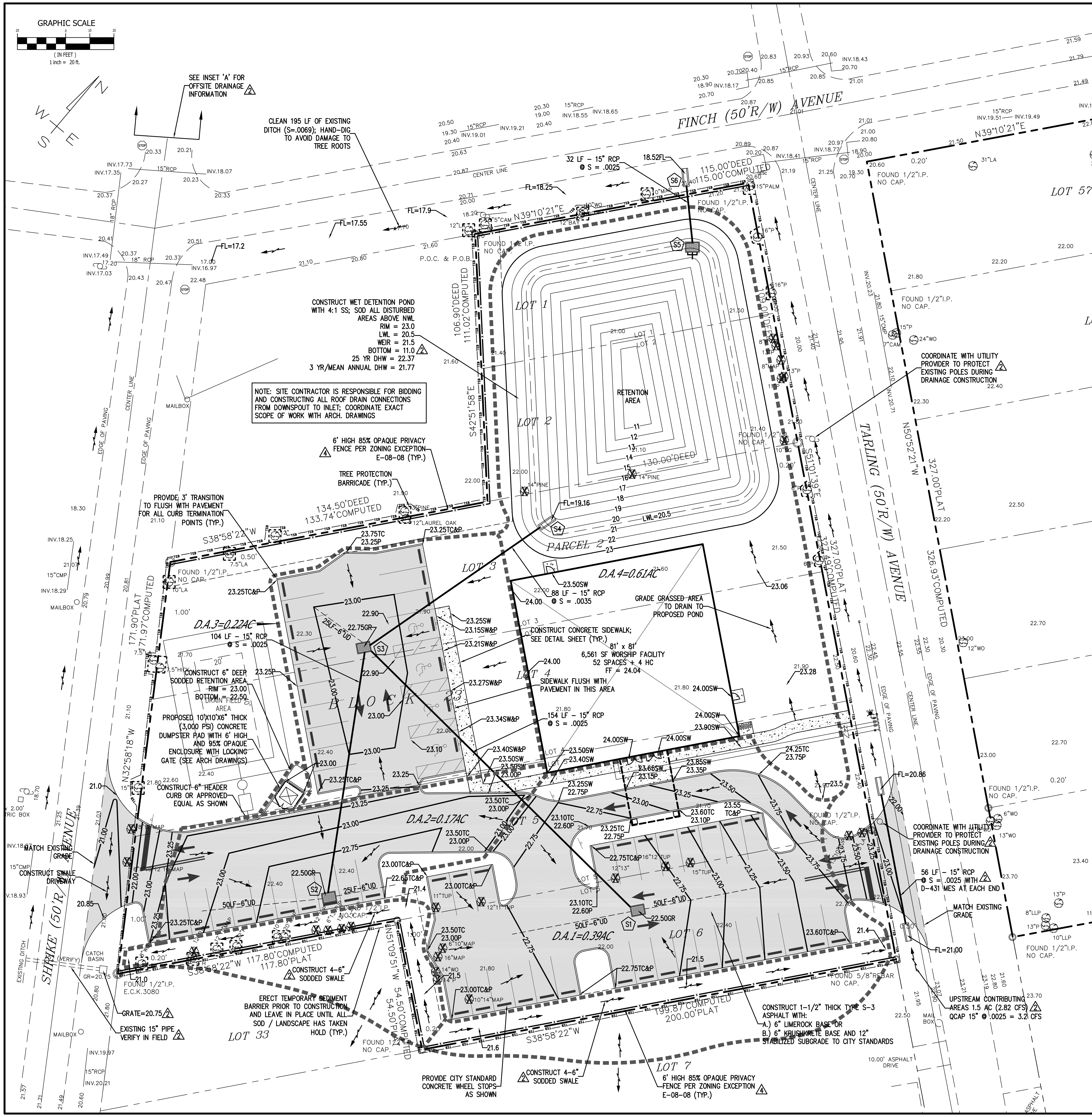
C:\1Drawings\William E Tully III, Inc\W09-003 Bridegroom Apostolic Church\09-003 Civil-Land.dwg, C4-GRAD, 5/2/2009 11:09:55 AM, Adobe PDF, 1:1

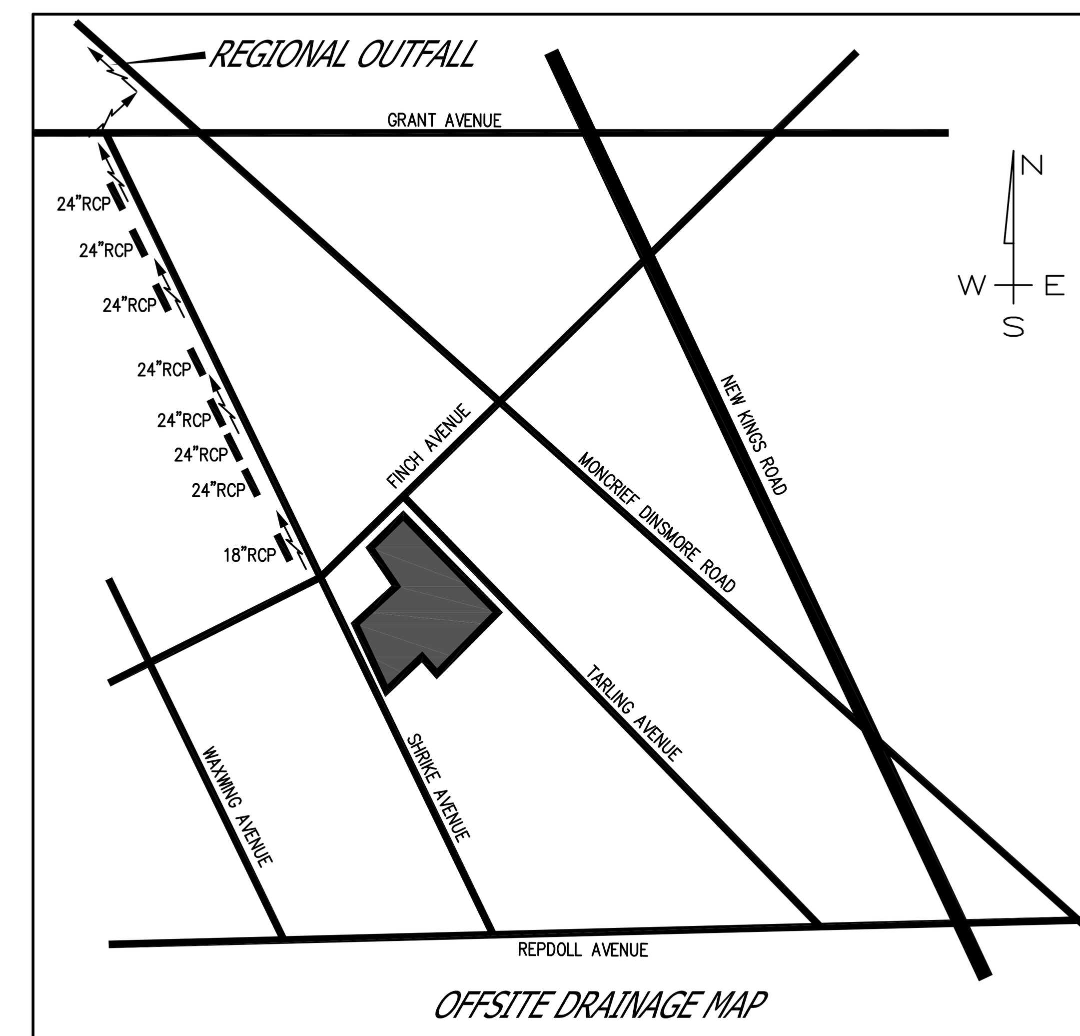


GENERAL NOTES:

1. TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY ROONEY & SONS PHONE: 695-1010
2. WILLIAM E. TULLY III, INC. AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.
3. ALL PHASES OF SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED OWNER/ CITY OF JACKSONVILLE SITE WORK SPECIFICATIONS. ALL PHASES OF WATER AND SEWER WORK SHALL MEET OR EXCEED JEA SPECIFICATIONS.
4. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. WARRANTY / DISCLAIMER
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS. NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.
6. CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO ENGINEER INDICATING MATERIALS AND MANNER OF INSTALLATION FOR ALL COMPONENTS OF THE PROJECT PRIOR TO PURCHASE OF MATERIALS AND CONSTRUCTION.
7. THESE ENGINEERING DRAWINGS MAY NOT SHOW ALL OF THE CITY OF JACKSONVILLE STANDARD DETAILS REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY THAT THE CONSTRUCTION BE IN ACCORDANCE WITH ALL CURRENT JEA (UTILITIES) STANDARD DETAILS AND SPECIFICATIONS. THE CONTRACTOR MAY OBTAIN A COPY OF THE CITY OF JACKSONVILLE, FLORIDA STANDARD DETAILS AND SPECIFICATIONS FROM JEA PRIOR TO BEGINNING CONSTRUCTION. ALSO, THE CONTRACTOR MAY OBTAIN A COPY OF THE JEA STANDARDS AND SPECIFICATIONS FROM JEA PRIOR CONSTRUCTION.
8. ALL CONTRACTORS SHALL FURNISH CERTIFIED "AS-BUILT", SEE AS-BUILT REQUIREMENTS ON THIS SHEET.
9. CONTRACTOR SHALL VERIFY AND PROTECT ALL EXISTING TREES AND NATURAL VEGETATION THAT ARE TO REMAIN UNDISTURBED. THE AREAS INDICATED FOR CONSTRUCTION SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS AND MISCELLANEOUS VEGETATION EXCEPT SPECIFIC TREES THAT SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION WITH THE USE OF TREE BARRIERS. TREES TO BE PRESERVED ARE FLAGGED, CONTRACTOR SHALL VERIFY BEFORE THE START OF CONSTRUCTION.
10. ALL DIMENSIONING REFERS TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
11. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO F.D.O.T. STANDARDS OR JEA.
12. ALL ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON THE U.S.G.S. NGV DATUM OF 1929.
13. THE LOCATIONS OF THE PROPOSED/FUTURE STREET LIGHTS AS SHOWN ON THE PLANS ARE CONCEPTUAL. THE EXACT DETAILS OF THE TYPES OF STREET LIGHTS, POLES AND FIXTURES ARE IN THE PROCESS OF BEING FINALIZED AND WILL BE SUBMITTED SEPARATELY FOR APPROVAL AND CONSTRUCTION. CONTRACTOR TO CONTACT ELLIS & ASSOCIATES, INC. (880-0960) TO OBTAIN COPY OF GEOTECHNICAL TEST RESULTS. (JOB NO. 03JX-1173)

GRADING AND DRAINAGE NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE GRADING AND DRAINAGE CONSTRUCTION WITH ALL OTHER CONSTRUCTION.
2. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH ALL CITY OF JACKSONVILLE STANDARDS.
4. THE CONTRACTOR SHALL STAKE THE STORM SEWER SYSTEM AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS, NOT COVERED ON THE PLANS, PRIOR TO INSTALLATION OF ANY PIPE.
5. THE EXISTING UTILITY FACILITIES AND LOCATIONS SHOWN ON THE DRAWINGS ARE TAKEN FROM READILY AVAILABLE INFORMATION. THE ACTUAL LOCATIONS OF THE UTILITY FACILITIES MAY VARY SOMEWHAT FROM THE LOCATION SHOWN AND THERE MAY BE UTILITY FACILITIES
EXISTING THAT ARE NOT SHOWN OR INDICATED ON THE DRAWINGS. THE SITE UTILITY CONTRACTOR SHALL CONTACT ALL AGENCIES WITH UTILITY FACILITIES IN THE VICINITY OF THE WORK AND SHALL LOCATE ALL UNDERGROUND FACILITIES BEFORE BEGINNING WORK. THE
CONTRACTOR SHALL PROTECT ALL UTILITY FACILITIES AND REPAIR ANY DAMAGES RESULTING FROM THEIR WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND RELOCATE IF REQUIRED AT NO COST TO THE OWNER.
6. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
7. PAVEMENT SUBGRADE SHALL HAVE ALL UNSUITABLE MATERIAL REMOVED TO A DEPTH OF 3.0 FEET BELOW SUBGRADE AND 2.5 FEET BEYOND BACK OF CURB.
8. ANY UNSUITABLE MATERIAL ENCOUNTERED AND EXCESS SUITABLE FILL MATERIAL SHALL BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE MATERIAL AND REPLACEMENT WITH STRUCTURAL FILL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBGRADE, LIMEROCK, AND ASPHALT TESTING AS REQUIRES BY THE PROJECT SPECIFICATIONS.
10. STORM WATER COLLECTION SYSTEM DESIGN IS BASED ON THE 5-YEAR RETURN FREQUENCY STORM (RATIONAL METHOD).
11. ALL RCP PIPE SHALL MEET THE REQUIREMENTS OF ASTM C-78 AND SHALL BE CLASS III, WALL B.
12. ALL PIPE LENGTHS ARE APPROXIMATE AND MEASURED TO THE CENTER OF STRUCTURE OR MITERED END SECTION. ACTUAL LENGTHS MAY VARY.
13. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS ONLY.
14. A QUALIFIED SOILS LABORATORY SHALL BE ON SITE DURING EXCAVATING TO DETERMINE THE SUITABILITY OF THE EXISTING SUB-GRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.
15. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
16. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS (ELECTRIC, TELEPHONE, GAS, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS AND CONSTRUCTION TO BE PERFORMED.
17. CUT AND FILL SLOPES ARE NOT TO EXCEED 4:1 UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS AS RESULT OF HIS WORK.
19. ALL SOILS TEST REPORTS TO BE SUBMITTED TO PROJECT MANAGER.
20. FOR ALL TRENCH EXCAVATIONS WHICH EXCEED FIVE FEET (UTILITIES AND STORM), THE FOLLOWING MUST BE ADHERED TO:
A. CONTRACTOR MUST FOLLOW OSHA STANDARD 29 CFR, SECTION 1926.650 SUBPART P, WHICH IS NOW A PART OF LAWS OF FLORIDA CHAPTER 90-96.
B. THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW.
C. A TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.
21. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER.
22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO CITY OF JACKSONVILLE STANDARDS, SERIES 900.
23. AFTER PREPARATION OF SUBGRADE AND PRIOR TO CONSTRUCTION OF BASE COURSE, THE CONTRACTOR SHALL INSPECT THE SUBGRADE AND SHALL COORDINATE WITH THE OWNER TO MAKE RECOMMENDATIONS FOR THE INSTALLATION OF UNDERDRAIN. ALL INLETS SHALL BE PROVIDED WITH KNOCKOUTS FOR UNDERDRAIN PIPE.



OFFSITE DRAINAGE MAP
INSET 'A'
N.T.S.

STRUCTURE TABLE

STR #	STRUCTURE TYPE	TOP/GR.	INVERTS
S1	TYPE 'E' INLET WITH T.B.G.	22.50	15" (W) = 19.86; 6" (E&W) = 20.00
S2	TYPE 'E' INLET WITH T.B.G.	22.50	15" (N) = 19.73; 6" (E&W) = 20.00
S3	TYPE 'E' INLET WITH T.B.G.	22.75	15" (N,E,S) = 19.47; 6" (NW) = 20.00
S4	D-431 MES	–	15" (S) = 19.16
S5	TYPE 'E' OVERFLOW INLET	22.50	1' SLOT (S) = 21.50; 15" (N) = 18.60; 6" (S) = 20.50*
S6	D-431 MES	–	15" (S) = 18.52

* 4.32"ø HOLE DRILLED IN 6" CAP

No.	Revisions	Date	By
1	PER JEA COMMENTS	02-09-06	WES
2	PER COJ 10 SET, SJRWMD RAI	03-04-09	WES
3	PER HRS	03-25-09	WES
4	PER COJ 10 SET FINAL	03-25-09	WES
5	PER COJ 10 SET	04-06-09	WES
6	PER DCHD	04-27-09	WES
7			

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

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Certificate of Authorization # 4576
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BRIDEGROOM APOSTOLIC CHURCH

S.W. CORNER OF TARLING AVENUE AND FINCH AVENUE

GRADING AND DRAINAGE PLAN

Date	01-27-09
Scale	1"=20'
Drawn	WES
Checked By	WET
Job	09-003
Sheet	C4

NOT RELEASED FOR CONSTRUCTION