



## GENERAL NOTES:

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL SUBCONTRACTORS.

- THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
  - BOUNDARY & TOPOGRAPHIC SURVEY BY CRAIG A SMITH & ASSOCIATES DATED 9/18/19**

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT HESHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE.

- ALL HANDICAPPED PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12181 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.), FLORIDA BUILDING CODE (LATEST EDITION), FLORIDA ACCESSIBILITY CODE (LATEST EDITION) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.

- THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.

- THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, SHALL PRECEDE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.

- THESE PLANS ARE BASED ON INFORMATION PROVIDED TO S3 DESIGN GROUP BY THE OWNER AND OTHERS AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY S3 DESIGN GROUP IN WRITING PRIOR TO COMMENCEMENT OF WORK IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

- ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.

- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, BUILDING DIMENSIONS, AND BUILDING UTILITY CONNECTIONS. SHOULD THIS INFORMATION CONFLICT WITH THESE PLANS THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION.

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.

- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT AND CONTIGUOUS STRUCTURES.

- THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, ETC. WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

- ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS/ MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTSCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

- THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

- ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKERS' COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME S3 DESIGN GROUP, LLC, AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS. S3 TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH THOMAS ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS THOMAS ENGINEERING AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

- S3 DESIGN GROUP WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. S3 DESIGN GROUP'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT S3 DESIGN GROUP HAS REVIEWED THE ENTIRE

- ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. S3 DESIGN GROUP WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. S3 DESIGN GROUP WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR TESTS, INCLUDING SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

- NEITHER THE PROFESSIONAL ACTIVITIES OF S3 DESIGN GROUP, NOR THE PRESENCE OF S3 DESIGN GROUP OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR SAFE CONSTRUCTION. THE CONTRACTOR SHALL COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. S3 DESIGN GROUP AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. S3 DESIGN GROUP SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE SUBJECT TO AN ADDITIONAL INSURANCE UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EDGES AND TRAFFIC SIGNALS. THE COST FOR THIS ITEM SHOULD BE INCLUDED IN THE CONTRACTOR'S PRICE.

- IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREIN, WITHOUT OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER OR ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

- CONTRACTOR SHALL CONFIRM ADA ACCESSIBILITY COMPLIANCE PRIOR TO INSTALLING FINISHING COURSES OF SIDEWALKS AND PAVING IN PARKING AREAS. SHOULD A DISCREPANCY BE DETERMINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO INSTALLATION.

- UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT S3 DESIGN GROUP AND ARRANGE A PRE-CONSTRUCTION CONFERENCE WHICH SHALL INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND S3 DESIGN GROUP.

- ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) PRIOR TO THE COMMENCEMENT OF OCCUPANCY. THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR.

- CONTRACTOR SHALL PROVIDE MINIMUM 48 HOUR NOTICE TO ENGINEER AND APPLICABLE AGENCIES FOR SCHEDULING INSPECTIONS.

- PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY S3 DESIGN GROUP AND THE JURISDICTION PERMITTING AGENCY (LOCAL MUNICIPALITY, COUNTY OR THE FLORIDA DEPARTMENT OF TRANSPORTATION) HAVING AUTHORITY WHICH MAY INCLUDE THE FOLLOWING: CATCH BASINS, FIRE HYDRANTS, VALVES, AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL AGENCY APPROVALS AS REQUIRED.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.

- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.L.T.C.D. AND THE STANDARDS, SPECIFICATIONS AND DETAILS OF THE JURISDICTION/PERMITTING AGENCY (LOCAL MUNICIPALITY OR COUNTY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION). WHERE REQUIRED THE CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLANS FOR VEHICLES AND PEDESTRIANS TO THE JURISDICTION/PERMITTING AGENCY FOR APPROVAL PRIOR TO IMPLEMENTATION.

- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

- NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM JURISDICTION (LOCAL MUNICIPALITY, COUNTY OR THE FLORIDA DEPARTMENT OF TRANSPORTATION) HAVING AUTHORITY.

- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION. SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE, ALL RESTORED TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S TRAFFIC ENGINEERING STANDARDS.

- CONTRACTOR SHALL REMOVE ORGANICS AND/OR DELETERIOUS MATERIAL WHERE ENCOUNTERED AND REPLACE WITH SUITABLE FILL. ORGANICS MAY BE REUSED TO GRADE LANDSCAPE AREAS.

## STORM DRAINAGE:

- GENERAL:
  - LOCATIONS OF BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.
  - DISTANCES AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.
  - CONTRACTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE GRADING MATERIAL FREE FROM ROCK FORTATION AND OTHER DEBRIS 18"43 AND PROVIDE POSITIVE DRAINAGE FLOW TO THE SITE DRAINAGE SYSTEM. CONTRACTOR SHALL INSTRUCT SUB-CONTRACTORS (SITE, LANDSCAPE, ETC.) OF THE SAME. SHALLOW SWALES MAY BE NEEDED IN CERTAIN INSTANCES.

- MATERIALS:
  - ALL HIGH DENSITY P.E. PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M-294 AND FITTINGS REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.
  - ALL YARD DRAIN BASINS ARE TO BE HIGH DENSITY P.E. PRODUCT AND SHALL MEET ASTM LATE ST. MINIMUM STANDARDS.
  - ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL MEET THE REQUIREMENT OF ASTM SPECIFICATION C-478 AND 641 UNLESS OTHERWISE NOTED ON THE PLANS. BLOCK CATCH BASINS WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE ENGINEER THE MINIMUM WALL AND SLAB THICKNESS SHALL BE 8 INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED. CONCRETE SHALL BE MINIMUM OF f-c=3,750PSI AT 28 DAYS.

- INSTALLATION:
  - PIPE SHALL BE PLACED ON A MINIMUM OF 8 INCH STABLE, FIRM MATERIAL. ALL FITTINGS SHALL BE PROPERLY INSTALLED. FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.
  - BACKFILL MATERIALS SHALL BE WELL GRADED, GRANULAR MATERIAL WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES TO A HEIGHT OF 12 INCHES ABOVE PIPE AS SHOWN ON THE PLANS.
  - PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID NECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLE(S) DURING CONSTRUCTION ONCE PIPING AND MATERIAL(S) ARE INSTALLED.
  - CONTRACTOR SHALL NOTIFY THE CITY OF MARGATE ENGINEERING DEPARTMENT/BROWARD COUNTY AND THE ENGINEER OF RECORD AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND SUBSEQUENT INSPECTIONS(S).

## PAVING:

- GENERAL:
  - ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
  - ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
  - WHERE ANY PROPOSED PAVING IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT TO ENSURE A PROPER JOINT.

- MATERIALS:
  - LIMEROCK BASE: (ASPHALT, VEHICULAR PAVER AREAS, ETC.), LIMEROCK BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM 8 INCHES OF THICKNESS (OR AS SHOWN ON THE PLANS) AND COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-180 (MIN. LBR 100). OTHER SUBSTITUTES SHALL BE PER THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS (NUMBER(S) AS ABOVE (MIN. LBR 100), MIAMI LIMEROCK TO HAVE MINIMUM OF 70% CARBONATES AND LIQUID LIMIT 35 PLASTICITY OR ACCEPTABLE FDOT PRODUCT APPROVAL.
  - WEARING SURFACE (ASPHALT SURFACE ONLY) INSTALLATION OF THE ASPHALT CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS FOR TYPE SP-9.5 ASPHALT CONCRETE (OR AS NOTED ON THE PLANS) AND FOR SECTION WITH A MINIMUM OF 1 1/2 INCHES OF THICKNESS SHALL BE CONSTRUCTION WITH A MINIMUM OF 2 LIFTS OF TYPE SP-9.5 ASPHALTIC CONCRETE WITH TACK COAT BETWEEN LIFTS (VIRGIN ASPHALT TO BE USED FOR FINAL LIFT).
  - REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORCED WITH A 6"x6" NO. 6 GAUGE WIRE MESH.

- INSTALLATION:
  - SUB-BASE TO BE 12 INCHES OF STABILIZED SUB-BASE COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER AASHTO T-180 (MIN. LBR 100).
  - BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY AS PER AASHTO T-180.
  - INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS FOR TYPE SP-9.5 OR SP-12.5 ASPHALTIC CONCRETE OR THE LATEST REVISION

- TESTING
  - THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
  - DENSITY TESTS SHALL BE TAKEN BY AND INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
  - ALL TESTING COSTS (DENSITY, PAVING, ETC.) SHALL BE PAID BY THE CONTRACTOR.
  - DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OR RECORD AND THE CITY OF MARGATE, AND APPROVED BEFORE ANY BASE IS CONSTRUCTED.
  - DENSITY TESTS AND AS-BUILTS ON THE FINISHED BASE SHALL BE SUPPLIED TO THE CITY OF MARGATE AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED.

## PAVEMENT MARKINGS & SIGNAGE:

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAY" LATEST EDITION AND CITY OF MARGATE ENGINEERING STANDARDS.

## POLLUTION PREVENTION:

- THE CONTRACTOR SHALL CONTINUOUSLY ENSURE THAT THE PERIMETER OF THE SITE, INCLUDING CONSTRUCTION ENTRANCES, IS SECURED FROM ALLOWING DEBRIS TO LEAVE THE SITE DUE TO CONSTRUCTION ACTIVITY OR RAINFALL EVENTS. WEEKLY LOG SHALL BE UPDATED AND KEPT ON-SITE IN ACCORDANCE WITH THE NPDES PERMIT. BY BIDDING DOCUMENTS CONTRACTOR ACKNOWLEDGES HESHE IS AWARE OF NPDES GUIDELINES AND POLICIES AS WELL AS BEST MANAGEMENT PRACTICES AND ASSUMES SOLE RESPONSIBILITY FOR FINES IMPOSED BY GOVERNMENTAL AGENCIES DUE TO VIOLATIONS.

## WATER DISTRIBUTION:

- ALL CONSTRUCTION & MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS & APPLICABLE CODES.
- ALL WATER PIPE 4" & LARGER SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE PIPE CONFIGURATION TO AWWA C-900-97, PVC-1120, SDR-18 OR DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF AWWA C-151/A21.495. 4" DIP SHALL BE CLASS 350, 6" & 8" DIP SHALL BE CLASS 350, & 10" DIP SHALL BE CLASS 350. MINIMUM DEPTH OF COVER IS 36" FOR PVC & 30" FOR DIP. ALL PIPE TO HAVE 150PSI MINIMUM PRESSURE RATING. FITTINGS 4" & LARGER SHALL BE DUCTILE IRON METTING RIGHT-OF-WAY OR EASEMENT SHALL BE DUCTILE IRON PIPE CLASS 350. ALL FITTINGS SHALL BE DIP OR PVC C-900 (SDR-14) & PRESSURE TESTED AT 200 PSI FOR 2 HOURS.

- ALL WATER PIPE SMALLER THAN 4" SHALL BE PVC MINIMUM SCHEDULE 80 WITH A MINIMUM WORKING PRESSURE OF 160PSI. FITTINGS FOR PIPE SMALLER THAN 4" SHALL BE MINIMUM SCHEDULE 80. SOCKET WELD SOCKET TYPE ASTM D-2464 OR MINIMUM SCHEDULE 80 THREADED TYPE ASTM D-2464.

- THERE SHALL BE NO CONNECTION TO AN EXISTING WATER MAIN UNTIL PRESSURE & BACTERIOLOGICAL TESTS HAVE BEEN RUN & THE SYSTEM, ACCEPTED BY THE LOCAL MUNICIPALITY & THE COUNTY HEALTH DEPT.

- ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE LOCAL MUNICIPALITY UTILITY DEPT.

- WATER METERS 2" OR SMALLER SHALL BE INSTALLED BY THE CITY. THE CONTRACT SHALL COORDINATE WITH THE LOCAL MUNICIPALITY UTILITY DEPARTMENT FOR THE NECESSARY FITTINGS NECESSARY TO INSTALL THE METERS. ALL COSTS ASSOCIATED WITH THE METER INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- GATE VALVES 4" OR LARGER SHALL MEET AWWA C-509-94 STANDARD, BUTTERFLY VALVES 16" OR LARGER SHALL MEET AWWA C-504-00, CLASS 150A STANDARD.

- FIRE HYDRANTS SHALL BE TRAFFIC BREAK AWAY TYPE CONFORMING TO AWWA C-502-94 STANDARDS. FIRE HYDRANTS SHALL BE MUELLER MODEL A-423, CLOW MEDALLION OR APPROVED EQUAL BY LOCAL MUNICIPALITY UTILITY DEPT.

- ALL TRENCHING, PIPE LAY, BACKFILLING, PRESSURE TESTING, & DISINFECTING MUST COMPLY WITH AWWA C-600-99 & C-651-99 STANDARDS.

- DEFLECT WATER MAINS AS NECESSARY TO AVOID ANY CONFLICTS WITH OTHER UTILITIES. ALLOWABLE DEFLECTION SHALL NOT EXCEED AWWA STANDARD.

- THE CONTRACTOR SHALL COORDINATE THE LOCATION & ELEVATION OF THE ENDS OF THE WATER SERVICES WITH THE BUILDING PLUMBING CONTRACTOR.

- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING WATER MAINS & PROPOSED CONNECTION POINTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.

- ALL WATER MAINS TO BE FLUSHED VIA POLY PIG.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY WATER REQUIRED FOR CONSTRUCTION, CLEANING &/OR TESTING.

- TESTING:
  - ALL PIPE SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI (200 PSI FOR FIRE MAINS) FOR A MINIMUM TEST PERIOD OF (2) HOURS & SHALL NOT EXCEED THE PRESSURE REQUIREMENTS AS PER ANSII/AWWA C-600-95 SPECIFICATIONS OF LEAKAGE FORMULA:
 
$$L = \frac{SD \cdot P}{148,000}$$
 L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR  
 S = TOTAL LENGTH OF PIPE TESTED IN FEET  
 D = DIAMETER OF THE PIPE TESTED IN INCHES  
 P = AVERAGE TEST PRESSURE IN PSI

THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY & THE ENGINEER OF RECORD.

- DISINFECTION
  - ALL WATER LINES SHALL COMPLY WITH ANSII/AWWA C-651-95. BACTERIOLOGICAL SAMPLING POINTS ARE SHOWN ON THE WATER MAIN PLAN. A CHLORINE RESIDUAL OF 0.3 TO 1.5 PPM SHALL BE MAINTAINED. ALL STERILIZATION SHALL BE AT THE FULL EXPENSE OF THE CONTRACTOR.
  - BACTERIOLOGICAL SAMPLES MUST BE APPROVED BY THE COUNTY PUBLIC HEALTH UNIT & THE LOCAL MUNICIPALITY UTILITY DEPT. PRIOR TO OPERATION OF THE SYSTEM.

- ALL PVC PIPE SHALL BE INSTALLED WITH METALLIC LOCATOR TAPE 18" ABOVE THE TOP OF THE PIPE.

- BACKFLOW PREVENTORS MUST BE APPROVED BY THE CITY AS TO TYPE & LOCATION PRIOR TO INSTALLATION.

- ALL WATER MAIN PIPE, INCLUDING FITTINGS, INSTALLED ON OR AFTER AUGUST 28TH, 2003, EXCEPT PIPE INSTALLED UNDER A CONSTRUCTION PERMIT FOR WHICH HEALTH DEPT. RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28TH, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLIDWALLED BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE ETHERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; & UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO WALL PIPE. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED NO GREATER THAN 12" INTERVALS AROUND THE PIPE, & THAT WILL REMAIN INTACT DURING & AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE THE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE & THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE AT DRINKING WATER TREATMENT PLANTS SHALL BE COLOR CODED & LABELED IN ACCORDANCE WITH SUBSECTION 32-555.320(9), F.A.C. & ALL OTHER ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE. SUBSECTION 62-555.320(10), F.A.C. READS AS FOLLOWS: COLOR CODING OF PIPES AT DRINKING TREATMENT PLANTS: ALL NEW OR ALTERED, ABOVEGROUND PIPING AT DRINKING WATER TREATMENT PLANTS SHALL BE COLOR CODED & LABELED AS RECOMMENDED IN SECTION 2.14 OF RECOMMENDED STANDARDS FOR WATER WORKS AS INCORPORATED INTO RULE 62-555.330, F.A.C. IN ADDITION, ALL UNDERGROUND WATER MAIN PIPE THAT IS INSTALLED AT DRINKING WATER TREATMENT PLANTS ON OR AFTER AUGUST 28TH, 2003, & THAT IS CONVEYING FINISHED DRINKING WATER SHALL BE COLOR CODED AS REQUIRED UNDER SUBPARAGRAPH 62-555.320(11)(B)(3), F.A.C. THIS SUBSECTION DOES NOT APPLY TO DRINKING WATER TREATMENT PLANT PIPE INSTALLED OR REPAIRED UNDER A CONSTRUCTION PERMIT FOR WHICH THE DEPT. RECEIVED A COMPLETE APPLICATION BEFORE AUGUST, 28TH 2003.

## SANITARY SEWER

## COLLECTION:

- ALL CONSTRUCTION & MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS & APPLICABLE CODES.
- THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL & HORIZONTAL LOCATION OF EXISTING SEWER LINES, MANHOLES & STUBOUTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.

- ALL GRAVITY SEWER PIPE 4" &/OR LARGER SHALL BE POLYVINYL CHLORIDE (PVC) ASTM 304, SDR 35 FOR THE ONSITE SANITARY ASTM 304 SDR 26 FOR THE OFFSITE. USED IN THE LOCAL MUNICIPALITY RIGHT-OF-WAY, THE CONSTRUCTION SHALL BE COLORED GREEN FOR IDENTIFICATION AS SEWER PIPE.

- MINIMUM SLOPE SHALL BE 0.40% FOR GRAVITY MAINS FOR 8" PIPE & 1.0% FOR 6" SERVICE LATERALS.

- DUCTILE IRON SEWER PIPE FOR GRAVITY MAINS SHALL BE CLASS 350 POLYVINYL WITH A MINIMUM OF 30" OF COVER.

- PVC LINES ENTERING OR LEAVING MANHOLES SHALL HAVE A NEOPRENE BOOT WITH STAINLESS STEEL ACCESSORIES.

- CONNECTIONS TO EXISTING MAINS SHALL BE UNDER THE DIRECTION OF THE LOCAL MUNICIPALITY UTILITY DEPT.

- CLEANOUT SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH (EVERY 75') WITH A CLEANOUT AT THE PROPERTY LINE, EASEMENT LINE OR 5' FROM THE BUILDING. THE CONTRACTOR SHALL BE COORDINATE THE LOCATION OF THE BUILDING CLEANOUT (5' FROM THE BUILDING) & ELEVATION OF THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR.

- LIMITS OF INFILTRATION OF EXFILTRATION OR LEAKAGE FOR THE ENTIRE SYSTEM, INCLUDING SERVICES LINES, SHALL NOT EXCEED A RATE OF 0.1 GALLONS PER FOOT PER (24) HOURS FOR ALL SIZES OF PIPE THROUGHOUT THE SYSTEM. THE ALLOWABLE LIMITS OF INFILTRATION OF EXFILTRATION OF MANHOLES SHALL NOT EXCEED A RATE OF (4) BALLONS PER MANHOLE PER (24) HOURS.

- ALL SEWER MAINS & SERVICES UP TO & INCLUDING THE END OF THE SERVICE LINE SHALL BE CONSTRUCTED WITHIN A MINIMUM OF A 15' UTILITY EASEMENT, UNLESS OTHERWISE NOTED.

- THE ENTIRE SYSTEM SHALL BE CLEANED PRIOR TO LAMPING OF THE LINES. 12" SANITARY SEWER MAINS MUST BE TELEVIEWED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DEFICIENCIES OBSERVED ON THE VIDEO TAPING SHALL BE CORRECTED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.

- PROVIDE ORANGE RPM T CENTERLINE OF ROAD OF NEAREST DRIVING LANE FOR MANHOLES LOCATED IN GREEN AREAS.

## PROJECT RECORD DOCUMENTS:

- DURING THE DAILY PROGRESS OF THE PROJECT, THE CONTRACTOR SHALL RECORD ON THEIR SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION(S) OF ANY FACILITY NOT BUILT EXACTLY AS INDICATED ON THE PLANS.

- UPON COMPLETION OF ORANGE IMPROVEMENT AND BASE CONSTRUCTION AND BEFORE PLACING ASPHALT PAVEMENT THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD AS-BUILT PLANS FOR THESE SITE IMPROVEMENTS SHOWING THE LOCATIONS AND APPLICABLE GRADES OF THE ROAD CROWN OR INVERT AND EDGES AND PAVEMENT AT 50' INTERVALS, INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.

- UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORDS ONE COMPLETE SET OF ALL AS-BUILT CONTRACT DRAWINGS INCLUDING THESE DRAWINGS. IMPROVEMENT AND BASE CONSTRUCTION CHANGES AND DIMENSIONS, LOCATION AND ELEVATION OF ALL IMPROVEMENTS IN A FORMAT APPROVED BY THE CITY OF HIALEAH GARDENS PUBLIC UTILITIES/ENGINEERING DEPARTMENT.

- AS-BUILT INFORMATION OF GRAVITY SEWERS MUST CONTAIN LOCATIONS OF SERVICE LATERALS, STATIONING OF BOTH THE WYE, CLEAN-OUTS AND THE SERVICE END MUST ALSO BE INCLUDED.

- AS-BUILT INFORMATION OF WATER DISTRIBUTION SYSTEMS MUST CONTAIN LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, SERVICES AND REFERENCES. TOP OF PIPE ELEVATIONS ALONG THE WATER MAIN ARE REQUIRED AT INTERVALS OF 100 FEET MAXIMUM.

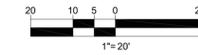
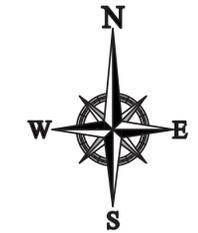
- ALL AS-BUILT INFORMATION ON ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER.

- AS-BUILT OF WATER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
  - TOP OF PIPE ELEVATIONS EVERY 100 F.
  - LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, ETC.

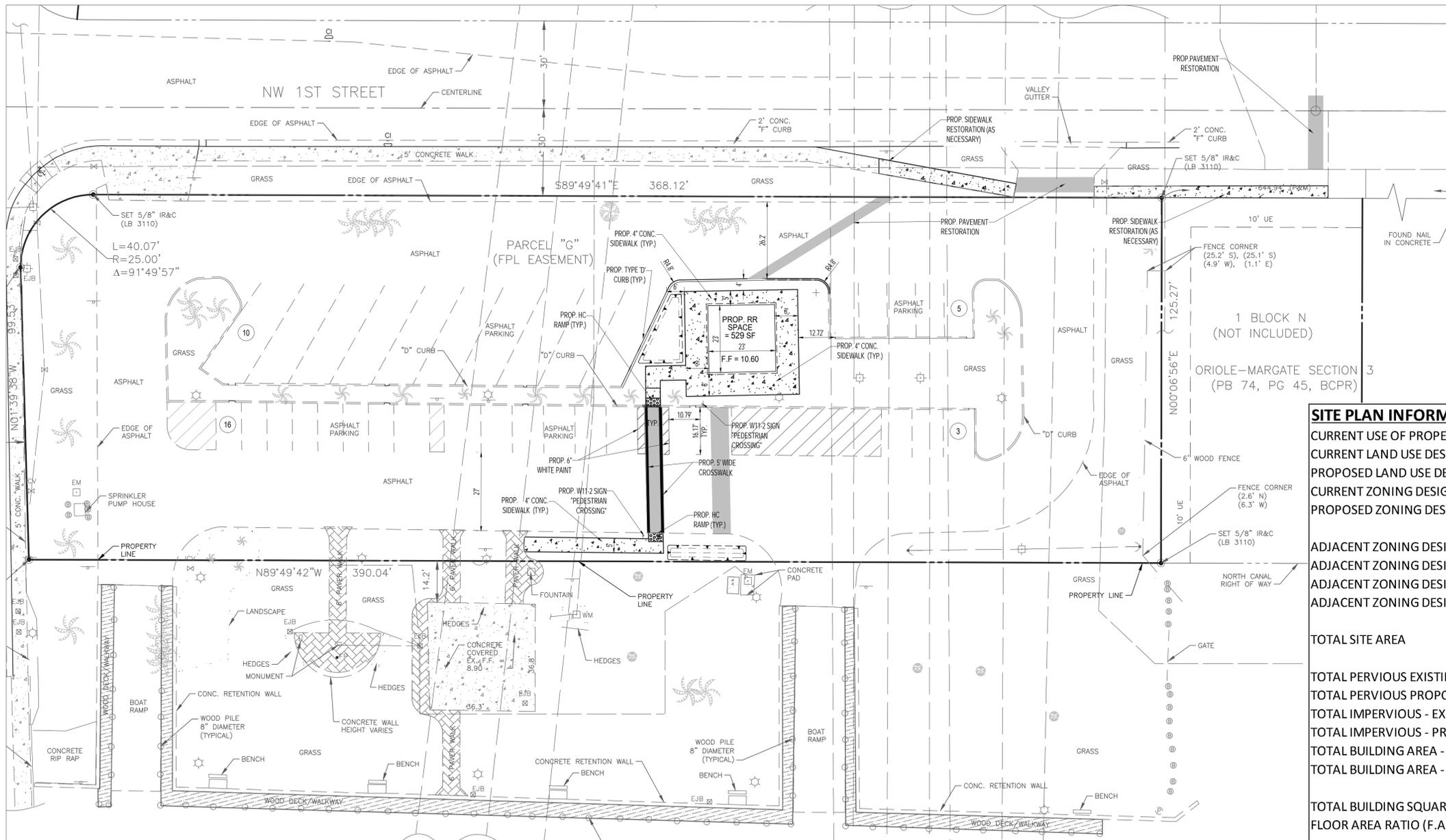
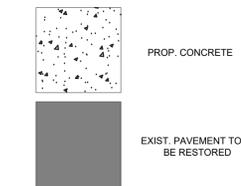
- ALL TIE-INS INTO EXISTING LINES SHALL BE AS-BUILT'ED.

- THE END S OF ALL WATER SERVICES AT THE BUILDINGS OR HOMES SHALL BE AS-BUILT'ED OR WHERE THE WATER SERVICE TERMINATES.

REVISIONS:			
REV.	DATE	COMMENT	BY
1	03/18/19	RELOCATION OF FACILITY PER MARGATE	ES



**HATCH LEGEND**



**SITE PLAN INFORMATION - DATA TABLE**

CURRENT USE OF PROPERTY:	RECREATIONAL FACILITY (MARINA PARK)
CURRENT LAND USE DESIGNATION:	P PARK
PROPOSED LAND USE DESIGNATION:	P PARK
CURRENT ZONING DESIGNATION:	S-1 RECREATIONAL DISTRICT
PROPOSED ZONING DESIGNATION:	S-1 RECREATIONAL DISTRICT
ADJACENT ZONING DESIGNATION - NORTH:	S-1 RECREATIONAL DISTRICT
ADJACENT ZONING DESIGNATION - SOUTH:	R-3 MULTIPLE FAMILY DWELLING DISTRICT
ADJACENT ZONING DESIGNATION - EAST:	R1-C ONE FAMILY DWELLING DISTRICT
ADJACENT ZONING DESIGNATION - WEST:	R3-A MULTIPLE FAMILY DWELLING DISTRICT

TOTAL SITE AREA	± 1.90 ACRES	82,893 SF
TOTAL PERVIOUS EXISTING	39,258 SF	47.4%
TOTAL PERVIOUS PROPOSED	38,126 SF	46.0%
TOTAL IMPERVIOUS - EXISTING	42,280 SF	51.0%
TOTAL IMPERVIOUS - PROPOSED	42,883 SF	51.7%
TOTAL BUILDING AREA - EXISTING	1,355 SF	1.6%
TOTAL BUILDING AREA - PROPOSED	1,884 SF	2.3%

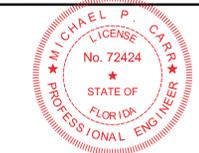
TOTAL BUILDING SQUARE FOOTAGE	1,884 SF
FLOOR AREA RATIO (F.A.R.) - 2 BLDG'S	1,884 SF / 82,893 SF = 0.023

PARKING DATA:	PERSONS	RATIO	REQUIRED	PROVIDED
EMPLOYEES	0 EA	1/2 EA	0	0
PERSONS	100 EA	1/4 EA	25	34
TOTAL PARKING PROVIDED:			25	34
TOTAL HANDICAP PARKING (32 + 2 HC SPACES):			2	2
VUA AREA - BOAT RAMPS	3,050 SF			8.8%
VUA AREA - PARKING	9,544 SF			27.5%
VUA AREA - SERVICE DRIVE	22,091 SF			63.7%
<b>TOTAL VUA AREA:</b>	<b>34,685 SF</b>			<b>100.0%</b>

**LOCATION MAP**



**LEGAL DESCRIPTION:**  
PARCEL "G" OF ORIOLE-MARGATE, SECTION 3, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 74, PAGE 45, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.



ALL ELEVATIONS ARE BASED ON  
NORTH AMERICAN VERTICAL  
DATUM OF 1988 (NAVD88)  
CONTRACTOR TO CONFIRM  
ELEVATIONS PRIOR TO  
CONSTRUCTION COMMENCEMENT

PROJECT:  
**MARINA PARK  
RESTROOM IMPROVEMENTS**

FOR  
**CITY OF MARGATE**

**PRE-FABRICATED  
BUILDING PROJECT**

7044 NW 1ST ST  
MARGATE, FL  
33063

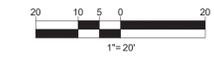
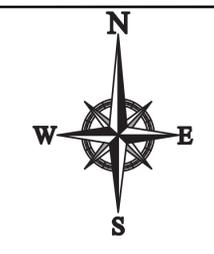
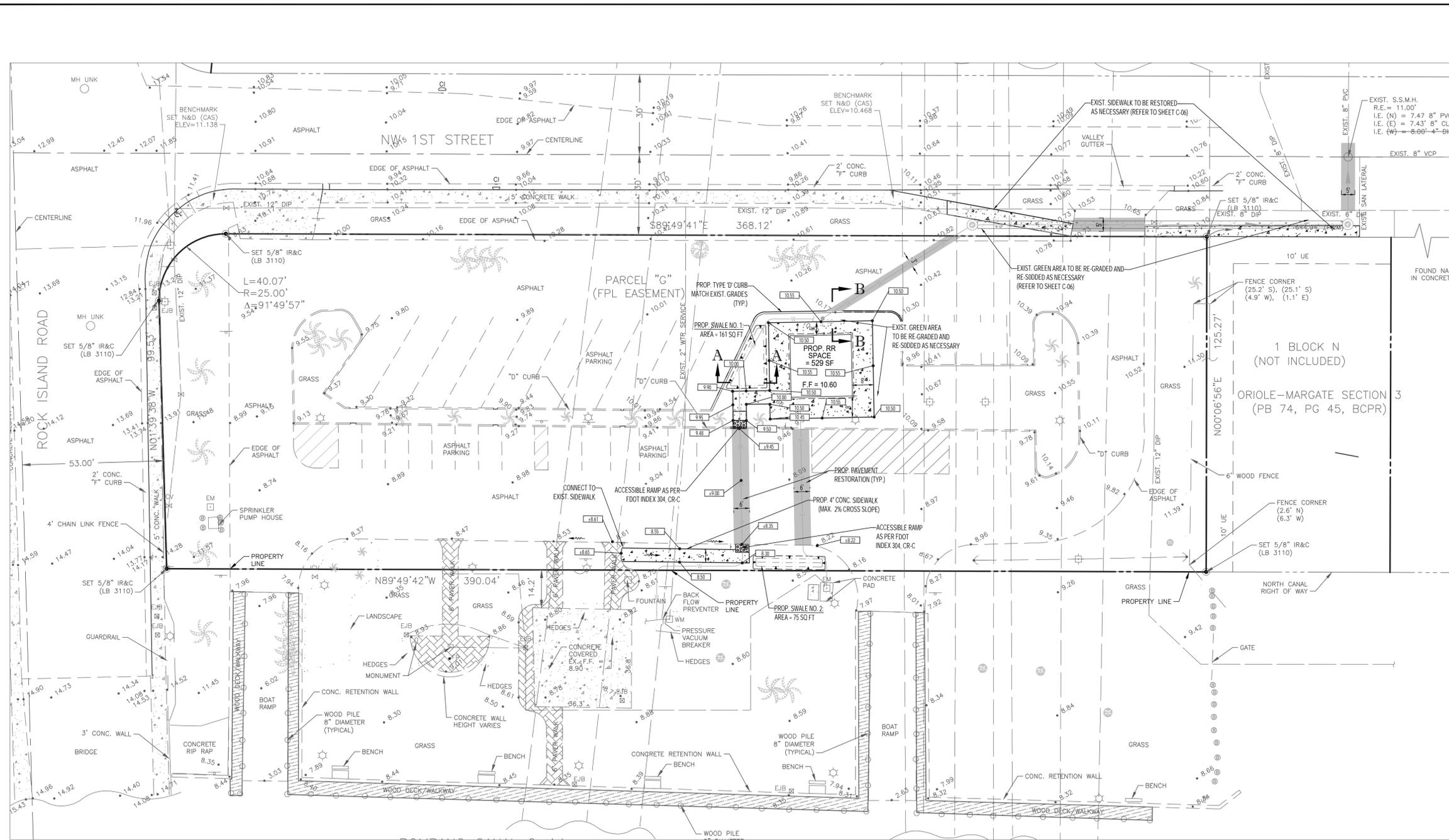
PROJECT No.:	1804101
DRAWN BY:	ES
CHECKED BY:	ES
DATE:	05-01-17
CAD I.D.:	1904104 - 04-SITE PLAN



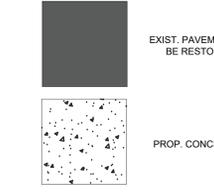
**MICHAEL P. CARR**  
PROFESSIONAL ENGINEER  
APRIL 1, 2019  
FLORIDA LICENSE No. 72424

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C-04**



**HATCH LEGEND**



**CONSTRUCTION NOTES:**

- CONTRACTOR TO SAW-CUT AT ALL LOCATIONS OF REMOVAL OF EXISTING CONC. CURB AND ASPHALT UNLESS OTHERWISE NOTED.
- CONTRACTOR TO MATCH EXIST. GRADES WHEN RESTORING CONC. CURB AND ASPHALT IN ORDER TO MEET INTENT OF EXIST. ADJACENT GRADES AND GRADE TRANSITION(S).
- ANY DEBRIS ENCOUNTERED DURING WATER MAIN AND SANITARY LATERAL TO BE DISPOSED PER LOCAL ORDINANCES.
- CONTRACTOR TO ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH CITY & COUNTY DESIGN STANDARDS.
- CONTRACTOR TO RESTORE ALL GREENLANDSCAPED AREAS TO MEET OR EXCEED EXIST. CONDITIONS. RESTORATION SHALL INCLUDE BUT NOT BE LIMITED TO MAINTAINING OF EXIST. SLOPE AND SOIL UNTIL COMPLETION AND ACCEPTANCE OF THE PROJECT.
- ALL EXISTING PAVEMENT MARKINGS AND SIGNAGE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WHERE APPLICABLE BY THE CONTRACTOR.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED AREA.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES, AND OTHER FACILITIES ADJACENT TO PROP. IMPROVEMENTS AND SHALL REPAIR ANY DAMAGES DUE TO HIS/HER CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY SUNSHINE STATE ONE CALL (1-800-432-4770) OR (811) PRIOR TO CONSTRUCTION.
- PROJECT BASED ON DESIGN SURVEY PREPARED BY STONER & ASSOCIATES.
- THE EXISTING UNDERGROUND UTILITIES SHOWN ARE PER ABOVE GROUND SURVEY DATA AND UTILITY AS-BUILT DATA. THIS INFORMATION DOES NOT WARRANT EXACT SIZE AND LOCATION OF THE UTILITIES. ALSO, THERE MAY BE ADDITIONAL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT MAY BE AFFECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION.
- REFER TO MEP PLANS FOR CONTINUATION OF WATER AND SANITARY SERVICE(S).
- ANY PROP. AND EXIST. SIDEWALKS SHOULD HAVE A MAXIMUM CROSS SLOPE OF 2.0%.
- RUNNING SLOPES (PROP. AND/OR EXIST.) SHALL NOT EXCEED 5% FOR WALKWAYS SUBJECT TO ADA TRAVEL AND ACCESSIBILITY.

PERMIT PLANS  
NOT FOR CONSTRUCTION



REV.	DATE	COMMENT	BY
1	03/18/19	RELOCATION OF FACILITY PER MARGATE	ES

PROJECT:  
**MARINA PARK RESTROOM IMPROVEMENTS**  
FOR  
**CITY OF MARGATE**  
**PRE-FABRICATED BUILDING PROJECT**  
7044 NW 1ST ST  
MARGATE, FL  
33063

PROJECT No.: 1804101  
DRAWN BY: ES  
CHECKED BY: ES  
DATE: 05-01-17  
CAD I.D.: 1904104 - 05-PGD PLAN



**MICHAEL P. CARR**  
PROFESSIONAL ENGINEER  
APRIL 1, 2019  
FLORIDA LICENSE No. 72424

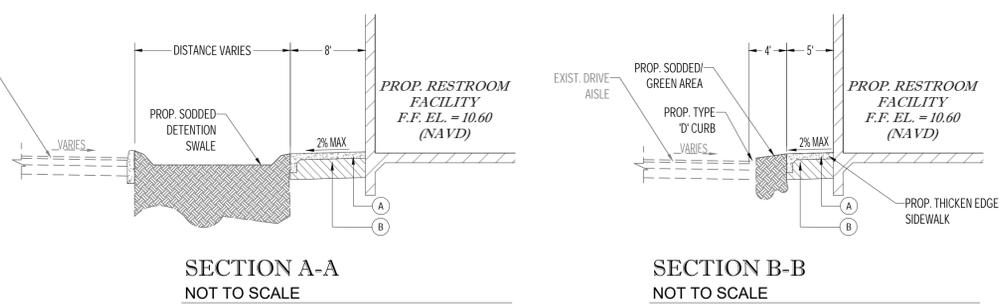
SHEET TITLE:  
**SITE PAVING & GRADING PLAN**

SHEET NUMBER:  
**1 C-05**

**KEY MAP**

**PAVEMENT LEGEND**

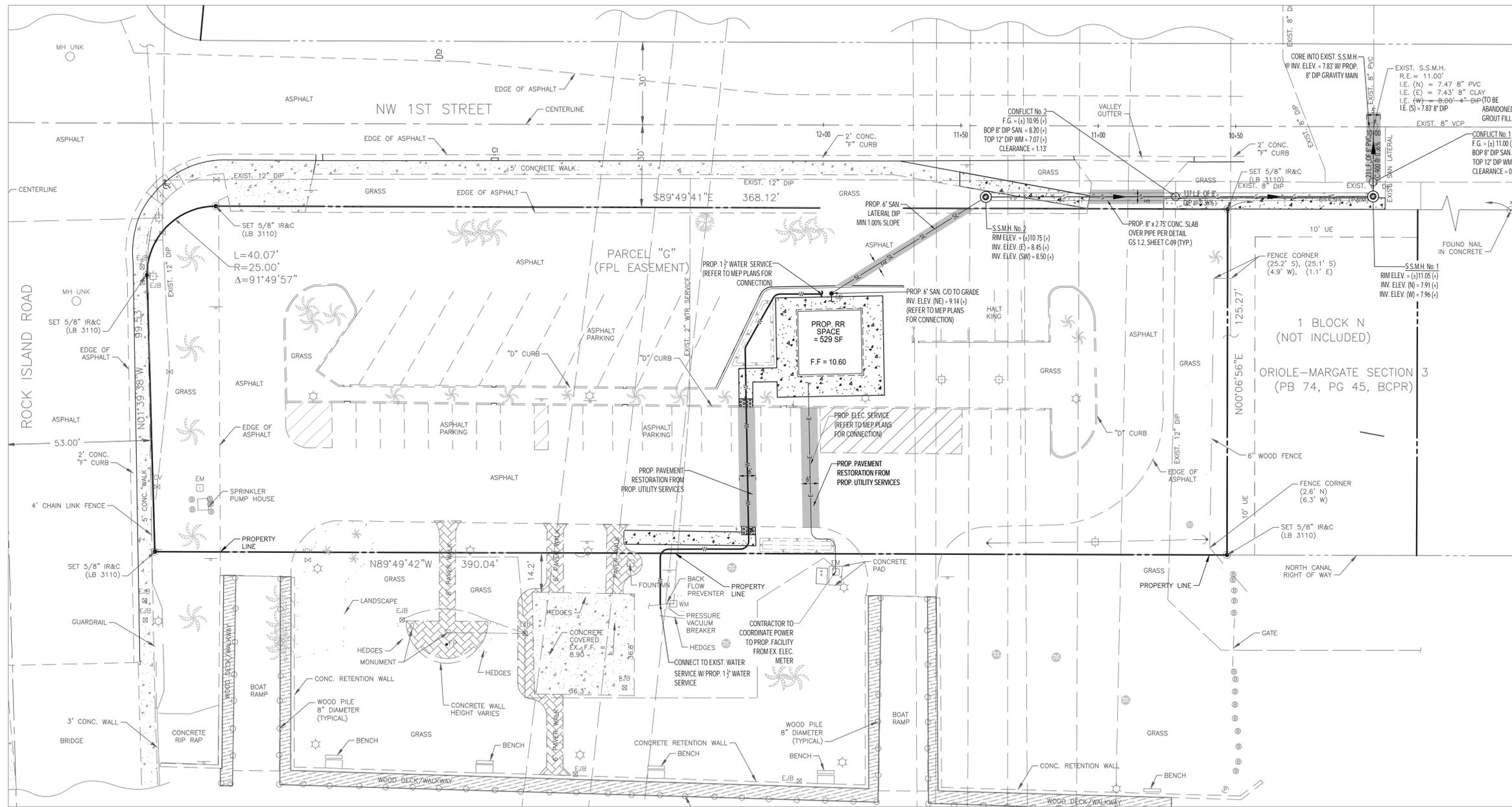
- A** CONCRETE SIDEWALK:  
4" THICK 3000 P.S.I. CONCRETE @ 28 DAYS EXCEPT IN DRIVEWAYS WHERE THICKNESS SHALL BE 6" AND 4,000 P.S.I.
- B** SUB-BASE: (CONCRETE SIDEWALK)  
12" STABILIZED SUB-BASE COMPACTED TO 98% OF MAX. DRY DENSITY PER AASHTO T-180 (MIN LBR 40).



ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) CONTRACTOR TO CONFIRM ELEVATIONS PRIOR TO CONSTRUCTION COMMENCEMENT



This form has been digitally signed and sealed by Michael Carr, PE, on the date indicated in the seal. Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



**HATCH LEGEND**

	EXIST. PAVEMENT TO BE RESTORED
	PROP. CONCRETE SLAB OVER SAN. SEWER MAIN

- NOTES:**
- CONTRACTOR TO POT HOLE CONFLICTS 1 AND 2 TO CONFIRM EXISTING CONDITIONS MEET THE INTENT OF THE DESIGN AND EXISTING INFORMATION PROVIDED ON THESE PLANS.
  - ANY AND ALL EXIST. UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED. IN SERVICE, ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY CITY OF MARGATE'S FORCES AT OWNER'S EXPENSES AS APPLICABLE.

**WATER & SEWER INSTALLATION**

- A PREFERRED HORIZONTAL DISTANCE (OUTSIDE TO OUTSIDE) OF 10 FEET OR MINIMUM OF 6 FEET SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER MAINS. THE HORIZONTAL SEPARATION CAN BE REDUCED TO A MINIMUM OF 3 FEET ONLY FOR GRAVITY SEWER PIPES WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SEWER. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
  - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
  - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
  - THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS CROSSING BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
  - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
  - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER AND SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE WATER OF THE UTILITY PIPE.
- WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS. ANY DEVIATION FROM NOTES 3, 4 AND 5 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND SEWER UTILITY.

- IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING OR THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO SUBMITTAL OF DOCUMENTATION SHOWING THAT THE PROPOSED ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION.
- GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE PVC-900 OR DUCTILE IRON PIPE THE MAXIMUM ALLOWABLE EXFILTRATION, INFILTRATION, OR LEAKAGE FOR GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR RESIDENTIAL LAND USE AND TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR NON-RESIDENTIAL LAND USE WITH NO ALLOWANCES FOR MANHOLES OR LATERALS. THE MAXIMUM ALLOWABLE EXFILTRATION, INFILTRATION, OR LEAKAGE IN GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY. THE DURATION OF ALL TESTS SHALL BE A MINIMUM OF TWO (2) HOURS. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.
- FORCE MAIN SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE EITHER DUCTILE IRON OR REINFORCED CONCRETE PRESSURE SEWER PIPES.
  - FOR DUCTILE IRON PIPE EXFILTRATION RATE SHALL NOT BE GREATER THAN THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWA) C600-82 AT A TEST PRESSURE OF 100 PSI.
  - FOR REINFORCED CONCRETE PRESSURE SANITARY SEWER EXFILTRATION RATE SHALL NOT BE GREATER THAN HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI.
- A NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL NUMBER OF OPERATING HOURS OF THE STATION.

**WATER DISTRIBUTION AND/OR SANITARY SEWER FORCE MAIN SYSTEM**

- CONTRACTOR SHALL FOLLOW GUIDELINES AND PROCEDURES OUTLINED BY UTILITY PROVIDER, AND HAVE UTILITY PROVIDER'S MANUAL ON-SITE AT ALL TIMES. THIS POLICY MANUAL SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS AS IT PERTAINS TO APPROVED MATERIALS, INSTALLATION METHODS, INSPECTION, NOTIFICATION AND AS-BUILT/PROJECT CLOSEOUT REQUIREMENTS. NOTE - PROVIDER IS THE CITY OF MARGATE.

**SEPARATION OF WATER AND SEWER MAINS**

- CONTRACTOR SHALL FOLLOW GUIDELINES AND PROCEDURES OUTLINED BY UTILITY PROVIDER, AND HAVE UTILITY PROVIDER'S MANUAL ON-SITE AT ALL TIMES. THIS POLICY MANUAL SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS AS IT PERTAINS TO APPROVED MATERIALS, INSTALLATION METHODS, INSPECTION, NOTIFICATION AND AS-BUILT/PROJECT CLOSEOUT REQUIREMENTS. NOTE - PROVIDER IS THE CITY OF MARGATE.



**UTILITY LEGEND**  
(NOT PART OF MOWASO NOTES NOR APPROVAL)

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
S	SANITARY SEWER LATERAL	S
W	UNDERGROUND WATER LINE	W
E	UNDERGROUND ELECTRIC LINE	E
G	UNDERGROUND GAS LINE	G
OH	OVERHEAD WIRE	OH
T	UNDERGROUND TELEPHONE LINE	T
C	UNDERGROUND CABLE LINE	C
SS	STORM SEWER	SS
S	SANITARY SEWER MAIN	S
+	HYDRANT	+
SM	SANITARY MANHOLE	SM
DM	STORM MANHOLE	DM
CB	CATCH BASIN	CB
YI	YARD INLET	YI
X	WATER VALVE	X
Z	AIR RELEASE VALVE	Z
ZP	BACKFLOW PREVENTER	ZP
EM	WATER METER	EM
O	CLEAN OUT	O

PERMIT PLANS  
NOT FOR CONSTRUCTION



**REVISIONS:**

REV.	DATE	COMMENT	BY
1	03/18/19	RELOCATION OF FACILITY PER MARGATE	ES

PROJECT:  
**MARINA PARK RESTROOM IMPROVEMENTS**

FOR  
**CITY OF MARGATE**

**PRE-FABRICATED BUILDING PROJECT**

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33063

PROJECT No.:	1804101
DRAWN BY:	ES
CHECKED BY:	ES
DATE:	05-01-17
CAD I.D.:	1902104 - 06-WSU



**MICHAEL P. CARR**

PROFESSIONAL ENGINEER  
APRIL 1, 2019  
FLORIDA LICENSE No. 72424

SHEET TITLE:  
**WATER, SEWER & UTILITY PLAN**

SHEET NUMBER:  
**C-06**

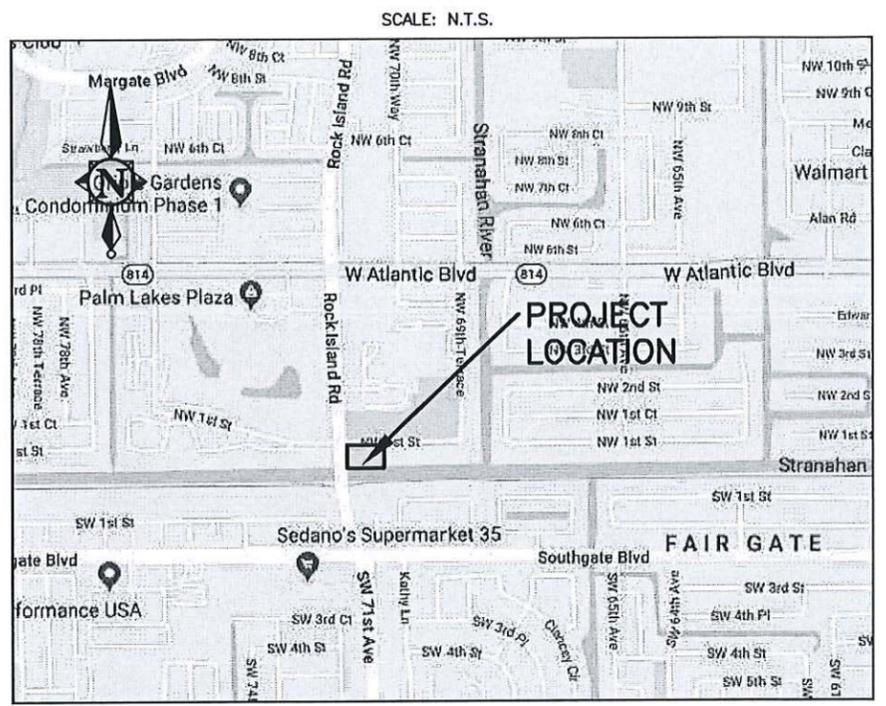
**GENERAL ABBREVIATIONS**

ABRV	DESCRIPTION	ABRV	DESCRIPTION
A/C	AIR CONDITION PAD	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	ORB	OFFICIAL RECORDS BOOK
ALUM	ALUMINUM	O / S	OFF SET
APPROX	APPROXIMATELY	(P)	PLAT
B.C.R.	BROWARD COUNTY RECORDS	P.B.	PLAT BOOK
B/L	BASELINE	P.B.C.R.	PALM BEACH COUNTY RECORDS
BOTT	BOTTOM	PC	POINT OF CURVE
(C)	CALCULATED	PCP	PERMANENT CONTROL POINT
CIP	CAST IRON PIPE	PGS	PAGES
CL	CENTER LINE	PHDPE	PERFORATED HIGH DENSITY POLYETHYLENE
CONC	CONCRETE	PI	POINT OF INTERSECTION
D	DEED/DESCRIPTION	PK&D	PK NAIL AND DISK
D.E.	DRAINAGE EASEMENT	PRC	POINT OF REVERSE CURVE
DIA	DIAMETER	PROP	PROPOSED
DIP	DUCTILE IRON PIPE	PRM	PERMANENT REFERENCE MARKER
ELEV	ELEVATION	PSM	PROFESSIONAL SURVEYOR AND MAPPER
EW	EDGE OF WATER	PT	POINT OF TANGENCY
EP	EDGE OF PAVEMENT	PVC	POLY VINYL CHLORIDE
EXIST	EXISTING	R	RADIUS
FF	FINISHED FLOOR	RCP	REINFORCED CONCRETE PIPE
FND	FOUND	R.E.	RIM ELEVATION
FPL	FLORIDA POWER & LIGHT	RGE	RANGE
GFF	GARAGE FINISHED FLOOR	R/W	RIGHT-OF-WAY LINE
HDPE	HIGH DENSITY POLYETHYLENE	SEC	SECTION
I.E.	INVERT ELEVATION	TOB	TOP OF BANK
IR	IRON ROD	TOE	TOE OF SLOPE
IR&C	IRON ROD AND CAP	TOP	TOP OF PIPE
IP	IRON PIPE	TWP	TOWNSHIP
L	ARC LENGTH	TYP	TYPICAL
LB	LICENSED BUSINESS	U.E.	UTILITY EASEMENT
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
(M)	MEASURED	Δ	DELTA

**GENERAL SYMBOL LEGEND**

SYM.	DESCRIPTION	SYM.	DESCRIPTION
☒	AERIAL TARGET	GM	GAS METER
⊕	BENCH MARK	GMH	GAS MANHOLE
□	CONCRETE MONUMENT	GSV	GAS VALVE
○	IRON PIPE	MW	MONITORING WELL
●	IRON ROD	VEP	VAPOR EXTRACTION POINT
⊙	NAIL & DISC	GSP	FUEL PUMP DISPENSER
△	TRAVERSE POINT	OGASM	GAS MARKER
⊙	IRON ROD AND CAP	VTP	VENT PIPE
⊗	X CUT	VGB	GAS VALVE BOX
●	DRILL HOLE	FCAP	FUEL FILL CAP
⌒	11.25' PIPE BEND	PJB	TELEPHONE JUNCTION BOX
⌒	22.5' PIPE BEND	PR	TELEPHONE RISER
⌒	45' PIPE BEND	TMH	TELEPHONE MANHOLE
⌒	90' PIPE BEND	FIBO	FIBER OPTIC CABLE MARKER
⊕	CROSS PIPE FITTING	OCATV	CATV RISER
⊕	TEE PIPE FITTING	TM	TELEPHONE MARKER
⊕	WYE PIPE FITTING	N	BACKFLOW PREVENTOR
⊕	REDUCER PIPE FITTING	BO	BLOW OFF
EMH	ELECTRIC MANHOLE	ARV	AIR RELEASE VALVE
EMTR	ELECTRIC MOTOR	SP	SAMPLE POINT
⊕	ELECTRICAL OUTLET	FH	FIRE HYDRANT
⊕	GROUND LIGHT	SIA	SIAMESE CONNECTION
EJB	ELECTRIC JUNCTION BOX	WM	WATER METER
EM	ELECTRIC METER	WV	WATER VALVE
LPB	LIGHT POLE BOX	T	WATER SPIGOT
TCB	TRAFFIC CONTROL BOX	ICV	IRRIGATION CONTROL VALVE
ER	ELECTRICAL RISER	IM	IRRIGATION METER
FPL	TRANSFORMER	SPR	SPRINKLER
CWP	CROSSWALK POST	12	CITRUS TREE (TRC)
←	GUY WIRE	12	CYPRESS TREE (TRCY)
⊕	GUY POLE	12	GENERIC TREE (TRG)
⊕	LIGHT POLE	12	OAK TREE (TRO)
⊕	CONCRETE UTILITY POLE	12	PINE TREE (TRP)
⊕	METAL UTILITY POLE	12	PALM TREE (TRPL)
⊕	WOOD UTILITY POLE	12	MANGROVE (TRMG)
MA	MAST ARM POLE	GPR	GROUND PENETRATING RADAR
CO	CLEAN OUT	BH	BORING HOLE
SMH	SANITARY MANHOLE	M	METER (UNKNOWN)
SO	STUB OUT	B	BOLLARD
SP	STAND PIPE	C	COLUMN
SV	SEWER VALVE	MB	MAIL BOX
GRND	GRINDER	FP	FLAG POLE
CB	CATCH BASIN	H	HANDICAP MARKER
SDMH	STORM DRAIN MANHOLE	MH	MANHOLE (UNKNOWN)
YD	YARD DRAIN	PM	PARKING METER
DR	DRAIN	P	POST
CURB	CURB INLET	UB	UTILITY BOX
CURB	CURB INLET W/ MANHOLE	UR	UTILITY RISER
CURB	CURB INLET W/ GRATE	CH	CEMETERY HEAD STONE
CI	CI W/ MANHOLE & GRATE	HH	HAND HOLE
		G	GATE POST
		TC	TRASH CAN
		NPB	NEWSPAPER BOX
		BR	BIKE RACK

**LOCATION MAP**



**SURVEYOR'S NOTES:**

- REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- NO SEARCH OF THE PUBLIC RECORDS WAS UNDERTAKEN FOR EASEMENTS, RIGHTS OF WAYS, RESTRICTIONS OR OTHER RECORDED OR EVIDENCE OF UNRECORDED DOCUMENTS BY THIS FIRM, NOR WERE ANY SUCH RECORDS SUPPLIED.
- BEARINGS SHOWN HEREON ARE RELATIVE TO THE SOUTH RIGHT OF WAY LINE OF NW 1ST STREET AS SHOWN ON ORIOLE-MARGATE SECTION 3, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 74, PAGE 45, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) AND ARE BASED ON BROWARD COUNTY PUBLISHED BENCHMARK #2094 (ELEV=14.750)
- THERE MAY BE UNDERGROUND 'FOOTINGS', DRAINAGE, UTILITIES, ETC. NOT SHOWN OR INDICATED HEREON.
- THE ACCURACY OF THIS SURVEY IS PREMISED ON THE EXPECTED USE OF THE SURVEY. THE EXPECTED USE/PREMISE OF THIS SURVEY IS THE DESIGN OF MINOR IMPROVEMENTS AND PERMITTING THROUGH VARIOUS AGENCIES. A TRIMBLE 5800 GNSS INSTRUMENT WITH TRIMBLE TSC-3 DATA COLLECTION WAS UTILIZED TO ESTABLISH HORIZONTAL SURVEY CONTROL AND LOCATE MISC. FEATURES IN AREAS REQUESTED. A TOPCON ES-102 INSTRUMENT WITH RANGER (TDS) DATA COLLECTION WAS UTILIZED TO COLLECT DATA IN THE HORIZONTAL PLANE. REDUNDANT MEASUREMENTS WERE TAKEN AT FOUND BLOCK CONTROL AND SUBJECT BOUNDARY CORNERS AND WERE FOUND TO BE WITHIN ACCEPTABLE TOLERANCES.
- DIGITAL DATA PROVIDED IS INTENDED TO BE VIEWED AT A SCALE OF 1" = 40' OR SMALLER.
- ALL DISTANCES SHOWN HEREON ARE IN ACCORD WITH THE UNITED STATES STANDARD USING FEET AND DECIMALS THEREOF.

DESCRIPTION: (OFFICIAL RECORDS BOOK 5149, PAGE 383, BROWARD COUNTY PUBLIC RECORDS)

PARCEL "G" OF ORIOLE-MARGATE, SECTION 3, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 74, PAGE 45, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

**SURVEYORS CERTIFICATE:**

I HEREBY CERTIFY THAT THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS APPLICABLE SECTIONS OF THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, SUBJECT TO QUALIFICATIONS NOTED HEREON.

FOR THE FIRM BY: ROBERT D. KEENER  
 PROFESSIONAL SURVEYOR AND MAPPER  
 FLORIDA REGISTRATION NO. 4846

FIELD DATE: 09/14/18

SIGNATURE DATE: 9/18/18

**STANDARD LINETYPES**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	BASELINE	--- BTC ---	BURIED TRAFFIC CONTROL
---	PARCEL LINE	--- <C> ---	COMMUNICATIONS DUCTBANK CL
---	BOUNDARY LINE	--- <F> ---	FIBER OPTIC DUCTBANK CL
---	EASEMENT LINE	--- OHW ---	OVERHEAD WIRE
---	LOT LINE	--- BE ---	BURIED ELECTRIC
---	RIGHT OF WAY LINE	--- SL ---	BURIED STREET LIGHTING
---	CENTER LINE	--- <E> ---	ELECTRICAL DUCTBANK CENTER LINE
---	SECTION LINE	--- FM ---	FORCE MAIN
---	LANDSCAPE LINE	--- SAN ---	SANITARY SEWER
---	EDGE OF WATER	--- SNS ---	SANITARY SERVICE
---	RR TRACKS	--- VS ---	VACUUM SEWER
---	PLAT LINE	--- SD ---	STORM DRAIN
---	CURB & GUTTER	--- FIRE ---	FIRE LINE
---	FENCE LINE	--- RWL ---	RAW WATER LINE
---	GUARD RAIL	--- WL ---	WATER LINE MAIN
---	UNKNOWN UTILITY	--- WLC ---	WATER LINE CHILLED
---	ABANDONED UTILITY	--- WS ---	WATER SERVICE
---	NON FIELD VERIFIED UTILITY	--- IRR ---	IRRIGATION LINE
---	BURIED CABLE TV	--- GAS ---	GAS LINE ABOVE GROUND
---	BURIED COMMUNICATIONS LINE	--- BG ---	BURIED GAS LINE
---	FIBER OPTIC CABLE	--- GS ---	BURIED GAS SERVICE LINE
---	BURIED TELEPHONE	--- FUEL ---	FUEL LINE

PREPARED FOR  
**STONE CONCEPT MIAMI, INC**

**CRAIG A. SMITH & ASSOCIATES**  
 CONSULTING ENGINEERS-PLANNERS-SURVEYORS  
 7777 GLADES ROAD, SUITE 410  
 BOCA RATON, FLORIDA 33434  
 (561) 314-4445  
 CERTIFICATE NO. LB0003110

**MAP OF  
 BOUNDARY AND TOPOGRAPHIC  
 SURVEY**

**VETERANS MEMORIAL PARK  
 MARGATE, FLORIDA**

FILE NAME: 01-1984-V-01-SRVY.dwg  
 LAST SAVED: 09/18/18 - 9:37am  
 CAS PROJECT NUMBER  
**18-1984S**

SHEET  
**V-01**  
 OF  
 02

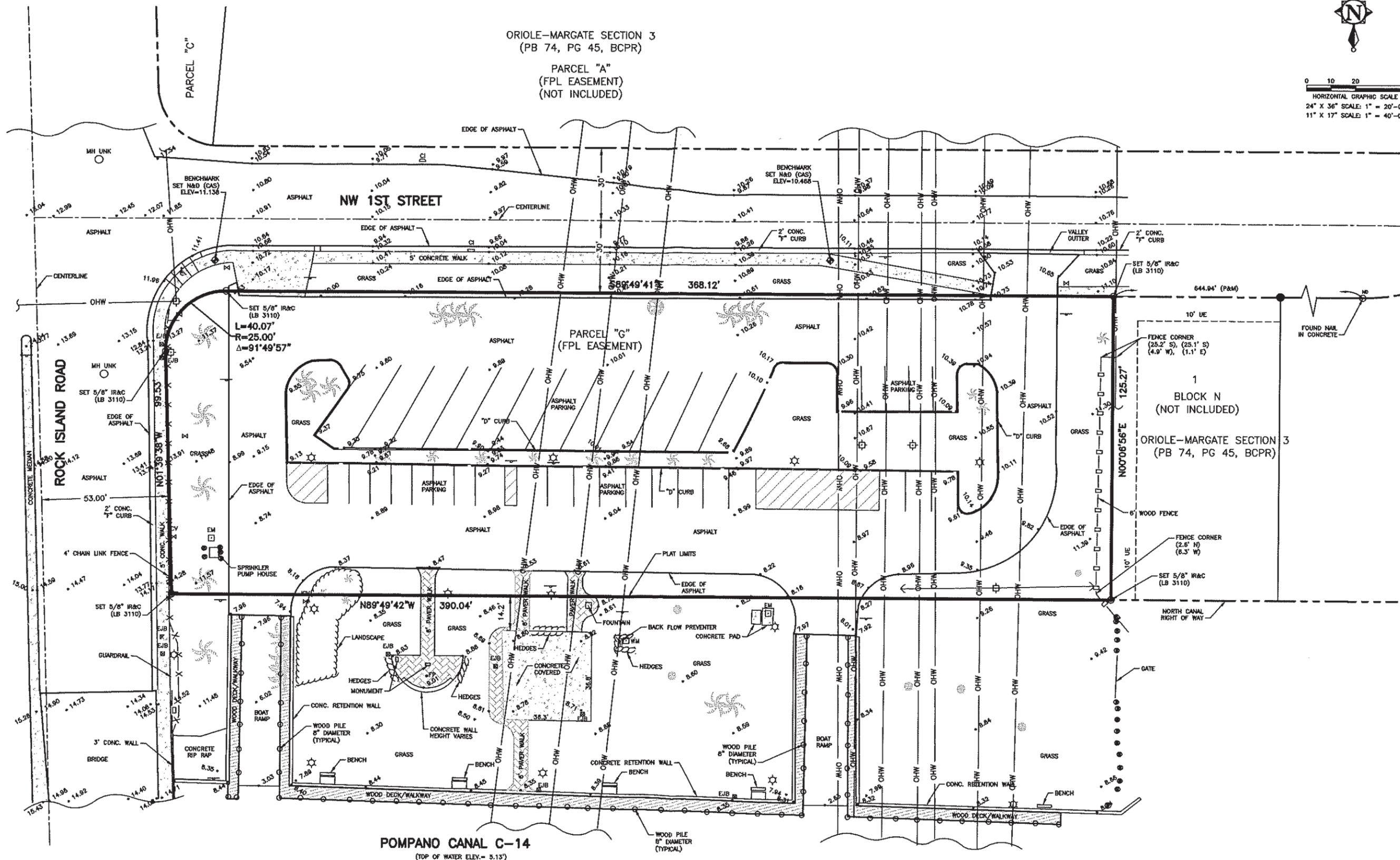
NO.	DATE	FB/PG	DWN	REVISION	CKD
2	09/17/18	1901/77	SEE	ADD ELEVATIONS	RDK
1	03/28/18	1901/39	SEE	MAP OF BOUNDARY AND SURVEY	RDK



0 10 20 40  
 HORIZONTAL GRAPHIC SCALE  
 24" X 36" SCALE: 1" = 20'-0"  
 11" X 17" SCALE: 1" = 40'-0"

ORIOLE-MARGATE SECTION 3  
 (PB 74, PG 45, BCPR)

PARCEL "A"  
 (FPL EASEMENT)  
 (NOT INCLUDED)



POMPANO CANAL C-14  
 (TOP OF WATER ELEV. = 5.13')

NO.	DATE	FB/PG	DWN	REVISION	CKD
2	06/17/18	1901/77	SEE	ADD ELEVATIONS	RDK
1	03/26/18	1001/39	SEE	MAP OF BOUNDARY AND SURVEY	RDK

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MAP OF  
 BOUNDARY AND TOPOGRAPHIC  
 SURVEY

VETERANS MEMORIAL PARK  
 MARGATE, FLORIDA

FILE NAME: 01-1984-V-01-SRVY.dwg  
 LAST SAVED: 08/18/18 - 8:37am  
 CAS PROJECT NUMBER  
**18-1984S**

SHEET  
**V-02**  
 OF  
 02