

1507.15' CALC. PLAT
 1507.20' PLAT
 1326.88' CALC. PLAT
 1327.04' PLAT

SITE AND UTILITIES PLAN

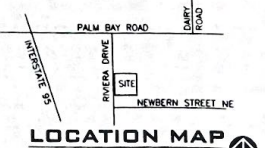
LEGAL DESCRIPTION:
 LOT 30, SUBDIVISION OF SECTION 29, TOWNSHIP 28 SOUTH, RANGE 37 EAST, PLAT OF FLORIDA INDIAN RIVER LAND COMPANY, A SUBDIVISION ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 1, PAGE 164, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

- 1. GENERAL STATEMENT:**
 THIS PROPOSED PROJECT CONSISTS OF THE CONSTRUCTION OF A 11,616 SF CHURCH ON A 20.27 ACRE SITE. THE BUILDING CONSISTS OF A 4404 SF SANCTUARY AND FIVE CLASSROOMS. THE CLASSROOMS ARE FOR SUNDAY SCHOOL ONLY AND NURSEY DURING SERVICES ONLY. NO DAYCARE OR OTHER EARLY SERVICES ARE PLANNED FOR THE SITE. THE EAVE HEIGHT OF THE BUILDING IS 14 FEET. THE SITE CONSISTS OF UPLANDS WITH ASPHALTIC DRIVEWAYS AND PARKING, DUMPSTER PAD AND ENCLOSURE, AND TWO DRY RETENTION STORMWATER TREATMENT SYSTEMS. THE ZONING IS RU, INSTITUTIONAL USE.
- 2. OWNER:**
 UNITED CHURCH OF CHRIST CONGREGATIONAL
 DICK RHINEHART
 1980 PALM BAY ROAD
 PALM BAY, FLORIDA 32905
- ENGINEER:**
 CONSTRUCTION ENGINEERING GROUP
 JAKE T. WISE, P.E.
 1751 SARNO ROAD, SUITE 5
 MELBOURNE, FLORIDA 32935
 TEL: (321) 253-1221 FAX: (321) 253-3123
 E-MAIL: CONEG@ATLANTIC.NET
- 3. SURVEYOR:**
 DETHORN AND ASSOCIATES, INC.
 476 HIGHWAY A1A, SUITE 48
 SATELLITE BEACH, FLORIDA 32937
 (321) 779-8661
- LOCATION:**
 651 RIVERA DRIVE, PALM BAY, FLORIDA 32905
 SECTION 29, TOWNSHIP 28S, RANGE 37E
- 4. SITE CHARACTERISTICS:**
 CALCULATED LOT COVERAGES
 OF STORMWATER BASIN
- | SO. FOOTAGE | ACREAGE | PERCENT |
|-------------|---------|---------|
| 57,775 | 0.87 | 43 |
| 50,042 | 1.15 | 57 |
| 87,817 | 2.02 | 100 |
- 5. FLOOD PLAN:**
 FLOOD PLAIN ZONE X PER FEMA FLOOD INSURANCE RATE MAP NO. 12009C0520 E. (AREA DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAN)
- 6. FIRE FLOW CALCULATIONS:**
 11,616 SF TYPE IV METAL BUILDING (C=0.8)
 SPRINKLERED BUILDING -25%
 EXPOSURE DISTANCES: N/A
- 7. PARKING SPACE CALCULATIONS:**
 216 SEATS IN SANCTUARY = 216/3 SP = 72 SPACES
 5 CLASSROOMS = 5 x 1 SP = 5 SPACES
 TOTAL PARKING REQUIRED = 77 SPACES INCLUDING 3 HANDICAPPED SPACES
 TOTAL PARKING PROVIDED = 78 SPACES INCLUDING 4 HANDICAPPED SPACES

- NOTES:**
- 2-1. PROVIDE PAINTED, WHITE 24" WIDE STOP BAR PER FOOT INDEX NO. 17346 (2 TYP. ON-SITE).
 - 2-2. PROVIDE THERMOPLASTIC WHITE 24" WIDE STOP BAR, THERMOPLASTIC 6" WIDE DOUBLE YELLOW CENTERLINES (20' LONG), AND THERMOPLASTIC WHITE DIRECTIONAL ARROWS (2 TYP) PER FOOT INDEX NO. 17346.
 - 2-3. PROVIDE HANDICAP ACCESSIBLE RAMP, 6' LONG WITH 1:12 SLOPE AND TACTILE SURFACE PER FOOT INDEX NO. 304 (5 TYP. ON-SITE).
 - 2-4. PROVIDE PAINTED WHITE ARROW PER FOOT INDEX NO. 17346 (4 TYP. ON-SITE).
 - 2-5. PROVIDE CONCRETE BUMPER GUARD PER FOOT STANDARD INDEX 200 (TYP). ALL BUMPER GUARDS SHALL BE INSTALLED AT THE HEAD OF ALL STALLS 16' IN LENGTH AND 2' FROM HEAD OF STALL IN 19' LONG STALLS.
 - 2-6. PROVIDE PAINTED WHITE 6" WIDE PERIMETER STRIPE AND 4" WIDE 45° ANGLE STRIPES SPACED 2' O.C.
 - 2-7. PROVIDE 4" WIDE WHITE PAINTED STRIPE (TYP).
 - 2-8. PROVIDE STOP SIGN PER MUTCD 811-1 (3 TYP).
 - 2-9. PROVIDE HANDICAP PARKING SPACE. SEE DETAIL ON DWG C-3 (4 TYP).
 - 2-10. PROVIDE BOLLARD (3 TYP). SEE DETAIL INDICATED. BOLLARD SHALL NOT INTERFERE WITH OPERATION OF FDC, FH, PW, OR DOC.
 - 2-11. PROVIDE SIDEWALK. SEE DETAIL INDICATED.
 - 2-12. PROVIDE DUMPSTER ENCLOSURE AND CONCRETE APRON. SEE DETAIL INDICATED.
 - 2-13. PROVIDE DRIVEWAY/PARKING ASPHALTIC PAVEMENT ON-SITE. SEE DETAIL INDICATED.
 - 2-14. PROVIDE 4.5" 10" OF PVC WATER LINE.
 - 2-15. PROVIDE 4.5" 10" OF PVC WATER LINE.
 - 2-16. PROVIDE 2" GATE VALVE AND 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH METER. SEE DETAILS ON DWG C-4.
 - 2-17. PROVIDE 10" x 6" REDUCER, 6" GATE VALVE, 6" DOUBLE DETECTOR CHECK VALVE, PV, AND FIRE DEPARTMENT CONNECTION. SEE DETAILS ON DWG C-4.
 - 2-18. PROVIDE FIRE HYDRANT ASSEMBLY. SEE DETAIL ON DWG C-4.
 - 2-19. SEE PLUMBING DRAWINGS FOR CONTINUATION (TYP).
 - 2-20. PROVIDE 4.5" 10" OF PVC SANITARY SEWER LINE AT MINIMUM 1% SLOPE.
 - 2-21. PROVIDE SANITARY SEWER CLEANOUT SPACED MINIMUM 75' APART. SEE DETAIL ON DRAWING C-4.
 - 2-22. PROVIDE 12" x 10" TAP, TEMPORARY JUMPER AND 10" GATE VALVE. SEE DETAILS ON DWG C-4.
 - 2-23. PROVIDE FORCE MAIN TAP AND 2" FORCE MAIN VALVE. SEE DETAIL ON DRAWING C-5.
 - 2-24. PROVIDE ASPHALTIC DRIVEWAY WITH CONCRETE RIBBON CURB IN RIVERA DRIVE RIGHT-OF-WAY PER CITY OF PALM BAY DETAIL ON DWG C-5.
 - 2-25. PROVIDE JACK AND BORE BENEATH RIVERA DRIVE FOR INSTALLATION OF NEW WATER LINE. SEE DWG C-4 FOR DETAIL. CASING SIZE SHALL BE PER PALM BAY STANDARDS.
 - 2-26. PROVIDE 4.5" 10" OF FW LINE.
 - 2-27. PROVIDE LIFT STATION WITH FENCED ENCLOSURE (6' DUAL SWING GATES) AND 10 FOOT WIDE STABILIZED DRIVE. SEE DWG C-3 AND C-6 FOR DETAILS.
 - 2-28. PROVIDE STABILIZED GRASS PARKING. SEE DETAIL INDICATED.
 - 2-29. PROVIDE ANCHORED TIMBER AT EDGE OF PARKING AREA (TYP). ANCHOR TIMBERS W/2 #4 BARS EACH.
 - 2-30. PROVIDE WHITE THERMOPLASTIC HIGH EMPHASIS CROSSWALK PER FOOT INDEX 17346. STRIPES SHALL BE 12" WIDE, 24" O.C.

LEGEND:

DESCRIPTION	NEW
BUILDING OR STRUCTURE	[Symbol]
GRASS PARKING AREA	[Symbol]
ASPHALTIC PAVEMENT	[Symbol]
CONCRETE WALK OR DRIVE	[Symbol]
SANITARY SEWER	SS
WATERLINE	W
FIRE WATERLINE	FW
STORM DRAIN W/ INLET	[Symbol]
STORM DRAIN W/ MES	[Symbol]
SPOT ELEVATION	9.00
SWALE OR FLOW DIRECTION	[Symbol]



HSA HOLEMAN SUTAN ARCHITECTS
 700 WARELY PLACE SUITE 100
 MELBOURNE, FLORIDA 32901
 PHONE: (321) 253-1221
 FAX: (321) 253-3123
 WWW.HSA-ARCHITECTS.COM

DATE: 3-11-02
 SCALE: 1"=20'
 PROJ. NO: HSA-01143
 DESIGNED BY: J. WISE
 DRAWN BY: J. WISE
 CHECKED BY: J. WISE
 DRAWING NO: C-1
 SHEET OF

CONSTRUCTION ENGINEERING GROUP
 CIVIL/MECHANICAL/ELECTRICAL/PLUMBING
 1751 SARNO ROAD, SUITE 5, MELBOURNE, FLORIDA 32901
 PHONE: (321) 253-1221

UNITED CHURCH OF CHRIST CONGREGATIONAL
 HOLEMAN SUTAN ARCHITECTS, INC. MELBOURNE, FLORIDA 32901
 700 WARELY PLACE, SUITE 100, MELBOURNE, FLORIDA 32901

SITE AND UTILITIES PLAN

ENGINEER OF RECORD

JAKE T. WISE, P.E.
 LICENSE NO. 35403

DATE: 3-11-02
 SCALE: 1"=20'
 PROJ. NO: HSA-01143
 DESIGNED BY: J. WISE
 DRAWN BY: J. WISE
 CHECKED BY: J. WISE
 DRAWING NO: C-1
 SHEET OF