

CONSTRUCTION NOTES

SAFETY

1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
2. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED PRIOR TO THE PRE-CONSTRUCTION MEETING AND LANE CLOSURES MUST BE IN ACCORDANCE WITH NASSAU COUNTY ROAD CLOSURE POLICY. MAINTENANCE OF TRAFFIC PLANS ALSO MUST BE APPROVED BY THE GOVERNMENTAL AGENCIES HAVING JURISDICTION PRIOR TO ANY CONSTRUCTION ACTIVITIES.
3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
4. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ANY OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING HIS EMPLOYEES AND SUBCONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUBCONTRACTORS AND SUBCONTRACTORS' EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THIS OBLIGATION IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART F.
6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFETY PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE CALL AT 811 TO ARRANGE FOR FIELD LOCATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. Dewatering methods shall be used as required to keep trenches dry while pipe and appurtenances are being placed.

EXISTING TREE PROTECTION NOTES:

1. RECOVERED BARRICADES AND FLAGGING SHALL BE ERCTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND REGULATORY AGENCIES PRIOR TO COMMENCEMENT OF LAND ALTERATION ACTIVITIES. BARRICADES SHALL REMAIN IN PLACE UNTIL ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.
2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, WITHIN THE DRIPLINE OF A TREE REMAINING ON SITE, UNLESS OTHERWISE APPROVED, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION, EXCEPT BY HAND, BY RUBBING OR TO PLACE STAKES, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE.
3. ADEQUATE PROTECTION MEASURES (I.E. HAY BALES, BARRIERS, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUNOFF ON EXPOSED LAND SURFACES.
4. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS. THIS INFORMATION MUST BE CLEARLY IDENTIFIED ON THE CONSTRUCTION PLANS.

CLEARING/DEMOLITION

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED IN THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE REGULATORY AGENCY OR THE OWNER.
2. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
3. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
4. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
5. CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL, PURSUANT TO ALL FEDERAL, STATE, COUNTY, CITY OR OTHER GOVERNMENT AGENCY REQUIREMENTS, OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITHIN THE NEW FACILITIES.

SITE PLAN AND COORDINATE GEOMETRY

1. BOUNDARY SURVEY PREPARED BY LICENSED SURVEYOR.
2. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
3. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
4. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNERS ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS TOP OF BANK, TOE OF SLOPE AND GRADE BREAK LOCATIONS AND ELEVATIONS FOR ROAD AND DITCH CONSTRUCTION. NO ENGINEER'S CERTIFICATES FOR CERTAIN OCCASIONAL PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE OWNER'S ENGINEER. AS-BUILTS ARE TO BE PREPARED IN ACCORDANCE WITH NASSAU COUNTY AS-BUILT REQUIREMENT CHECKLIST.

GENERAL NOTES

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION RELATED PERMITS, INCLUDING BUT NOT LIMITED TO RIGHT OF WAY USE PERMITS, PIPING PERMITS, NOT PERMITS, ETC. PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
2. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
3. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING NASSAU COUNTY'S ROADWAY & RANGEWAY STANDARDS AND THE LAND DEVELOPMENT CODE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
5. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES & THEIR SUBCONTRACTORS.
6. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE REGULATORY AGENCY AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHT-OF-WAY.
7. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES BEFORE ORDERING MATERIALS AND CASTING STRUCTURES.
8. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. THE LAYOUTS INDICATED IN THE PLANS ARE NOT EXACT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
9. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW. CONSTRUCTION AREAS WITHIN COUNTY RIGHT-OF-WAY AND EASEMENTS SHALL BE TREATED WITH SOD, TO PROTECT THE RIGHT-OF-WAY AGAINST EROSION. GRASSES SHALL BE ARGENTINE BAHIA, BERNUEDA OR AN APPROVED ALTERNATE.
10. ADJUSTMENTS OF INLETS, JUNCTION BOXES, MANHOLE TOPS, WATER VALVES, WATER METERS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND NO CLAIM SHALL BE MADE AGAINST THE OWNER OR ENGINEER FOR THESE ADJUSTMENTS, IF REQUIRED.
11. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH REGULATORY AGENCY STANDARDS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
12. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR OR THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
13. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
14. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY THE OWNER'S ENGINEER.

PAVING AND GRADING

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE. SOIL TESTING SHALL BE CONDUCTED TO DETERMINE IF THE MATERIAL IS TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL BE COMPOSED OF MATERIAL OF THE SAME SOIL TYPE AS THE SOIL BEING REMOVED AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
5. CURBING WILL BE PLACED AT THE EDGE OF ALL PAVEMENT, AS SHOWN ON THE PLANS.
6. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURBING AND GUTTERS CALLED FOR IN THESE PLANS.
7. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.)
8. ALL PAVEMENT MARKINGS IN RIGHT-OF-WAY AND STOP BARS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO F.D.O.T. STANDARD INDEX NO. 17346, SHEETS 1-7, PARKING STALL STRIPING AND ON-SITE PRIVATE PAVEMENT MARKINGS TO BE TRAFFIC GRADE PAINT.
9. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.
10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE LOCATED THIS SHEET. UPON COMPLETION OF THE WORK, SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
11. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TEST TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND RETESTING.
12. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
13. CONTRACTOR TO PROVIDE EROSION CONTROL BARRIERS (SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PAVEMENT, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PREVENT STRAW, MULCH OR OTHER SLURRY MATERIAL FROM GROUPS IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO TAKE PLACE. IF, IN THE JUDGMENT OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESS QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICLES, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.
14. WIND EROSION BECOMING SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE AFFECTED AREAS BY SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE MEANS.

DRAINAGE

1. ALL SANITARY SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH FOOT/ROADWAY AND TRAFFIC DESIGN STANDARDS AND LOCAL AGENCY STANDARDS UNLESS OTHERWISE SHOWN ON PLANS.
2. PIPE LENGTHS SHOWN ARE APPROXIMATE.
3. ALL DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
4. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
5. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

SANITARY SEWER

1. SEE PIPE SEPARATION REQUIREMENTS, THIS SHEET.
2. ALL SANITARY SEWER MAINS AND LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER UNDER PAVEMENT AND IN COUNTY ROADWAY ROW. THE MINIMUM DEPTH REQUIREMENT UNDER PAVEMENT IS 42 INCHES & 36 INCHES IN UNPAVED AREAS FOR SEWER AND WATER MAINS.
3. ALL ON SITE PVC GRAVITY SANITARY SEWER PIPE SHALL BE MADE OF MATERIAL HAVING A CELL CLASSIFICATION OF 12454 B, 12454 C OR 13354 B AS DEFINED IN ASTM D-1784. PVC PIPE AND FITTINGS USED IN THE GRAVITY SYSTEM SHALL BEET THE REQUIREMENTS OF ASTM D3034 SDR 35 TO A DEPTH OF 15' AND SDR 26 AT A DEPTH BEYOND 15'.
4. ALL ON SITE DUCTILE IRON PIPE SHALL BE CLASS 52 AND SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.8, A 21.8, OR A 21.5.
5. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE AGENCY STANDARDS AND SPECIFICATIONS, LATEST EDITION THERE OF.
6. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS.
7. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BASE AND PAVING AND AGAIN PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
8. THE CONTRACTOR SHALL PERFORM A CLOSED CIRCUIT TELEVISION INSPECTION ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION PRIOR TO FINAL ACCEPTANCE.
9. ALL WASTE-WATER LATERALS WILL A MINIMUM OF 36" COVER AT THE RIGHT-OF-WAY LINE.

PIPE SEPARATION REQUIREMENTS:

- FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER WORKS AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.
1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
 - A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C.
 - B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C. THE MINIMUM HORIZONTAL DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-8.002, F.A.C.
 2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:
 - A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. IF IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE SEWER PIPELINE, THE MINIMUM VERTICAL SEPARATION SHALL BE AS FOLLOWS:
 - i. GRAVITY-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - ii. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL CENTER ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINT SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAINS ARE AT LEAST 12 INCHES ABOVE ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C.

3. SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES:
 - A. NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
4. SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
 - A. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-8.002, F.A.C.

WATER DISTRIBUTION

1. SEE PIPE SEPARATION REQUIREMENTS, THIS SHEET.
2. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER UNDER PAVEMENT AND IN COUNTY ROADWAY ROW. THE MINIMUM DEPTH REQUIREMENT UNDER PAVEMENT IS 42 INCHES & 36 INCHES IN UNPAVED AREAS FOR SEWER AND WATER MAINS.
3. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY AGENCY STANDARDS AND SPECIFICATIONS.
4. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY AND PER PIPE SEPARATION REQUIREMENTS NOTED THIS SHEET.
5. ALL ON SITE PVC WATER MAINS 4 INCHES THROUGH 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 AND SHALL BE CLASS 150 SDR 18. ALL ON-SITE PVC WATER MAINS 2" TO 3" SHALL BE CLASS 1120 AND MEET REQUIREMENTS OF SDR 21 IN ACCORDANCE WITH ASTM D-2241. WATER MAINS SMALLER THAN 1 1/2" SHALL BE CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D-1785.
6. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.51. MINIMUM CLASS 50. JOINTS FOR DUCTILE IRON PIPE SHALL BE MECHANICAL OR PUSH-ON JOINTS. PIPE SHALL HAVE AN EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A21.51. PIPE INTERIOR SHALL HAVE A CEMENT MORTAR LINING WITH AN ASPHALTIC SEAL COAT CONFORMING TO AWWA/ANSI C104/A21.4. THE WEIGHT AND CLASS DESIGNATION SHALL BE PAINTED IN WHITE ON THE EXTERIOR SURFACE OF ALL PIPE AND FITTINGS.
7. ALL DUCTILE FITTINGS SHALL BE MECHANICAL JOINT WITH A MINIMUM PRESSURE RATING OF 250 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA STANDARD A21.10/C110. ALL FITTING SHALL BE COATED AND LINED AS SPECIFIED ABOVE FOR DUCTILE IRON PIPE.
8. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS SHOWN ON PLAN.
9. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESURE TESTS TO BE IN ACCORDANCE WITH LOCAL REGULATORY AGENCY SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND LOCAL INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
10. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING AND OBTAIN CLEARANCE FROM THE LOCAL WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.

CONTRACTOR PERMIT LIST

1. CONTRACTOR TO PULL ALL RIGHT OF WAY USE PERMITS FOR NASSAU COUNTY AND FOOT.
2. CONTRACTOR TO SCHEDULE NASSAU COUNTY PRE-CON MEETING AND NOTIFY ENGINEER.
3. CONTRACTOR TO OBTAIN ANY SITE PIPING PERMITS.
4. CONTRACTOR TO OBTAIN TREE REMOVAL / CLEARING PERMIT FOR NASSAU COUNTY.
5. CONTRACTOR MUST HAVE NOT CERTIFIED FIELD PERSONNEL.
6. A BOND OR LETTER OF CREDIT MAY BE REQUIRED.
7. INSURANCE CERTIFICATE IS REQUIRED TO WORK IN ROW.
8. A LICENSE IS REQUIRED FOR UNDERGROUND UTILITIES INSTALLATIONS.

SC-1 TESTING SCHEDULE

NOTE: GOVERNING AGENCY REQUIREMENTS SUPERSEDE THESE REQUIREMENTS.

ITEM	TEST	TEST FREQUENCY
EMBANKMENT	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOL TYPE
	95% OF MODIFIED PROCTOR (AASHTO T-180-57, ASTM D-1557)	ONE PER 500 FEET HORIZONTALLY, IN 12 INCH LIFTS
UTILITY TRENCH BACKFILL	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOL TYPE
	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - MINUS 3% TOLERANCE	**
UTILITY TRENCH BACKFILL	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOL TYPE
	95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - MINUS 3% TOLERANCE	**
STABILIZED SUBGRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER MATERIAL TYPE
	MINIMUM 40 LBR	*** PER MATERIAL TYPE
BASE (OTHER THAN SOL CEMENT)	OPTIMUM MOISTURE/MAXIMUM DENSITY	PER SOURCE
	98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE	PER SOURCE
CONCRETE	SLUMP TEST	ONE PER SET OF CYLINDERS
	COMPRESSIVE STRENGTH CYLINDERS	ONE SET OF THREE (3) CYLINDERS PER 100 CUBIC YARDS OR FRACTION THEREOF
ASPHALTIC CONCRETE	AIR CONTENT	ONE PER SET OF CYLINDERS
	AGGREGATE ANALYSIS	ONE PER DESIGN
	DESIGN MIX	ONE PER TYPE
	BITUMEN CONTENT	ONE PER DAY
	GRADATION STABILITY FLOW	ONE PER DAY
	PROPERTIES OF IN PLACE MATERIALS (MARSHALL)	ONE PER DAY
	THICKNESS	***
	95% OF LAB DENSITY	***

* TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STRAGED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 12 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPRAWLED IN 12 INCH LIFTS.

** FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-T99) PER FOOT SPECIMEN SPECIFICATIONS SUR ARTICLE 128-2.32 AS MODIFIED.

*** TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET.

GENERAL LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES, BEFORE PERFORMING ANY WORK. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND PROTECTION OF THE SITE DURING CONSTRUCTION. DAMAGE TO EXISTING TREES OR PLANTS IN THE EVENT OF DAMAGE, ALL DAMAGE SHALL BE COMPLETELY REPAIRED TO ITS ORIGINAL CONDITION, ALL COST OF SUCH WORK SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED DAMAGE OR CUTTING OF EXISTING TREES TO REMAIN ON SITE. DAMAGE MAY BE CAUSED BY OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. DAMAGE INCLUDES THE CONSTRUCTION OF THE ROOT ZONE BY DRIVING OR PARKING INSIDE THE DRIP-LINE OF TREES OR THE SPILLAGE OF DELETERIOUS CHEMICALS, OILS, DIESEL, ETC. WITHIN THE DRIP-LINE OF TREES.
4. EXISTING TREES AND PALMS WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND SPECIFIED TO REMAIN ARE TO BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD WITH TREE BARRICADES PER LOCAL REGULATORY AGENCY REQUIREMENTS.
5. THE CONTRACTOR SHALL PROVIDE AN INTERNATIONAL SOCIETY OF ARBORIST (ISA) CERTIFIED ARBORIST WITH A MINIMUM OF 5 YEARS EXPERIENCE WITH SIMILAR PROJECTS, TO DIRECT APPROPRIATE PRUNING (ROOTS, BRANCHES) AND/OR OTHER TREATMENT NECESSARY TO ENSURE THE HEALTH, VIABILITY AND ATTRACTIVENESS OF TREES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE CERTIFIED ARBORIST'S INSTRUCTIONS.
6. ALL LANDSCAPE AREAS AND AROUND EXISTING TREES SHALL BE MULCHED UTILIZING SHREDED MELALEUCA OR PINE BARK NUGGETS (100% ORGANIC). MULCH SHALL BE INSTALLED TO A WETTED DEPTH OF 3". MULCH SHALL BE FREE OF EXTRANEOUS DEBRIS.
7. ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL COMPLY WITH ALL REQUIRED INSPECTIONS, GRADING STANDARDS AND PLANT REGULATIONS SET FORTH BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY "GRADES AND STANDARDS - NURSERY PLANTS", LATEST EDITION. ALL PLANT MATERIAL SHALL ALSO CONFORM TO ALL STANDARDS FOR NURSERY STOCK (ANSI Z607-1-1990). THE MINIMUM SIZE FOR ALL PLANT MATERIALS SHALL BE FLORIDA #1.
8. THE CONTRACTOR SHALL SUPPLY SUFFICIENT WATER, OVER THE AMOUNT OF WATER SPECIFIED ON THE PLANS, TO MAINTAIN THE HEALTH AND VITALITY OF ALL NEWLY INSTALLED TREES AND PALMS FOR 90 DAYS COMMENCING IMMEDIATELY AFTER INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST WATERING AMOUNTS AND FREQUENCY TO ENSURE PROPER ESTABLISHMENT OF ALL PLANT MATERIAL.
9. PLANTED AREAS SHALL BE FREE OF EXTRANEOUS MATERIALS AND CAPABLE OF PERIODIC PRIOR TO PLANTING AND PREPARED SOIL BACKFILL.
10. ALL LANDSCAPE CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE LOCAL REGULATORY AGENCY LANDSCAPE CODE.
11. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT THE REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH, IN HIS OPINION, DO NOT MEET INDUSTRY STANDARDS OR PRESENT AN ORDERLY AND WORKMANLIKE APPEARANCE. PROVIDED THAT SUCH ITEMS CAN BE FORCED MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-810, F.A.C.
12. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN HIS FINISHED WORK FROM THE TIME OF INSTALLATION IS COMPLETE TO THE TIME OF FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A 1-YEAR WARRANTY ON THE INSTALLED PLANT MATERIAL AND A 90-DAY WARRANTY ON SOD.
13. PLANTING SOIL SHALL BE FERTILE, NATURAL TOPSOIL TYPICAL TO THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOL OR CLAYS AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS, ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR INTERFERE WITH FUTURE MAINTENANCE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF SOILS AND MAKE THE NECESSARY ADJUSTMENTS OR AMENDMENTS FOR LONG TERM PLANT HEALTH AND VITALITY.
15. SOD SHALL BE OF KIND AND PLACED AS SHOWN ON THE PLANS. SOD SHALL BE WELL MATTED WITH GRAY ROOTS. SOD SHALL BE IN 12"x14" RECTANGLES, HAVING A MINIMUM THICKNESS OF 2" AND SHALL BE FRESH, LIVE AND UNHURLED AT TIME OF PLANTING. SOD SHALL BE CERTIFIED AS FREE OF WEEDS AND OTHER GRASSES, HAVING SUFFICIENT SOIL MAT TO ADHERE FIRMLY TO ROOTS FOR HANDLING. SOD SHALL BE PLANTED WITHIN 72 HOURS OF BEING HARVESTED AND ROLLED IMMEDIATELY AFTER INSTALLATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL STAKING OF TREES AND PALMS BASED ON SITE CONDITIONS, TO PROVIDE FOR THE STABILITY OF THE TREE AND PALM MATERIALS AND TO PROTECT THE HEALTH AND SAFETY OF THE PUBLIC/PROPERTY.
17. TREE AERATION SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF LOCAL GOVERNING AGENCY AND UNDER THE SUPERVISION OF THE CERTIFIED ARBORIST. THE CERTIFIED ARBORIST SHALL ADJUST THE REQUIREMENTS OF THE AERATION SYSTEM IN THE FIELD TO ACCOUNT FOR ACTUAL FIELD CONDITIONS AND THE ROOT SYSTEM OF THE TREE.



FBPR CERTIFICATE OF AUTHORIZATION NO.: 26728

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REVISIONS

NO.	DESCRIPTION	DATE
△	NASSAU COUNTY COMMENTS	8/21/2018
△	NASSAU COUNTY COMMENTS	10/03/2018
△	NASSAU COUNTY COMMENTS	11/15/2018

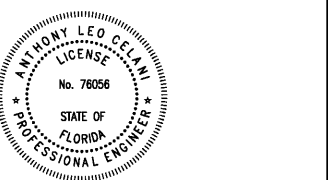
ISSUE DATE: 08/2017

REVIEWED BY: ALC

DRAWN BY: LAB

DESIGNED BY: ALC

PROJECT NUMBER
CEI 18-035



Anthony L. Celani 76056 11/26/2018
NAME SEAL NO. DATE

SHEET TITLE

GENERAL NOTES