAL PLAN APPLICATION-

D 4 3/83	nresiden lali	TIVALL FLAME	arreica i	ION-
	AINAGE IMPACT FEI	E RECEIPT#	ZONING	OVERLAY DISTRICT
6 30 00 HAA \$ 95.00	NA	461719	POD	RPOD/HCOD
PROJECT NAME	> (}	-7-	T TYPE	- 7
APPLICANT (DEVELOPER) NAME, ADDRESS, PHONE	HUUCH PROPE	TNST RTY OWNER NAM	ME ADDRES	MAW S, PHONE#
John's Lytheran &	hurch o	(SAME)	PH#	524-3461
PROJECT LOCATION 200-018-268 LA Huy, 802 AND 33A	ND AREA(ACRES)	BUILDING A		FIRE DISTRICT
		····		
- FINAL P	LAN INFORMATIO	N REQUIRED	-	
SIX BLACK LINE COPIES OF THE DEVELOPMENT SIT WITH INFRASTRUCTURE CONSTRUCTION DRAWING		CHAELOGICAL	SITE DETER	MINATION FROM PLANNING
		ISTING AND PRO	POSED FIRE	E HYDRANT LOCATIONS
VICINITY MAP SHOWING PROJECT LOCATION, NORTH	PR			NG ROADS, CIRCULATION OUT & DIMENSIONS
D DEVELOPMENT PROPERTY BOUNDARY LINES WITH	4.			
BEARINGS AND DISTANCES	ЦИ ТИ	AFFIC IMPACT	ANALYSIS	
EXISTING ROADS, STREETS, HIGHWAYS ON OR ADJA TO PROPERTY (NAME, NUMBER, RIGHT OF WAY WI	CENT PR	OPOSED SETBAC NDSCAPED ARE		RS, OPEN SPACE AREAS AND
EXISTING DRAINAGE DITCHES, CANALS, WATER CO ON OR ADJACENT TO PROPERTY	URSES (I) TO	POGRAPHIC SUI D BMP ANALYSI	RVEY, DRAI IS	NAGE PLAN, CALCULATIONS
EXISTING BUILDINGS, STRUCTURES AND FACILITIES THE DEVELOPMENT PROPERTY	S ON D FI	NAL WATER SUP	PLY & SEW.	AGE DISPOSAL PLANS
EXISTING ELECTRIC, TELEPHONE, GAS, WATER, SEV UTILITY LINES ON OR ADJACENT TO THE PROPERTY	WER TE	nal design & I Lephone, gas		underground Electric, Utility Lines
•	.)	TTERS OF CAPA	BILITY & C	OMMITMENT TO SERVE
ADJACENT PROPERTY EXISTING LAND USES AND PROPERTY OWNER NAMES		ATER, SEWER, U OM THE AFFEC		ND ELECTRIC & TELEPHONE IES
NARRATIVE DESCRIBING NATURE & SCOPE OF PRO.	" ' ' ' -	NAL HEALTH DE OR WATER AND S		PERMITS OR APPROVALS EMS
WETLANDS BOUNDARY DETERMINATION & CERTIF				
PROTECTED RESOURCES SITE CAPACITY ANALYSIS	(ART. 5)	erm permits at	•	
TREE SURVEY & INDICATION OF REQUESTED TREE		RRIDOR REVIE	W BOARD A	PPROVAL
		DOT ENCROACE	iment peri	MIT
TREE PROTECTION ZONES & PROPOSED TREE PROT METHODS	_	re safety stap	idards app	ROVAL BY FIRE OFFICIAL
TREE PLANTING AND REPLACEMENT PLAN	/ D 01	HER APPLICABI		PERMITS OR APPROVALS
APPLICANTS SIGNATURE) DATE 5/	מנו כמא (20	VIEW DATE	Prelim - 6/14/00 Final - 6/21/00
	WALL OF	AE.	TER THATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



St. John's Evangelical Lutheran Church Landscape Costs

Quantity	Material Name	Size	Cost per plant	
	TREES			
3	Magnolia - Sweet Bay	6-8'	\$300.00	
10	Acer Rubun	8-10' 2.5 Cal	\$550.00	
5	Sawtooth Oak	12-14' 3.5 Cal	\$550.00	
		SUB TOTAL	\$9,150.00	
	SHRUBS			
30	Azaleas Duc De Rohan	15 Gal	\$95.00	
2	Cycas Revolta	4-5' 15 Gal	\$250.00	
51	Wax Myrtle	15 Gal	\$95.00	
		SUB TOTAL	\$8,195.00	
	GROUND COVERS			
142	Yellow African Iris	12-15"	\$6.00	
3280	Asiatic Jasmine	Pint	\$3.00	
14	Black Eyed Susan	12-15" -1 Gal	\$8.00	
14	Salt Marsh Mallow	12-15" - 1 Gal	\$10.00	
14	Saltmeadow Cordgrass	12-15" - I Gal	\$10.00	
		SUB TOTAL	\$11,084.00	
		TOTAL COST	\$28,429.00	



SHEET TITLE: PLANTING PLAN DRAWN BY: CHECKED BY: revised: DATE

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SHEET NUMBER:



St. John's Evangelical Lutheran Church

P.O. Box 70368 157 Lady's Island Drive Beaufort, South Carolina 29902

voice (843) 524-3461 e-mail stjohnsluth@islc.net fax (843) 524-5950 web site <u>www.stjohnsbeaufort.org</u>

Rev. Louie F. Lanford, III

Pastor



TO: Hillary

FAX NUMBER: 470-2784 FROM: Vicki M. Young

FAX NUMBER: (843) 524-5950 DATE: November 14, 2001

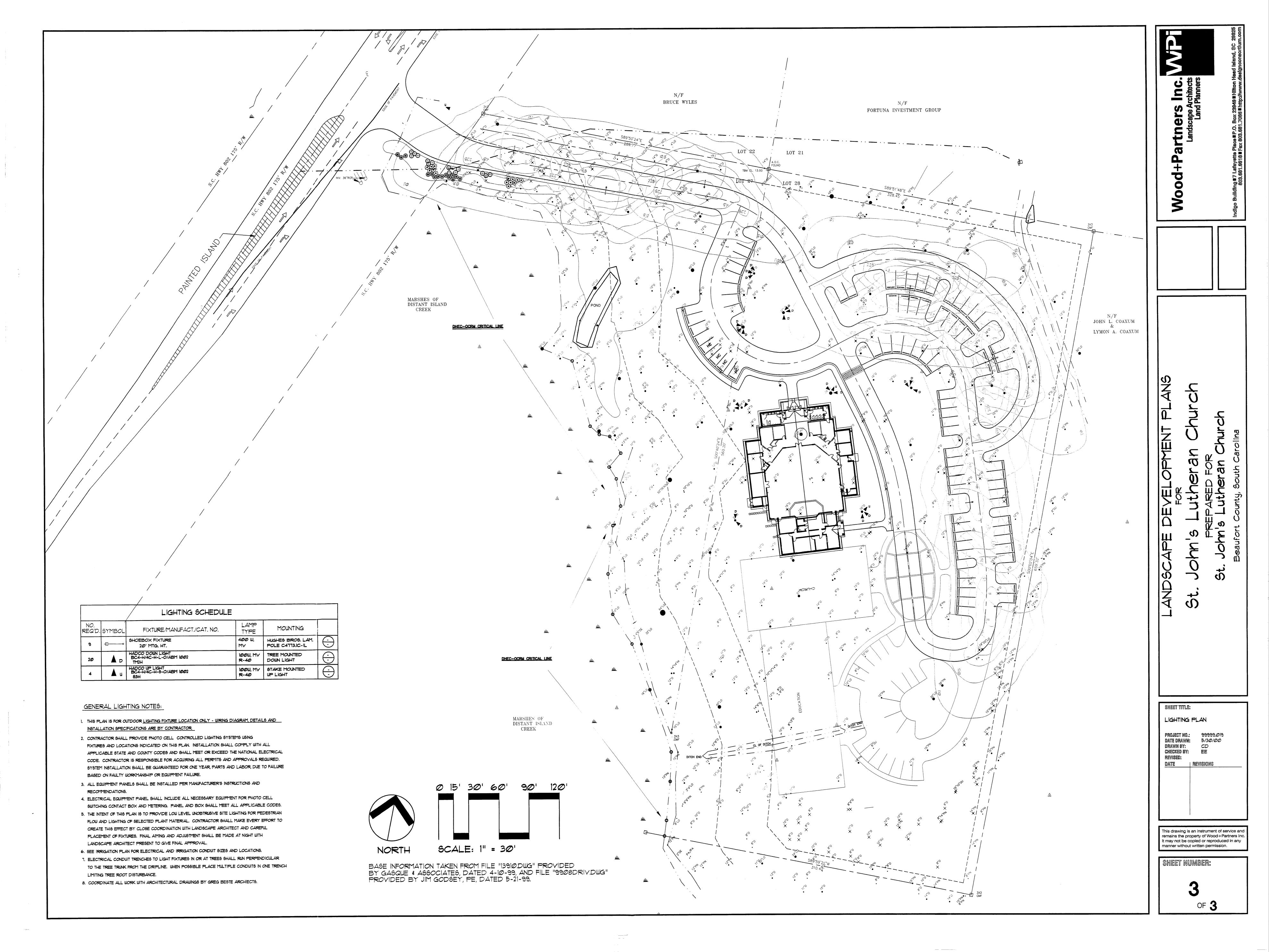
RE: Landscape Bond

PAGES: 2, INCLUDING THIS COVER SHEET

COMMENTS:

Hillary, we are going to bond this. Please let me know how much and what I need to do from this end to get the bond in motion. Can you also help me with the correct wording. Is there A special form that I need to take to the insurance company?

I thank you so much for your patience and help.





COUNTY COUNCIL OF BEAUFORT COUNTY

Beaufort County Development & Services Division

Multi Government Center • 100 Ribaut Road
Post Office Drawer 1228, Beautort, SC 29901-1228
FAX (843) 470-2686

Robert E. Klink, P.E. County Engineer Ph. 470-2625 Authur L. Cummings, C.B.O. Building Codes Director

Dan Morgan G.I.S. Coordinator Ph. 470-2660

Planning Director Ph. 470-2724 Walter R. Fielding Zoning & Development Administrator

Ph. 470-2781

To: St. John's Lutheran Church

From: Zoning & Development Administrator

Ph. 470-2684

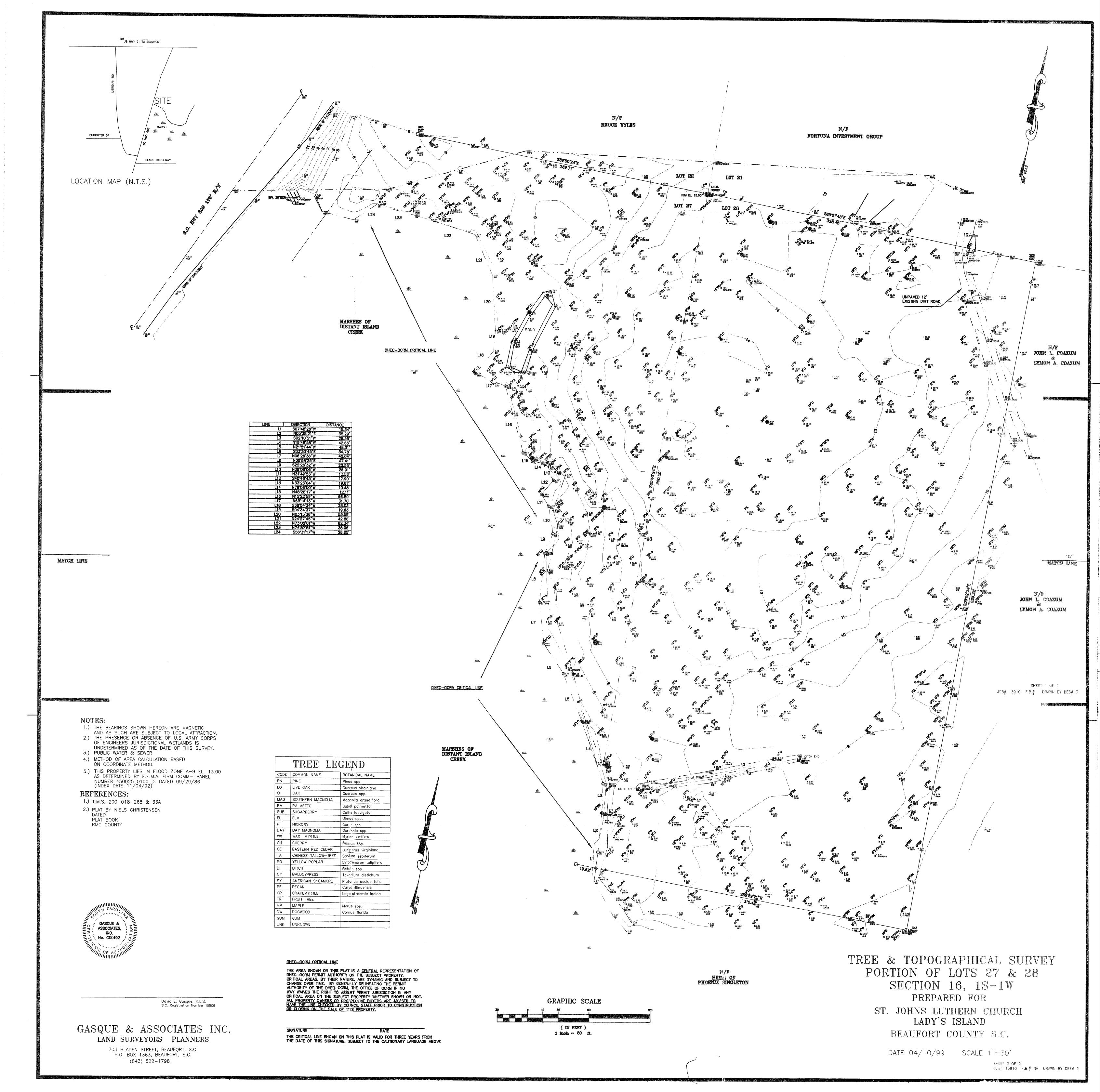
Subj: Final Plan Approval -- St. John's Lutheran Church

Date: June 26, 2000

On Wednesday, June 21, 2000, the Development Review Team approved Final Plan for the St. John's Lutheran Church project. Should you have additional questions or desire further guidance concerning your application, contact the Zoning & Development Office at extension (843) 470-2780 or 470-2781.

WRF

C: Members, Development Review Team





COUNTY COUNCIL OF BEAUFORT COUNTY

Beaufort County Development & Services Division

Multi Government Center • 100 Ribaut Road Post Office Drawer 1228, Beaufort, SC 29901-1228 FAX (843) 470-2686

Robert E. Klink, P.E. County Engineer Ph. 470-2625 Authur L. Cummings, C.B.O. Building Codes Director Ph. 470-2684 Dan Morgan G.I.S. Coordinator Ph. 470-2660

Planning Director Ph. 470-2724 Walter R. Fielding Zoning & Development Administrator Ph. 470-2781

To:

St. John's Lutheran Church

From:

Zoning & Development Administrator

Subj:

Preliminary Review - St. John's Lutheran Church

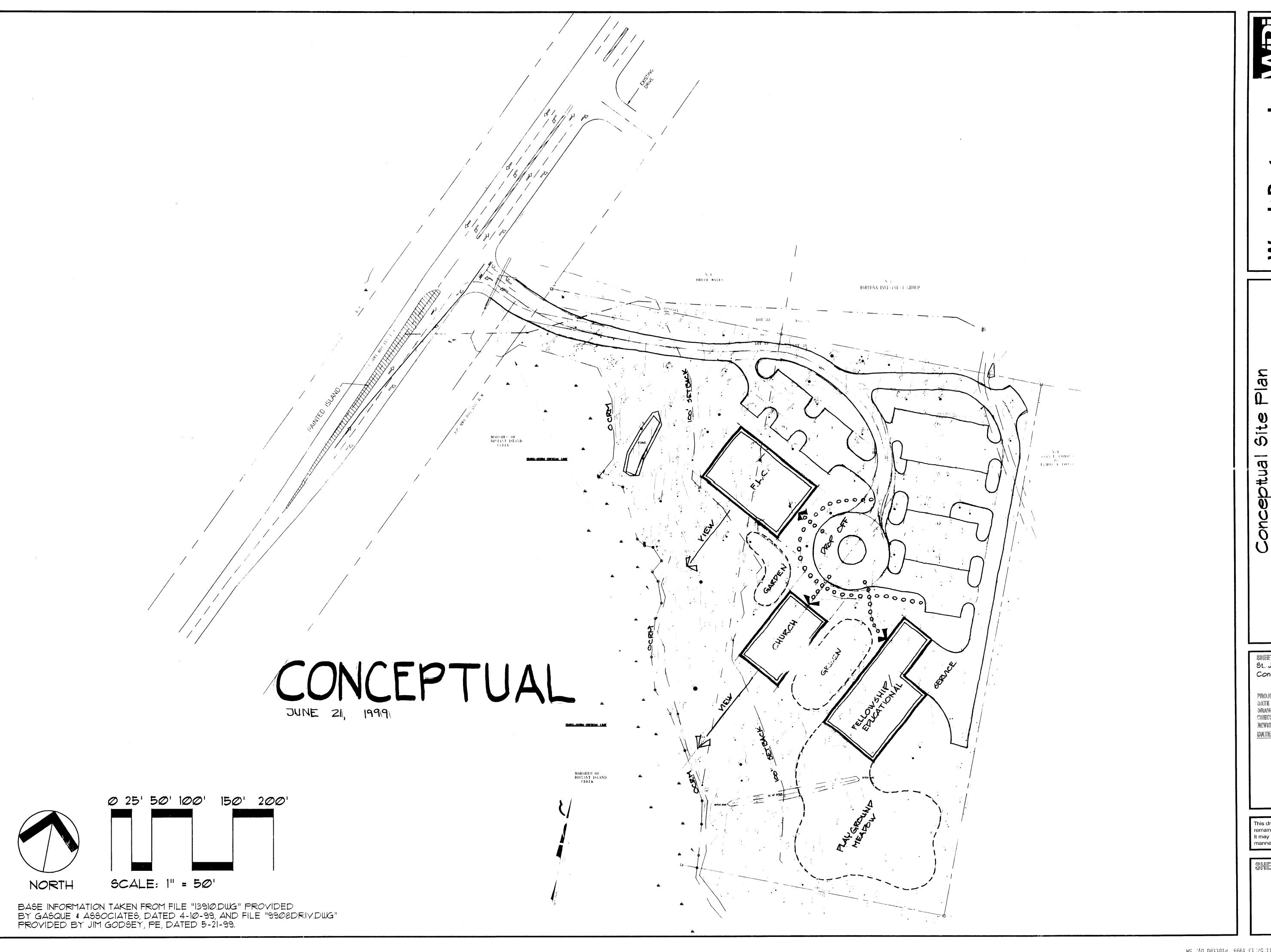
Date:

June 26, 2000

On Wednesday, June 14, 2000, the Development Review Team agreed the Preliminary Plan for the St. John's Lutheran Church project appeared ready for Final submission. Please contact the Zoning & Development Office at extension (843) 470-2780 or 470-2781 if additional information and permitting guidance is required.

WRF

C: Members, Development Review Team





A + Partners Inc.

Landscape Architects

Land Planners

St. John's Lutheran Church
St. John's Lutheran Church
St. John's Lutheran Church

SHEET TITLE:
St. John's Lutheran Church
Conceptual Site Plan

PROJECT NO.: 999990219

DATE DRAWN: 5-26-59

DRAWN BY: wpb
CHECKED BY: EE
REVISED:
DATE REVISIONS

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SHEET NUMBER:

•

OF 1



PROJECT NARRATIVE ST. JOHNS LUTHERAN CHURCH

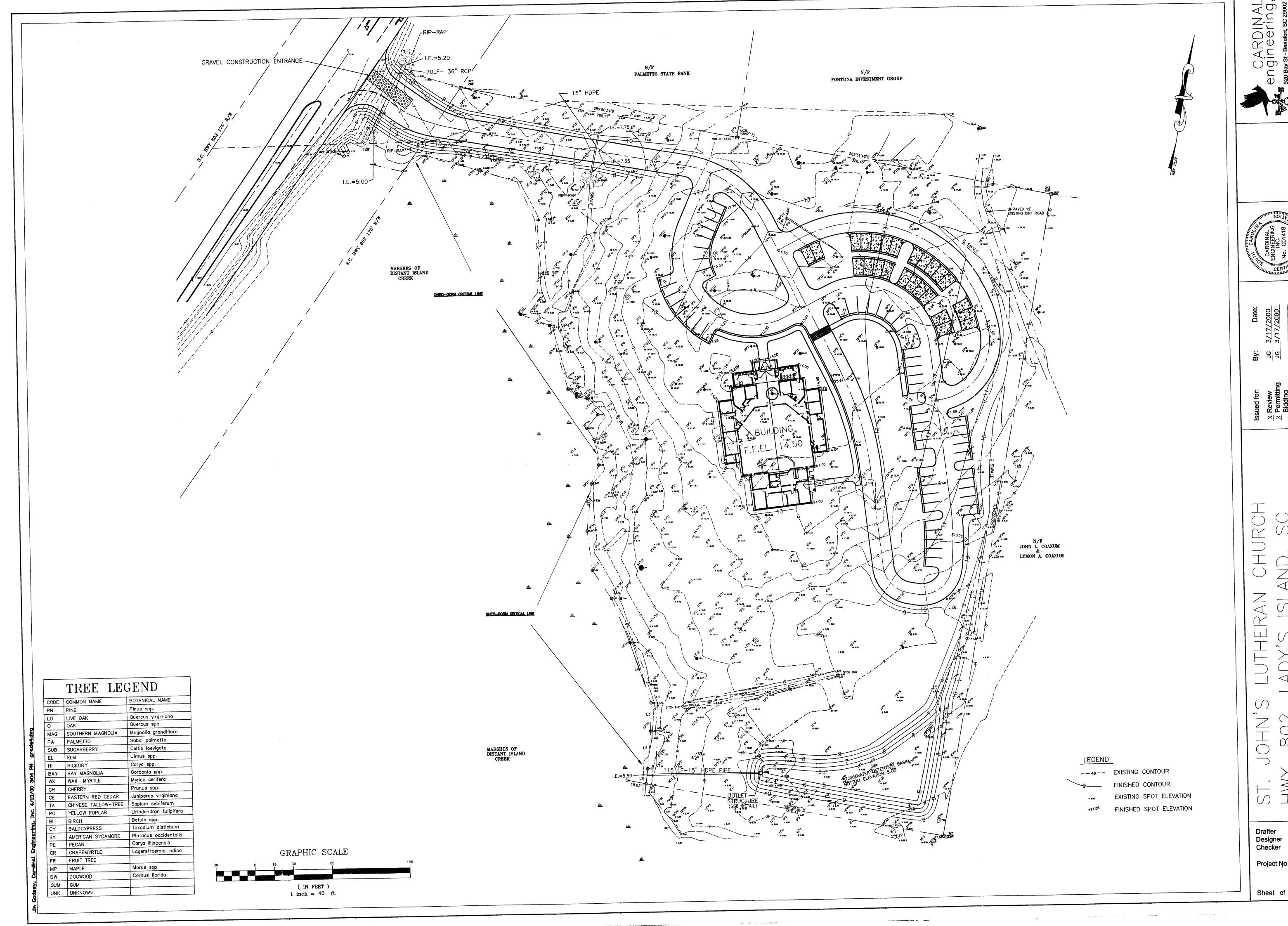
BEAUFORT, SC March 14, 2000

St. Johns Lutheran Church proposes construction of a Family Life Center (11,600 sq.ft.), Sanctuary (8,800 sq.ft. and Fellowship/Education Building (12,000 sq.ft.).

The project site is on a 6.75 acre tract on the south side of Highway 208 +/- 1 mile from the intersection of Highway 208 and Highway. 21.

The tract is zoned Professional Office Development. This is a Permitted.

The proposed project will meet all applicable requirements of the ZDSO.



Project No. A.SJL.001

May 30 00 02:44p Lady's Island Fire Depart 843-525-7689

p.1

BEAUFORT COUNTY DEVELOPMENT STANDARDS ORDINANCE -FIRE SAFETY STANDARDS APPROVAL FORM-

APPLICANT (DEVELOPER) NA	ME, ADDRESS		ZONE:	
ST. JOHN'S LUTH.	ERAN CHURCI	+		
HWY. 802				,
LADY'S ISLAND	, 5c		524-34	61
A STATE OF THE PARTY OF THE PAR		THANC	TELEPHONE	
PROJECT NAME ST. LOHW	'S LUTHERAN C	TYPE	LOCATION	
	EL# / # LOT		DENSITY	
200-018-26		WONIS		
	DING AREA	HEIGHT (FINISH	ED GRADE TO ROOF EAVES)	
	2,000 SF		30'	
NUMBER OF BUILDINGS	HEIGHT(FINI	SHED GRADE TO	BOTTOM OF HIGHEST WINDX)₩)
FIRE DISTRICT	,	FIRE OFFIC	CIAL	
LADY'S 154AMD/ST.			CLAYTON ELL	7.5
BASED ON A REVIEW OF THE ST	E PLAN AND INFORMA	TION SUBMITTED B	Y THE APPLICANT, I HEREBY	
	DEAPPROVE			
	a Approve wi	TH CONDITIONS		
	O DISAPPROVE		PRELIMINARY	
11		٥	FINAL	
OK OM			_	
Jagles of		4	Nas 30 - 00	
(FIRE OFFICIAL)			DATE	
	·····			
CONDITIONS:				
·				
	CERTIFICATION	OF COMPLIANCE		
DATE INSPECTION REQUESTED		ZONING/DEVE	OP. PERMIT #	
•				
PACED ON AN INCIDENTIAL OF THE	T a management	 		
BASED ON AN INSPECTION OF TR	E SUBJECT PROJECT:			
a	THE FOLLOWING DEF MUST BE ADDRESSED		RECTIONS ARE NOTED &	
а	THE COMPLETED PRO SAFETY STANDARDS STANDARDS ORDINAL	OF THE ZONING & I	ANCE WITH THE FIRE DEVELOPMENT	
(FIRE OFFICIAL)			DATE	



COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY PLANNING DEPARTMENT

Multi Government Center • 100 Ribaut Road, Room 260
Post Office Drawer 1228, Beaufort, SC 29901-1228
Phone: (843) 470-2724 • FAX: (843) 470-2686

June 19, 2000

Mr. Jim Godsey Cardinal Engineering Inc. 920 Bay Street Beaufort, SC 29902

RE:

St. John's Lutheran Church

Archaeological Permit of Approval

Dear Jim:

I am writing in response to your request for an archaeology review, as required in Section 6.5.1(I) of the Beaufort County Development Standards Ordinance, for the St. John's Lutheran Church project.

An extensive examination of existing documentation has been conducted. The documents examined include the Cartographic Survey of Historic Sites in Beaufort County, South Carolina; A Comprehensive Bibliography of South Carolina Archaeology; copies on file with Beaufort County of the topographic maps located at the South Carolina Institute of Archaeology and Anthropology the identify all the recorded archaeological sites in Beaufort County; copies of the records of all the archaeological properties listed in the National Register of Historic Places in Beaufort County; and all other documentation maintained by the Beaufort County Planning Department regarding archaeological and historic resources. In addition, we have consulted with South Carolina State Historic Preservation Office Compliance Archaeologists.

It is the opinion of the Planning Office that any proposed development will have no effect on any archaeological resources listed in, or eligible for listing in, the National Register of Historic Places. Therefore I am authorized by the Planning Director to issue you a Permit of Approval certifying that no archaeological resources will be affected by this project.

We request, however, that you cease work to notify this office immediately if archaeological or paleontological materials are encountered prior to or during construction. Archaeological remains consist of any materials one hundred years or older made, or altered, by man which remain from past historic or prehistoric times. Examples include pottery fragments, metal, wood, arrowheads, stone implements or tools, human burials, historic docks, structures, or non-recent vessel remains. Paleontological remains consist of prehistoric animal remains, original or fossilized, such as teeth, tusks, bone, or entire skeleton.

If I can be of further assistance please call me at 843/470-2727.

Sincerely.

Ian D. Hill

Historic Preservationist

cc:

Hillary Austin

BEAUFORT-JASPER WATER AND SEWER AUTHORITY Water and Wastewater Capacity Commitment Form

Project Name: St. Jen's Lut	h eran Church BJWSA Project # 00-34
Location: 802 Lady's Alan	BJWSA Project # 00-34
DistrictTMSParcel#	
AVAILABILITY	
() Water capacity is available to this project. project.	A water main extension is/is not required for this
() Wastewater capacity is available to this proj not required for this project.	ject. A wastewater collection system extension is/is
() Water is not available from our resources.	
() Sewerage is not available from our resour	rces.
Date Reviewed	Project Coordinator
COMMITMENT	
We have committed water capacity to ser	rve this project.
We have committed wastewater capacity	for this project.
Water: <u>4350</u> g.p.d.	
Sewer: 900 g.p.d.	
Sewer: 900 g.p.d. 5/24/00 Date Reviewed	Mary Medders Project Coordinator
5/24/00	. 1



May 16, 2000

Mr. Chris Darnell Wood and Partners P. O. Box 23949 Hilton Head Island, SC 29925

RE: St. John Lutheran Church

SC Hwy 802, Lady's Island

Dear Mr. Darnell:

South Carolina Electric & Gas Company will be able to provide underground electric service to the above referenced development. Costs associated with providing underground service will be determined when a finalized plat is submitted to our office for engineering.

Please fill out the enclosed **Project Information Sheet** and return it to me within five working days. Please send me a finalized site plan of this development at least two months prior to the construction date so that all engineering requirements can be met.

Service will be installed on an "as needed" basis according to the existing sales policy at the time of construction.

I am looking forward to working with you on this project. If I may be of any further assistance, please do not hesitate to call me at 843.525.7742.

Sincerely,

Kerry A. Bunton

Customer Service Engineering

KAB/

h Carolina Electric & Gas Co. Robert Smalls Pkwy. Office Drawer 1168 Ifort, South Carolina

11-1168

303.525.7797 525.7700 4.SCOROLCOM



May 23, 2000

Chris Darnell Wood & Partners Inc. P.O. Box 23949 Hilton Head Island, South Carolina 29925

RE: St. John's Lutheran Church

Dear Mr. Darnell:

Sprint Telephone will provide telephone facilities to the proposed development in accordance with our standard practices and tariff on file with the South Carolina Public Service Commission.

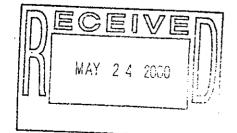
A two (2) inch PVC conduit, from the area designated for telephone equipment to a point one foot beyond the paving for the proposed buildings, will be required to provide telephone service in the proposed buildings.

Sprint Telephone will require two (2) copies of your final plans, as approved by the Beaufort County Development Review Committee, before telephone service can be provided. Please provide this office with your final plans as soon as possible. This is very crucial for our 911 System. It is also requested that this office be notified thirty (30) days prior to start of construction.

Sincerely,

R. David Stiles

Network Engineer II



CALCULATION 1: Determine Base Site Area					
Enter gross site area as determined	by actual survey	y.			6.75 ac.
Subtract land within existing roads' u (minimum 50 foot width within subje		-way; or land wi	ithin major utilitie	s' rights-of-way	- ac.
Subtract land cut off from use by rail	road, highway, d	or water body.			- O ac.
Subtract all existing natural water bo	odies and tidal w	etlands.			- ac.
Subtract land previously dedicated a	s open space.				- O ac.
Equals Base Site Area.					= 6.75 ac.
CALCULATION 2: Measure all natural resources in the Base Site Area and enter in the Acres Measured Column 2. If resources overlap, measure only that resource with the highest resource protection ratio. These numbers provide each resource's area of land. Multiply by Resource Protection Ratio for the district (Column 3, 4, or 5) and insert result in Column 6.					
Column 1	Column 2	R	Multiply Columi esource Protecti		Column 6
Protected Resource	Acres Measured	Column 3 R, RQ, RC districts	Column 4 S, CS districts	Column 5 All other districts	Protected Land
Non-Tidal Wetlands		1.00	0.80	0.60	
Beach-Dune		1.00	1.00	1.00	
Headwaters Buffer (RQD only)		1.00	1.00	1,00	Reserved.
River Buffer	1.87	1.00	1.00	1.00	1.87
Maritime Forest		0.70	0.65	0.60	
Mixed Upland Forest, Mature		0.55	0.45	0.20	
Pine Forest, Mature		0.40	0.30	0.20	
Mixed Upland Forest, Young		0.25	0.20	0.10	
Endangered Species Areas		1.00	1.00	1.00	
CALCULATION 3: Total Resource Land equals the sum of all Protected Resources listed above. Enter this figure to the right:	1.87				
CALCULATION 4: Total Prote	ected Resource	Land equals s	um of Column 6	at right: ➡	1.87

SECTION 05.140 STEP 4: CALCULATION OF RESIDENTIAL/ NON-RESIDENTIAL CAPACITY

Tables 05.141 and 05.142 provide the procedures for calculating residential or non-residential use capacity of a site based on protected resources. Where the site is in more than one zoning district, or where the site is to be developed for both residential and non-residential uses, separate calculations are required. Final capacity calculations shall be rounded down to a whole dwelling unit (du) or square footage.

	Table 05.141 RESIDENTIAL USE CAPACITY CALCULATION	1	
Calculation 1:	Take Base Site Area (Table 05.130, Calculation 1)	=	ac.

	Subtract Total Resource Land (Table 05.130, Calculation 3)		ac.
	Equals Total Unrestricted Land	=	
! !	Enter Protected Resource Land (Table 05.130, Calculation 4)		
Calculation 2:	Enter Base Site Area (Table 05.130, Calculation 1)		ac.
	Multiply by Minimum Open Space Ratio (Table 04.110)	x	
	Equals Minimum District Required Open Space	=	ac.
Calculation 3:	Enter Base Site Area (Table 05.130, Calculation 1)		ac.
	Subtract Protected Resource Land (Calculation 1 or 2, whichever is greater)		ac.
	Equals Net Buildable Site Area	=	ac.
	Multiply by Maximum Net Density (Table 04.110)	x	
<u></u>	Equals Site Specific Maximum Density Yield	=	du's
Calculation 4:	Enter Base Site Area (Table 05.130, Calculation 1)		
	Multiply by Maximum Gross Density (Table 04.110)	х	
	Equals District Maximum Density Yield	=	du's
Calculation 5:	Maximum Yield for Site (Calculation 3 or 4, whichever is less)	=	du's

Table 05.142 NON-RESIDENTIAL USE CAPACITY CALCULATION				
Calculation 1:	Enter Base Site Area (Table 05.130, Calculation 1)	6.75 ac.		
1	Subtract Protected Resource Land (Table 05.130, Calculation 4)	- 1.87 ac.		
<u> </u>	Equals Buildable Land, Site	= 4.88 _{ac}		
Calculation 2:	Enter Base Site Area (Calculation 1)	6.75 ac.		
	Multiply by Minimum Landscape Surface Ratio (Table 04.110)	× .5		
	Equals Minimum Landscaped Area	_3.37 _{ac}		
Calculation 3:	Enter Base Site Area (Calculation 1)	6.75 ac.		
ļ	Subtract Minimum Landscaped Area (Calculation 2)	337		
	Equals Buildable Land, District	= 3,38ac.		
Calculation 4:	Enter Calculation 1 or 3, whichever is less	3.38 ac.		
1	Multiply by Maximum Net Floor Area Ratio (Table 04.110)	x .53		
	Equals Maximum Floor Area in acres	=\.79 ac.		
		x 43,560		
	Multiply by 43,560 to determine Maximum Floor Area in square feet	=78,033st		
Calculation 5:	Minimum Landscaped Surface Calculation 1 (Total Protected Land) or Calculation 2 (Minimum Landscaped Area), whichever is greater)	= 4.88ac.		

DIVISION 05.200

03/07/00 17:01

FFICE OF OCEAN & COASTAL **ESOURCE MANAGEMENT** 13 Newcastle Street, PO Box 587 saufort, SC 29901

February 286, 2000

St. John's Luthern Church 980 Ribaut Road Beaufort, SC 29902

Post-it* Fax Note 767*	Date 3-7 pages /
10 CHRIS	From / M
Co./Dept.	Co .
Phone II	Prime # 521-30-0
Fax # 681-7086	Frix # 521 -3011

Re: St. John's Luthern Church P/N#: 07-00-02-03 Beaufort County Stormwater

Dear Sir:

The staff of the Bureau of Ocean and Coastal Resource Management (OCRM) certifies that the plans submitted for the above referenced project, dated February 10, 2000, meet the minimum requirements of the S.C. Storm Water Management and Sediment Reduction Act. This project is also found to be consistent with the S. C. Coastal Zone Management Program. This land disturbance permit is contingent on the following special conditions:

- (a) The OCRM staff must be notified at least seven (7) days prior to actual land disturbance in order to arrange sediment/erosion control inspections.
- (b) The responsible day-to-day contact must have a OCRM stamped set of plans on site at all times.
- (c) Prior to final project approval, a registered professional responsible for construction will submit a statement certifying that construction is complete and in accordance with approved plans and specifications. OCRM staff will then conduct a final site inspection for design compliance.
- (d) The person responsible for maintenance shall perform or cause to be performed preventive maintenance of all completed storm water management practices to ensure proper functioning. OCRM will conduct periodic maintenance inspections.
- (e) Approved plans remain valid for five (5) years from the date of an approval. Extensions or renewals of the plan approvals may be granted by the OCRM upon written request by the person responsible for the land disturbing activity.

Page 2

- (f) This approval is only applicable for the plans that were submitted for this project. Any additional construction or grading beyond the scope of these plans is not authorized.
- (g) No freshwater wetlands, as determined by the U. S. Army Corps of Engineers, shall be disturbed or altered without Corps authorization.

Failure to comply with any of the conditions of this permit may result in enforcement actions and/or penalties. The receipt of this permit does not relieve you of the responsibility of acquiring any other state, federal or local permits that may be required. Interested parties are provided ten days from receipt of this letter to appeal the action of the OCRM.

Sincerely

Billy Webster

Engineer Associate III

cc: Mr. Stephen Snyder

Mr. Joseph Fersner, PE

Mr. Yan Seiner

BW/swc/bw

Sent by: Cardinal Engineering 803-521-3011

APPLICATION FOR ENCROACHMENT PERMIT

No. S-07-000031

Job 428

(ENCROACHMENT PERMIT OTHER THAN A PUBLIC UTILITY)

APPLICANT. 2: John's Lutheren Church
AND 260 Ribert Road!
Beenfox, SC 29962

ADDRESS:

FOUN 638 (8cv. 7/93)

TELEPHONE NUMBER: 24-3461

COUNTY: ROAD/ROUTE: Harry 302

ROAD NAME:

- 1. The undersigned applicant hereby applies to the South Carolina Department of Transportation (SCDOT) for a permit for encroachment on State Highway Right of Way as shown and described below:
- 2. Type of Encroachment: Driveway
- 3. Description of location: On the south side of Hwy. 202, suproximately i some cost of the McTeer Bridge.

(Alloch shelch indicating roadway features such as: pavement width, shoulder width; sidewalk and curb and gutter location, significant drainage structure, north arrow, right of way width, and location of the proposed encrodchment with respect to the roadway centerline and the nearest intersecting road on the State system.)

4. The undersigned applicant hereby requests the SCDOT to permit encroachment on the Department right of way as described herein. It is expressly understood that the encroachment, if and when constructed, shall be installed in accordance with the sketch attached hereto and made a part hereof. The applicant agrees to comply with and be bound by the Department's "A Policy for Accommodating Utilities on Highways Rights of Way" and "Standard Specifications for Highway Construction" (made a part hereof by reference) on file in the Utility Office of the Department, and all general provisions on the reverse hereof and special provisions below or attached hereto during the installation, operation and maintenance of said encroachment within the Department Right of Way. The applicant hereby further agrees, and binds his heirs, successors, assigns, to assume any and all liability this Department might otherwise have in connection with accidents or injuries to persons, or damage to property, including the highway, that may be caused by the construction, maintenance, use, moving or removing, of the physical appurtenances contemplated herein and agrees to indemnify this Department for any liability incurred or injury or damage sustained by reason of the past, present, or future existence of said appurtenances.

APPLICANT NAME: 1-19- 2000

APPLICANT SIGNATURE: TITLE: COMMITTEE

In compliance with your request and subject to all the provisions, terms, conditions and restrictions stated in the application, general provisions on the reverse hereof, and special provisions below or attached hereto, the Department approves the request. This permit shall become null and void unless the work contemplated herein shall have been completed prior to

SPECIAL PROVISIONS:

(Special Provisions Attached) 04 07 28 32 36 38

- * The ditches and/or shoulders disturbed during this installation shall be re-established to proper grade, original cross section, stabilized, and all drain pipes cleared.
- * Performance bond number B-713953, copy attached, will remain in force pending the satisfactory completion of this project documented by a letter from the SCROT.
- * The shoulders and ditches will be grass seeded in accordance with the attached seeding schedule.

			,		_
01/21/00		W.M. Mulligan (malls	01/24/00	_
DATE MECENTED BY	DATE FORWANDED	SCOOT APPROVAL		DATE	
		XI RESIDENT MAINTENANCE ENGINEER	D STATE WEHWAY EN	INGER	
DATE MUCKINED OF	DATE PORWARDED	DISTRICT ENGINEERING ADMINISTRATOR	DISTRICT MAINT./CO	NATRUCTION ENGINEER	



COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY PLANNING DEPARTMENT

Multi Government Center • 100 Ribaut Road, Room 260
Post Office Drawer 1228, Beaufort, SC 29901-1228
Phone: (843) 470-2724 • FAX: (843) 470-2686

May 30, 2000

Chris Darnell, Landscape Architect Wood and Partners, Inc. 7 Lafayette Place Hilton Head, SC 29925

RE: St. John's Lutheran Church

Dear Mr. Darnell:

This is to confirm that the Northern Beaufort County Corridor Review Board (CRB) has approved the above referenced project on SC 802 on Lady's Island. The next step in the process is to submit the project to the Development Review Team (DRT) which also must approve the site plan and landscaping.

Sincerely yours,

Robert Merchant

Development Review Planner

cc: Walter Fielding, Zoning Administrator



Letter of Transmittal

Signed:

Chris Darnell

To: D.R. Of: Bea	.T. ufort County	,	Date: Project: Project #: Re:	May 30, 2000 St. Johns Lutheran Church 99019			
WE ARE S	ENDING TH	HE ATTACHED VIA: H	AND DELIVERY				
Copy of	Letter	Prints 🔀 Plans	Color Plots				
TRANSMIT	TED FOR:	FOR YOUR USE					
	<u>If Ç II</u>	there is a discrepancy in the information lister	d, please contact WPI within 3 o	calendar days from receipt ⟨			
Copies	<u>Date</u>		Descript	<u>ion</u>			
6	5/30/00	Site Plan, Planting Plan & Light	ing Plan				
1	3/14/00	Narrative					
1		Existing Conditions photo board	k				
1		Site Capacity Analysis					
1		Tree Preservation Plan					
1		Leters of commitment to serve: SCE&G, Sprint and Beaufort-Jasper Water and Sewer					
1		Wetland Determination, OCRI	/I Permit and SCDOT i	Encroachment Permit			
1		CRB approval letter					
Remarks:		r need additional information	on please let me k	1			
		Rev	new Fir	him - 6/14/00			

Copy to:

 $\tilde{\epsilon}$

NOTIFICATION OF JURISDICTIONAL DETERMINATION U.S. Army Corps of Engineers Charleston District

Action ID: 81-2000-0811 County BEAUFOIZT
Property Owner/Authorized Agent 57 JUANS LUTHERAN CHURCH
Address 1/0 NEWKIRK ENV T 340 ETYCKHOWER DR SOMMUNDER GA SHOW
Telephone Number
Size and Location of Property 6. 61 AC OF SC HWY GOL AS PER HAT:
"STJOHNS LUTHERAN CAURCH/HWY DOZ, LADYS ISLAND, SC/CRITICAL LIN
"STADHUS LUTHGRAN CAURCH/HWY DOZ, LADYS ISLAND, SC/CRITICAL LINE TWETTON DELINEATION PREPARED BY X GUOSEY, DUTED 5-15-00
Indicate Which of the Following Apply to the Property:
There are areas within the jurisdiction of the Corps which we strongly suggest should be delineated and surveyed. The surveyed boundaries must be verified by our staff before the Corps will make a final determination. Large or Commercial Tracts Because of the size of your property and our present workload, our identification and delineation of the jurisdictional areas cannot be accomplished in a timely manner. You may wish to employ a consultant to obtain a more timely delineation. Once your consultant has flagged the jurisdictional areas, Corps staff will review it, and if it is accurate, we strongly recommend that you have the line surveyed for final approval by the Corps. The Corps will not make a final JD without an approved survey. JD Finished Ye The jurisdictional areas have been delineated, and the limits of Corps jurisdiction have been explained to you. Unless there is a change in the law or our published regulations, this JD may be relied upon for a period not to exceed five years from the date of this notification. No Wetlands There are no areas which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this JD may be relied upon for a period not to exceed five years from the date of this notification. Coastal Zone The property is located in the South Carolina Coastal Zone. In addition to any above requirements, you should contact the S. C. DHEC Office of Ocean and Coastal Resource Management at 1-843-744-5838 for their requirements.
Placement of dredged material or fill material in waters of the U.S. without a Department of the Army permit or exemption may result in injunctive relief (restoration) and substantial civil penalties under Section 309 of the Clean Water Act (33 USC 1319). A permit is not required for work restricted entirely to existing high ground. If you have any questions regarding the limits of our jurisdiction, what constitutes a regulated activity, or our regulatory program in general, please contact us at 1-800-208-2054 or 1-843-727-4330.
Property owner/Authorized Agent Senatule They W. mit
Project Manager Signature Date 24 May 00

Survey Plat or Field Sketch of described property and the JD must be attached to the Yellow (File) copy of this form

SAC Form 304

Tree Preservation St. John's Lutheran Church Lady's Island, South Carolina

Prepared for:

Mr. Chris Darnell Wood & Partners

P.O. Box 23949

Hilton Head Island, SC 29925

Prepared by:

Gary R. Mullane, ASCA

Mullane Associates

P.O. Box 22828

Hilton Head Island, SC 29925

phone: 843-689-3087 fax: 843-689-6961

e-mail: Treenetwks@aol.com

Mullane Associates

Tree & Horticultural ONSULTING

159 Dillon Road P.O. Box 22828 Hilton Head, SC 29925 **ኔ** ሂን 803-689-3087 FAX 803-689-6961

April 3, 2000

Mr. Chris Darnell Wood & Partners P.O. Box 23949 Hilton Head Island, SC 29925

Dear Mr. Darnell:

I have inspected the trees at St. John's Lutheran Church on Lady's Island and would like to submit the following report. The purpose of my inspection was to determine the condition of the trees on the site. I conducted a visual ground inspection of the trees that are highlighted in your plans. These trees were along the driveway, parking lots and the building.

The site consists mostly of live oak, water oak, laurel oak and pine. The trees are in good condition at this time. There is a normal amount of dead limbs, split limbs and vines that you would expect to find in a forest. Several of the trees are dead and should be removed.

I have included information of some of the trees to be saved, tree preservation construction guidelines and specifications for pruning, liquid fertilizing, mulching and tree protection fencing.

Trees go through dramatic environmental changes when land is cleared and buildings are built. Grade changes, clearing, wind direction; sunlight and natural vegetation are some of the changes that the trees must overcome. With proper care and planning, most trees can survive these environmental changes. The tree preservation methods and practices that I recommend have been successful in saving thousands of trees.

If you have any questions please contact me so that we may review them. I hope that this meets your approval, as I am sure that you will be satisfied with our work.

Gary R. Mullane, ASCA

Registered Consulting Arborist

Tree Preservation

St. John's Lutheran Church

Lady's Island, South Carolina

- 1. <u>36" Live Oak left of the entrance:</u> This tree is 70% decayed in the main trunk. It is a hazard tree and should be removed during clearing.
- 2. <u>Dead oak within building footprint:</u> This tree is dead and should be removed.
- 3. <u>26" Water Oak in front of building:</u> This tree leans toward where the building will be. The main trunk or large limbs may interfere with the walls of the building. When construction is completed, this tree will be standing between the building, sidewalks and the driveway. The root system will be severely damaged during construction. This will be a small area for a tree this species and size to live. It is my experience water oaks this size will not survive the construction and will have to be removed at some point. I suggest that this tree be removed to avoid future problems.
- 4. <u>Limbs over building footprint:</u> Limbs that will interfere with the building or construction equipment should be removed before construction begins. Once the building lines are established these can be easily identified and removed.
- 5. Tree care before, during and post construction: All of the key trees around the building, parking areas and driveway should be cared for before construction begins. Pruning, liquid fertilizing, mulching and protective tree fencing should be done as soon after clearing as possible. I have included specifications for tree care for your review.

CONSTRUCTION GUIDELINES FOR TREE PRESERVATION

Pre-construction:

- 1. Prune trees according to specifications

 DO NOT USE WOUND DRESSING OR TREE PAINT
- 2. Remove vines as necessary
- 3. Liquid fertilize as specified
- 4. Install protective fencing as specified
- 5. Spread 3" of shredded organic mulch under trees to be saved

During construction:

- 1. Maintain protective fencing throughout construction
- 2. Keep construction material away from trees
- 3. Do not store or clean material under trees
- 4. Do not trench under drip line of trees
- 5. Water trees as specified by the tree consultant
- 6. Monitor condition of trees

Post construction:

- 1. Second liquid fertilizer application
- 2. Add mulch as needed
- 3. Monitor condition of trees

Pruning Specifications

In 1995, the American National Standards Institute's (ANSI A300-1995) standards "for Tree Care Operations" were adopted for tree pruning. These standards replaced the National Arborist Associations (NAA) Pruning Standards. Within the tree industry, these are simply called the "A300" pruning standards. The address is:

American National Standards Institute 11 West 42nd Street New York, New York 10036

The sections of A300 which I specify for the tree care at the Church are within Section 5.3 Mature tree pruning, 5.3.3.2 Maintenance pruning:

a) Crown cleaning: Crown cleaning shall consist of the selective removal of one or more of the following items: dead, dying, diseased, weak branches and watersprouts (sucker growth) from the tree's crown.

All dead limbs 1" and larger are to be removed. Low limbs interfering with vehicular traffic are to be raised

The canopy of the tree should be left intact.

Timing of tree pruning: It has been my experience that the best time to prune and care for the trees are before the construction begins. Caring for the trees in the preconstruction phase serves several purposes. The tree crews usually have easier access to the trees. The trees will look better once more construction crews enter the site, this shows the contractors and workers the intent of the developer to save trees and makes them more aware of the importance of the trees. It is easier to spot problems and monitor the trees if they begin the project in good condition. Most importantly, is the fact that the trees seem to adapt to the change in environment better when the entire tree maintenance program is started in the pre-construction phase of development.

Tree paint or wound dressing should <u>NOT</u> be used on trees. These materials have proven to be of no benefit to trees. Arborists should not use spikes or cleats of any kind while pruning the trees.

The *Tree-Pruning Guidelines*, published by the International Society of Arboriculture should be followed.

Liquid fertilizing Specifications

It is essential that a liquid fertilizing program be initiated to help save these trees. Liquid fertilizer will replenish nutrients that will be lost during construction. A liquid fertilizer with a formula of 32-7-7 or equivalent should be used. In addition, Plant Health Care's Mycortree Injectable with PHC Biopak Biostimulant should be added to the fertilizer mixture. This will replace mychorrhizae spores that were lost during the clearing operation. Labels for both are included. Several applications should be made. The first application should be after the site is cleared and tree fencing is established. Two applications per year should be applied until the tree is again growing vigorously. The tree should be monitored so that you know how they are recovering.

I have found that an aggressive liquid fertilizing program provides the trees with the best chance to survive. I have never had any adverse reactions from the trees with this program. A fertilizer high in nitrogen and low in salt is ideal for live oak trees. Since I recommend fertilizing twice a year, spring and fall, the fertilizer labeled mixing rate should be cut in half.

The reason that I prefer to recommend liquid fertilizing application methods to other methods is that during the liquid fertilizer application several good things are done:

- 1. The liquid fertilizer mixture is applied in a solution that is readily available to the roots of the trees.
- 2. The trees are watered at the same time with a deep penetrating probe.
- 3. The pressure from the water pump aerates the soil and fractures compacted soil.

Mulch Specifications

Spreading organic mulch beneath trees on construction sites is one of the most important preservation practices that can be done for them. Mulch also can act as protection for roots that must be traversed by trucks and equipment on a site. The mulch should be spread at a depth of about 3" within the tree fence lines.

The mulch should be natural blended mulch. Many kinds of mulch can be used. Some of which are: pine bark; shredded oak; pine chips; wood chips and recycled yard waste. Any one of these or the best available can be used. Pinestraw should not be used as it will not benefit the trees as the other mulches will.

Benefits of using mulch on construction sites: (or for trees everywhere)

Water Conservation
Increase soil vitality
Erosion control
Moderate soil temperature
Increase soil aeration
Improve moisture retention
Reduce plant injury
Reduce soil compaction
Increase surface root development
Easy to spread
It can be left under trees
Reduce herbicide usage
Natural appearance

Tree protection fencing

Tree protection fencing should be installed immediately after clearing is completed. It is imperative to make sure that the contractor and all the sub-contractors are aware of the importance of these trees. Ideally, the fencing should be installed as indicated in my diagrams. I have provided diagrams for installation of tree protection fences. This has become a common task for contractors. The fence lines can be altered as construction progresses through the site, but the tree consultant or landscape architect should be notified before any fencing is moved.

Purpose of the Tree Protection Fences:

Prevent damage to the tree trunks
Protect the root system
Reduce/eliminate soil compaction
Keep contaminants away from tree roots
Keep material storage away from trees
Provide safe area from construction equipment
Protect low hanging limbs

Mullane Associates

Mullane Associates is, a tree and horticultural consulting firm located on Hilton Head Island, South Carolina. It is well known for its tree preservation projects throughout the state. Mullane Associates is qualified to provide tree consultation in numerous tree-related areas of interest. Their experience ranges from tree preservation on construction sites through golf course tree management and even saving single trees.

Mullane Associates has received two Excellence in Arboriculture Awards. The National Arborist Association, Inc presents the Excellence in Arboriculture Award. It is given to companies that display outstanding arboriculture initiative and knowledge.

The first Award was in conjunction with Marriott Ownership Resorts, Inc.'s Grande Ocean Resort on Hilton Head Island. The project entailed saving over three hundred live oak trees during demolition of the old Hilton Inn and then during construction of the Grande Ocean Resort.

The second Award was given for tree preservation at Disney's Hilton Head Island Resort. This was an eighteen-acre island connected by a bridge to Hilton Head. Thirty-two buildings were constructed among hundreds of pine and oak trees.

Mullane Associates also has performed tree management plans for towns, cemeteries, resorts and golf courses. It is presently involved in the tree preservation of the Oatland Island Educational Center in Savannah, Georgia.

In addition, Mullane Associates is the tree consultant for Augusta National Golf Course. This world-renowned course is lined with stately pines that require special care to make certain that they remain as green as the course.

Principal Consultant: Gary R. Mullane

Gary is a graduate of the University of Massachusetts. He earned a degree in Arboriculture and Park Management. Gary is known nationally for his creative tree preservation techniques. He has spoken at several national conventions and has authored articles for publication. Gary also has appeared in court as an expert witness for tree related cases on numerous occasions.

His interests in promoting tree care nationally have earned him national recognition. He is a past-president of the National Arborist Association, Inc. and is presently vice-president of the American Society of Consulting Arborists. He is also an Honorary Life member of the International Society of Arboriculture.

GARY R. MULLANE

TREE CONSULTANT

PROFESSIONAL HISTORY:

1993 - Present: Organic Recycling Center, Hilton Head Island, SC

1991 - Present: Mullane Associates, Hilton Head Island, SC

1989 - Present: President of Low Country Tree Care, Hilton Head Island, SC

1976-1989: Vice-Pres. Hawthorne Bros. Tree Service, NY 1971-1976: President Mullane Tree Service, New York

1969-1971: Sales Rep. Landscape Foresters, New York

EDUCATIONAL HISTORY:

1969: Graduated from University of Massachusetts

Degree in Arboriculture and Park Management

1966: Graduated from Westlake High School, New York

PROFESSIONAL AFFILIATIONS:

National Arborist Association (NAA) - since 1971

President 1994

Board of Director 1987 - 1990

Treas. 1991; Vice-Pres. 1992; Pres. Elect 1993

National Arborist Foundation - Trustee 1988-1991

American Society of Consulting Arborists - since 1982

Board of Directors - 1998, Treas. 1999, Vice President 2000

International Society of Arboriculture (ISA) - since 1969

New York State Pesticide Users Council - 1984-1988

Golf Course Superintendents Association - 1988, 1989

Westchester County Football Officials Assoc. - 1978-89

New York, Board of Directors 1986-1989

Hilton Head Island Beautification Committee - 1991- 1997

Council of Tree & Landscape Appraisers - 1993 - 1995

ISA General Chairman of International Conference on Hilton Head Island - 1995

AWARDS:

1986- Gold Leaf Award from the New England Chapter of the ISA for outstanding Arbor Day activity in New England

1991- Award from National Arborist Foundation for years of support

1995- Honorary Life Membership in International Society of Arboriculture

1996- NAA Excellence in Arboriculture "Grand Award" for tree preservation at Marriott's Grande Ocean Resort, Hilton Head Island, SC

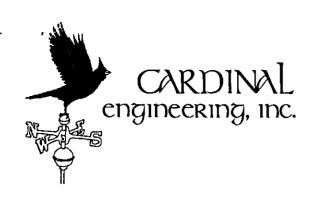
1997- NAA Freeman Parr Award for Outstanding Communication Achievement

1998- NAA Excellence in Arboriculture "Award of Distinction" for tree preservation at Disney's Hilton Head Island Resort.

1998- Town of Hilton Head Island, Town Council - Citizen Award for serving on the Island Beautification Committee

EXPERT WITNESS: Appeared in court as arboriculture expert on numerous occasions in insurance, casualty, trespass, appraisal and environmental related cases.

	-	 	·	- —	
:					



STORM DRAINAGE CALCULATIONS FOR ST. JOHN'S LUTHERAN CHURCH ON S.C. HIGHWAY 802 LADY'S ISLAND, SC

OWNER

St. John"s Lutheran Church 980 Ribaut Road Beaufort, SC 29902 (843)524-3461



Project No. SJL.001 Revised April 13, 2000

ST. JOHN'S LUTHERAN CHURCH DRAINAGE CALCULATIONS

April 13, 2000

TABLE OF CONTENTS

	<u>PAGE NO.</u>
Project Narrative	1
Stormwater Drainage Calculations Summary	2
Location Map	3
Soils Map	4
USGS Quad Map	5
BMP Worksheet	6

Appendix A - Predevelopment Drainage Calculations

Appendix B - Postdevelopment Drainage Calculations

PROJECT NARRATIVE

INTRODUCTION

The project site is located on the east side of S. C Highway 802 approximately 2,700 feet north of the intersection of S.C. Highway 802 and Meridian Road on Lady's Island. The site consists of a wooded tract of land totaling 6.75 acres. The site is gently sloping with elevations ranging from 6' to 15' above M.S.L. Slopes average about 1%.

The site is adjacent to the marshes of Distant Island Creek, the receiving water body, which flows in an southeasterly direction into the Beaufort River about two miles southeast of the site.

PREDEVELOPMENT SITE CONDITIONS

According to the "Soil Survey of Beaufort and Jasper Counties" published by the USDA Natural Resources Conservation Service, the predominant soil type found on the project site is Ridgeland (Rd). This soil is described as somewhat poorly drained and moderately to moderately rapidly permeable. This soil fall into hydrologic soil group "D".

POSTDEVELOPMENT SITE CONDITIONS

Site development will include the construction of a multi-purpose building totaling about 12,000 SF with asphalt parking areas and drives, concrete sidewalks and a stormwater detention basin with an outflow control structure.

The total disturbed area will be 2.39 acres.

STORMWATER DETENTION SYSTEM

The stormwater detention basin, as designed, has a peak storage volume of 22,832 cubic feet. The first inch of stormwater runoff volume from the built-upon portion of the project site totals 8,685 cubic feet. The first half inch of runoff from the entire project site totals 12,252 Cf. The detention basin is designed to limit postdevelopment stormwater outflow from the project site to a rate that does not exceed the uncontrolled predevelopment outflow rate for the 25 year design storm event and to retain the first half inch of stormwater runoff from the built-upon portion of the site. Drainage calculations show that the proposed stormwater drainage system, as shown on the plans, meets and exceeds this design criteria.

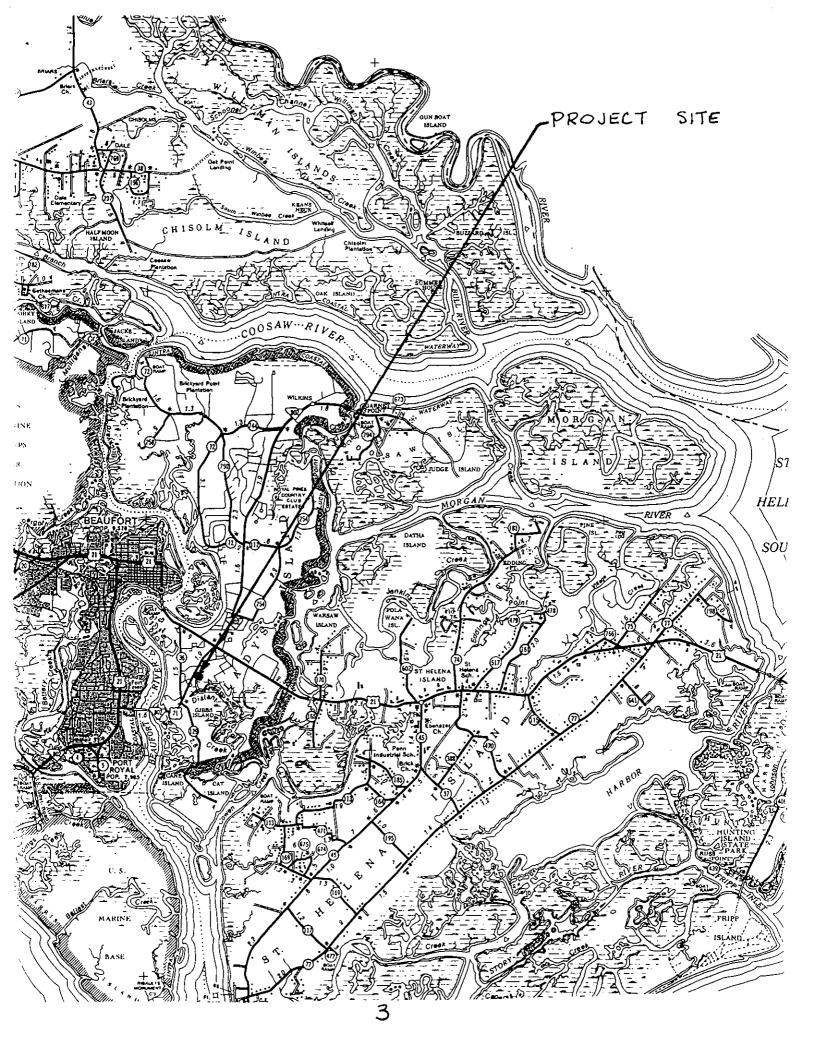
Stormwater BMP's will include a detention basin with controlled discharge, silt fencing, landscaping, grassing and careful consideration of slopes and grades.

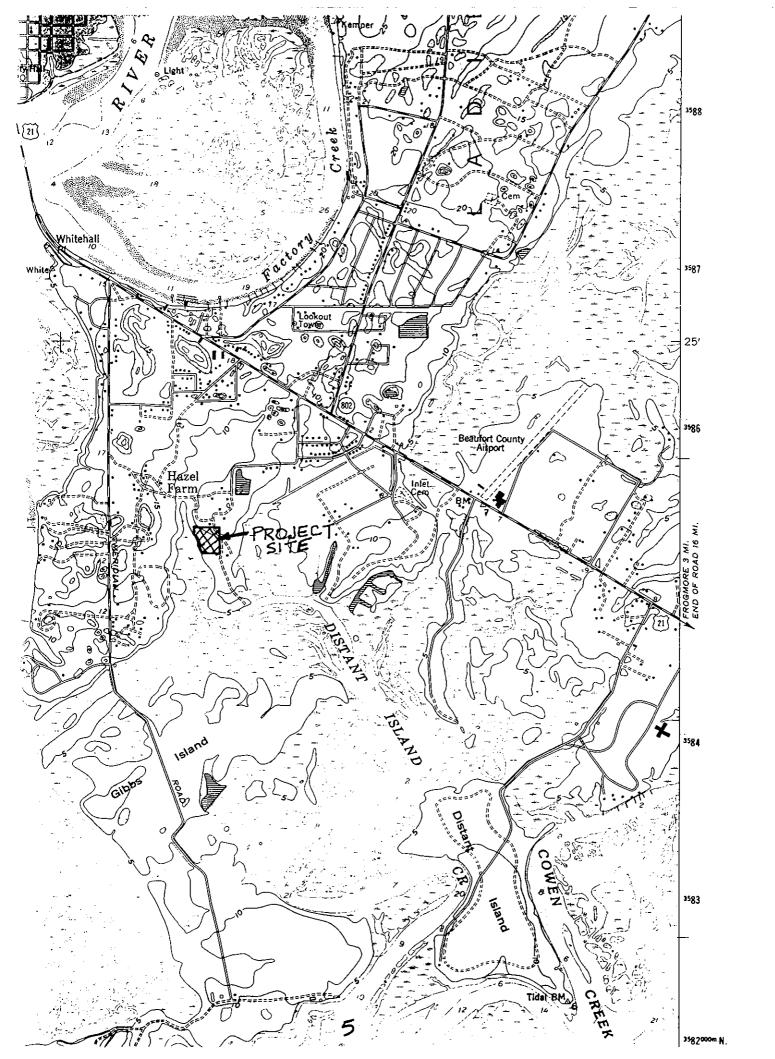
Please refer to the drainage calculations in the appendix for details.

STORM DRAINAGE CALCULATIONS SUMMARY FOR ST. JOHN'S LUTHERAN CHURCH

HIGHWAY 802 LADY'S ISLAND, SC

2 YEAR UNCONTROLLED PREDEVELOPMENT RUNOFF 10 YEAR UNCONTROLLED PREDEVELOPMENT RUNOFF 25 YEAR UNCONTROLLED PREDEVELOPMENT RUNOFF	7.70 CFS 14.64 CFS 18.38 CFS
2 YEAR POSTDEVELOPMENT RUNOFF (WITH DETENTION) 10 YEAR POSTDEVELOPMENT RUNOFF (WITH DETENTION) 25 YEAR POSTDEVELOPMENT RUNOFF (WITH DETENTION)	6.36 CFS 13.67 CFS 17.67 CFS
STORMWATER DETENTION BASIN STORAGE VOLUME	22,832 CF
VOLUME REQUIRED FOR THE FIRST INCH OF RUNOFF FROM THE BUILT-UPON PORTION OF THE SITE	8,685 CF
VOLUME REQUIRED FOR THE FIRST HALF INCH OF RUNOFF FROM THE ENTIRE SITE	12,252 CF





Bmp worksheet - St. John's Lutheran Church, April 13, 2000

Site Area	7	acres	Asite
Impervious Developed Area Pervious Developed Area Dedicated Open Space	1	acres acres acres	Adevimp Adevperv Adepop
Imperviousness of Developed Area	85	%	ldev
Base Required Pollutant Removal	61	%	Rbase
Required Total Phosphorus Removal	13	%	Rreq
Primary BMP type	Wet Detention		
Assumed Primary BMP Total Phosphorus Removal	60	%	Epri
Percent of area that is served by Primary BMP	79	%	Spri
Calculated Primary BMP Removal	47	%	Rpri

APPENDIX A

PREDEVELOPMENT DRAINAGE CALCULATIONS
FOR
2 YEAR STORM
10 YEAR STORM
25 YEAR STORM

Data for St. John's Lutheran Church Predevelopment TYPE III 24-HOUR RAINFALL= 4.5 IN, 2 YEAR STORM

Page 1

Prepared by Jim Godsey, P.E.

9 Feb 00

HydroCAD 4.52 001026 (c) 1986-1996 Applied Microcomputer Systems

SUBCATCHMENT 1

Predevelopment Runoff

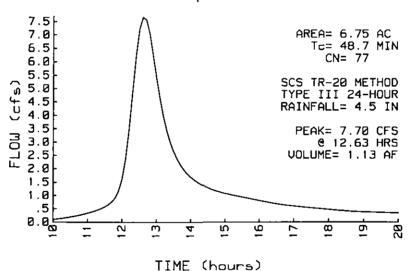
PEAK= 7.70 CFS @ 12.63 HRS, VOLUME= 1.13 AF

ACRES CN
6.75 77 woodland

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 4.5 IN SPAN= 10-20 HRS, dt=.1 HRS

Method				Comm	ent			T	c (min)
TR-55 SHE	ET FLOW							•	46.0
Woods: Lig	ght und	erbrush	n=.4	L=300'	P2=4.5 i	s=.017	5 '/'		
SHALLOW CO	ONCENTR	ATED/UPLA	ND FLOW	1					2.7
Woodland	Kv=5	L=106'	s=.01	.75 '/'	V=.66 fps				
				Tota	l Length=	406 ft	Total	Tc=	48.7

SUBCATCHMENT 1 RUNOFF Predevelopment Runoff



Data for St. John's Lutheran Church Predevelopment TYPE III 24-HOUR RAINFALL= 6.8 IN, 10 YEAR STORM

Page 1

Prepared by Jim Godsey, P.E.

9 Feb 00

HydroCAD 4.52 001026 (c) 1986-1996 Applied Microcomputer Systems

SUBCATCHMENT 1

Predevelopment Runoff

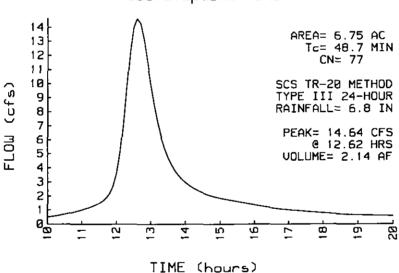
PEAK= 14.64 CFS @ 12.62 HRS, VOLUME= 2.14 AF

ACRES	CN	
6.75	77	woodland

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 6.8 IN SPAN= 10-20 HRS, dt≈.1 HRS

Method				Comm	ent					Tc (min)
TR-55 SHEE	T FLOW									46.0
Woods: Lig	ght unde	erbrush	n=.4 L	=300'	P2=4.5 i	n	s=.0179	5 1/1		
SHALLOW CO	NCENTR	ATED/UPLA	ND FLOW							2.7
Woodland	Kv=5	L=106'	s=.0175	1/1	V=.66 fps	3				
										
				Tota	l Length=	40	6 ft	Total	Tc=	48.7

SUBCATCHMENT 1 RUNOFF Predevelopment Runoff



Data for St. John's Lutheran Church Predevelopment
TYPE III 24-HOUR RAINFALL= 8.0 IN, 25 YEAR STORM

Page 1

9 Feb 00

Prepared by Jim Godsey, P.E.

<u>HydroCAD 4.52 001026 (c) 1986-1996 Applied Microcomputer Systems</u>

SUBCATCHMENT 1

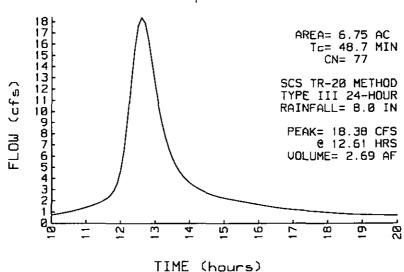
Predevelopment Runoff

PEAK= 18.38 CFS @ 12.61 HRS, VOLUME= 2.69 AF

ACRES CN 6.75 77 woodland SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 8.0 IN SPAN= 10-20 HRS, dt=.1 HRS

<u>Method</u>				Comme	ent				Tc (min)
TR-55 SHEE	T FLOW			_					46.0
Woods: Lig	ght unde	erbrush	n=.4	L=300'	P2=4.5 i	n s=.01	75 '/'		
SHALLOW CO	NCENTRA	ATED/UPLA	ND FLO	V					2.7
Woodland	Kv=5	L=106'	s=.0	L75 '/'	V=.66 fps				
								-	
				Tota.	l Length=	406 ft	Total	Tc=	48.7

SUBCATCHMENT 1 RUNOFF Predevelopment Runoff



APPENDIX B

POSTDEVELOPMENT DRAINAGE CALCULATIONS
FOR
2 YEAR STORM
10 YEAR STORM
25 YEAR STORM

Prepared by Cardinal Engineering, Inc.

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

13 Apr 00

SUBCATCHMENT 1

postdevelopment runoff

PEAK= 4.39 CFS @ 12.77 HRS, VOLUME= .73 AF

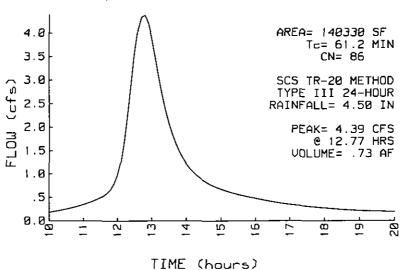
SQ-FT	<u>CN</u>	
61875.00	98	impervious
78455.00	77	pervious
140330.00	86	_

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 4.50 IN SPAN= 10-20 HRS, dt=.1 HRS

Method		Comment	Tc (min)
TR-55 SHEET FLOW	Comment Tc (min) 61.2 P2=4.5 in s=.0067 '/'		
n=.4 L=265 ¹	P2=4.5 in	s=.0067 '/'	

L=265 1 P2=4.5 in s=.0067 '/'

SUBCATCHMENT 1 RUNOFF postdevelopment runoff



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SUBCATCHMENT 2

postdevelopment runoff

PEAK= 1.93 CFS @ 12.49 HRS, VOLUME= .25 AF

SQ-FT	CN_	
20855.00	98	impervious
27540.00	77_	pervious
48395.00	86	

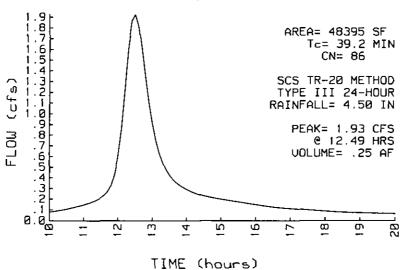
SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 4.50 IN SPAN= 10-20 HRS, dt=.1 HRS

13 Apr 00

Method	E			 		Comme	ent			 ſс	(min)
TR-55	SHEET	FLOW		 _	•			_		3	9.2
	_		_	i							

n=.4 L=240' P2=4.5 in s=.0167 '/'

SUBCATCHMENT 2 RUNOFF postdevelopment runoff



Data for St. John's Lutheran Church Postdevelopment
TYPE III 24-HOUR RAINFALL= 4.50 IN

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SUBCATCHMENT 3

postdevelopment runoff

PEAK= 3.21 CFS @ 12.50 HRS, VOLUME= .42 AF

SQ-FT	CN	
6220.00	98	impervious
99115.00	77	pervious
105335.00	78	_

L=240'

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 4.50 IN SPAN= 10-20 HRS, dt=.1 HRS

<u>Method</u>

n=.4

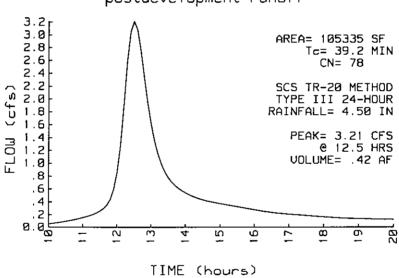
Comment

Tc (min) 39.2

TR-55 SHEET FLOW

P2=4.5 in s=.0167 '/'

SUBCATCHMENT 3 RUNOFF postdevelopment runoff



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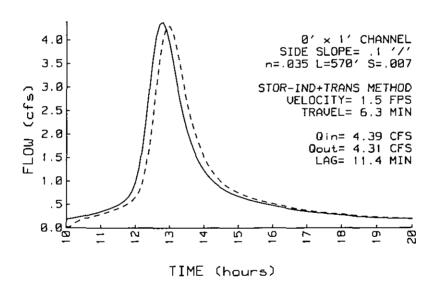
13 Apr 00 HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

REACH 1

Qin = 4.39 CFS @ 12.77 HRS, VOLUME=.73 AF Qout= 4.31 CFS @ 12.96 HRS, VOLUME= .72 AF, ATTEN≈ 2%, LAG= 11.4 MIN

DEPTH E	IND AREA	DISCH		
(FT)	(SQ-FT)	(CFS)	0' x 1' CHANNEL	STOR-IND+TRANS METHOD
0.00	0.00	0.00	SIDE SLOPE= .1 '/	PEAK DEPTH= .53 FT
.10	.10	.05	n= .035	PEAK VELOCITY= 1.5 FPS
.20	.40	.31	LENGTH= 570 FT	TRAVEL TIME = 6.3 MIN
.30	. 90	.90	SLOPE= .007 FT/FT	SPAN= 10-20 HRS, dt=.1 HRS
.43	1.85	2.35		
.60	3.60	5.71		
.80	6.40	12.30		
1.00	10.00	22.30		

REACH 1 INFLOW & OUTFLOW



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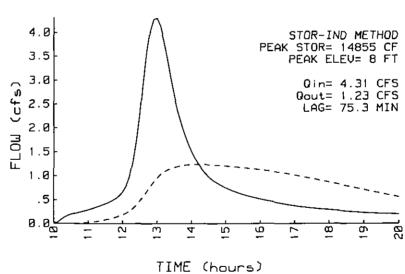
POND 1 New Detention Basin

Qin = 4.31 CFS @ 12.96 HRS, VOLUME= .72 AF
Qout= 1.23 CFS @ 14.21 HRS, VOLUME= .63 AF, ATTEN= 71%, LAG= 75.3 MIN

ELEVATION	AREA	INC.STOR	CUM.STOR	STOR-IND METHOD
(FT)	(SF)	(CF)	(CF)	PEAK STORAGE = 14855 CF
6.0	5919	0	0	PEAK ELEVATION= 8.0 FT
7.5	8081	10500	10500	FLOOD ELEVATION= 9.0 FT
9.0	10965	14285	24785	START ELEVATION= 6.0 FT
				SPAN= 10-20 HRS, dt=.1 HRS
				Tdet= 149.5 MIN (.63 AF)

#_F	ROUTE	INVERT	OUTLET DEVICES
1	P	6.0'	6" ORIFICE/GRATE
			Q=.6 PI r^2 SQR(2g) SQR(H-r) (Use H/2 if H <d)< td=""></d)<>
2	P	8.0'	2' SHARP-CRESTED RECTANGULAR WEIR
			$O=C L H^1.5 C=3.27+.4 H/1 L=Length-2(.1 H)$

POND 1 INFLOW & OUTFLOW New Detention Basin



Prepared by Cardinal Engineering, Inc.

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POND 2 Existing Detention Basin

Qin = 1.93 CFS @ 12.49 HRS, VOLUME= .25 AF

Qout= 1.92 CFS @ 12.48 HRS, VOLUME= .19 AF, ATTEN= 0%, LAG=

ELEVATION AREA INC.STOR CUM.STOR STOR-IND METHOD (FT) (SF) PEAK STORAGE = 2495 CF (CF) 5.0 727 0 0 PEAK ELEVATION= 7.4 FT 7.5 FT 7.0 1188 1915 1915 FLOOD ELEVATION= 7.5 1419 652 2567 START ELEVATION= 5.0 FT SPAN= 10-20 HRS, dt=.1 HRS 3 x FINER ROUTING

Tdet= 87 MIN (.19 AF)

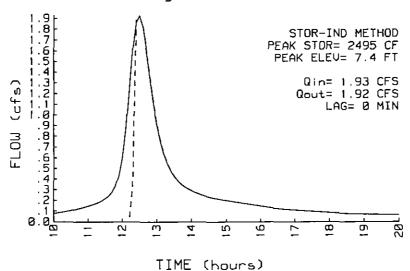
13 Apr 00

0.0 MIN

ROUTE INVERT OUTLET DEVICES

1 P 7.4' 50' BROAD-CRESTED RECTANGULAR WEIR X 1.81
Q=C L H^1.5 C=1.48, 1.45, 1.44, 1.44, 0, 0, 0, 0

POND 2 INFLOW & OUTFLOW Existing Detention Basin



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ngineering, Inc. 13 Apr 00

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SUBCATCHMENT 1

postdevelopment runoff

PEAK= 7.44 CFS @ 12.76 HRS, VOLUME= 1.24 AF

<u>SQ-</u> FT	CN	
61875.00	98	impervious
78455.00	77_	pervious
140330 00	86	

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 6.80 IN SPAN= 10-20 HRS, dt≈.1 HRS

Method	<u> </u>	
TR-55	SHEET	PLOW

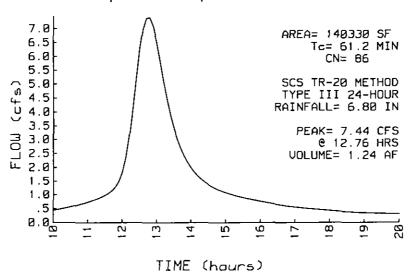
Comment

Tc (min) 61.2

n=.4 L=265'

P2=4.5 in s=.0067 '/'

SUBCATCHMENT | RUNOFF postdevelopment runoff



Prepared by Cardinal Engineering, Inc.

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

13 Apr 00

SUBCATCHMENT 2

postdevelopment runoff

PEAK= 3.26 CFS @ 12.48 HRS, VOLUME= .43 AF

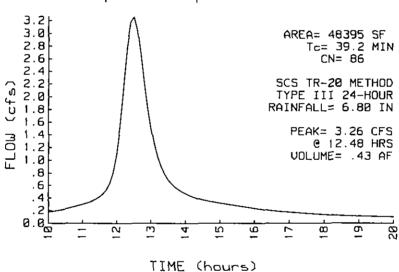
SQ-FT	CN_	
20855.00	98	impervious
27540.00	77	pervious
48395.00	86	

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 6.80 IN SPAN= 10-20 HRS, dt=.1 HRS

Method	Comment	Tc (min)
TR-55 SHEET FLOW		39.2

n=.4 L=240' P2=4.5 in s=.0167'/'

SUBCATCHMENT 2 RUNOFF postdevelopment runoff



Prepared by Cardinal Engineering, Inc.

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

13 Apr 00

SUBCATCHMENT 3

postdevelopment runoff

PEAK= 6.02 CFS @ 12.49 HRS, VOLUME= .79 AF

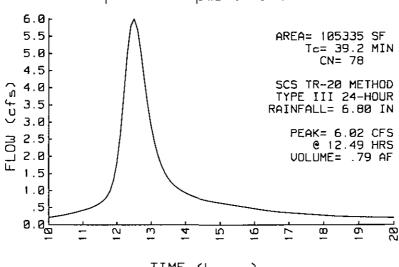
SQ-FT	CN	
6220.00	98	impervious
99115.00	77	pervious
105335.00	78	

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 6.80 IN SPAN= 10-20 HRS, dt=.1 HRS

Method	Comment	Tc (min)
TR-55 SHEET FLOW		39.2

n=.4 L=240' P2=4.5 in s=.0167'/'

SUBCATCHMENT 3 RUNOFF postdevelopment runoff



TIME (hours)

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13 Apr 00

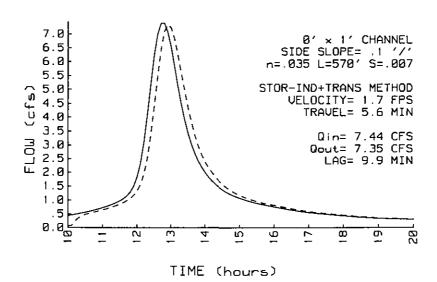
HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

REACH 1

Qin = 7.44 CFS @ 12.76 HRS, VOLUME= 1.24 AF
Qout= 7.35 CFS @ 12.92 HRS, VOLUME= 1.23 AF, ATTEN= 1%, LAG= 9.9 MIN

DEPTH	END AREA	DISCH		
(FT)	(SQ-FT)	(CFS)	0' x 1' CHANNEL	STOR-IND+TRANS METHOD
0.00	0.00	0.00	SIDE SLOPE= .1 '/'	PEAK DEPTH= .65 FT
.10	.10	.05	n= .035	PEAK VELOCITY= 1.7 FPS
.20	.40	.31	LENGTH= 570 FT	TRAVEL TIME = 5.6 MIN
.30	.90	. 90	SLOPE= .007 FT/FT	SPAN= 10-20 HRS, dt=.1 HRS
.43	1.85	2.35		
.60	3.60	5.71		
.80	6.40	12.30		
1.00	10.00	22.30		

REACH | INFLOW & OUTFLOW



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13 Apr 00

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

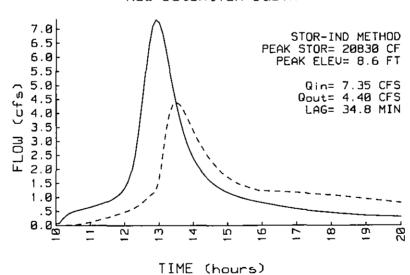
POND 1 New Detention Basin

Qin = 7.35 CFS @ 12.92 HRS,VOLUME= 1.23 AF Qout= 4.40 CFS @ 13.50 HRS, VOLUME= 1.07 AF, ATTEN= 40%, LAG= 34.8 MIN

ELEVATION	AREA	INC.STOR	CUM.STOR	STOR-IND METHOD
(FT)	(SF)	(CF)	(CF)	PEAK STORAGE = 20830 CF
6.0	5919	0	0	PEAK ELEVATION= 8.6 FT
7.5	8081	10500	10500	FLOOD ELEVATION= 9.0 FT
9.0	10965	14285	24785	START ELEVATION= 6.0 FT
				SPAN= 10-20 HRS, dt=.1 HRS
				Tdet= 118.9 MIN (1.06 AF)

# 1	ROUTE	INVERT	OUTLET DEVICES
1	P	6.0'	6" ORIFICE/GRATE
			Q=.6 PI r^2 SQR(2g) SQR(H-r) (Use H/2 if H <d)< td=""></d)<>
2	P	8.0'	2' SHARP-CRESTED RECTANGULAR WEIR
			$O=C L H^1.5 C=3.27+.4 H/1 L=Length-2(.1 H)$

POND 1 INFLOW & OUTFLOW New Detention Basin



Prepared by Cardinal Engineering, Inc.

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

13 Apr 00

POND 2

Existing Detention Basin

Qin = 3.26 CFS @ 12.48 HRS, VOLUME= .43 AF

Qout= 3.25 CFS @ 12.49 HRS, VOLUME= .37 AF, ATTEN= 0%, LAG= .6 MIN

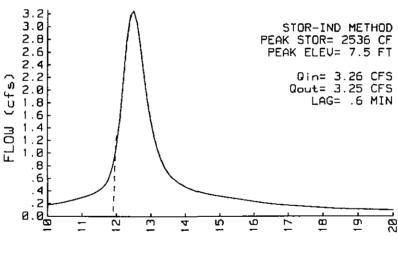
ELEVATION	AREA	INC.STOR	CUM.STOR	STOR-IND METHOD
(FT)	(SF)	(CF)	(CF)	PEAK STORAGE = 2536 CF
5.0	727	0	0	PEAK ELEVATION= 7.5 FT
7.0	1188	1915	1915	FLOOD ELEVATION= 7.5 FT
7.5	1419	652	2567	START ELEVATION= 5.0 FT
				SPAN= 10-20 HRS, dt=.1 HRS
				3 x FINER ROUTING
				Tdet= 55.3 MIN (.37 AF)

ROUTE INVERT OUTLET DEVICES

1 P 7.4' 50' BROAD-CRESTED RECTANGULAR WEIR X 1.81

 $Q=C \ L \ H^1.5 \quad C=1.48, \ 1.45, \ 1.44, \ 1.44, \ 0, \ 0, \ 0, \ 0$

POND 2 INFLOW & OUTFLOW Existing Detention Basin



TIME (hours)

Prepared by Cardinal Engineering, Inc.

13 Apr 00

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SUBCATCHMENT 1

postdevelopment runoff

PEAK= 9.03 CFS @ 12.75 HRS, VOLUME= 1.50 AF

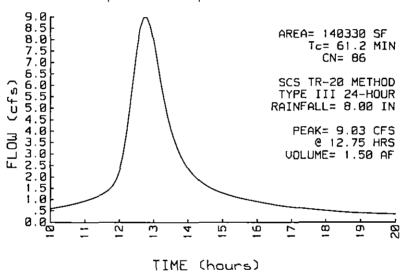
SO-FT	CN_	
61875.00	98	impervious
78455.00	77	pervious
140330.00	86	

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 8.00 IN SPAN= 10-20 HRS, dt=.1 HRS

Method	Comment	Tc (min)
TR-55 SHEET FLOW		61.2

n=.4 L=265' P2=4.5 in s=.0067'/'

SUBCATCHMENT 1 RUNOFF postdevelopment runoff



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eering, Inc. 13 Apr 00

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SUBCATCHMENT 2

postdevelopment runoff

PEAK= 3.95 CFS @ 12.47 HRS, VOLUME= .52 AF

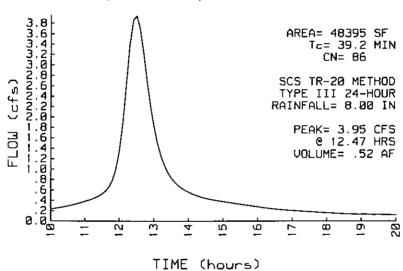
SQ-FT	CN	
20855.00	98	impervious
27540.00	77	pervious
48395.00	86	

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 8.00 IN SPAN= 10-20 HRS, dt=.1 HRS

Method	Comment	Tc (min)
TR-55 SHEET FLOW		39.2

n=.4 L=240' P2=4.5 in s=.0167'/'

SUBCATCHMENT 2 RUNOFF postdevelopment runoff



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ring, Inc. 13 Apr 00

HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 3

postdevelopment runoff

PEAK= 7.52 CFS @ 12.49 HRS, VOLUME= .98 AF

SQ-FT	CN	
6220.00	98	impervious
99115.00	77_	pervious
105335.00	78	

L=240'

SCS TR-20 METHOD TYPE III 24-HOUR RAINFALL= 8.00 IN SPAN= 10-20 HRS, dt=.1 HRS

Method

Comment

Tc (min)

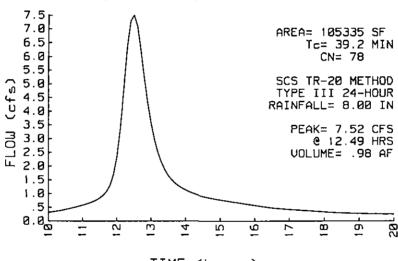
TR-55 SHEET FLOW

P2=4.5 in s=.0167'/'

39.2

SUBCATCHMENT 3 RUNOFF

postdevelopment runoff



TIME (hours)

Prepared by Cardinal Engineering, Inc.

13 Apr 00

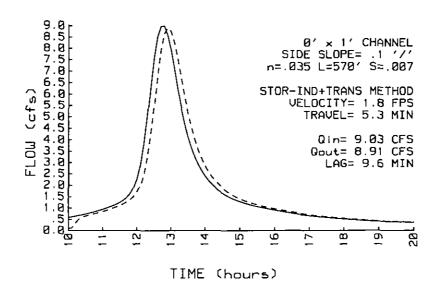
HydroCAD 5.11 001565 (c) 1986-1999 Applied Microcomputer Systems

RBACH 1

Qin = 9.03 CFS @ 12.75 HRS, VOLUME= 1.50 AF Qout= 8.91 CFS @ 12.91 HRS, VOLUME= 1.50 AF, ATTEN= 1%, LAG= 9.6 MIN

DEPTH I	END AREA	DISCH		
_(FT)	(SQ-FT)	(CFS)	0' x 1' CHANNEL	STOR-IND+TRANS METHOD
0.00	0.00	0.00	SIDE SLOPE= .1 '/'	PEAK DEPTH= .70 FT
.10	.10	.05	n= .035	PEAK VELOCITY= 1.8 FPS
.20	.40	.31	LENGTH= 570 FT	TRAVEL TIME = 5.3 MIN
.30	.90	.90	SLOPE= .007 FT/FT	SPAN= 10-20 HRS, dt=.1 HRS
.43	1.85	2.35		
.60	3.60	5.71		
.80	6.40	12.30		
1.00	10.00	22.30		

REACH 1 INFLOW & OUTFLOW



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POND 1

New Detention Basin

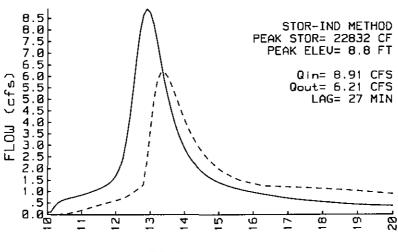
Qin = 8.91 CFS @ 12.91 HRS, VOLUME= 1.50 AF

Qout= 6.21 CFS @ 13.36 HRS, VOLUME= 1.32 AF, ATTEN= 30%, LAG= 27.0 MIN

ELEVATION	AREA	INC.STOR	CUM.STOR	STOR-IND METHOD
(FT)	(SF)	(CF)	(CF)	PEAK STORAGE = 22832 CF
6.0	5919	0	0	PEAK ELEVATION= 8.8 FT
7.5	8081	10500	10500	FLOOD ELEVATION= 9.0 FT
9.0	10965	14285	24785	START ELEVATION= 6.0 FT
				SPAN= 10-20 HRS, dt=.1 HRS
				Tdet= 105.3 MIN (1.3 AF)

# I	ROUTE	INVERT	OUTLET DEVICES
1	P	6.0'	6" ORIFICE/GRATE
			Q=.6 PI r^2 SQR(2g) SQR(H-r) (Use H/2 if H <d)< td=""></d)<>
2	P	8.01	2' SHARP-CRESTED RECTANGULAR WEIR
			$O=C L H^1.5 C=3.27+.4 H/1 L=Length-2(.1 H)$

POND 1 INFLOW & OUTFLOW New Detention Basin



TIME (hours)

Prepared by Cardinal Engineering, Inc.

13 Apr 00

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POND 2

Existing Detention Basin

Qin = 3.95 CFS @ 12.47 HRS, VOLUME= .52 AF

Qout= 3.94 CFS @ 12.48 HRS, VOLUME= .46 AF, ATTEN= 0%, LAG= .6 MIN

ELEVATION	AREA	INC.STOR	CUM.STOR	STOR-IND METHOD
(FT)	(SF)_	(CF)	(CF)	PEAK STORAGE = 2557 CF
5.0	727	0	0	PEAK ELEVATION≃ 7.5 FT
7.0	1188	1915	1915	FLOOD ELEVATION ≈ 7.5 FT
7.5	1419	652	2567	START ELEVATION≈ 5.0 FT
				SPAN= 10-20 HRS, dt=.1 HRS
				3 x FINER ROUTING
				Tdet = 46.8 MIN (.46 AF)

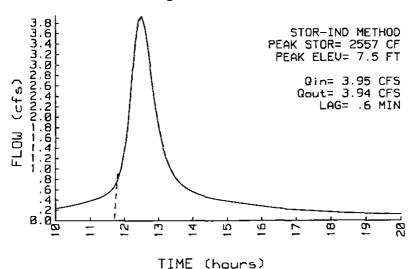
ROUTE INVERT

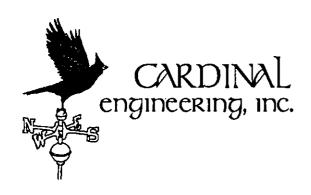
OUTLET DEVICES

1 P 7.4' 50' BROAD-CRESTED RECTANGULAR WEIR X 1.81

Q=C L H^1.5 C=1.48, 1.45, 1.44, 1.44, 0, 0, 0, 0

POND 2 INFLOW & OUTFLOW Existing Detention Basin





November 1, 1999

Mr. Walter R. Fielding, Zoning and Development Administrator Beaufort County Zoning and Development Department 100 Ribaut Road Beaufort, SC 29902

Re: Conceptual review for St. John' Lutheran Church

Dear Mr. Fielding:

Please find enclosed, four site plans and narratives for the above referenced project.

We request that this project be placed on the agenda for the next available DRT meeting for a Conceptual Approval Review.

If you have questions or need additional information, please let us know.

Thank you.

Sincerely,

im Godsey, P.E.

cc: File

enc.



PROJECT NARRATIVE ST. JOHNS LUTHERAN CHURCH BEAUFORT, SC

St. Johns Lutheran Church proposes construction of a Family Life Center (11,600 sq.ft.), Senctuary (8,800 sq.ft. and Fellowship/Education Building (12,000 sq.ft.).

The project site is on a 6.75 acre tract on the south side of Highway 208 +/- 1 mile from the intersection of Highway 208 and Highway. 21.

The tract is zoned Community Preservation. This is a "Permitted Use with Limited Review".

The proposed project will meet all applicable requirements of the ZDSO.