WATER MAIN DISTRIBUTION

- ALL WATER MAINS 4" OR LARGER SHALL BE POLYVINYL CHLORIDE PIPE,SDR CLASS 150, WITH GASKET JOINTS,IN CONFORMANCE WITH A.N.S.I./A.W.W.A. C-900-97, AND A.S.T.M. D2241 AND D1869, LATEST REVISIONS. ALL WATER MAINS NOTED D.I.P. SHALL BE DUCTILE IRON PIPE IN COMPLIANCE WITH A.N.S.I./A.W.W.A. C151-02
- THE CONTRACTOR SHALL DEFLECT PIPE JOINTS AS REQUIRED FOR PROPER ALIGNMENT AS SHOWN ON PLANS, BUT SHALL NOT EXCEED OF THE PIPE MANUFACTURER'S RECOMMENDATIONS ON MAXIMUM DEFLECTION. ALL FITTINGS AND VALVES SHALL BE CLASS 150 CAST IRON WITH MECHANICAL JOINTS IN CONFORMANCE WITH A.N.S.I./A.W.W.A. C110-A21.10-03, C111/A21.11-00, C500-02, C104-03/A21.4-03, C502-05, C504-00, C506-93, C509-01.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- LL PROPOSED WATER MAINS SHALL NOT BE PLACED INTO SERVICE
 JUTIL TESTED AND APPROVED BY THE BROWARD COUNTY HEALTH
 DEPARTMENT WITH RESPECT TO BACTERIOLOGICAL ANALYSIS.
 THE CONTRACTOR SHALL PRESSURE TEST ALL WATER MAINS FOR
 CONTRACTOR SHALL PRESSURE TEST ALL WATER MAINS FOR
 CONTROMANCE WITH CITY OF COCONUT CREEK UTILITIES STANDARDS. IN THE
 PRESENCE OF THIS ENGINEER, A REPRESENTATIVE FROM CITY OF COCONUT CREEK
 JILLITIES & ENGINEERING DEPARTMENT, WHO WILL OBSERVE THE TEST. THIS
 ENGINEER SHALL BE NOTIFIED 48 HOURS IN
 ADVANCE. TESTING SHALL BE IN CONFORMANCE WITH ANSI/A.W.W.A.

 2600—05. ALLOWABLE LEAKAGE FORMULA =
- $Q = S \times D \times \sqrt{P} / 148,200$
- AFTER SUCCESSFUL PRESSURE TEST, THE MAIN SHALL BE FLUSHED AND DISINFECTED PER A.N.S.I./A.W.W.A. C651-05. MINIMUM TEST PRESSURE = 150 P.S.I. FOR ALL PRESSURE PIPE FOR TWO HOURS. WHERE:

 Q = ALLOWABLE LEAKAGE IN GPH
 S = LENGTH OF LINE IN FEET
 D = DIAMETER OF LINE IN INCHES
 P = AVERAGE TEST PRESSURE (PSI)
- DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE A REGISTERED LAND SURVEYOR DEVELOP RECORD DRAWINGS OF ALL INSTALLATIONS AND UPON COMPLETION SAID DRAWINGS SHALL BE SUBMITTED TO THIS ENGINEER. RECORD INFORMATION TO BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM THE TEST PRIOR TO CONSTRUCTION OF THE BASE IN PAVED LOCATIONS.
- ALL INSTALLATIONS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE STANDARDS OF THE CITY OF COCONUT CREEK, AND A.N.S.I./A.W.W.A.C600—05. LATEST REVISIONS.
- THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DISTURBING SURVEY MARKERS DURING CONSTRUCTION.
- UNSUITABLE MATERIAL SUCH AS MUCK, MARL, AND REMOVED FROM THE LIMITS OF CONSTRUCTION, AND A LOCATION TO BE SELECTED BY THE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CALL CITY OF COCONUT CREEK ENGINEERING & DEPARTMENT, F.P.&L., S.B.T.&T., ALL UTILITIES INVOLVED PRIOR TO TOSTART OF CONSTRUCTION. ALL ADDITIONAL UTILITIES LOCATED SHALL SHOWN ON RECORD DRAWINGS.
- A PRE—CONSTRUCTION MEETING SHALL BE ARRANGED BY THE CONTRACTOR PRIOR TO STARTING ANY WORK; THIS ENGINEER, AND CITY OF COCONUT CREEK ENGINEERING REPRESENTATIVE PRESENT.
- J. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATION OF ANY KIND THAT WILL COME UNDER THE PAVEMENT OR WITHIN 10 FEET OF ITS EDGES WILL BE INSTALLED AND ACCEPTED PRIOR TO CONSTRUCTION OF THE BASE. SUBMIT DENSITY TESTS OF COMPLETED BACKFILL MATERIAL WHERE WATER MAINS ARE LOCATED UNDER PAVEMENT. THE TEST SHALL COMMENCE AT THE TOP OF THE CONDUIT EVERY 12 INCHES TO THE BOTTOM OF THE BASE. BACKFILL SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO—T180. TESTS SHALL BE TAKEN AT 200 FEET INCREMENTS.
- SIX COPIES OF SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THIS ENGINEER PRIOR TO INSTALLATION OR FABRICATION.
- POLYETHYLENE (P.E.) PRESSURE PIPE TUBING SHALL MEET THE REQUIREMENTS OF A.N.S.I./A.W.W.A. C901-02. POTABLE WATER SERVICE WILL BE PROVIDED BY THE CITY OF COCONUT UTILITIES. CONTRACTOR TO SUPPLY DRINKING WATER DURING CONSTRUCTION.

- WHENEVER SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

 WHERE SANITARY SEWER FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPERATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

 ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

 WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
 IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL
 SEPERATION, THE WATER MAIN MUST BE LAID IN A SEPERATE TRENCH OR
 ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER
 OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER
 MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
 WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18
 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER
 MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN
 SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE
 SEWER OR FORCE MAIN (STAGGERED JOINTS).
- 20. ALL DIP SHALL BE CEMENT LINED CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.
- CLEARANCE REQUIREMENTS NOTED ABOVE APPLY TO STORM DRAINAGE MAINS AS WELL. ALL WATER MAIN ISTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320, F.A.C.

RECORD INFORMATION

- THE FOLLOWING RECORD INFORMATION SHALL BE PROVIDED CONTRACTOR AND PREPARED BY A REGISTERED LAND SUR "AS BUILT" DISTANCE OF WATER MAIN FROM PROPERTY LINE, BASE LINE, OR OTHER EASILY IDENTIFIABLE ITEM.
- ELEVATION TOP OF PIPE AT 100 FOOT INTERVALS, AND AT ALL FITTINGS AND VALVES, AND FINISHED GRADE ELEVATIONS AT THE SAME POINTS ABOVE THE MAIN. DISTANCE BETWEEN ALL FITTINGS AND VALVES, SERVICE LINES, BLOW-OFFS, FIRE HYDRANTS, SERVICE LINE TAP & END, ETC.
- TYPE OF MATERIALS INSTALLED, INCLUDING LOCATIONS OF MATERIAL DUE TO CONFLICTS, ETC. OF CHANGE
- PROVIDE LEGAL DESCRIPTION AND SKETCH OF ALL EASEMENTS. PROVIDE 1 SET OF MYLARS, 1 SET OF PAPER PRINTS CERTIFIED VIRUS FREE ELECTRONIC VERSION ON CD. "AS BUILT" SKETCHES OF ALL CONFLICTS INCLUDING, LIMITED TO, WATER MAIN CROSSING SEWER MAIN AND CROSSING STORM DRAINAGE PIPES. NEW UTILITY BUT NOT WATER MAIN AND 1
- FIELD OBSERVATIONS -

- I. AS REQUIRED BY PERMIT CONDITIONS AND/OR THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD ADVANCE TO OBSERVE THE FOLLOWING:
- WATER MAIN TRENCH PRIOR TO BACKFILL.
- PIPE JOINTS PRIOR TO BACKFILL.
- CONNECTIONS TO EXISTING WATER MAINS. THRUST BLOCK LOCATIONS PRIOR TO BACKFILI
- CONFLICTS WITH OTHER UNDERGROUND BACKFILL.
- REMOVAL OF EXISTING WATERMAINS.
- WATER MAIN PRESSURE TEST.
- FINAL OBSERVATION AT JOB COMPLETION
- A MINIMUM OF ONE FIELD OBSERVATION BY THE RECORD IS REQUIRED NEAR THE COMPLETION OF SYSTEM AND PRIOR TO OCCUPANCY, FOR DETER PERFORMANCE OF THE DESIGN.

RECORD INFORMATION

- THE FOLLOWING RECORD INFORMATION SHALL BE PROVICED CONTRACTOR AND PREPARED BY A REGISTERED LAND TYPES OF MATERIALS INSTALLED, MAINS AND SERVAS BUILT" SKETCHES OF ALL CONFLICTS INCLUDIN LIMITED TO, WATER MAIN CROSSING SEWER MAIN CROSSING STORM DRAINAGE PIPES. IDED BY THE SURVEYOR. NG, BUT NOT AND SEWER MAIN
- SEWER CLEANOUT INVERT ELEVATIONS
- "AS BUILT" MANHOLE RIM AND INVERT ELEVATIONS "AS BUILT" DISTANCE OF SEWER LINE FROM PROPLINE, OR OTHER EASILY IDENTIFIABLE ITEM. ERTY LINE, BASE
- ELEVATION TOP OF PIPE AT 100 FOOT INTERVALS, AND AT ALL FITTINGS AND VALVES, AND FINISHED GRADE ELEVATIONS AT THE SAME POINTS ABOVE THE MAIN. DISTANCE BETWEEN ALL FITTINGS AND VALVES, SERVICE LINES, BLOW-OFFS, SERVICE LINE TAP & END, ETC.

FIELD **OBSERVATIONS**

- AS REQUIRED BY PERMIT CONDITIONS AND/OR THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECONDITIONS:
- SEWER MAIN/FORCE TRENCH PRIOR TO BACKFILL.

 PIPE JOINTS PRIOR TO BACKFILL.

 SEWER LATERALS PRIOR TO BACKFILL.

 CONNECTIONS TO EXISTING SEWER MAINS, GRAVITY OR FORCE.

 CONFLICTS WITH OTHER UNDERGROUND UTILITIES PRIOR TO BACKFILL.
- MINIMUM OF ONE FIELD OBSERVATION BY TECORD IS REQUIRED NEAR THE COMPLETION STATEM AND PRIOR TO OCCUPANCY, FOR DEFREDRMANCE OF THE DESIGN. THE ENGINEER OF ON OF THE SEWER DETERMINING GENERAL

- ALL SANITARY SEWER LINES NOTED PVC SHALL BE POLYVINYL CHLORIDE PIPE, SDR 35 IN CONFORMANCE WITH A.S.T.M. D3034-74 AND SHALL BE INSTALLED IN CONFORMANCE WITH A.S.T.M. C12.77.
- ALL SANITARY SEWER SERVICE LINES SHALL BE 6 INCH DIAMETER AND TERMINATE WITH A WATERTIGHT PLUG AT THE PROPERTY LINE (U.N.O.).
- INFILTRATION/EXFILTRATION TESTS AND SEWER LINE LAMPING SHALL BE CONDUCTED BY THE CONTRACTOR AS REQUIRED BY THE STANDARDS OF THE DAVIE UTILITIES DEPT. THIS ENGINEER AND THE CITY OF COCCONUT CREEK ENGINEERING AND UTILITIES REPRESE SHALL BE NOTIFIED 48 HOURS IN ADVANCE, TO BE PRESENT FOR OBSERVING THE TEST. LAMPING SHALL BE CONDUCTED PRIOR TO CONSTRUCTION OF THE BASE IN PAVED LOCATIONS.
- DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE A REGISTERED LAND SURVEYOR DEVELOP RECORD DRAWINGS OF ALL INSTALLATIONS AND UPON COMPLETION, SAID DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD. RECORD DRAWINGS TO PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DISTURBING SURVEY MARKERS DURING CONSTRUCTION.

- ALL SEWER LINES SHALL HAVE A MINIMUM OF 36 INCHES OF COVER FOR PVC AND 30 INCHES FOR DIP.

A PRE-CONSTRUCTION MEETING WILL BE REQUIRED TO PLAN TESTING, AND DISCUSS IN GENERAL ALL REQUIREMENTS RELATED TO CONSTRUCTION. THE CONTRACTOR SHALL PREPARE ANY JOB RELATED QUESTIONS FOR THIS MEETING.

ALL LOCATIONS WHERE UNDERGROUND UTILITIES HAVE BEEN BACKFILLED UNDER PAVEMENT, DENSITY TESTS OF THE COMPLETED BACKFILL MATERIAL WILL BE REQUIRED PRIOR TO BASE COURSE INSTALLATION. A COPY OF THE TESTS SHALL BE SENT TO THE ENGINEER OF RECORD. TEST SHALL COMMENCE AT THE TOP OF CONDUIT, EVERY 12 INCHES TO BOTTOM OF BASE. BACKFILL SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO — T180. TEST TO BE SUPPLIED AT 50 FEET INCREMENTS.

RECORD INFORMATION CERTIFIED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM. RECORD INFORMATION TO BE PAID FOR BY THE CONTRACTOR.

- ALL SANITARY SEWER NOTED D.I.P. SHALL BE DUCTILE IRON PIPE IN CONFORMANCE WITH A.N.S.I./A.W.W.A. C151/A21.51—86, WITH WALL THICKNESS CLASS 50 PER A.N.S.I./A.W.W.A. C150/A21.50—81 (R86).

- ALL INSTALLATIONS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE STANDARDS OF THE THE CITY OF COCONUT CREEK ENGINEERING DEPARTMENT.
- ALL UNSUITABLE MATERIAL SUCH AS MUCK, MARL AND DEBRIS SHALL BE REMOVED FROM THE LIMITS OF CONSTRUCTION.

- SANITARY SEWER SERVICE WILL BE PROVIDED BY DAVIE UTILITIES.

PRIME COAT SHALL BE APPLIED AT A MINIMUM RATE OF 0.25 GAL./SQ. YD. USING AN RC-70, MC-30 GRADE MATERIAL.

LAND PLANNING • CIVIL • STRUCTURAL ENVIRONMENTAL • ELECTRICAL • MECHANICAL 470 S. ANDREWS AVENUE 206 POMPANO BEACH, FLORIDA 33069 (954) 942-7703
CERTIFICATE OF AUTHORIZATION • 4056
PROJECT TITLE
TEMPORARY RESIDENTIAL
MODULARS & ROAD

DeRose Design Consultants Inc.

7600 LYONS ROAD COCONUT CREEK, FLORIDA

PROJECT NUMBER R1001944.00

WIDENING

MARCH 28, 2013

CITY OF COCONUT CREEK REGULATIONS SHALL GOVERN CONSTRUCTION. WHERE APPLICABLE, CURRENT STATE STANDARDS SHALL BE IN FORCE.

ALL ELEVATIONS REFER TO N.G.V.D. DATUM.

F MUCK IS ENCOUNTERED, IT MUST BE COMPLETELY THE LIMITS OF THE PAVING, AND FULL WIDTH AND TO TWO FEET BELOW SUBGRADE/DRAINFIELD BOTTC

LY REMOVED FROM D DEPTH OF ALL DRAIN TOM ELEVATION.

THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH UNDERGROUND INSTALLATIONS OF ANY KIND THAT THE PAVEMENT OR WITHIN 10 FEET OF ITS EDGES INSTALLED, TESTED AND ACCEPTED PRIOR TO CONSTRUCTION.

1 THAT ALL

WILL COME UNDER

SHALL BE

NSTRUCTION OF THE

BEFORE CONSTRUCTION OF THE LIMEROCK BASE MA WILL BE NECESSARY FOR A CHEMICAL AND SIEVE & STOCK PILES FROM WHICH THE LIMEROCK IS TO BE ANALYSIS RESULTS SHALL BE SUBMITTED TO THE ERECORD.

AY COMMENCE, IT ANALYSIS OF THE BE SUPPLIED. ENGINEER OF

- ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHEN—
 EVER POSSIBLE.
 IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL
 SEPERATION, THE WATER MAIN MUST BE LAID IN A SEPERATE TRENCH OR
 ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER
 OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER
 MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
 WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18
 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUC—
 TED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUC—
 TED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER
 MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN
 SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE
 SEWER OR FORCE MAIN (STAGGERED JOINTS).

RECORD INFORMATION - PAVING, GRADING & DRAINAGE

THE FINISHED SURFACE OF THE BASE COURSE AND THE WEARING COURSE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED PRIOR TO PROCEEDING TO THE NEXT CONSTRUCTION STEP.

THE FOLLOWING RECORD INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR AND PREPARED BY A REGISTERED LAND SURVEYOR.

"AS BUILT" ELEVATION OF TOP OF ROCK IN PAVED LOCATIONS.
"AS BUILT" LENGTH OF DRAINFIELD INSTALLATIONS.

"AS BUILT" INVERT ELEVATIONS OF ALL DRAINAGE PIPE

"AS BUILT" RIM ELEVATIONS OF ALL DRAINAGE

STRUCTURES.

Mexico City

"AS BUILT" SWALE/RETENTION AREA SIZES AND ELEVATIONS.
"AS BUILT" PERIMETER GRADE CROSS SECTIONS-100' MAX.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CALL THE U.N.C.L.E. TOLL FREE NUMBER (1-800-432-4770) AND NOTIFY ALL UTILITIES INVOLVED PRIOR TO CONSTRUCTION. ANY ADDITIONAL UTILITIES LOCATED SHALL BE SHOWN ON RECORD DRAWINGS.
- A PRE-CONSTRUCTION MEETING SHALL BE ARRANGED BY THE CONTRACTOR PRIOR TO ANY WORK; THIS ENGINEER AND THE CITY OF COCONUT CREEK UTILITIES REPRESENTATIVE PRESENT.
- SIX COPIES OF SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO INSTALLATION OR FABRICATION.
- ALL LOCATIONS WHERE UNDERGROUND UTILITIES HAVE BEEN BACKFILLED UNDER PAVEMENT, DENSITY TESTS FO THE COMPLETED BACKFILL MATERIAL WILL BE REQUIRED PRIOR TO BASE COURSE INSTALLATION. A COPY OF THE TESTS SHALL BE SENT TO THE ENGINEER OF RECORD. TEST SHALL COMMENCE AT THE TOP OF CONDUIT, EVERY 12 INCHES TO BOTTOM BASE. BACKFILL SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO—T180. TEST TO BE SUPPLIED AT 200 FEET INCREMENTS.

SIX COPIES OF SHOP DRAWINGS OF ALL MATERIAL BE SUBMITTED TO THE ENGINEER OF RECORD FOR INSTALLATION.

BEING USED SHALL APPROVAL PRIOR TO

Pierce Goodwin Alexander & Linville

SWM PERMIT SUBMITTAL 5.13.13

AS-BUILT" DRAWINGS OF TOP OF ROCK ELEVATIONS SHALL BE SUBMITTED TO THIS ENGINEER AND THE CITY OF COCONUT CREEK PRIOR TO ASPHALT PLACEMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER SHOWN OR NOT ON PLANS. CONTRACTOR SHALL CALL CITY OF COCONUT CREEK UTILITIES DEPARTMENT, F.P.&L., S.B.T.&T., AND NOTIFY ALL UTILITIES INVOLVED PRIOR TO CONSTRUCTION. ANY ADDITIONAL UTILITIES FOUND SHALL BE SHOWN ON RECORD DRAWINGS.

[T] 561.988.4002 [F] 561.988.3002

ONSULTANT

SUITE 400 BOCA RATON, FLORIDA 33487

791 PARK OF

COMMERCE BLVD

- 14. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

 WHERE SANITARY SEWER FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPERATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

 ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

 WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.

FIELD OBSERVATION -

PAVING, GRADING

& DRAINAGE

AS REQUIRED BY PERMIT CONDITIONS AND/OR CONTRACTOR SHALL NOTIFY THE ENGINEER OF ADVANCE TO OBSERVE THE FOLLOWING:

THE OWNER, THE RECORD 48 HOURS IN

THE CONTRACTOR SHALL REMOVE ALL DITHE CONSTRUCTION SITE.
ORGANICS, MUCK, OR SIMILAR MATERIAL

LANDSCAPED AREAS.

- LIMEROCK BASE SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. CONTRACTOR SHALL SUBMIT DENSITY TEST RESULTS PRIOR TO ASPHALT PLACEMENT. PROVIDE ONE TEST FOR EVERY 8000 SQUARE FEET OF AREA TO BE PAVED, 8 TESTS MINIMUM.

SWM PERMIT

[T] 954.247.0011 [F] 954.247.0012

RCHITECT

NORTH BROWARD PREPARATOR'
7600 LYONS ROAD
COCONUT CREEK, FLORIDA
33073

 Γ SUBMITTAL

OWNER

. SUBGRADE SHALL BE COMPACTED AND STABILIZED TO DENSITY AS DETERMINED BY AASHTO—T180, WITH A DENSITY TEST RESULTS SHALL BE SUBMITTED TO THE TO PLACING THE LIMEROCK. A MINIMUM OF 8 TESTS BY THE ENGINEER.

BY THE ENGINEER.

LIMEROCK SHALL MEET THE REQUIREMENTS OF THE TO DAVIE ENGINEERING DEPARTMENT.

TOWN OF

ED TO 98% OF MAXIMUM H A MIN. L.B. OF 40. O THE ENGINEER OF RECORD PRIOR TESTS ARE REQUIRED AS DIRECTED

- TYPE S—3 ASPHALTIC CONCRETE SURFACE COURSE REQUIREMENT OF SECTION 333 OF THE 1996 D.O.T. SPECIFICATIONS.
- REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM SPECIFICATIONS, DESIGNATION C76-79 TABLE III, WALL B, OR LATEST REVISION THEREOF AND SECTION 941 OF THE 1982 D.O.T. SPECIFICATIONS. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND RUBBER GASKETS.

CORRUGATED ALUMINUM PIPE SHALL MEET THE SECTION 945 OF THE 1982 D.O.T. STANDARD SF (OR LATEST REVISION THEREOF).

REQUIREMENTS

ALL CONCRETE SHALL DEVELOP STRENGTH AT 28 DAYS.

A MINIMUM OF 3000 PSI COMPRESSIVE

- SHALL MEET THE . STANDARD

Know what's below.
Call before you dig. Atlanta

NOTES

9 OF 10

Austin To the best of my knowledge, the plans and specifications comply with the applicable minimum building codes and applicable minimum life safety standards COPYRIGHT © 2013

FINAL OBSERVATION AT JOB COMPLETION.

, MINIMUM OF ONE FIELD OBSERVATION BY RECORD IS REQUIRED NEAR THE COMPLETIC GRADING AND DRAINAGE SYSTEM AND PRIODETERMINING GENERAL PERFORMANCE OF T

FINISHED ASPHALT.

COMPACTED BASE COURSE.
PRIME COAT PRIOR TO ASPHALT

COMPACTED SUBGRADE.

CONFLICTS WITH OTHER UNDERGROUND BACKFILL.

UTILITIES PRIOR TO

INLETS PRIOR TO BACKFILL

PIPE JOINTS PRIOR TO BACKFILL.

DRAINAGE TRENCHES PRIOR TO BACKFILL.

DRAINFIELD INSTALLATIONS PRIOR TO

Boca Raton DATE:
3 Design Job # 13057

Boston

CENSED ENGINEER NO. 20169 STATE OF FLORIDA

.AWRENCE DOROSE,

Houston

Las Vegas

SUBMITTAL PHASE /
SET DESCRIPTION

DRC SITE PLAN MODIFICATION

DESIGNER LDR

CHECKED BY

DRAWN BY

SHEET TITLE