

CITY OF MIAMI BEACH GENERAL NOTES:

- FOR A COMPLETE LIST OF GENERAL NOTES, REFER TO CITY OF MIAMI BEACH PUBLIC WORKS MANUAL.
- FOR SPECIFICATIONS, PLEASE REFER TO THE CITY OF MIAMI BEACH PUBLIC WORKS MANUAL.
- ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT.
- DUE TO SOIL CONDITIONS, HIGH WATER TABLE AND PROTECTION OF ROADWAY, UTILITIES AND EXISTING LANDSCAPING, SHORING WILL BE REQUIRED FOR TRENCH AND STRUCTURE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL AT THE PRECONSTRUCTION MEETING. THE COST OF SHORING WILL BE INCLUDED IN THE COSTS OF STRUCTURE AND PIPES. DEWATERING MAY BE REQUIRED AND SHALL BE INCLUDED IN THE COSTS OF STRUCTURES AND PIPES.
- PROVIDE RESTRAINING BY THE USE OF FIELD LOCK GASKET ON TYTON JOINT PIPE AND AS MANUFACTURED BY U.S. PIPE OR EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED WATER SERVICE DURING THE CONSTRUCTION OF THE TIE-IN CONNECTION OF ALL PROPOSED WATER SYSTEMS TO ANY EXISTING WATER SERVICE LINES. ABANDONMENT SHALL NOT OCCUR UNTIL THE PROPOSED WORK HAS BEEN APPROVED AND ACCEPTED FOR OPERATION BY THE ENGINEER OF RECORD AND THE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT, WATER DIVISION. CONTRACTOR SHALL REQUEST FROM CMB 48 HOURS PRIOR FOR WATER MAIN SHUTDOWN.
- ALL WATER METER BOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH CITY ISSUED WATER METER BOXES AND PAID FOR BY CONTRACTOR.
- ALL PROPOSED WATER METERS SHALL BE A MINIMUM OF A 2-INCH SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACTUAL NUMBER OF EXISTING WATER SERVICES TO BE CONNECTED TO THE PROPOSED WATER MAIN.
- ALL DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C 800 LATEST REVISIONS WITH A DETECTOR TAPE. DETECTOR TAPE SHALL BE 3" WIDE BLUE TAPE FOR WATER MAIN WITH A METALLIC FOIL CORE LAMINATED BETWEEN TWO LAYERS OF PLASTIC FILM. THE WORDS "CAUTION WATER LINE BURIED BELOW" ON THE UPPER SIDE OF THE PIPE SHALL BE PRINTED AT 30" INTERVALS ALONG THE TAPE. TAPE SHALL BE PLACED 18" BELOW GRADE ABOVE ALL WATER MAINS AND SERVICES OR AS RECOMMENDED BY MANUFACTURER NON-METALLIC TAPE SHALL BE USED ABOVE DUCTILE IRON PIPE.
- CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH HRS (DEPT. OF HEALTH) THE WATER SAMPLING AND BACTERIOLOGICAL TESTS AND FINAL CERTIFICATION FROM HRS.
- TAPPING SLEEVE VALVE TO BE PRESSURE TESTED AT 125 PSI FOR TWO (2) HOURS BEFORE TAPPING.
- THRUST BLOCK NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE MEGALUGS OR CLASS 316 STAINLESS STEEL RESTRAINING RODS.
- CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING CLAY PIPING.
- EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE UNTIL THE NEW MAIN IS PLACED IN SERVICE. ONCE THE NEW MAIN IS IN SERVICE, THE OLD HYDRANT SHALL BE COVERED AND TAGGED WITH A SIGN INDICATING "OUT OF SERVICE" UNTIL IT IS REMOVED BY THE CONTRACTOR.
- NPDES BMP FOR SEDIMENTATION AND EROSION WORK MUST BE STRICTLY FOLLOWED DURING AND AFTER CONSTRUCTION.
- PIPES SHALL BE INSTALLED IN THE DRY.
- ALL D.I. PIPE SHALL BE THICKNESS CLASS 52 AND SHALL BE POLYWRAPPED AS PER W57.
- ALL RELATED HARDWARE FOR RESTRAINING RODS TO BE STAINLESS STEEL CLASS 316.
- A CONCRETE SLAB SHALL BE INSTALLED OVER ANY PIPE INSTALLED WITH LESS THAN 30" OF COVER AS PER STANDARD DETAIL SES1.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE PROJECT AREA BEFORE THE START OF CONSTRUCTION. SEE THE UTILITY CONTACT INFORMATION TABLE FOR CONTACT NUMBERS.
- ANY DAMAGED PUBLIC OR PRIVATE PROPERTY BY THE CONTRACTOR SHALL BE RESTORED TO PREEXISTING CONDITIONS OR BETTER AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS LINES.
- ERECTOR OR INSTALLATION OF APPROPRIATE SAFETY AND WARNING DEVICES SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION. SAID DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "MANUAL OF TRAFFIC CONTROL AND SAFETY PRACTICES" AND THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- ALL EXISTING UTILITIES, MANHOLE COVERS, ELECTRICAL BOXES, VALVE BOXES, METER BOXES, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REPLACE ALL UTILITY BOXES/COVERS DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOTE THE CONDITION OF WATER METER BOXES BEFORE STARTING WORK. IF EXISTING WATER METER BOXES ARE DAMAGED, CONTACT THE CITY OF MIAMI BEACH FOR REPLACEMENT.
- THE COLOR OF DETECTABLE WARNINGS ON CONCRETE OF COLORS OTHER THAN MIAMI BEACH RED, COORDINATE WITH THE PUBLIC WORKS DEPARTMENT FOR APPROPRIATE COLOR AND CONTRAST.
- MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT WITHOUT JOGS OR OFFSETS.
- INCORRECTLY PLACED (THERMOPLASTIC OR) PAINT MARKINGS OVER ASPHALT WILL BE REMOVED BY MILLING AND REPLACING THE ASPHALT PAVEMENT A MINIMUM WIDTH 18 IN. AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.

GENERAL SITE NOTES:

- THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED TO THE OWNER AND TO THE ACCURACY OF ANY AVAILABLE INFORMATION WHICH WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MAKE ADDITIONAL TOPOGRAPHIC SURVEYS HE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.
- THE CONTRACTOR SHALL, WHEN THEY DEEM NECESSARY, PROVIDE WRITTEN REQUESTS FOR INTERPRETATION (RFIS) TO THE OWNER AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITE WORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF TWO WORK DAYS OR ADDITIONAL REASONABLE TIME FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE WORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
- INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO CONSTRUCTION.
- THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE AND UTILITY STRUCTURES AND MANUFACTURED PRODUCTS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH CONSTRUCTION.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC MEASURES (INCLUDING DESIGN AND PERMITTING) AS REQUIRED BY THE LOCAL, COUNTY, OR STATE AGENCY HAVING JURISDICTION.
- THE CONTRACTOR IS REQUIRED TO KEEP DETAILED RECORDS OF THE CONSTRUCTION COMPLETED. SPECIFICALLY, ALL UNDERGROUND STRUCTURES, DRAINAGE, WATER, SANITARY, GAS, ELECTRIC, COMMUNICATIONS PIPING, CONDUIT OR APPURTENANCES AND ACCESSORIES AND ALL ABOVE GROUND FEATURES INCLUDING, BUT NOT LIMITED TO, FIRE HYDRANTS, WATER VALVES, DRAINAGE AND SEWER CLEANOUTS, LIGHT POLES AND SIGNS SHALL BE RECORDED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE THAT THE WORK IS PERFORMED. ELEVATIONS OF TOP OF WATER PIPING SHALL BE RECORDED AT ALL BENDS, TEES, AND AT ALL STORM DRAINAGE AND SANITARY SEWER CROSSINGS. SANITARY SEWER TOP OR BOTTOM OF PIPE ELEVATIONS SHALL BE RECORDED AT ALL CROSSINGS WITH WATER AND STORM DRAINAGE PIPING. FINISHED GRADE ELEVATIONS AT ALL WATER VALVES, FIRE HYDRANTS, SANITARY MANHOLES, DRAINAGE STRUCTURES AND CLEANOUT LOCATIONS WILL BE RECORDED. CURB AND PAVEMENT FINISHED GRADE ELEVATIONS AT ALL HIGH AND LOW POINTS, ALONG SWALES, CENTERLINES OF ROADS OR DRIVE AISLES, AND IN PARKING AREAS, SHALL BE RECORDED. AS-BUILT SURVEYS OF THESE ITEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD WITHIN 30 DAYS OF CONSTRUCTION COMPLETION AND PRIOR TO FINAL PAYMENT BY THE OWNER. THE ENGINEER OF RECORD RESERVES THE RIGHT TO REVIEW THE AS-BUILT SURVEYS AND REQUIRE THE COMPLETED WORK CORRECTED, WHERE DEFICIENCIES WITH RESPECT TO THE CONSTRUCTION DRAWINGS AND THE LOCAL, COUNTY AND STATE STANDARDS ARE NOT ADHERED TO BY THE CONTRACTORS WORK.

GENERAL NOTES AND SPECIFICATIONS

I. APPLICABLE CODES:

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D '88), UNLESS OTHERWISE NOTED.
- EXISTING TOPOGRAPHIC AND CADASTRAL INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON ALTA/ACSM LAND TITLE SURVEY PREPARED BY SCHWEBKE-SHISKIN, AND ASSOCIATES, INC. LAST UPDATED XXXX XX, XXXX.

II. PRECONSTRUCTION RESPONSIBILITIES:

- THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
- UPON THE RECEIPT OF THE "NOTICE TO PROCEED" THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES ON-SITE AND OFF-SITE.
- THE CONTRACTORS SHALL COORDINATE WITH UTILITIES TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.
- THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO BE SECURED PRIOR TO CONSTRUCTION.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE AT THE TIME PLANS WERE PREPARED BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE PLANS FOR ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS OR NOT) AFFECTING THE WORK.
- IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.
- ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

III. INSPECTION AND TESTING:

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS WELL AS ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE OF, AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS, THE FOLLOWING:
 - PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM.
 - EXFILTRATION TEST OF THE SANITARY SEWAGE SYSTEM.
 - FINAL INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

IV. SHOP DRAWINGS:

- PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: WATER MAIN FITTINGS, VALVES, PIPES, CATCH BASIN, STORM MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC, AND TRAFFIC PAINT. IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES:

- TEMPORARY FACILITIES:
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.
 - THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
- TRAFFIC REGULATION:
 - THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAGPERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH THE M.U.T.C.D. AND CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT.
 - 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 MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.

VI. PROJECT CLOSE-OUT:

- CLEANING UP:
 - DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 - THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

- THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.
- WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

C. PROJECT RECORD DOCUMENTS:

- DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
- UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMESTONE BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT OR CONCRETE PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 25 FEET INTERVALS.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
- "AS-BUILT" INFORMATION ON WATER MAINS AND GRAVITY SEWERS MUST BE PROVIDED IN ACCORDANCE WITH THE MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARD AS-BUILT REQUIREMENTS.
- ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

VII. EARTHWORK AND COMPACTION:

- EARTHWORK AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION C3, "REQUIREMENTS FOR FILLING LAND IN UNINCORPORATED DADE COUNTY", OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.

VIII. STORM DRAINAGE:

- GENERAL:
 - CATCH BASIN GRADES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.
 - DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
 - ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF MIAMI BEACH PUBLIC WORKS MANUAL, PART II, SECTION 8, AND ALL APPLICABLE CITY OF MIAMI BEACH PUBLIC WORKS MANUAL STANDARD DETAILS.
- THE CONTRACTOR SHALL PROTECT EXISTING AND COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED. (SEE STORMWATER POLLUTION PREVENTION PLAN)

IX. PAVING:

- GENERAL:
 - ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMESTONE BASE.
 - ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 - ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
 - PAVEMENT REPAIRS SHALL BE AS PER STANDARD DETAIL R 21.1 OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.

B. MATERIALS AND INSTALLATION:

- ALL WORKS CONFORM TO THE APPLICABLE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT SPECIFICATIONS.
- STREET NAME SIGNS SHALL BE ERRECTED PER MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS SECTION 168.
- SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY (AAASHTO T-180-74), LR 40.
- BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS.
- BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AAASHTO T-180-74, LR 100.

X. TESTING:

- DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA. RESULTS OF DENSITY TESTS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AND PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW.

XI. WATER DISTRIBUTION SYSTEM:

- GENERAL:
 - ALL MATERIALS, INSTALLATION AND TESTING UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
 - ANY EXISTING PUBLIC WATER SERVICE WITHIN THE PROPERTY IN CONFLICT WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE.

B. MATERIALS INSTALLATION AND TESTING:

- FOLLOW CITY OF MIAMI BEACH PUBLIC WORKS MANUAL, PART II, SECTION 6.

C. FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED:

- EXISTING 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 M-DWASD FORCES AT OWNER'S EXPENSE AS APPLICABLE.
- ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

XII. SANITARY SEWER COLLECTION SYSTEM:

- GENERAL:
 - ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI BEACH PUBLIC WORKS DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
 - MANHOLE RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.
 - DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
 - ANY EXISTING PUBLIC SEWER SERVICE WITHIN THE PROPERTY IN CONFLICT WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE.
- MATERIALS, INSTALLATION AND TESTING:
 - FOLLOW CITY OF MIAMI BEACH PUBLIC WORKS MANUAL, PART II, SECTION 7.

Regulatory and Economic Resources SEE NOTES ON WATER-SEWER INSTALLATION (NOT PART OF M-DWASD NOTES FOR APPROVAL)

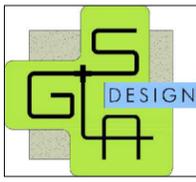
- A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. 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 VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROMAL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THE DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. 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.
- AIR RELEASE VALVES SHALL BE PROVIDED AT HIGH POINTS OF NEW FORCE MAIN SANITARY SEWERS.
- GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES.
- RESIDENTIAL LAND USES: FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
 - NON-RESIDENTIAL LAND USES: TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
 - ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED.
- THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED.
- FORCE MAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES.
- THE MAXIMUM ALLOWABLE EXFILTRATION/LEAKAGE RATE OF FORCE MAIN SANITARY SEWERS SHALL BE:
 - DUCTILE IRON, C-900 PVC, HDPE, AND PVC PIPE. THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - FOR REINFORCED CONCRETE PRESSURE PIPE, HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN EXISTING TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.
- IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY:
 - WORK IN THE AREA SHALL FOLLOW ALL SAFETY REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES.
 - IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700.
 - IF SOLID WASTE MATERIAL IS EXCAVATED DURING CONSTRUCTION, THEN THEY REQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE BEEN ADVISED BY HER/ITSELF TO PROVIDE AND OBTAIN WITHIN A MIAMI-DADE COUNTY OWNED LANDFILL (CLASS I LANDFILL) IS APPROPRIATE AND SELECTED, PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF SOLID WASTE MANAGEMENT AT (305) 594-6666 FOR INFORMATION.
 - THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THE ORIGINAL EXCAVATION, REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700.
- PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS FOR CLASS II DIVISION 1 LOCATIONS (EXPLOSION PROOF).
- THE CONTRACTOR IS ADVISED THAT A TREE REMOVAL/RELOCATION PERMIT MAY BE REQUIRED PRIOR TO THE REMOVAL AND/OR RELOCATION OF TREE RESOURCES. PRIOR TO REMOVING OR RELOCATING ANY TREES, THE CONTRACTOR SHALL NOTIFY THE TREE AND FOREST RESOURCES SECTION OF (305) 372-6574, OR VIA EMAIL AT: TFRS@MIAMI-DADE.GOV OR CONTACT THE MUNICIPALITY WITH TREE ORDINANCE JURISDICTION TO OBTAIN ANY REQUIRED PERMITS. THOSE TREES NOT INTERFERING WITH THE CONSTRUCTION SHALL BE PROTECTED IN PLACE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 24-49.5 OF THE MIAMI-DADE CODE.
- PLEASE NOTE THAT THE DEMOLITION, REMOVAL AND/OR DISTURBANCE OF EXISTING UNDERGROUND UTILITIES THAT CONTAIN ASBESTOS CEMENT PIPES (ACP) ARE SUBJECT TO THE PROVISIONS OF 40 CFR 61 SUBPART M. THEREFORE, PURSUANT TO THE PROVISIONS OF 40 CFR 61.145, A NOTICE OF DEMOLITION OF ASBESTOS CEMENT PIPES FORM MUST BE FILED WITH THE AIR QUALITY MANAGEMENT DIVISION (AQMD) OF DERL AT LEAST TEN (10) WORKING DAYS PRIOR TO STARTING OF ANY WORK. NOTE THAT THE BACKFILLING AND BURIAL OF CRUSHED ACP WOULD CAUSE THESE LOCATIONS TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO 40 CFR 61.145 AND 40 CFR 61.151. A YEAR AFTER PROJECT COMPLETION, EXISTING STANDARD OPERATING PROCEDURES AS WELL AS APPLICABLE FEDERAL, STATE AND LOCAL REGULATORY CRITERIA MUST BE FOLLOWED AND IMPLEMENTED TO MINIMIZE ANY POTENTIAL RELEASE OF FUGITIVE ASBESTOS. ESPECIALLY DURING PROJECT CONSTRUCTION. THE AQMD CAN BE CONTACTED VIA EMAIL AT ASBESTOS@MIAMI-DADE.GOV OR 305 372 6925.

REV. 4/30/2018

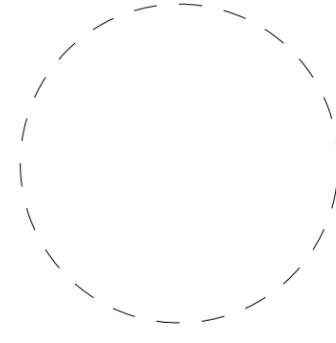
This item has been digitally signed and sealed by Michael Carr, PE, on the date adjacent to the seal

Printed Copies of this document are available for purchase

Date: 7/8/2022 Time: 14:39 User: djimenez Style: Table; Langan Std Layout; C-200 Document Code: 330089601-0503-CS003-0101 © 2019 The Cannon Corporation



DRB22-0845
Final Submission
11 July 2022



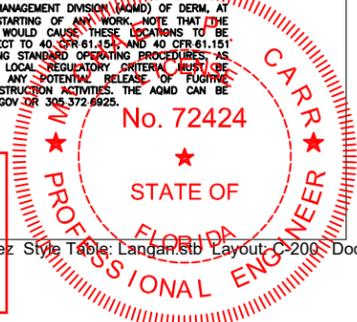
SIGNATURE DATE SIGNED

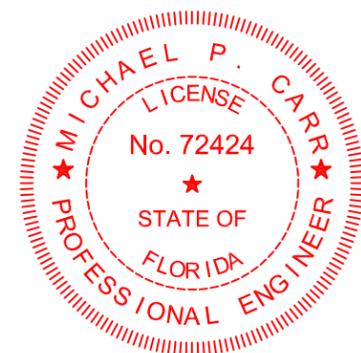
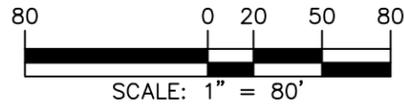
MICHAEL CARR
PROFESSIONAL ENGINEER FL Lic. No. 72424



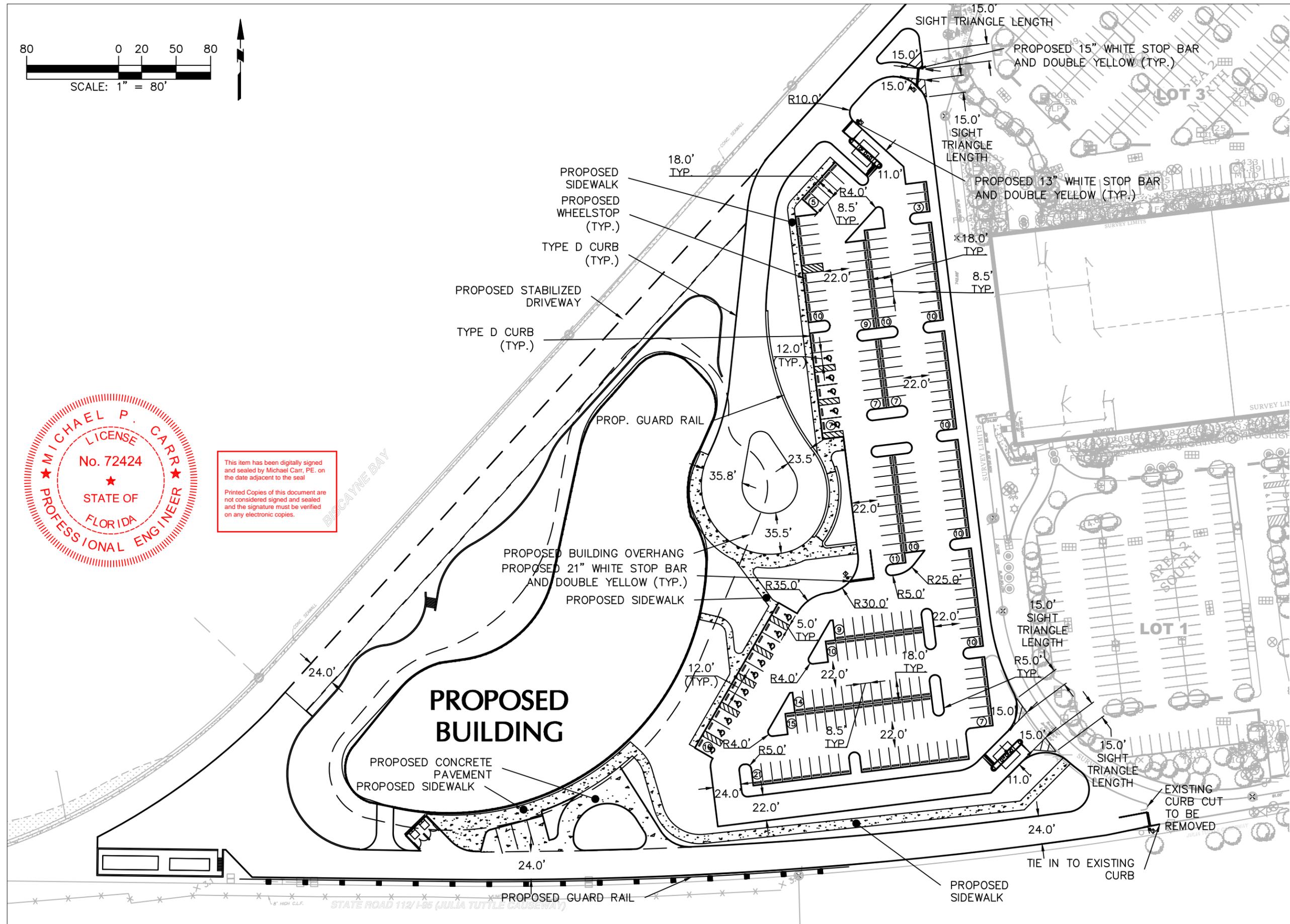
Langan Engineering and Environmental Services, Inc.
110 East Broward Boulevard, Suite 1500
Fort Lauderdale, FL 33301
T: 954.320.2100 F: 954.320.2101 www.langan.com
FL CERTIFICATE OF AUTHORIZATION NO. 0006601FLB172/LB198

GENERAL NOTES
C-200
PART 3





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



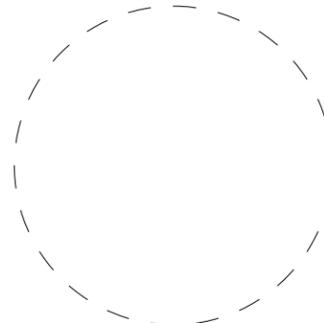
Mount Sinai
 MEDICAL CENTER
 Braman Cancer Center

CANNONDESIGN
 ARCHITECT CORPORATION
 CANNON FLORIDA INC.
 AAC000314 8874

TLC ENGINEERING SOLUTIONS



DRB22-0845
 Final Submission
 11 July 2022



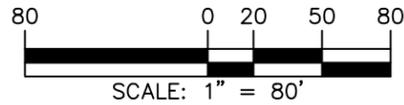
SIGNATURE: MICHAEL CARR DATE SIGNED: _____
 PROFESSIONAL ENGINEER FL Lic. No. 72424

LANGAN
 Langan Engineering and Environmental Services, Inc.

110 East Broward Boulevard, Suite 1500
 Fort Lauderdale, FL 33301
 T: 954.320.2100 F: 954.320.2101
 FL CERTIFICATE OF AUTHORIZATION NO. 00006601/LB8172/LB8198

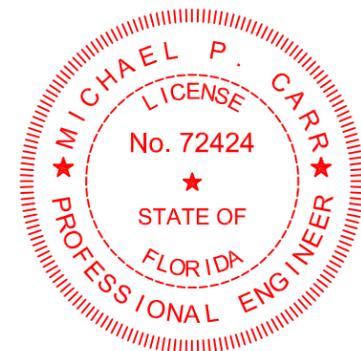
SITE PLAN
C-300

PART 3



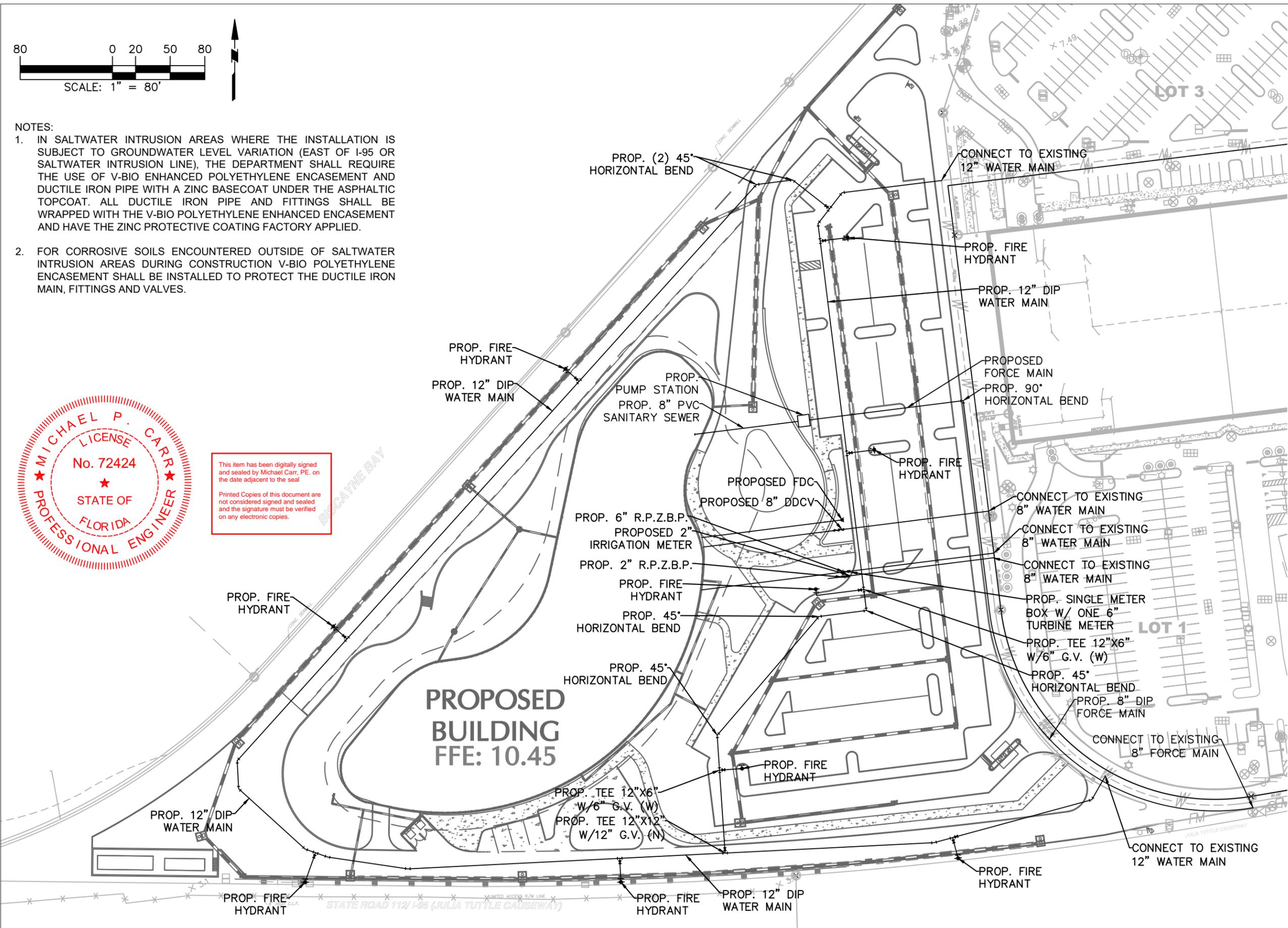
NOTES:

1. IN SALTWATER INTRUSION AREAS WHERE THE INSTALLATION IS SUBJECT TO GROUNDWATER LEVEL VARIATION (EAST OF I-95 OR SALTWATER INTRUSION LINE), THE DEPARTMENT SHALL REQUIRE THE USE OF V-BIO ENHANCED POLYETHYLENE ENCASEMENT AND DUCTILE IRON PIPE WITH A ZINC BASECOAT UNDER THE ASPHALTIC TOPCOAT. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH THE V-BIO POLYETHYLENE ENHANCED ENCASEMENT AND HAVE THE ZINC PROTECTIVE COATING FACTORY APPLIED.
2. FOR CORROSIVE SOILS ENCOUNTERED OUTSIDE OF SALTWATER INTRUSION AREAS DURING CONSTRUCTION V-BIO POLYETHYLENE ENCASEMENT SHALL BE INSTALLED TO PROTECT THE DUCTILE IRON MAIN, FITTINGS AND VALVES.

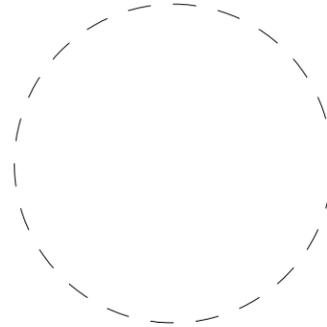


This item has been digitally signed and sealed by Michael Carr, PE, on the date adjacent to the seal.
Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

BAYNE BAY



DRB22-0845
Final Submission
11 July 2022



SIGNATURE: MICHAEL CARR DATE SIGNED: _____
PROFESSIONAL ENGINEER FL Lic. No. 72424

LANGAN
Langan Engineering and
Environmental Services, Inc.

110 East Broward Boulevard, Suite 1500
Fort Lauderdale, FL 33301

T: 954.320.2100 F: 954.320.2101
FL CERTIFICATE OF AUTHORIZATION NO. 00006601LB172LBB198

UTILITY PLAN
C-500

PART 3