I. GENERAL NOTES
A. APPLICABLE CODES:
1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY STATE, AND THE U.S.

2. CONSTRUCTION SAFETY – ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OSHA), AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

3. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH CHAPTER 90–96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT) AND OSHA STANDARD 29 C. F. R, SECTION 1926.650 SUBPART P. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.

4. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE AND FEDERAL AGENCIES.

B. PRECONSTRUCTION RESPONSIBILITIES:
1. AT THEIR OWN COSTS, CONTRACTOR AND/OR SUB–CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE TO RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER TO OBTAIN THE NECESSARY DEWATERING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT. YET THE DEWATERING OPERATIONS SHALL BE ACCEPTABLE TO THE ENGINEER OF RECORD (DAN MOSS, PE), SO THAT NONE OF THE PROPOSED EXFILTRATION TRENCHES/DRAINAGE WELLS/ETC. GET SILTED UP/DAMAGED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

2. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND HIMSELF.

3. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO PRIOR TO BEGINNING ANY EXCAVATION,

4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, CONDITION, LOCATION, ELEVATIONS, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

6. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

7. PRIOR TO COMMENCEMENT FOR CONSTRUCTION, THE CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL BY THE OWNER AND ENGINEER A PROGRESS SCHEDULE AND PHASING PLAN DEMONSTRATING COMPLETE FULFILLMENT OF ALL CONTRACT REQUIREMENTS INCLUDING ALL ACTIVITIES OF SUBCONTRACTORS, EQUIPMENT VENDORS AND SUPPLIERS. THE SCHEDULE SHALL BE IN THE FORM OF A BAR CHART AND ARROW DIAGRAM, SHOWING START AND END DATES FOR ALL PORTION OF THE WORK. THE CONTRACTOR SHALL UPDATE THIS SCHEDULE ON A WEEKLY BASIS AND SUBMIT IT FOR APPROVAL TO THE OWNER AND ENGINEER.

C. INSPECTIONS:

1. THE OWNER, ENGINEER, AND LOCAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS. INSPECTIONS WILL BE DONE BY THE ENGINEER, DURING NORMAL WORKING HOURS, BETWEEN 8:00 A.M. AND 5:00 P.M., EXCLUDING WEEKENDS, HOLIDAYS, AND VACATIONS. CONTRACTOR SHALL PROVIDE ALL LABOR, COORDINATION AND ASSISTANCE, TOOLS, AND MATERIALS TO FACILITATE ALL INSPECTIONS REQUIRED AND AS DIRECTED BY THE ENGINEER. A SEPARATE COST ITEM IS PROVIDED FOR THIS WORK, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE BID PRICE.

2. ALL UTILITIES AND DRAINAGE INSTALLATION UNDER THE PROPOSED PAVEMENT SHALL BE COMPLETED PRIOR TO COMMENCING SUB–GRADE CONSTRUCTION.

3. AT A MINIMUM, THE CONTRACTOR IS REQUIRED TO HAVE INSPECTIONS MADE ON EACH OF THE FOLLOWING ITEMS BY THE ENGINEER AND THE RESPECTIVE GOVERNMENTAL AGENCY HAVING JURISDICTION. CONTRACTOR TO NOTIFY AND COORDINATE WITH THE ENGINEER'S SCHEDULE AT LEAST 72 HOURS IN WRITING, PRIOR TO SCHEDULING WITH ANY AGENCY.
A. UTILITIES AND DRAINAGE (INCLUDING SWALES AND DRY RETENTIONS, BEFORE AND AFTER SODDING)
B. WET CONNECTIONS C. PRESSURE TESTS D. FILLING/FLUSHING E. CHLORINATION
F. BACTERIOLOGICAL SAMPLES
G. STORM DRAINAGE, INCLUDING LAMPING, CONNECTIONS AT CATCH BASINS, BAFFLE CONNECTION, ETC.
H. SANITARY SEWER I. ALL MUD WORKS J. SUBGRADE K. LIMEROCK BASE
L. PRIME COAT M. ASPHALT N. CONCRETE FORMS O. PAVEMENT MARKINGS
P. FINAL

4. THE ENGINEER WILL NOT CERTIFY ANY PART OF THE PROJECT THAT HE HAS NOT INSPECTED. THIS WILL RESULT IN THE DELAY OF OBTAINING ANY CERTIFICATE OF OCCUPANCY IF INSPECTIONS ARE NOT COORDINATED BY THE CONTRACTOR.

5. FOR ALL INSPECTIONS THAT FAIL: THE CONTRACTOR SHALL PAY THE ENGINEER $150.00 PER HOUR, CALCULATED DOOR TO DOOR FOR ALL FAILED INSPECTIONS. FAILURE TO PAY THE ENGINEER WILL RESULT IN THE ENGINEER NOT RE–INSPECTING THE PROJECT, AND IF NEEDED, THE ENGINEER SHALL NOT CERTIFY THE CLOSING DOCUMENTS REQUIRED BY THE PERMITTING AGENCIES.

D. SHOP DRAWINGS:
1. THE CONTRACTOR SHALL SUBMIT (2) TWO SETS OF SHOP DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD PRIOR TO ORDERING, FABRICATION, OR CONSTRUCTION FOR ALL MATERIALS USED ON THE PROJECT. 1 SET WILL BE RETURNED TO THE CONTRACTOR. CONTRACTOR SHALL MAKE ANY COPIES NEEDED. APPROVED SHOP DRAWINGS FROM SUB–CONTRACTORS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY, COUNTY, STATE, UTILITY PROVIDER, ETC, FOR THEIR APPROVAL. NO CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVED SHOP DRAWINGS HAVE BEEN OBTAINED BY THE CONTRACTOR FROM THE ENGINEER, CITY, COUNTY, STATE, UTILITY PROVIDER, ETC.

2. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

E. TEMPORARY FACILITIES, TRAFFIC REGULATIONS, AND OPEN TRENCHES:
1. TEMPORARY UTILITIES – IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

2. M.O.T. & TRAFFIC REGULATION – CONTRACTOR SHALL OBTAIN AND PAY FOR PROFESSIONAL ENGINEERING SERVICES TO PREPARE A M.O.T. (MAINTENANCE OF TRAFFIC PLAN) TO SUBMIT TO PERMITTING AGENCIES FOR APPROVALS. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT–OF–VAY SHALL BE IN ACCORDANCE WITH THE MUTCD, THE CITY, THE COUNTY, AND THE FDOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN A SAFE M.O.T. DURING THE ENTIRE CONSTRUCTION.

3. 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 HOLES SHALL BE LEFT OPEN OVERNIGHT.

F. PROJECT SITE:
1. THE CONTRACTOR OR HIS SUPERINTENDENT SHALL HAVE AT LEAST ONE COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING THE CONSTRUCTION OF THIS PROJECT.
A. CITY ENGINEERING STANDARDS. COUNTY ENGINEERING STANDARDS. UTILITY ENGINEERING STANDARDS.
B. FDOT STANDARD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION
C. FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION. FDOT INDEXES, LATEST EDITION
D. U.S DEPT. OF TRANSPORTATION – FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
E. APPROVED PERMITS AND PERMIT PLANS FROM ALL GOVERNING AGENCIES.

2. DURING CONSTRUCTION THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

3. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED ALL WORK NECESSARY TO RESTORE OR REPLACE HIGHWAY OR DRIVEWAY, WALK, LANDSCAPING, IRRIGATION, ETC. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION. THE CONTRACTOR SHALL REPLACE IN KIND ALL ITEMS DAMAGED BY HIS OPERATIONS, TO THE SATISFACTION OF THE ENGINEER, AT NO COST.

4. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR 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 PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

G. PROJECT RECORD DOCUMENTS ("AS–BUILTS"):
1. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF PERMITTING AGENCIES AND THE ENGINEER OF RECORD.

2. AS–BUILT/RECORD SURVEYS ARE DOCUMENTS THAT SHOW THE FINAL HORIZONTAL AND VERTICAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS IN RELATIONSHIP WITH THE PERMITTED CONSTRUCTION PLANS AND THE CONTRACTOR'S FIELD CHANGES. AS–BUILT/RECORD SURVEYS ARE REQUIRED BY PERMITTING AGENCIES TO ENSURE COMPLIANCE WITH THEIR APPROVED PERMITS. SUBMITTING TO PERMITTING AGENCIES INCORRECT AS–BUILT SHOWING THAT A PROJECT WAS NOT BUILT PER THE PERMITTED PLANS WILL RESULT IN GOVERNMENT AGENCIES REJECTING THOSE DEFECTIVE SUBMITTALS AND HAVING US REVISE AND RESUBMIT AS–BUILTS AND/OR CORRECT DEFICIENT WORK UNTIL SUCH TIME THAT THE WORK AND/OR AS–BUILTS MEET THEIR REQUIREMENTS. TO THIS WILL UNNECESSARILY DELAY THEIR RELEASES UNTIL WE MEET THEIR PERMITTING REQUIREMENTS. FURTHER, PERMITTING AGENCIES REQUIRE THAT THE ENGINEER OF RECORD PROVIDE A CERTIFICATION THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IF AS–BUILTS SHOW THAT THE WORK DOES NOT MEET PERMITTING REQUIREMENTS, THEN A CERTIFICATION CANNOT BE WRITTEN STATING SUCH. SUBMITTING INCORRECT AS–BUILT WITHOUT CERTIFICATION DOES NOT WORK EITHER.

3. ALL "AS–BUILTS"/RECORD DRAWINGS SHALL PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA. THE "AS–BUILTS"/RECORD DRAWINGS SHALL USE THE APPROVED CIVIL ENGINEERING PLANS AS A BASE AND SHOW ALL ACTUAL CONSTRUCTED ELEVATIONS, IMPROVEMENTS, ETC. AS–BUILTS SHALL BE DONE IN AUTOCAD BY THE CONTRACTOR'S SURVEYOR.

4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES, FITTINGS, DIAMETER AND LENGTH OF PIPE, SIZE AND LENGTH OF EXFILTRATION TRENCHES, INVERT AND TOP ELEVATIONS, FINISHED GRADE ELEVATIONS AND THE LIKE, SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. PROVIDE TOP OF PIPE ELEVATIONS @ 25' ON CENTER AND AT EVERY FITTING. THESE ITEMS SHALL BE SHOWN ON THE "AS–BUILTS"/RECORD DRAWINGS TO BE PREPARED BY THE CONTRACTOR'S SURVEYOR. CONTRACTOR TO COORDINATE WITH HIS SURVEYOR TO OBTAIN THE REQUIRED INFORMATION IN THE FIELD PRIOR TO THE CONTRACTOR BACKFILLING ANY INSTALLED ITEM.

5. PRIOR TO THE PLACEMENT OF ANY ASPHALT, CONCRETE PAVEMENT, AND/OR PAVERS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD "AS–BUILT/RECORD DRAWING PLANS SHOWING LIMEROCK BASE GRADES (SUBRADE BASE GRADES IF FINISHED PAVEMENT IS CONCRETE), ALL DRAINAGE, WATER, SEWER IMPROVEMENTS, SLEEVING, UNDERGROUND ELECTRIC/CABLE/PHONE, ETC. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS–BUILTS"/RECORD DRAWINGS AND THE ENGINEER HAS APPROVED THE PAVING TO COMMENCE. ONCE THE PAVING IS COMPLETE, A FINAL "AS–BUILT"/RECORD DRAWING PLANS SHALL ALSO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

6. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.

7. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.

8. A FINAL "AS–BUILT" WILL BE REQUIRED AFTER THE FINAL ASPHALT/CONCRETE/PAVER LAYER IS PLACED, SHOWING FINAL GRADE ELEVATIONS, EXISTING AND NEW UTILITIES, FITTINGS, SURFACE TYPE SUCH ASPHALT, CONCRETE, ETC.

9. ALL "AS–BUILT/RECORD DRAWINGS INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER AND ANY APPLICABLE REVIEWING AGENCY THAT THE INFORMATION IS CORRECT AND TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.

10. PRIOR TO ACCEPTANCE OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A MINIMUM OF TWO COMPLETE SETS OF "AS–BUILT/RECORD DRAWING CONSTRUCTION DRAWINGS (PRINTS), A MYLAR OF SUCH DRAWINGS, AND ORIGINAL, AN ELECTRONIC COPY IN AUTOCADD FORMAT. THESE DRAWINGS SHALL BE MARKED TO SHOW ALL "AS–BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTOR. AS–BUILTS SHALL FOLLOW THE PERMITTING AGENCY'S CADD STANDARDS LAYERING FORMAT.

11. THE "AS–BUILT"/RECORD DRAWINGS INFORMATION REQUIRED HEREIN ON THESE SPECIFICATIONS SHALL BE PREPARED AND SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR, PRIOR TO SUBMITTING THEM TO THE ENGINEER FOR HIS REVIEW.

H. EARTHWORK:
1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.

2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T–180.

3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T–180.

4. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN WORK LIMITS AND SWALE AREAS SHALL BE REMOVED.

I. TESTING:
1. TESTING REQUIRED: ANY AND ALL TESTS SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GOVERNMENT AGENCY.

2. PROCTOR SHALL BE PERFORMED ON ALL MATERIAL, SUBGRADE, AND BASE AND SUBSEQUENT CHANGES IN MATERIAL. LIMEROCK BEARING RATIOS, SIEVE ANALYSIS, AND DENSITIES SHALL BE SUBMITTED TO THE ENGINEER AND THE PERMITTING AGENCIES.

3. BACKFILL SHALL BE COMPACTED IMMEDIATELY FOLLOWING UTILITY INSTALLATION TO 98% DENSITY AS PER AASHTO T–180.

4. DENSITY TEST ON THE STORM AND SANITARY SEWERS SHALL BE TAKEN IN 12" LIFTS WITH A MINIMUM OF 1 TEST FOR A RUN LESS THAN 200 FOOT AND 2 TESTS FOR RUN OF EXCESS THAN 200 FOOT. TEST SHALL ALSO BE TAKEN AT EACH STRUCTURE AT THE DISCRETION OF THE ENGINEER.

5. BASE AND SUBGRADE DENSITY TESTS SHALL BE CONDUCTED FOR A MAXIMUM OF 7000 SQUARE FEET OF FINISHED PAVEMENT.

6. ALL DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED TESTING LABORATORY. TESTS SHALL BE CONDUCTED UNDER THE DIRECTION OF THE PERMITTING AGENCY(IES), RECORD ENGINEER, AND/OR GEOTECHNICAL ENGINEER, AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

7. ALL TESTING AND REPORTS REQUIRED BY PERMITTING AGENCIES, ENGINEER, AND/OR OWNER SHALL BE DONE BY THE CONTRACTOR AT HIS OWN COST.

J. CLOSE–OUT DOCUMENTS:
THE CONTRACTOR SHALL PREPARE AND PROVIDE AT THIS OWN COST ALL REQUIRED CLOSE–OUT DOCUMENTS REQUIRED BY PERMITTING AGENCIES ("AS–BUILTS/RECORD DRAWING, DOCUMENTS FOR EASEMENTS, REPORTS, LIFT STATION START–UP REPORTS, PRESSURE TESTS, LAMPING, VIDEOTAPING OF SEWERS, ETC.)

K. SUBSTITUTION:
IF THE CONTRACTOR PROPOSES A SUBSTITUTE ITEM OR DESIGN, THE CONTRACTOR SHALL PROVIDE PROJECT SPECIFIC SHOP DRAWINGS SHOWING METHOD OF ACHIEVING A SIMILAR ITEM OR DESIGN ALONG WITH LIFE EXPECTANCY CALCULATIONS FOR ANY PROPOSED SUBSTITUTION. CONTRACTOR SHALL PASS THE COST SAVING OF SUCH SUBSTITUTION TO THE OWNER. CONTRACTOR SHALL PAY THE ENGINEER $250.00/HOUR FOR EVALUATING THE CHANGE, FOR RE–DESIGNING AND RE–PERMITTING THE PROJECT, WHETHER OR NOT THE SUBSTITUTION IS APPROVED BY THE OWNER AND/OR PERMITTING AGENCIES. ENGINEER MAY, AT HIS OWN CHOICE, DECIDE NOT TO EVALUATE ANOTHER ITEM OR DESIGN. THE ENGINEER'S DECISION SHALL BE FINAL.

L. NOTES:
1. THE CONTRACTOR SHALL NOTIFY THE CITY/UTILITY, OWNER, AND THE ENGINEER OF RECORD A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS AND/OR HOLIDAYS) PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO ANY INSPECTION.

2. THE CONTRACTOR SHALL FOLLOW ALL PERMIT REQUIREMENTS AND CONSTRUCT THE PROJECT PER THESE DRAWINGS AND SPECIFICATIONS.

3. THE LOCATION, SIZE AND MATERIAL OF THE EXISTING FACILITIES, UTILITIES, AND TOPOGRAPHY HAVE BEEN RECORDED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS FACILITIES, UTILITIES, AND TOPOGRAPHY SHOWN OR NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THROUGH VACCUUM EXTRACTION AND TEST HOLE METHODS, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES SHOWN OR NOT SHOWN PRIOR TO ORDERING THE STRUCTURES AND PRIOR TO BEGINNING CONSTRUCTION. SUFFICIENTLY AHEAD OF HIS CONSTRUCTION SCHEDULE. ANY AND ALL CONFLICTS WITH EXISTING FACILITIES SHALL BE REPORTED TO THE ENGINEER SUFFICIENTLY AHEAD OF CONSTRUCTION, TO ALLOW THE ENGINEER ADEQUATE RE–DESIGN TIME. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

4. CONTRACTOR TO SPOT–DIG AND LOCATE EXISTING UTILITIES AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.

5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE:
ELECTRIC POWER COMPANY
PHONE AND CABLE COMPANIES
LOCAL WATER AND SEWER UTILITY COMPANIES
LOCAL ENGINEERING DEPARTMENT(S)
FLORIDA DEPARTMENT OF TRANSPORTATION
SUNSHINE STATE ONE CALL OF FLORIDA
FOR STREET EXCAVATION OR CLOSING:
TRAFFIC SERGEANT
FIRE DISPATCH

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL LINES AND GRADES TOGETHER WITH ALL REFERENCE POINTS AS REQUIRED TO CONSTRUCT THE ITEMS SHOWN ON THESE CIVIL ENGINEERING PLANS AND UNDER THIS CONTRACT. ALL REQUIRED LAYOUT SHALL BE DONE USING A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND INSTRUMENTS AND STAKES, TEMPLATES AND OTHER MATERIAL NECESSARY FOR MARKING AND MAINTAINING ALL LINES AND GRADES. THE LINES AND GRADES SHALL BE SUBJECT TO ANY CHECKING THE OWNER OR ENGINEER OR PERMITTING AGENCY MAY DECIDE NECESSARY. NO SEPARATE COST ITEM IS PROVIDED FOR THIS WORK, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE BID PRICE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY. THIS REPAIR SHALL BE DONE AT NO EXPENSE TO THE OWNER OF THE UTILITY OR PROPERTY.

8. COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE GOVERNING UTILITY DEPARTMENT.

9. ALL PAVEMENT RESTORATION TO BE MADE IN ACCORDANCE WITH THE CITY, COUNTY OR STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS WHERE APPLICABLE.

10. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD WITH THE CERTIFICATION THAT ALL CONSTRUCTION AND MATERIALS MET OR EXCEEDS THE DESIGN AND HAS BEEN INSTALLED PER THE DRAWINGS AND/OR AS–BUILT DRAWINGS.

11. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND CONDUIT REQUIRED FOR POWER COMPANY, PHONE AND CABLE COMPANIES, IRRIGATION SYSTEM, ETC., PRIOR TO BEGINNING SUBGRADE. THE CONTRACTOR SHALL COORDINATE INSTALLATION AND/OR RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.

12. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN OVERNIGHT WITHOUT WRITTEN PERMISSION OF THE CITY OR OWNER.

13. THE CONTRACTOR MUST NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE, PRIOR TO STARTING EACH PHASE OF ANY UNDERGROUND UTILITY WORK OR PAVING AND GRADING OPERATIONS SO THAT THE PROPER INSPECTIONS MAY BE SCHEDULED.

14. THE CONTRACTOR SHALL PROVIDE EASEMENT DOCUMENTATION AROUND MANHOLES, MAINLINES, METERS, BACKFLOW PREVENTERS, ETC., AS REQUIRED BY THE CITY/UTILITY SO THAT THE OWNER MAY RECORD ANY EASEMENTS WITH THE CITY/UTILITY. THE CONTRACTOR'S REGISTERED SURVEYOR SHALL COORDINATE WITH THE CITY/UTILITY AND PROVIDE ALL NECESSARY EASEMENT DOCUMENTATION TO THE OWNER.

15. DURING ALL UNDERGROUND CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE APPROPRIATE CLEARANCES FROM ANY PROPOSED OR EXISTING OVERHEAD UTILITIES AND CONDUCTORS, AS REQUIRED BY THE PLANS, SPECIFICATIONS, UTILITY AUTHORITY, AND ANY GOVERNING AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THE APPROPRIATE CLEARANCES ARE NOT AVAILABLE.

16. THE CONTRACTOR SHALL ADJUST THE ELEVATION OF ALL EXISTING AND PROPOSED MANHOLE RIMS, CATCH BASIN GRATES, UTILITY VAULT ACCESS RIMS, VALVE BOXES AND METER EQUIPMENT VAULT RIMS TO BE FLUSH WITH THE PROPOSED FINISH GRADE.

17. EXCAVATIONS SHALL BE FREE OF WATER BEFORE PIPES ARE INSTALLED.

18. IF IT IS DETERMINED THAT UTILITY POLES REQUIRE HOLDING OR RELOCATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THEIR HOLDING AND/OR RELOCATION.

19. IN THE EVENT UNSUITABLE MATERIAL IS ENCOUNTERED AT THE DEPTH OF THE PROPOSED FACILITIES, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR PROPER DIRECTION PRIOR TO CONTINUANCE OF CONSTRUCTION.

20. EXCAVATION BY HAND IS REQUIRED FOR AREAS INACCESSIBLE TO THE MACHINE. REPAIR, REPLACEMENT, OR PROTECTION OF EXISTING UTILITIES, STRUCTURES, SIDEWALK, ETC., BY SHORING OR OTHER METHODS SHALL BE INCLUDED IN BID PRICE.

21. SURFACE MATERIAL RESTORATION SHALL BE CONSISTENT WITH THE EXISTING SURFACE. COORDINATE WITH THE ENGINEER.

22. THE EXFILTRATIONS TRENCHES MAY VARY IN LENGTH AND SIZE, OTHER THAN SHOWN ON THE PLANS, DUE TO UNFORESEEN UNDERGROUND FACILITIES.

23. SHORING MAY BE REQUIRED TO INSTALL THE PROPOSED UTILITIES, STORM DRAINAGE SYSTEM, EXFILTRATION TRENCHES, ETC. CONTRACTOR TO INCLUDE COST IN HIS BID.

M. SURVEY INFORMATION

1 SURVEY DATA - ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON *NORTH AMERICAN VERTICAL DATUM OF 1988***(SEE SURVEY).**

2. SURVEY INFORMATION BASED ON SURVEY BY: AVIROM & ASSOCIATERS, INC.
3. ALL EXISTING CONTROL POINTS AND/OR REFERENCE MARKERS SHALL BE RAISED TO FINAL GRADE. THE LOCATIONS REFERENCED AND THE WORK AREAS IN GENERAL SUCH TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT PERIOD, INCLUDING ANY TEMPORARY SUSPENSIONS OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 102 OF THE STANDARD SPECIFICATIONS AND THE STATE OF FLORIDA, MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS.

4. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

II. CONSTRUCTION SPECIFICATIONS

A. GENERAL
1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. IMPROVEMENTS SHALL GENERALLY INCLUDE, BUT NOT TO BE LIMITED TO, CLEARING, GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT, AND STORM DRAINAGE.

2. IT IS THE INTENT THAT ALL OF THE FLORIDA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' LATEST EDITION, TOGETHER WITH THE SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' AND 'FDOT STANDARD INDEXES' BE USED AND IMPLEMENTED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH FDOT'S 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' INCLUDING ALL OTHER FDOT INDEXES AND ALL OTHER FDOT SPECIFICATIONS AS THE 'STANDARD SPECIFICATIONS' AND DETAILS TO BE USED FOR THE IMPLEMENTATION AND CONSTRUCTION OF THIS PROJECT, UNLESS THERE ARE STRICTER REQUIREMENTS FROM A PERMITTING AGENCY HAVING JURISDICTION OVER THIS PROJECT. SINCE IT IS IMPOSSIBLE TO PLACE