# PAVING GRADING & DRAINAGE MODIFICATION PLANS: PARKING LOT ADDITIONS AND FLATWORK IMPROVEMENTS

TOWNIOMES AT 214 NE 4TH STREET DELRAY BEACH, FLORIDA 33444

**FOR** 

WFL LAND, L.L.C. 15620 S.W. 77TH AVEUNE PALMETO BAY, FLORIDA 33157

BY

JOHN A. GRANT, JR., INC. 3333 NORTH FEDERAL HIGHWAY BOCA RATON, FLORIDA 561-395-3333

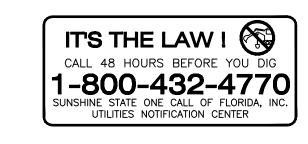
FOR PERMIT PURPOSES ONLY

BY DATE

PROJECT NO JG100-9738

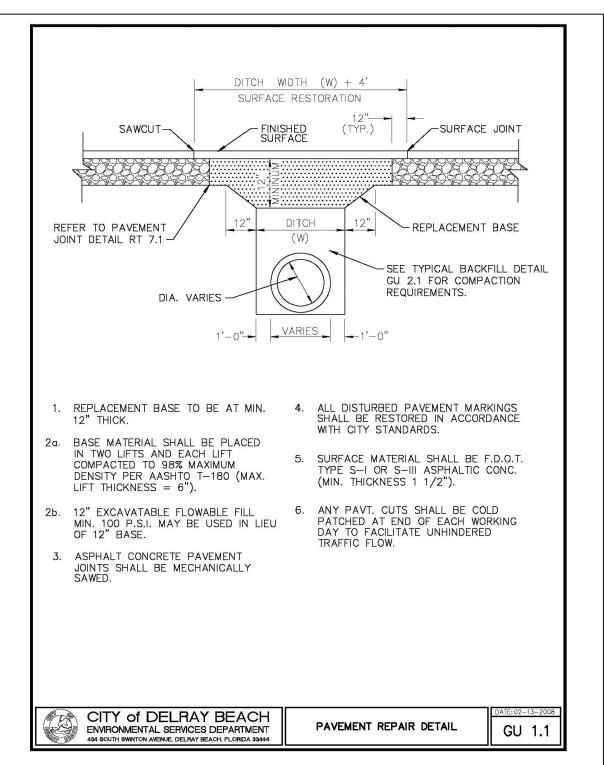
COVER SHEET GENERAL NOTES & DRAINAGE DETAILS PAVING DETAILS & SPECIFICATIONS WATER AND SEWER DETAILS & SPECIFICATIONS SITE DEMOLITION PLAN STORMWATER POLLUTION PREVENTION PLAN PAVING, GRADING & DRAINAGE STRIPING AND SIGNAGE PLAN WATER AND SEWER PLAN

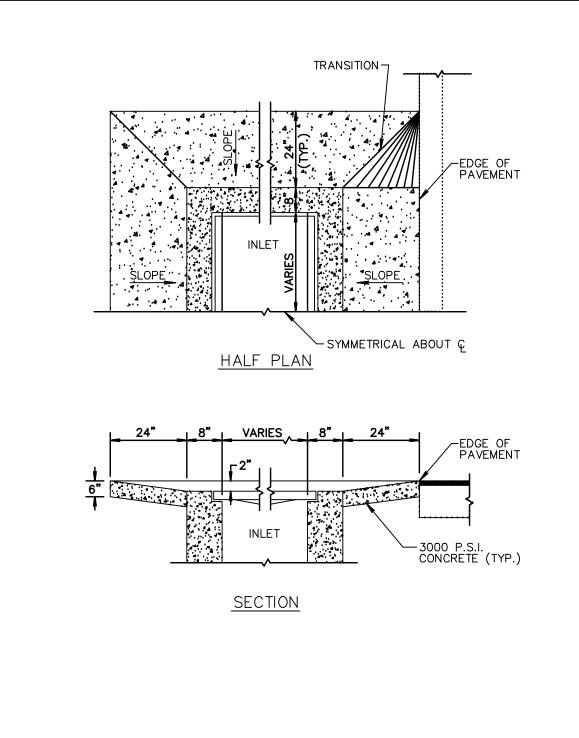
REVISED AS PER TAC COMMENTS



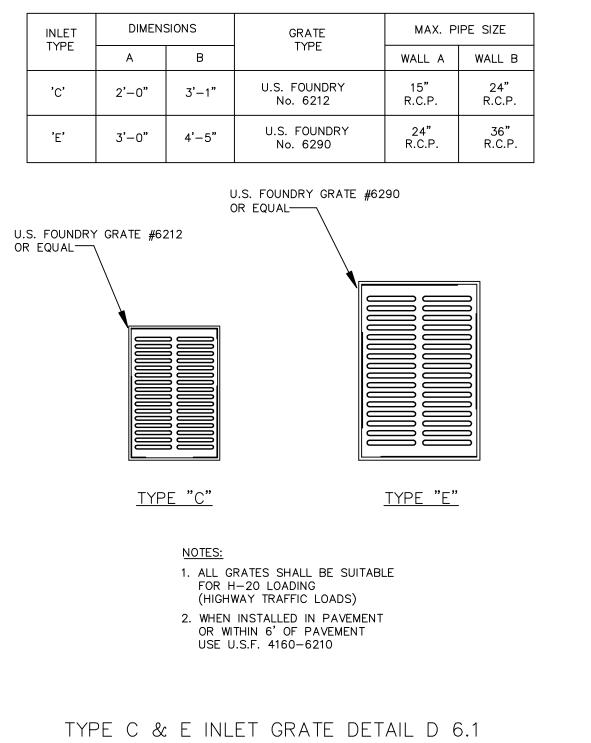
THOMAS F. LUBANOVIC Registered Engineer No. 56659 State of Florida

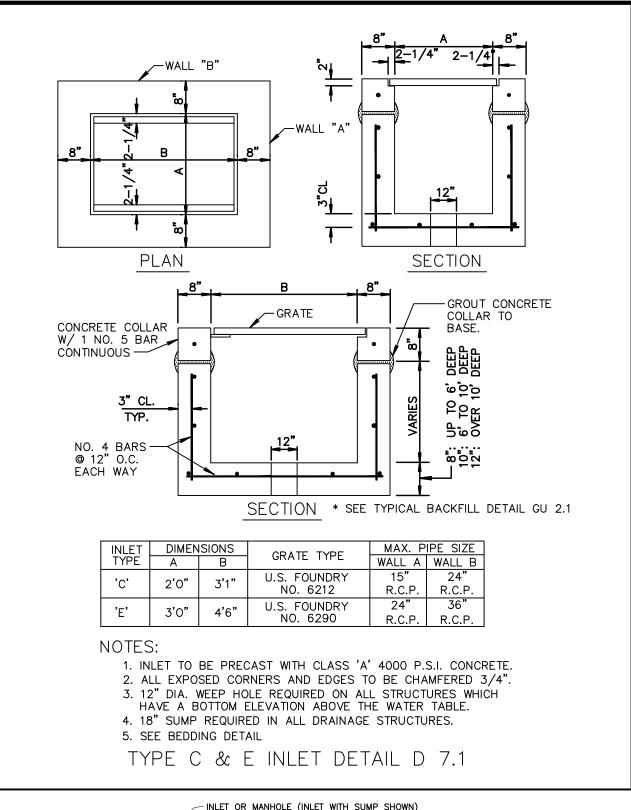
AKE IDA ROAD (NE 4TH STREET)





INLET APRON DETAIL D 5.1



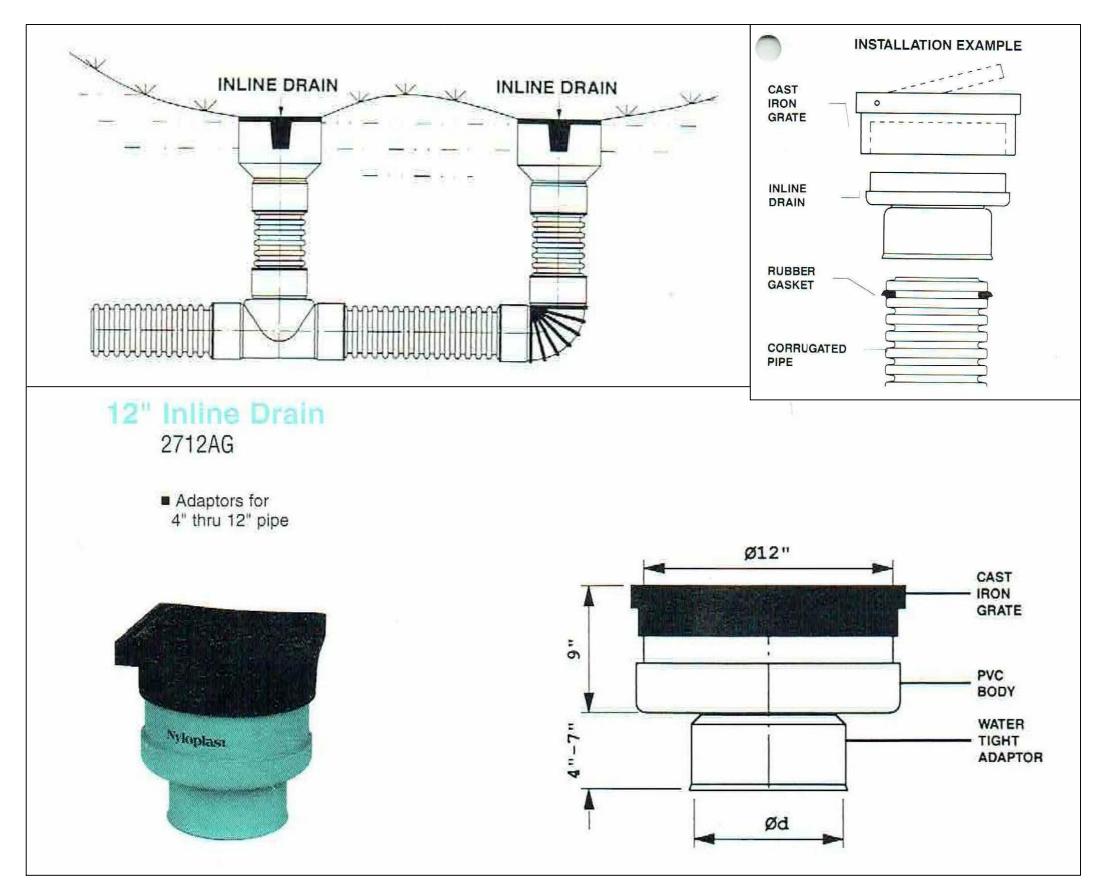


- SCOPE: WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR FOR GRADING, PAVING AND DRAINAGE. COMPLETE AND READY FOR USE AS PER DRAWINGS AND AS SPECIFIED HEREIN. ALL WORK SHALL BE CONSTRUCTED IN A WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE REGULATIONS AND PERMITS OF THE CITY OF DELRAY BEACH, PALM BEACH COUNTY, THE FLORIDA STATE DEPARTMENT OF TRANSPORTATION, ALL LOCAL CODES AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION WITHIN THE LIMITS OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE FACILITIES AND BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, BUILDINGS AND UTILITIES UNDER GROUND, ON THE SURFACE, OR ABOVE GROUND, AGAINST TRENCHING, DEWATERING OR ANY OTHER ACTIVITY CONNECTED WITH THE CONSTRUCTION OF THIS PROJECT DURING THE CONSTRUCTION PERIOD AND PROTECT AND PRESERVE THE OWNER HARMLESS AGAINST ALL CLAIMS FOR SUCH DAMAGE.
- 3. EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- 4. GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- 5. ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- WRITTEN DIMENSIONS SHALL HAVE PREFERENCE OVER SCALED DIMENSION.
- 7. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI, UNLESS OTHERWISE NOTED.
- 8. ALL REINFORCING SHALL BE DEFORMED STEEL.
- 9. PAVING AND GRADING
- SUBGRADE SHALL BE COMPACTED TO 98% DRY DENSITY AS DETERMINED BY
- BASE SHALL CONSIST OF APPROVED LOCAL LIMEROCK COMPACTED TO 98% OF MAXIMIUM DENSITY AS DETERMINED BY AASHTO T-180.
- PRIME COAT SHALL BE CUT BACK ASPHALT OR TAR APPLIED AT A RATE OF NOT LESS THAN 0.10 GAL. PER SQUARE YARD OVER COMPLETE AND DRY BASE COVERED WITH CLEAN SAND AND ALLOWED TO CURE FOR A MNIMUM OF 72
- D. GRADING SHALL CONFORM TO THE GRADES ON THE PLANS.
- E. MUCK OR PEAT SHALL BE COMPLETELY REMOVED AS DIRECTED BY THE ENGINEER 10. DRAINAGE
- A. EXCAVATION AND BACKFILL
- THE CONTRACTOR SHALL DO ALL EXCAVATION OF WHATEVER SUBSTANCES ENCOUNTERED TO A DEPTH SHOWN ON DRAWINGS.
- EXCAVATED MATERIALS NOT REQUIRED FOR BACKFILL SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- TRENCH EXCAVATION FOR MANHOLES AND INLETS SHALL BE DEWATERED. DEWATERING SHALL BE A CONTINUOUS OPERATION AND SHALL NOT BE INTERRUPTED OR DISCONTINUED UNTIL BACKFILLING IS COMPLETED.
- AFTER PIPE HAVE BEEN LAID AND APPROVED THE TRENCHES SHALL BE BACKFILLED AND COMPACTED WITH CLEAN SAND FREE OF ORGANIC MATERIAL.
- UNSUITABLE SUBGRADE: IN CASE THE SOIL CONDITIONS ENCOUNTERED AT GRADE LINE OF THE PIPE TRENCH ARE FOUND TO BE UNSUITABLE FOR THE PIPE. THE UNSTABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED SUITABLE BEDDING MATERIALS AND STABILIZED AS DIRECTED BY THE ENGINEER. MATERIAL USED FOR REPLACEMENT SHALL BE SUITABLE EARTH, SAND, GRAVEL, CRUSHED LIMEROCK OR OTHER MATERIAL SPECIFICALLY APPROVED BY THE ENGINEER. THE ENGINEER SHALL DETERMINE THE DEPTH, WIDTH, AND LENGTH OF EXCAVATION REQUIRED FOR PROVIDING SUITABLE

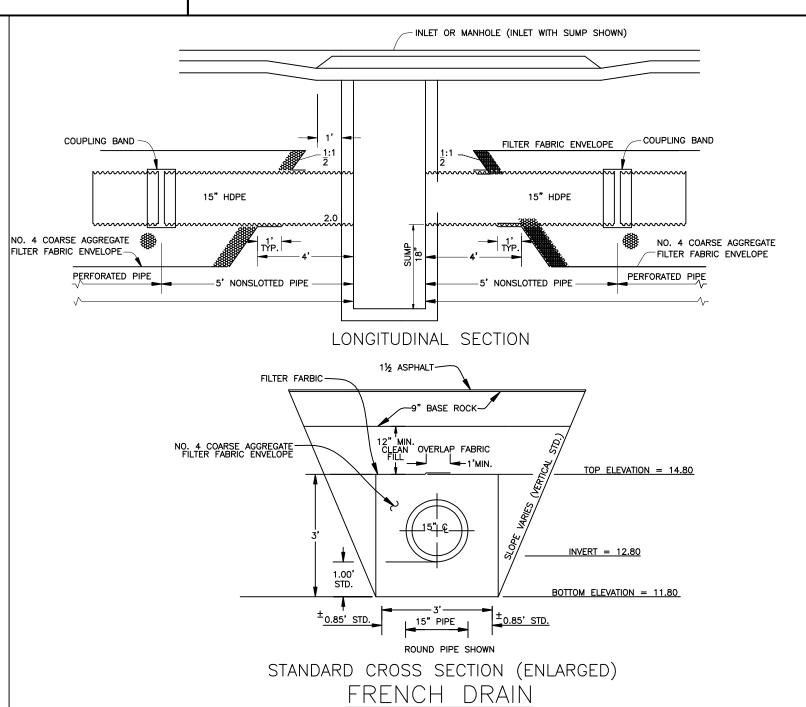
#### 11. PIPE MATERIALS

EROSION CONTROL AND TO CONTAIN SILT.

- HDPE TO BE INSTALLED PURSANT TO APPLICABLE REQUIREMENT INCLUDING, BUT NOT LIMITED TO FDOT SECTION 430, ASTM F-477, AASHTO M-294 AND MANUFACTURERS RECOMMENDATIONS, STANDARDS AND SPECIFICATIONS.
- 12. IT IS THE INTENT OF THESE PLANS TO PROVIDE THE DEVELOPER WITH CONSTRUCTION OF IMPROVEMENTS THAT ARE ACCEPTABLE TO THE CITY OF DELRAY BEACH, PALM BEACH COUNTY AND/OR OTHER GOVERNMENTAL AGENCIES. ALL WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE GOVERNMENTAL
- 13. SILT FENCE TO BE PLACED AS REQUIRED ADJACENT TO ALL PROPERTY LINES FOR







FRENCH DRAIN GENERAL NOTES

- 1. PIPE SHALL BE ANY OF THE OPTIONAL TYPE PERMITTED IN SECTION 443 OF THE SPECIFICATIONS UNLESS OTHERWISE RESTRICTED IN THE PLANS. DISSIMILAR TYPES OF PIPE WILL NOT BE PERMITTED IN A CONTINUOUS RUN OF PIPE.
- 2. CONCRETE PIPE SHALL BE PLACE WITH THE SLOTS POSITIONED ON SIDE.
- 3. ALIGNMENT JOINTS ARE STANDARD ( GASKET NOT REQUIRED ). RECORRUGATION OF METAL PIPE ENDS NOT REQUIRED.
- 4. THE CONTRACTOR MAY SUBMIT OTHER METHODS OF PROVIDING SLOTS HAVING EQUAL OR GREATER AREA OF OPENING, FOR APPROVAL BY THE ENGINEER.
- 5. FILTER FABRIC SHALL BE SUBSURFACE DRAINAGE TYPE MEETING THE REQUIREMENTS OF SECTION 985. ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF ONE (1) FOOT.
- 6. THE STANDARD CROSS SECTION SHALL BE CONSTRUCTED UNLESS OTHER SECTION(S) DESCRIBED OR DETAILED IN THE PLANS.
- 7. FOR SUPPLEMENTAL DETAILS SEE INDEX NO. 280. 8. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE
- TRENCH WITH SAND, SILT AND FOREIGN MATERIALS. 9. THE 12" DIAMETER WEEP HOLE SHALL BE ELIMINATED, WHEN THE BOTTOM OF INLET IS
- BELOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOW IN THE PLANS. 10. FRENCH DRAINS FOLLOWING THE TYPICAL CROSS SECTION SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FRENCH DRAINS, LF. THE UNIT PRICE SHALL INCLUDE THE COST OF PIPE, PIPE PLUGS, PIPE FITTINGS, COARSE AGGREGATE AND FILTER FABRIC IN PLACE, AND THE COST FOR TRENCH EXCAVATION, BACKFILL AND COMPACTION. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR DISPOSAL OF SURPLUS EXCAVATED MATERIALS AND COST FOR RESTORATION OF PAVEMENT REMOVED OR DAMAGED BY FRENCH DRAIN CONSTRUCTION, BUT SHALL NOT INCLUDE PAYMENTS FOR ITEMS
- PAID FOR FLSEWHERE. FRENCH DRAINS WITH A SIGNIFICANTLY DIFFERENT CROSS SECTION SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICES FOR SEPARATE ITEMS AS FOLLOWS.
  - (A) SLOTTED OR PERFORATED PIPE CULVERT, LF. UNIT PRICE SHALL INCLUDE COST FOR PIPE, PIPE PLUGS AND FITTINGS IN PLACE.
- (B) BALLAST ROCK ( FRENCH DRAINS AGGREGATE), CY. UNIT PRICE SHALL INCLUDE COST FOR COARSE AGGREGATE IN PLACE, AND COST FOR TRENCH EXCAVATION, BACKFILL AND COMPACTION. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR DISPOSAL OF SURPLUS EXCAVATED MATERIALS AND COST FOR RESTORATION OF PAVEMENT REMOVED OR DAMAGED BY FRENCH DRAIN CONSTRUCTION, BUT SHALL NOT INCLUDE PAYMENT FOR ITEMS PAID FOR
- (C) PLASTIC FILTER FABRIC (SUBSURFACE) , SY. UNIT PRICE SHALL BE FOR COST OF FABRIC IN PLACE, QUANTITY SHALL BE DETERMINED BY PLAN NEAT DIMENSIONS OF THE FABRIC ENVELOPE.

NO. REVISION BY DATE

> **GENERAL NOTES & DRAINAGE DETAILS**

**TOWNHOMES AT** 214 NE 4TH STREET DELRAY BEACH, FL 33444

JOHN A. GRANT, JR., INC. CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY BOCA RATON, FLORIDA 33431 PH. NO. 561-395-3333 FAX NO. 561-395-3315

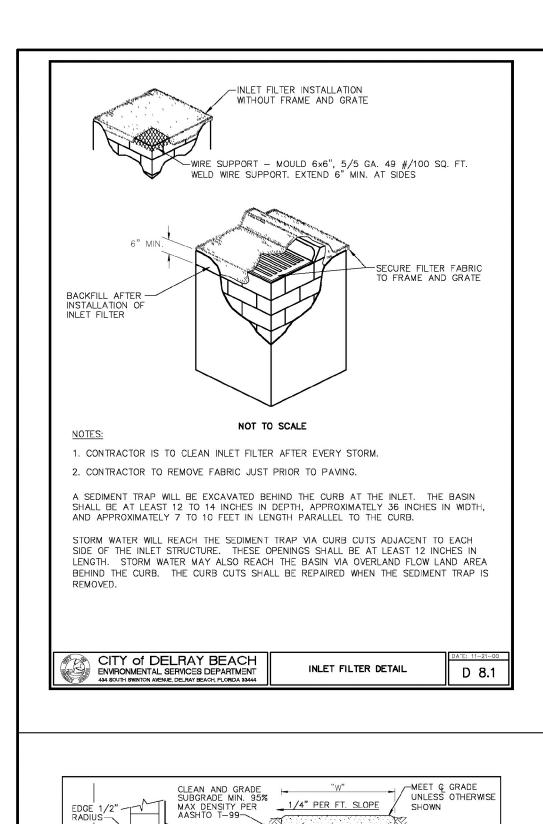
LICENSED BUSINESS NO. LB 50 MADE <u>AE</u> DATE <u>FEB 2018</u> F.B. <u>N/A</u> PG \_\_ CHECKED \_\_\_\_\_ DATE \_\_\_\_ | SCALE \_\_\_\_1" = 10' JOB NO. <u>JG-100-9738</u> SHEET <u>C2</u> OF <u>9</u>

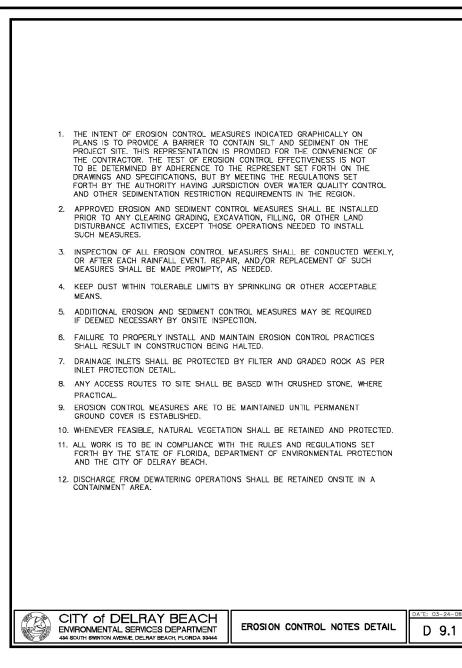
IT'S THE LAW! -800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC UTILITIES NOTIFICATION CENTER

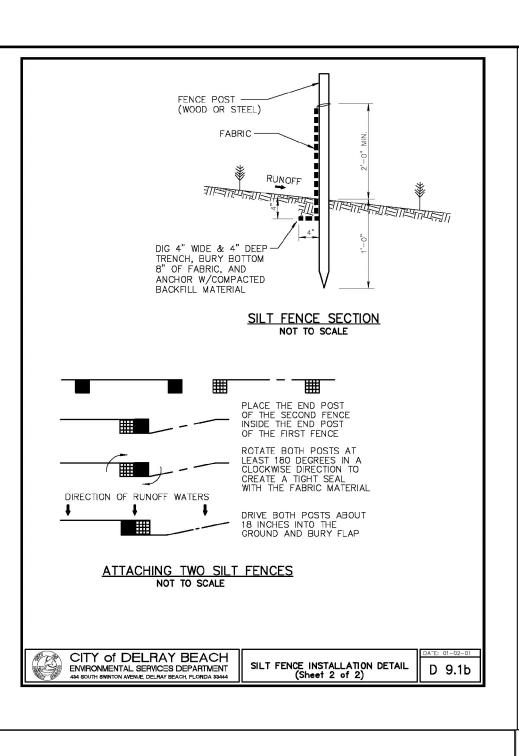
Thomas F. Lubanovic Professional Engineer No. 56659 John A. Grant, Jr., Inc. 3333 N. Federal Hwy., Ste. 3 Boca Raton, FL 33431

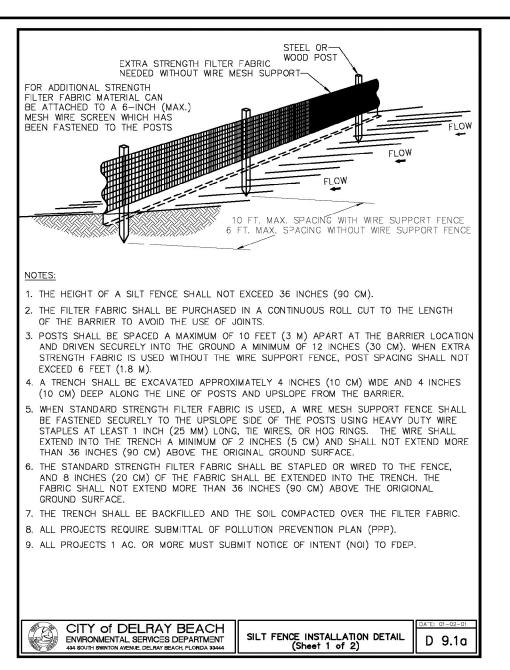
Certificate of Authorization No. LB 50

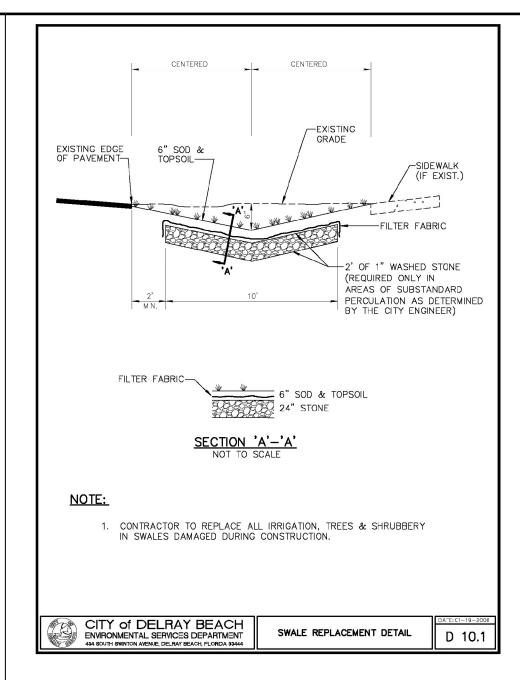
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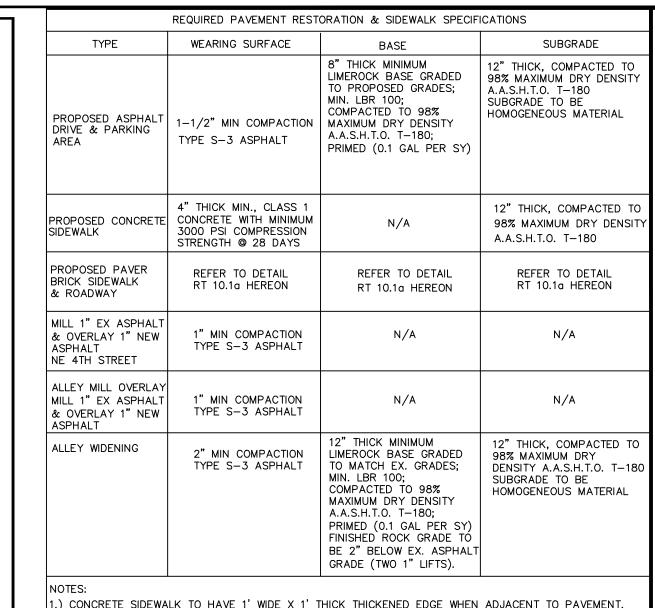




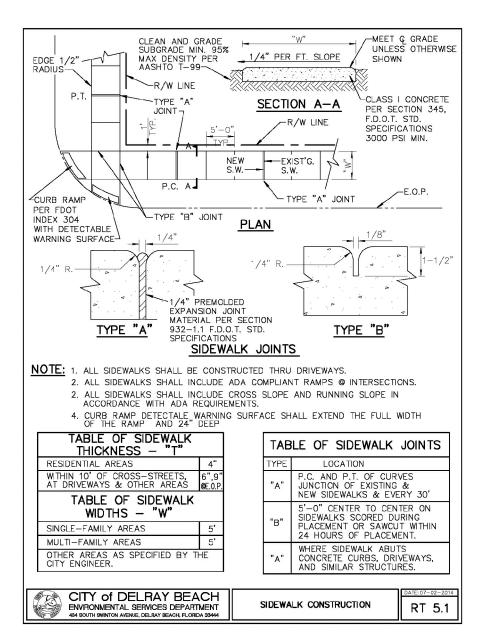


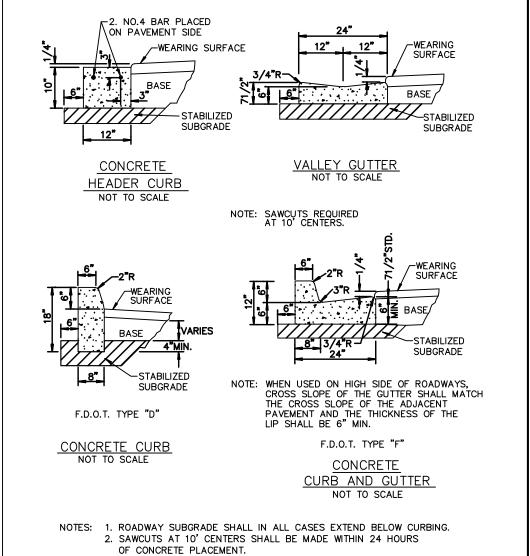




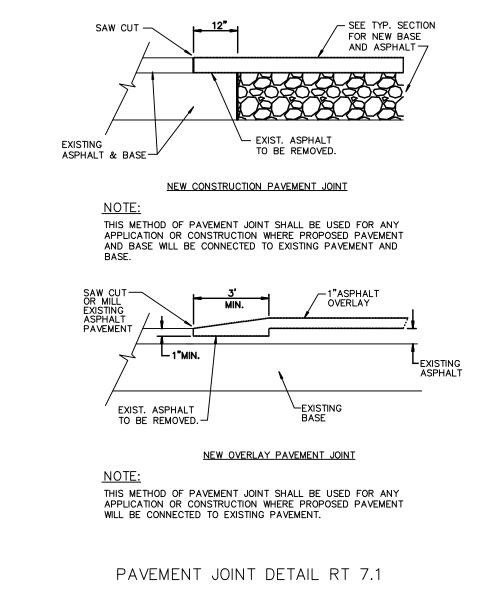


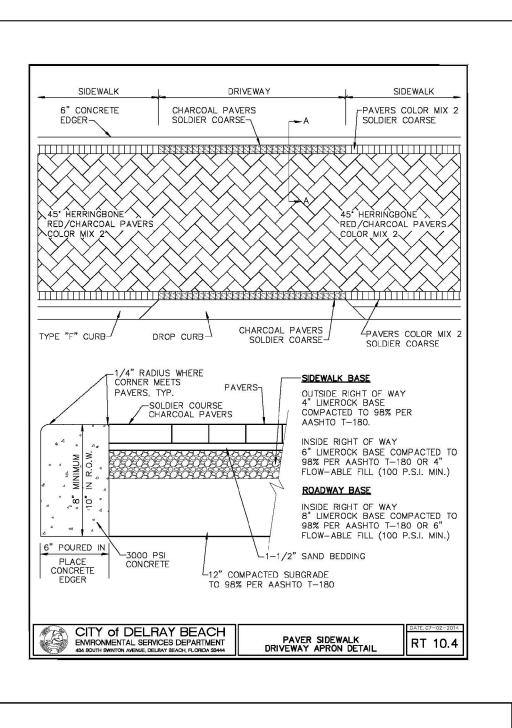
I.) CONCRETE SIDEWALK TO HAVE 1' WIDE X 1' THICK THICKENED EDGE WHEN ADJACENT TO PAVEMENT. .) SAWCUT & STEP JOINT EXISTING ASPHALT WHERE RESTORED PAVEMENT MEETS EXISTING ASPHALT. REQUIRED PAVEMENT & SIDEWALK SPECIFICATIONS

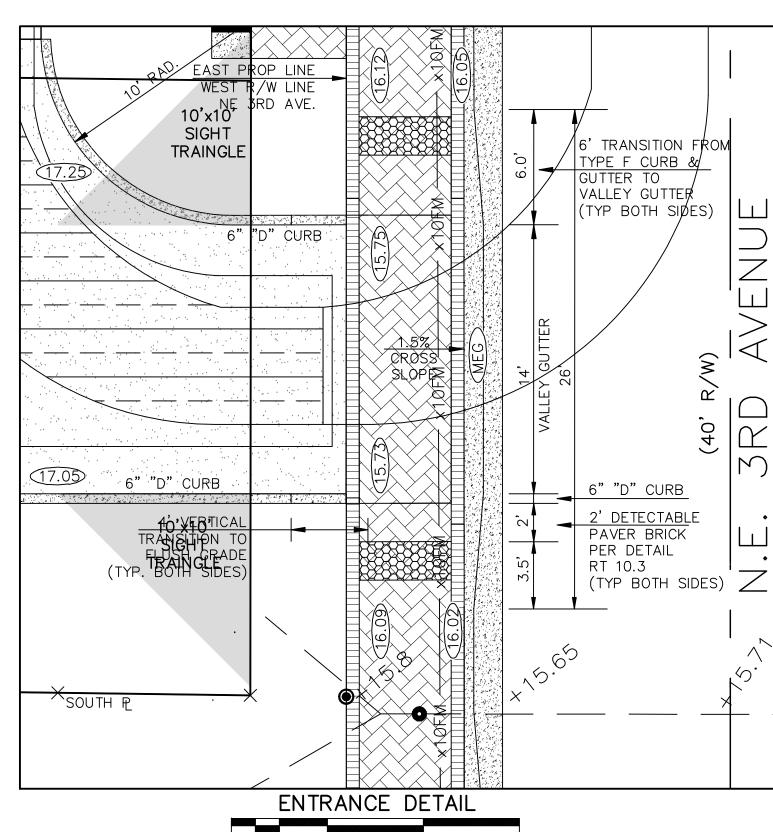


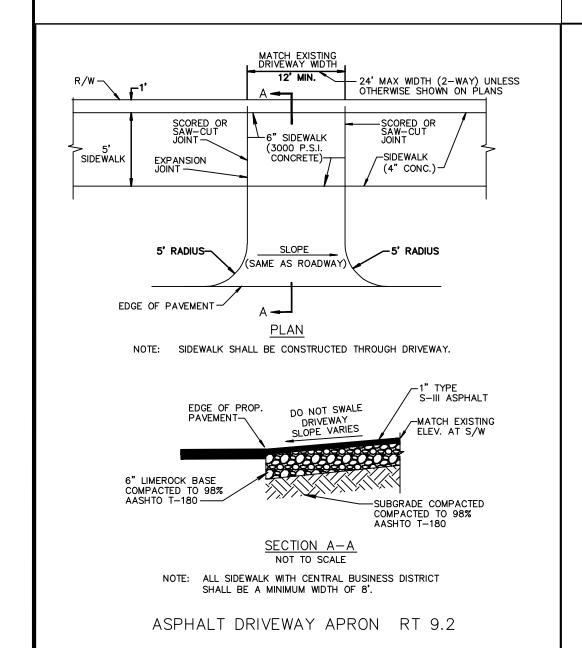


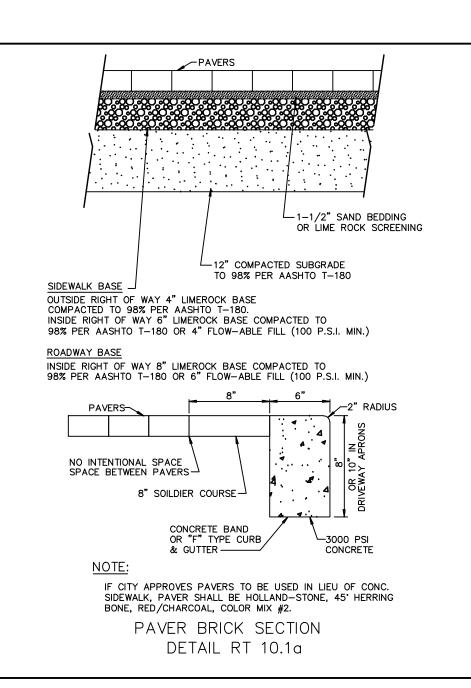
CURB AND GUTTER SECTIONS RT 6.1

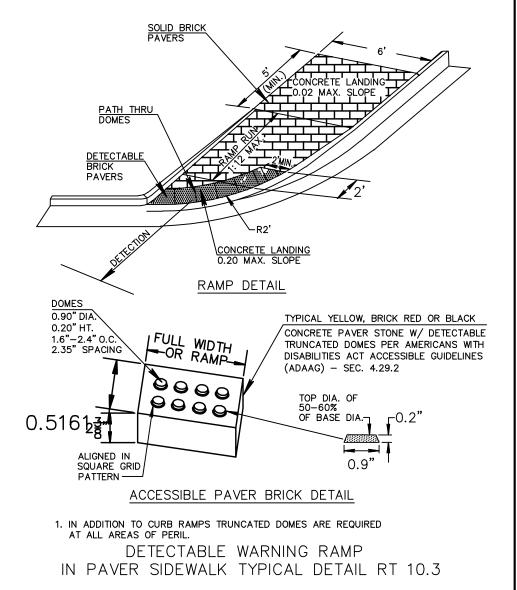


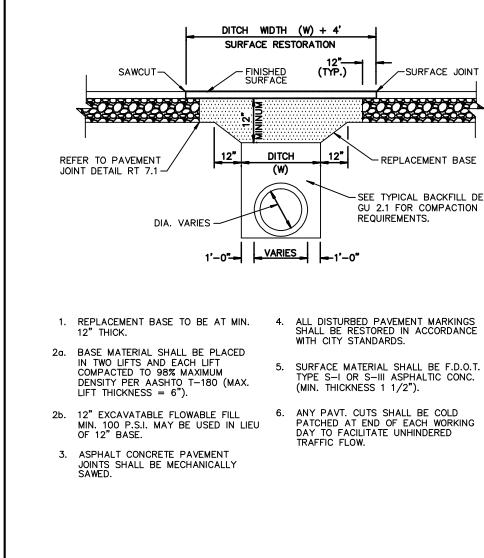




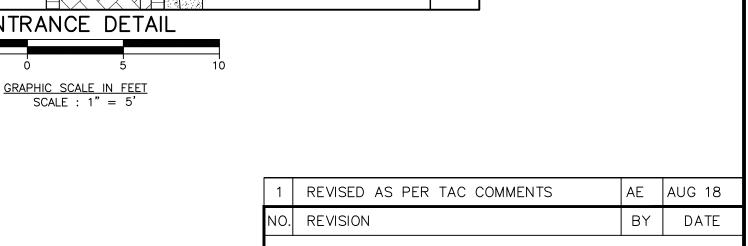








PAVEMENT REPAIR DETAIL GU 1.1



Thomas F. Lubanovic	
Professional Engineer No. 56659 John A. Grant, Jr., Inc.	PH. NO
3333 N. Federal Hwy., Ste. 3	MADE A
Boca Raton, FL 33431	CHECKED

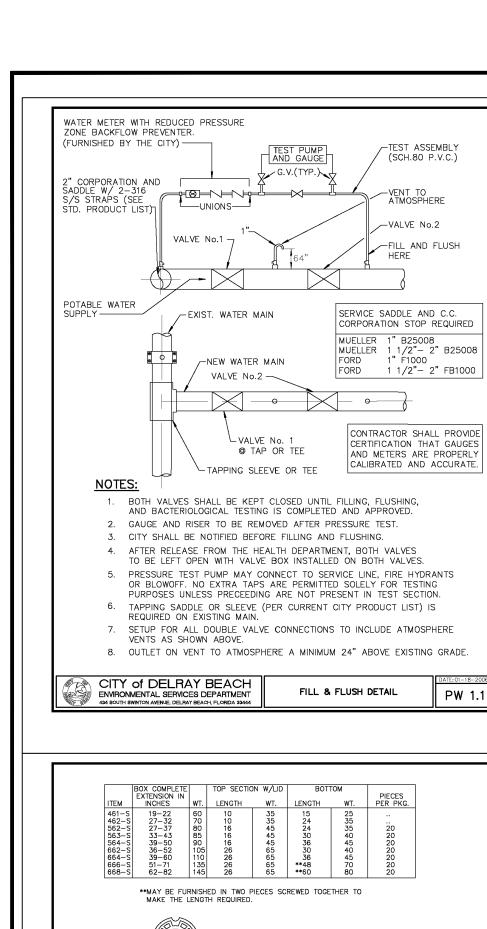
**TOWNHOMES AT** 214 NE 4TH STREET DELRAY BEACH, FL 33444 JOHN A. GRANT, JR., INC. CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY

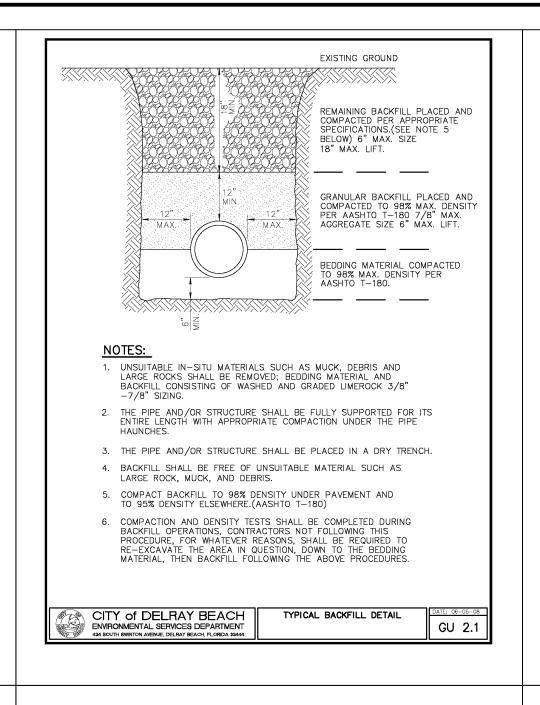
SWPPP, PAVING DETAILS, &

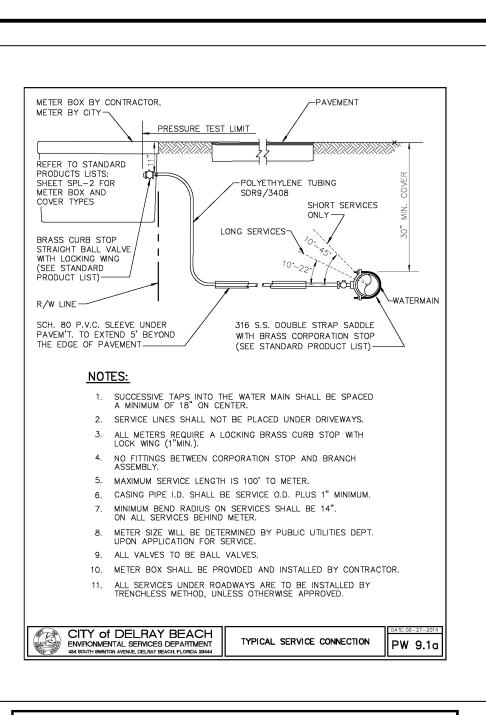
**SPECIFICATIONS** 

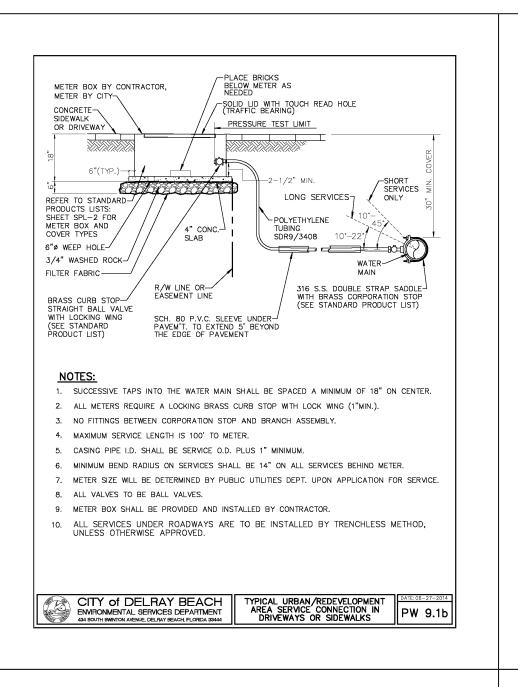
BOCA RATON, FLORIDA 33431 O. 561-395-3333 FAX NO. 561-395-3315 LICENSED BUSINESS NO. LB 50 <u>AE</u> DATE <u>FEB 2018</u> F.B. <u>N/A</u> SCALE 1" = 10"\_\_\_\_ DATE \_\_\_ Certificate of Authorization No. LB 50 JOB NO. JG-100-9738 SHEET C3 OF

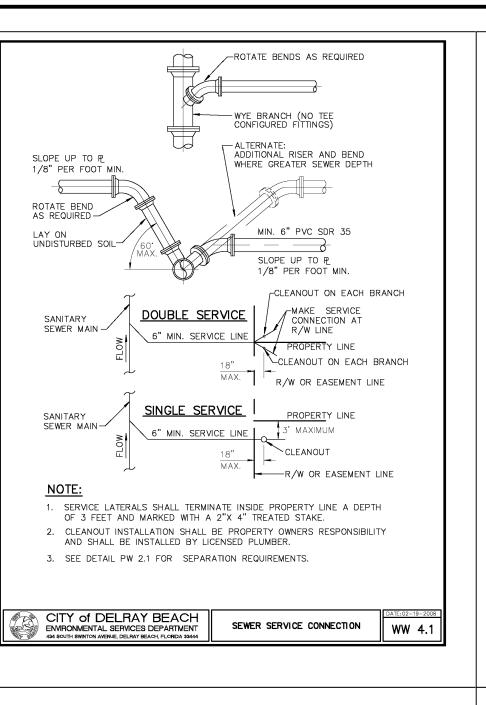
IT'S THE LAW! 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, IN UTILITIES NOTIFICATION CENTER

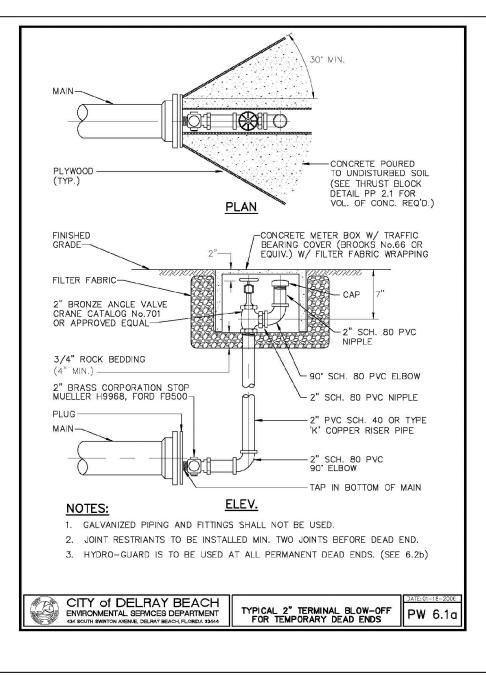


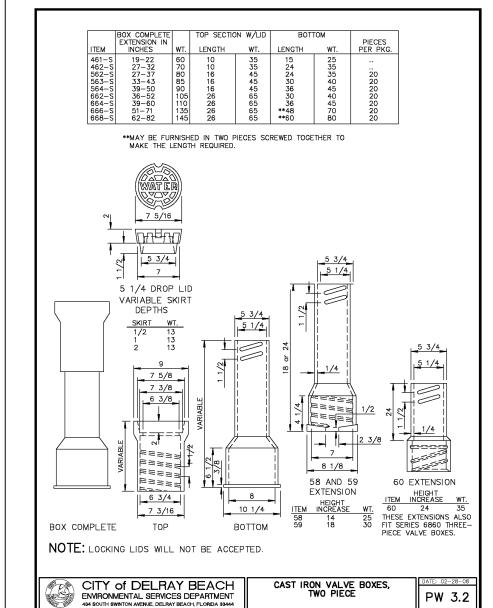


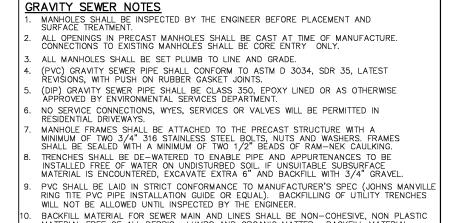












O PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE

OF THE INTRODUCED INTO AN EXISTING MANHOLE MUST HAVE CARBOLINE BITUMASTIC 300M OR APPROVED EQUAL APPLIED EXTERNALLY WITHIN A MINIMUM 2-FOOT RADIUS OF OPENING AND THE ENTIRE MANHOLE MUST HAVE SEWPER COAT OR APPROVED EQUAL APPLIED INTERNALLY.

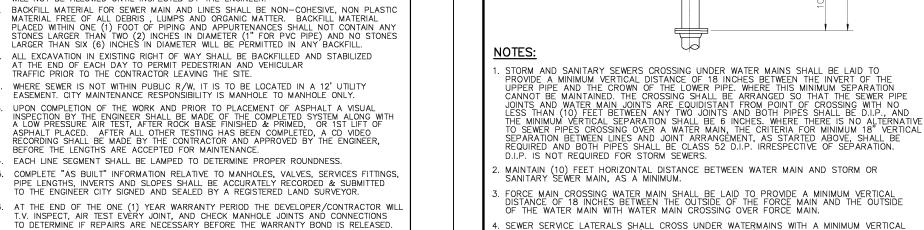
ANY REHABILITATION TO AN EXISTING MANHOLE MUST BE INTERNALLY STRIPPED AND LINED WITH SEWPER COAT OR APPROVED EQUAL.

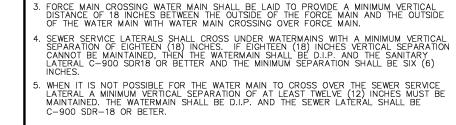
GRAVITY SEWER NOTES

OF 10-FEET FROM ANY EXISTING OR PROPOSED SANITARY SEWER FACILITY.

CITY of DELRAY BEACH

ENVIRONMENTAL SERVICES DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444





WATER MAIN & SEWER CONFLICT

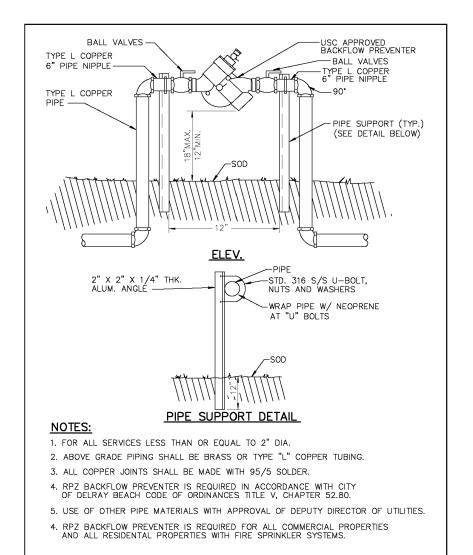
PW 2.1

10'-0" 10'-0"

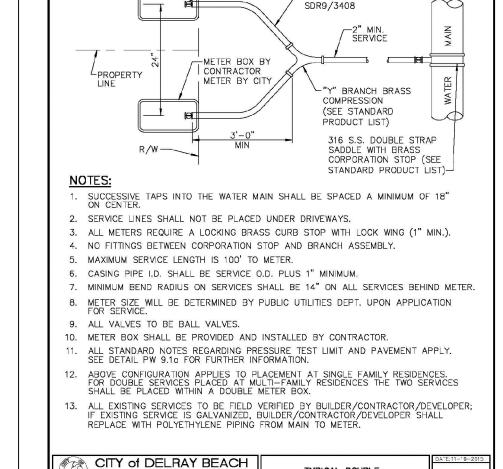
18" MIN.✓

SANITARY/STORM SEWER MAIN-

ENVIRONMENTAL SERVICES DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444



CITY of DELRAY BEACH



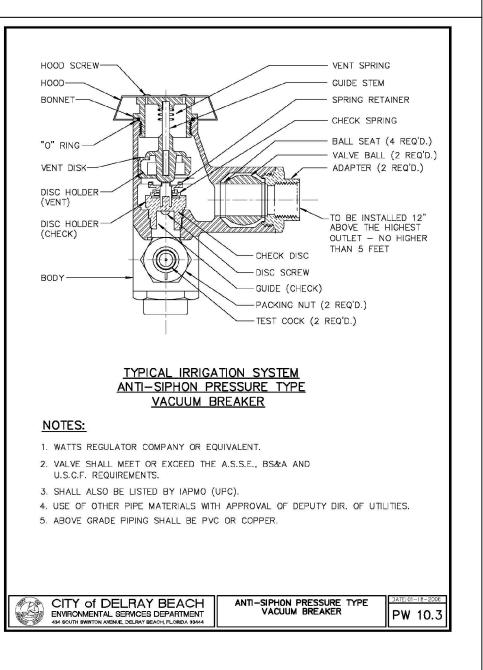
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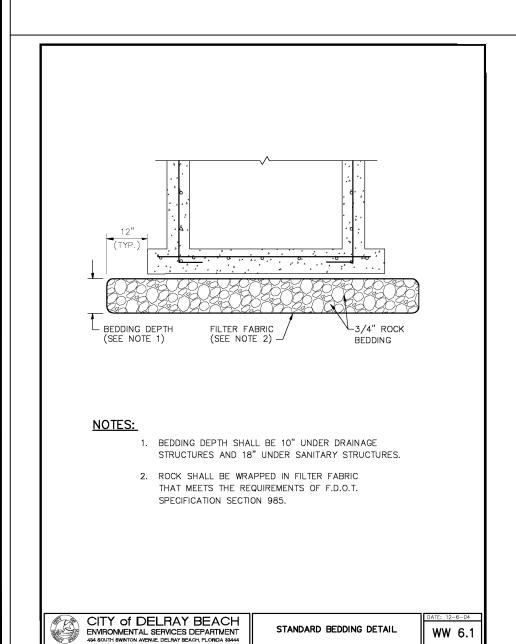
SPL-2 FOR METER BOX AND COVER TYPES

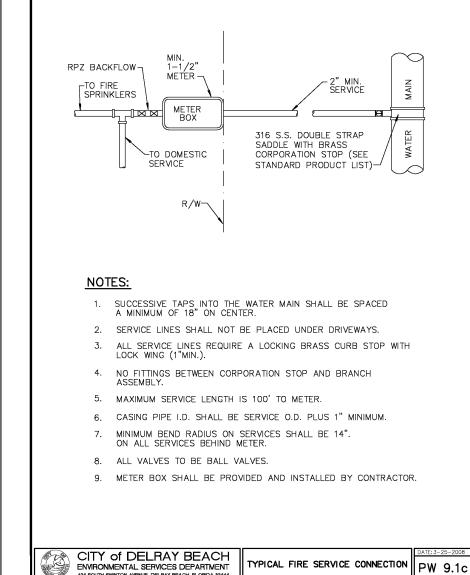
STRAIGHT BALL VALVE WITH LOCKING WING (SEE

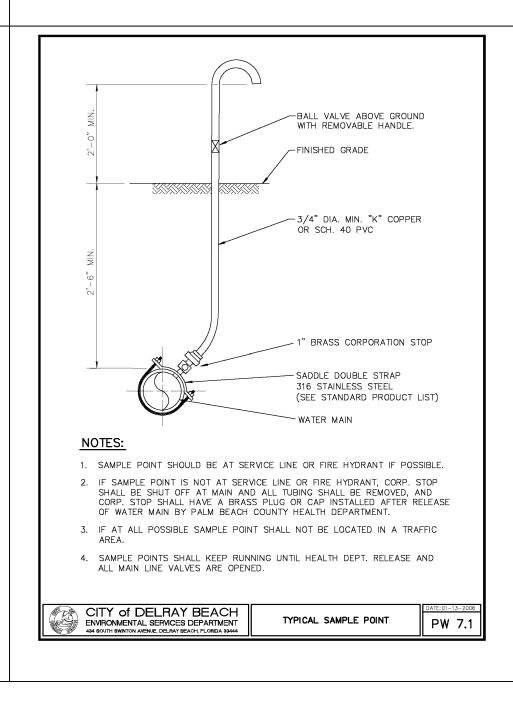
- POLYETHYLENE TUBING

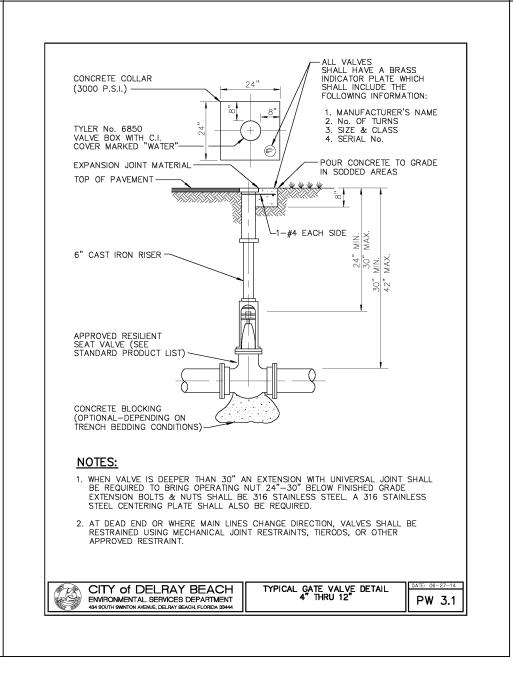
TYPICAL DOUBLE SERVICE CONNECTION



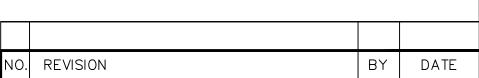












## WATER AND SEWER **DETAILS**

**TOWNHOMES AT** 214 NE 4TH STREET DELRAY BEACH, FL 33444

JOHN A. GRANT, JR., INC. CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY BOCA RATON, FLORIDA 33431 PH. NO. 561-395-3333 FAX NO. 561-395-3315 LICENSED BUSINESS NO. LB 50

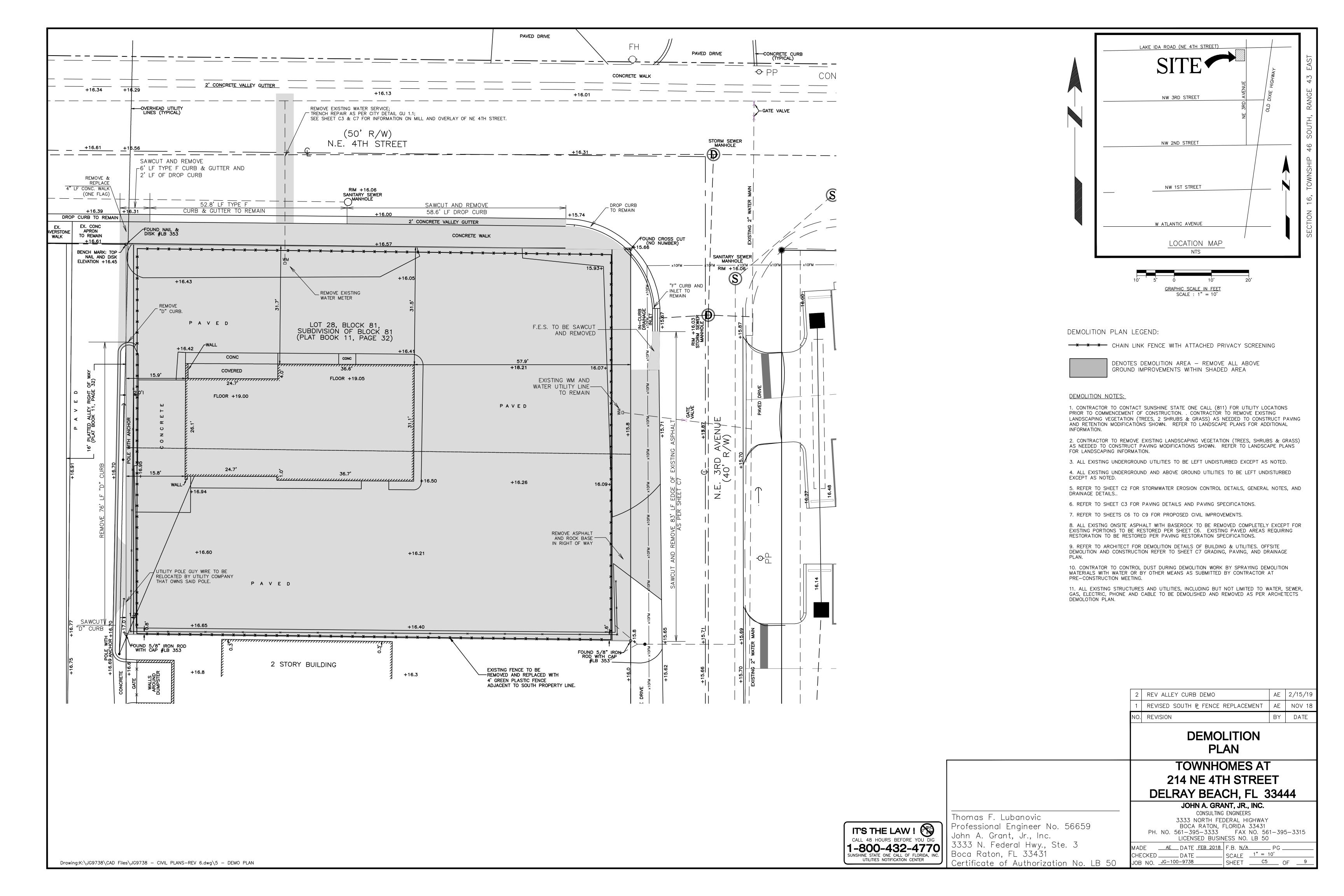
MADE <u>AE</u> DATE <u>FEB 2018</u> F.B. <u>N/A</u> PG \_\_ CHECKED \_\_\_\_\_ DATE \_\_\_\_\_ SCALE \_\_\_\_1" = 10'\_\_ JOB NO. <u>JG-100-9738</u> SHEET <u>C4</u> OF <u>9</u>

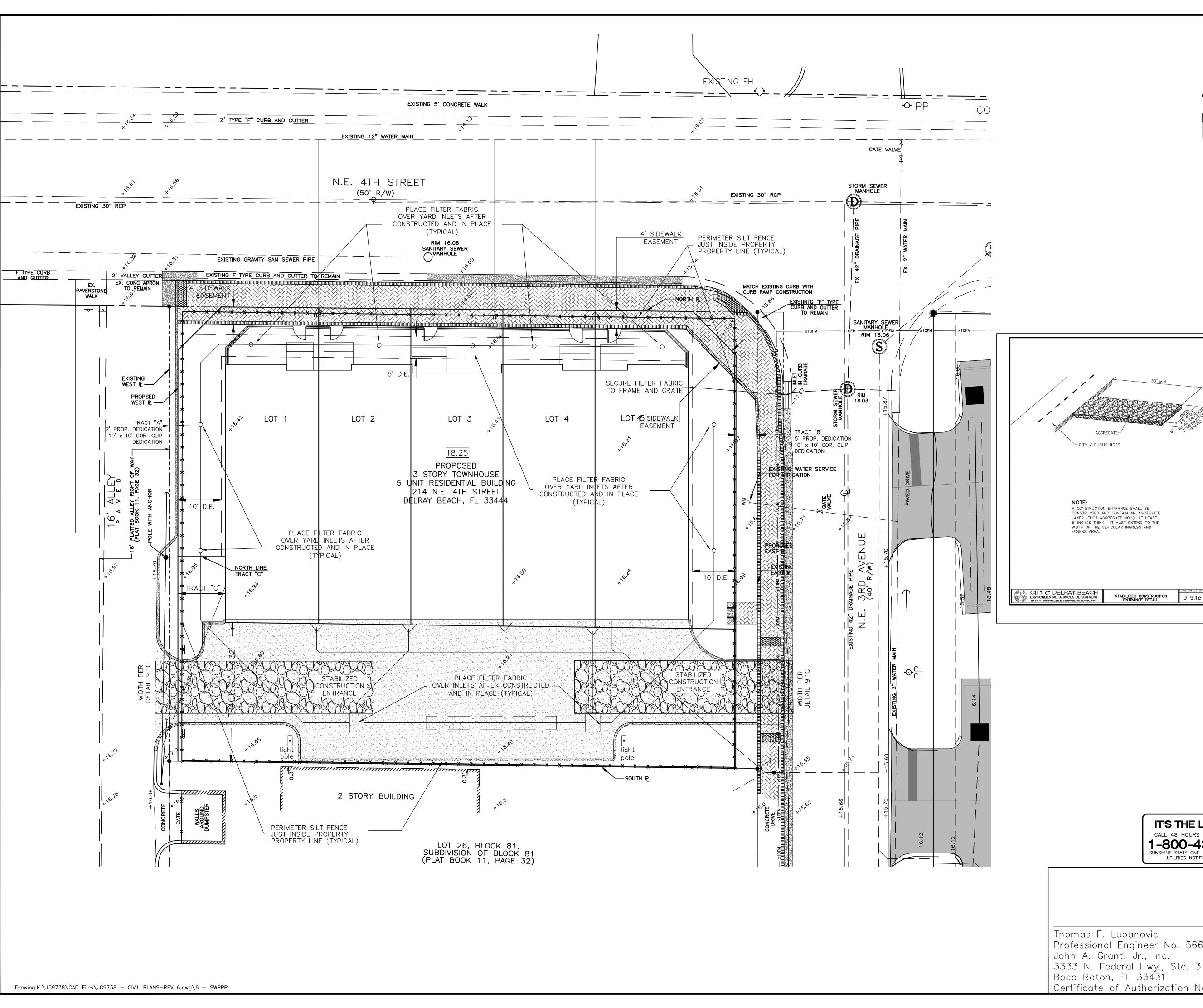
UTILITIES NOTIFICATION CENTER

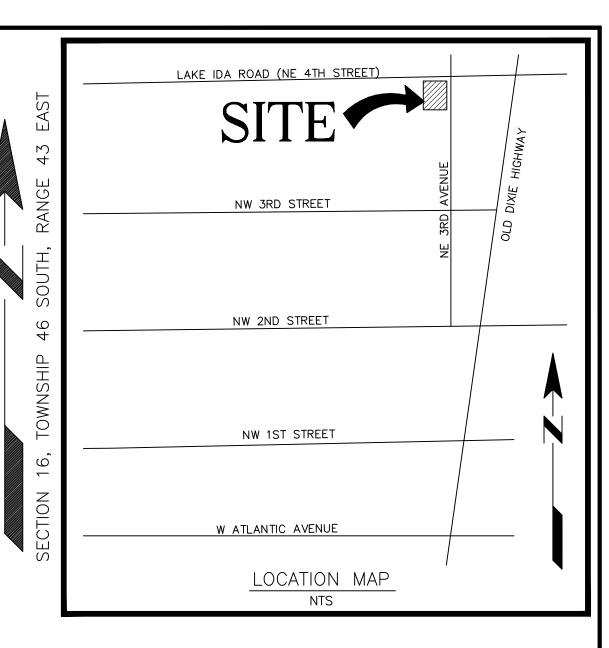
Professional Engineer No. 56659 John A. Grant, Jr., Inc. 3333 N. Federal Hwy., Ste. 3 Boca Raton, FL 33431 Certificate of Authorization No. LB 50

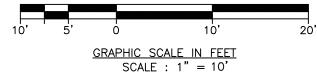
Thomas F. Lubanovic

Drawing:K:\JG9738\CAD Files\JG9738 - CIVIL PLANS-REV 6.dwg\4 - WATER AND SEWER DETAILS









GENERAL NOTES:

1. CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL (811) FOR UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. REFER TO SHEET C3 FOR CROSS SECTIONS & DETAILS.

3. ELEVATIONS SHOWN HEREON ARE BASED ON VERTICAL DATUM N.A.V.D. 1988.

5. HOUSE FLOOR ELEVATIONS SHOWN HERON DENOTE FINISHED SURFACE ELEVATIONS.

6. GARAGE ELEVATIONS SHOWN HEREON DENOTE FINISHED SURFACE ELEVATIONS INSIDE THE GARAGE.

7. THE WATER METER SIZE IS DETERMINED BY THE CITY OF DELRAY BEACH UTILITY DEPARTMENT. SEE SHEET C4, DETAIL PW 9.1a FOR TYPICAL SERVICE CONNECTION.

8. INLET FILTERS SHALL BE INSTALLED ATOP NEWLY INSTALLED YARD DRAINS AS REQUIRED PER DETAIL D 8.1 SHOWN ON SHEET C2. SILT FENCING TO BE INSTALLED AROUND LOT BOUNDARY AS

9. CONSTRUCT CONCRETE SIDEWALK PER DETAIL RT 5.1 ON SHEET

REQUIRED PER DETAILS D 9.1a & D 9.1b SHOWN ON SHEET C4.

#### STORMWATER POLLUTION PREVENTION PLAN NOTES:

1. CONTRACTOR TO SECURE FILTER FABRIC TO EXISTING INLETS AND TO PROPOSED INLETS (YARD DRAINS) ONCE INSTALLED PER DETAIL D 8.1 SHOWN ON SHEET C2.

2. CONTRACTOR TO ADJUST THE SILT FENCE AS REASONABLY NECESSARY TO ACCESS THE SUBJECT PROPERTY.

3. CONTRACTOR TO PLACE STABILIZED CONSTRUCTION ENTRANCE PER DETAILS D9.1C & D 10.1 ON SHEET C4.

ERIOSION CONTROL NOTES:

1. PROPOSED PAVING IMPROVEMENTS ARE SHOWN ABOVE. REFER TO SHEET 5 FOR SITE DEMOLITION PLAN.

2. CONTRACTOR TO REMOVE EXISTING LANDSCAPING VEGETATION (TREES, SHRUBS & GRASS) AS NEEDED TO CONSTRUCT PAVING MODIFICATIONS SHOWN. RÉFER TO LANDSCAPE PLANS FOR LANDSCAPING INFORMATION.

3. ALL EXISTING UNDERGROUND UTILITIES TO BE LEFT UNDISTURBED EXCEPT AS NOTED.

4. PERIMETER SILT FENCE SHOWN ABOVE IS ATOP THE PROPERTY LINE. SILT FENCE LOCATIONS MAY CHANGE BASED UPON CONSTRUCTION PHASING AND MAINTENANCE OF TRAFFIC BUT SHALL ALWAYS BE INSTALLED ALONG ALL LIMITS OF ACTIVE CONSTRUCTION AREAS PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES.

	3	REV PROP. LINE & BLDG AT N.E. COR.	ΑE	2/15/19
	2	REVISED TRACT "C"	AE	NOV 18
	1	REVISED AS PER TAC COMMENTS	AE	SEP 18
$\Box$	NO.	REVISION	BY	DATE
		·		

IT'S THE LAW! CALL 48 HOURS BEFORE YOU DIG 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA UTILITIES NOTIFICATION CENTER

### STORMWATER EROSION **CONTROL NOTES & DETAILS**

#### **TOWNHOMES AT** 214 NE 4TH STREET DELRAY BEACH, FL 33444

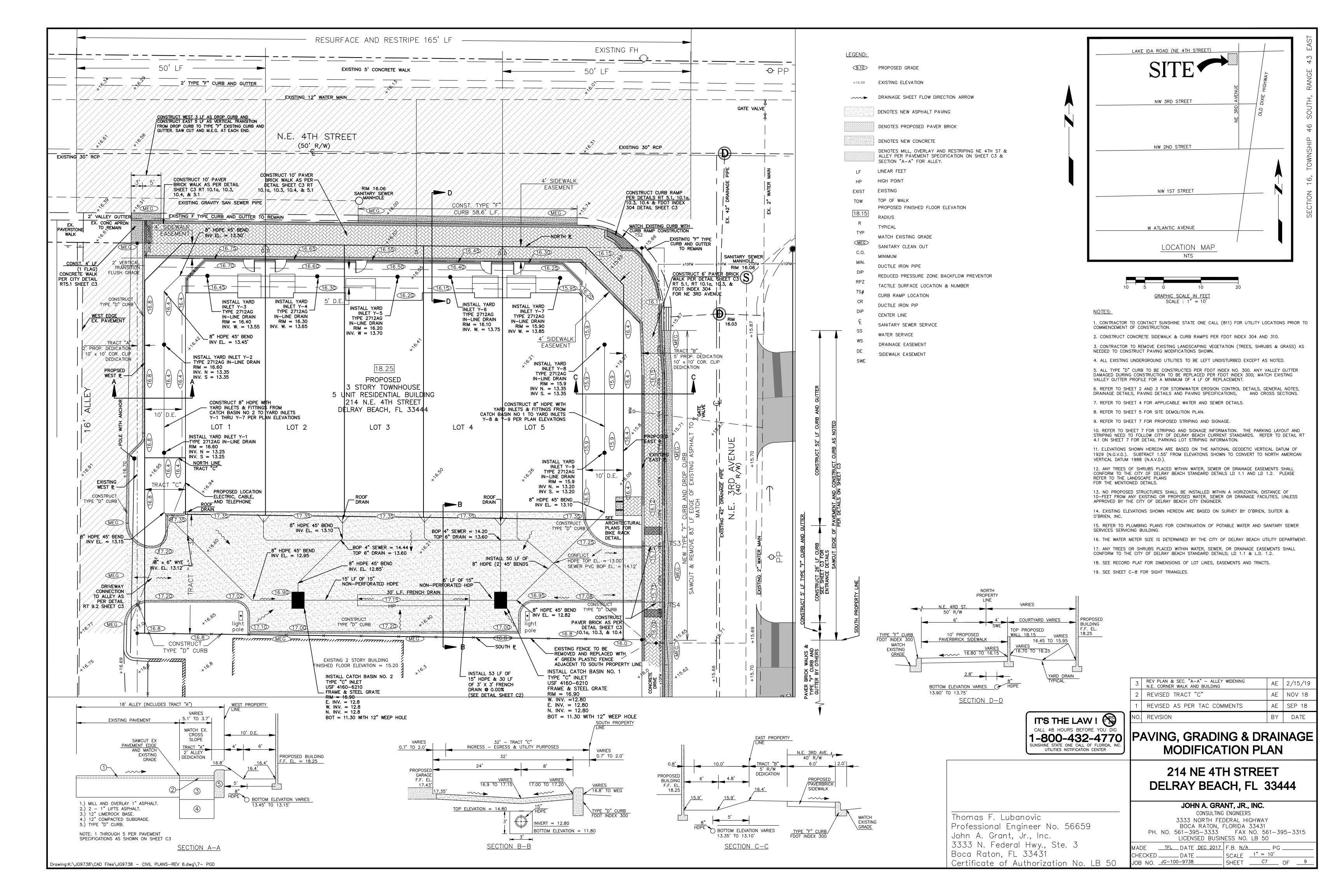
JOHN A. GRANT, JR., INC. CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY

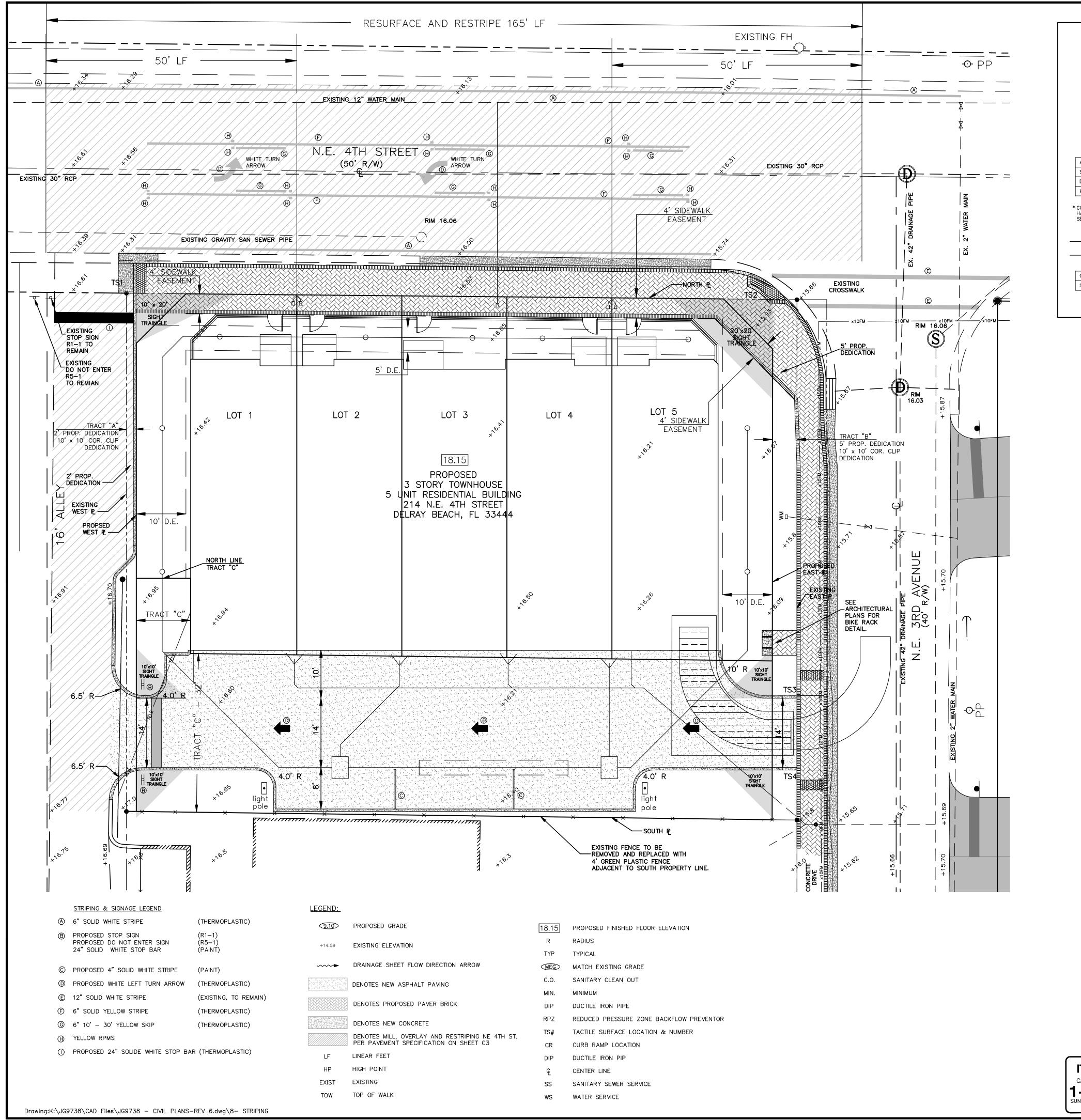
BOCA RATON, FLORIDA 33431

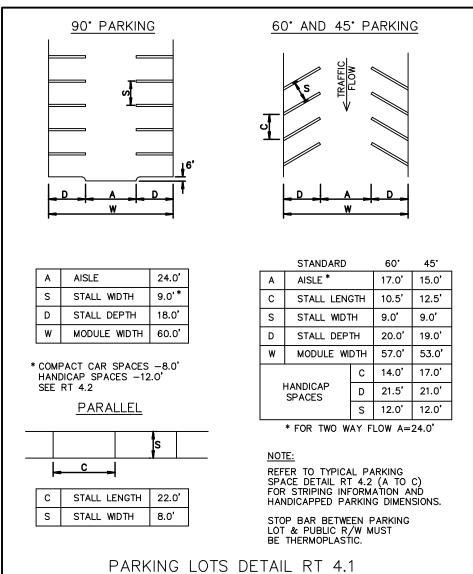
PH. NO. 561-395-3333 FAX NO. 561-395-3315 LICENSED BUSINESS NO. LB 50

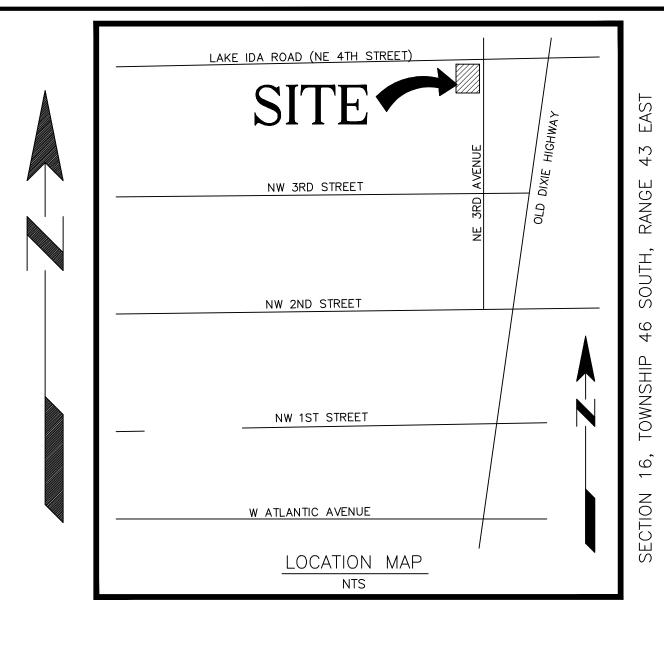
MADE	AE DATE	FEB 2018	F.B. <u>N/A</u>	PG		
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1000					•	

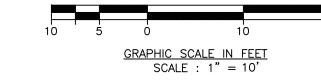
Professional Engineer No. 56659 John A. Grant, Jr., Inc. 3333 N. Federal Hwy., Ste. 3 Boca Raton, FL 33431 Certificate of Authorization No. LB 50











#### **STRIPING NOTES:**

DESIGN STANDARDS".

1. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH FDOT INDEX 17346 AND THE CITY OF DELRAY BEACH TRAFFIC ENGINEERING STANDARDS. 2. MAINTENANCE OF TRAFFIC FOR ALL PROPOSED IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND "ROADWAY AND TRAFFIC

3. REFER TO DETAIL RT 4.1 AND DETAIL RT 4.2a ON SHEET 4 FOR DETAIL PARKING LOT STRIPING INFORMATION.

#### NOTES:

1. CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL (811) FOR UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. CONSTRUCT CONCRETE SIDEWALK & CURB RAMPS PER FDOT INDEX 304 AND 310. 3. CONTRACTOR TO REMOVE EXISTING LANDSCAPING VEGETATION (TREES, SHRUBS & GRASS) AS NEEDED TO CONSTRUCT PAVING MODIFICATIONS SHOWN.

4. ALL EXISTING UNDERGROUND UTILITIES TO BE LEFT UNDISTURBED EXCEPT AS NOTED.

5. ALL TYPE "D" CURB TO BE CONSTRUCTED PER FDOT INDEX NO. 300. ANY VALLEY GUTTER DAMAGED DURING CONSTRUCTION TO BE REPLACED PER FDOT INDEX 300; MATCH EXISTING VALLEY GUTTER PROFILE FOR A MINIMUM OF 4 LF OF REPLACEMENT.

5. REFER TO SHEET 2 AND 3 FOR STORMWATER EROSION CONTROL DETAILS, GENERAL NOTES, DRAINAGE DETAILS, PAVING DETAILS AND PAVING SPECIFICATIONS.

7. REFER TO SHEET 4 FOR APPLICABLE WATER AND SEWER DETAILS.

8. REFER TO SHEET 7 FOR STRIPING AND SIGNAGE INFORMATION. THE PARKING LAYOUT AND STRIPING NEED TO FOLLOW CITY OF DELRAY BEACH CURRENT STANDARDS. REFER TO DETAIL RT 4.1 ON SHEET 7 FOR DETAIL PARKING LOT STRIPING INFORMATION.

9. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.). SUBTRACT 1.55' FROM ELEVATIONS SHOWN TO CONVERT TO NORTH AMERICAN VERTICAL

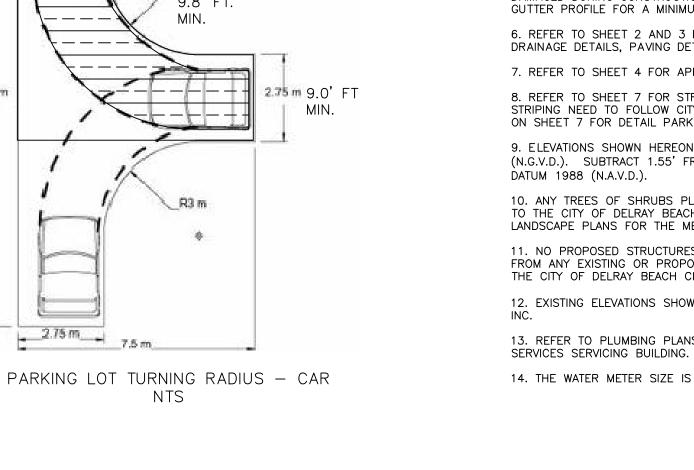
10. ANY TREES OF SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS LD 1.1 AND LD 1.2. PLEASE REFER TO THE LANDSCAPE PLANS FOR THE MENTIONED DETAILS.

11. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.

12. EXISTING ELEVATIONS SHOWN HEREON ARE BASED ON SURVEY BY O'BRIEN, SUITER & O'BRIEN,

13. REFER TO PLUMBING PLANS FOR CONTINUATION OF POTABLE WATER AND SANITARY SEWER

14. THE WATER METER SIZE IS DETERMINED BY THE CITY OF DELRAY BEACH UTILITY DEPARTMENT.



_				
	3	ADD ALLEY STOP BAR	ΑE	2/15/19
	2	REVISED AS PER TAC COMMENTS / ADD SIGHT TRIANGLES ADD AUTOMOBILE TURNING RADIUS / TRACT "C"	ΑE	NOV 18
	1	REVISED AS PER TAC COMMENTS	ΑE	SEP 18
	NO.	REVISION	BY	DATE
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#### STRIPING & SIGNAGE PLAN

## 214 NE 4TH STREET

#### JOHN A. GRANT, JR., INC.

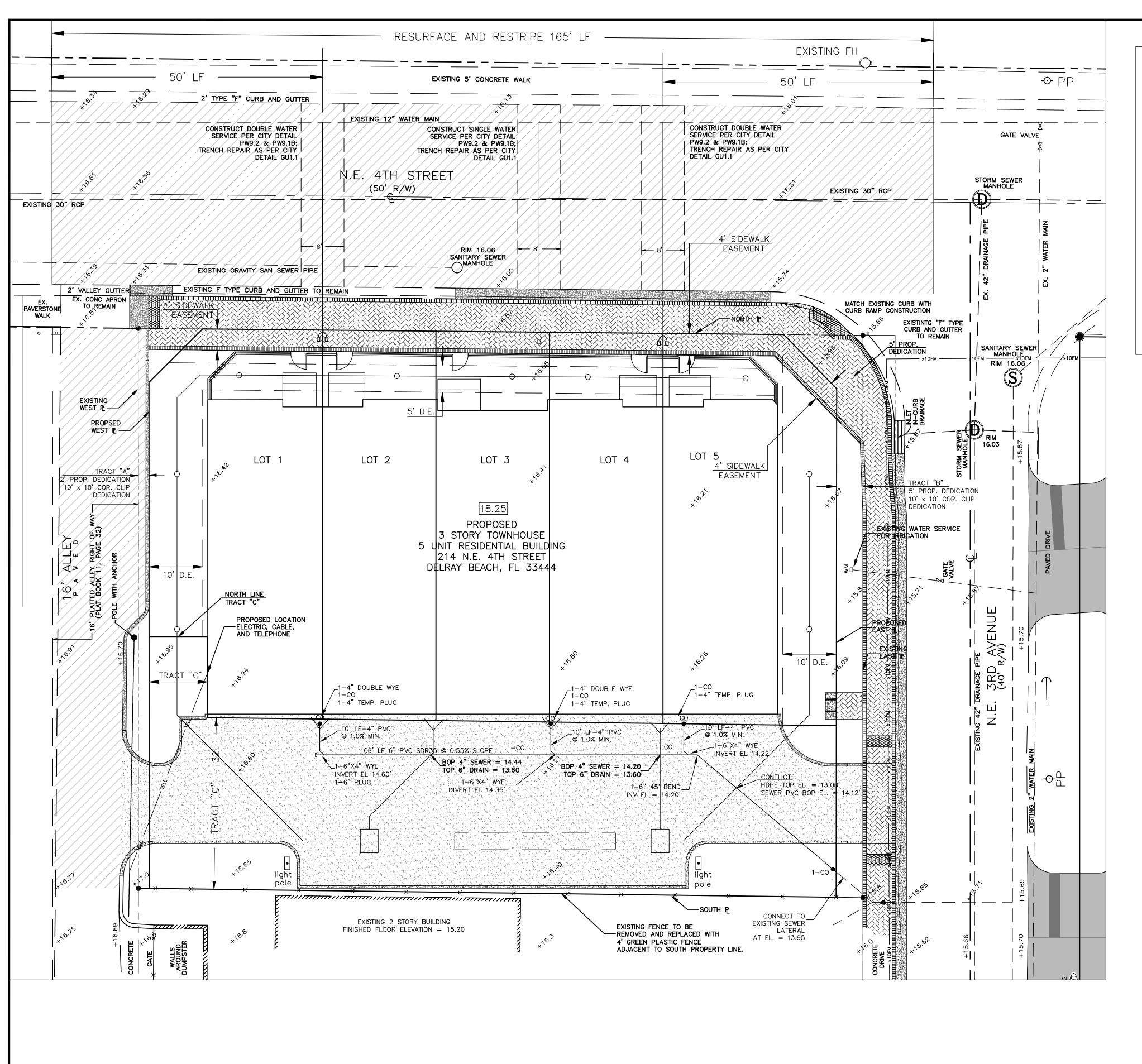
CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY BOCA RATON, FLORIDA 33431 PH. NO. 561-395-3333 FAX NO. 561-395-3315

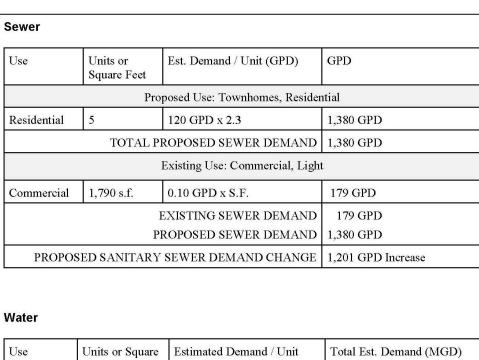
LICENSED BUSINESS NO. LB 50		
MADE <u>TFL</u> DATE <u>DEC 2017</u>	F.B. <u>N/A</u> PG	
CHECKED DATE	SCALE $1" = 10'$	
	SHEET <u>C8</u> OF <u>9</u>	

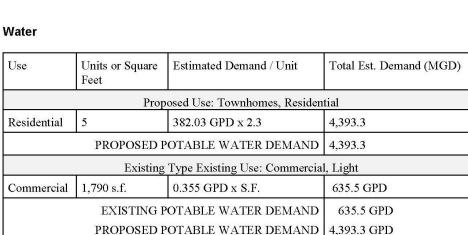
DELRAY BEACH, FL 33444

Thomas F. Lubanovic Professional Engineer No. 56659 John A. Grant, Jr., Inc. 3333 N. Federal Hwy., Ste. 3 Boca Raton, FL 33431 Certificate of Authorization No. LB 50

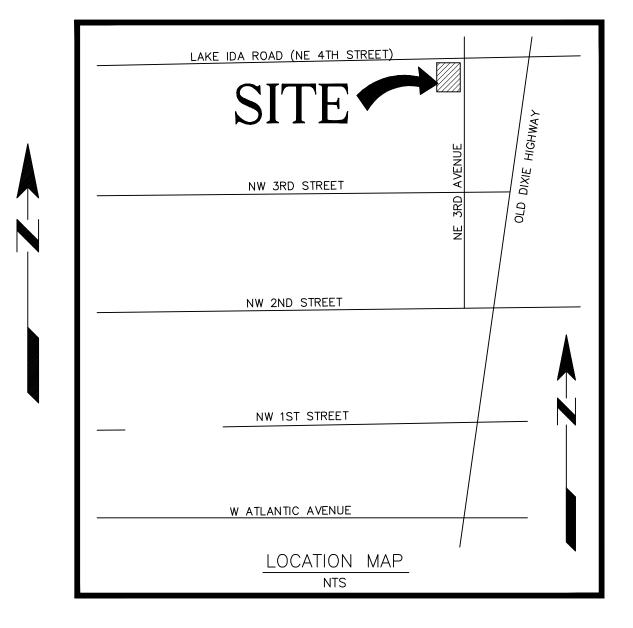
IT'S THE LAW! -800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC UTILITIES NOTIFICATION CENTER







PROPOSED POTABLE WATER DEMAND CHANGE 3,757.8 GPD



SCALE : 1" = 10'

9.10 PROPOSED GRADE PROPOSED FINISHED FLOOR ELEVATION RADIUS EXISTING ELEVATION TYPICAL DRAINAGE SHEET FLOW DIRECTION ARROW MATCH EXISTING GRADE SANITARY CLEAN OUT DENOTES NEW ASPHALT PAVING MINIMUM

DENOTES PROPOSED PAVER BRICK DUCTILE IRON PIPE REDUCED PRESSURE ZONE BACKFLOW PREVENTOR DENOTES NEW CONCRETE TACTILE SURFACE LOCATION & NUMBER DENOTES MILL, OVERLAY AND RESTRIPING NE 4TH ST.

PER PAVEMENT SPECIFICATION ON SHEET C3 CURB RAMP LOCATION LINEAR FEET DUCTILE IRON PIP CENTER LINE SANITARY SEWER SERVICE TOP OF WALK WATER SERVICE

#### NOTES:

LEGEND:

- 1. CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL (811) FOR UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF
- 2. CONSTRUCT CONCRETE SIDEWALK & CURB RAMPS PER FDOT INDEX 304 AND 310.
- 3. CONTRACTOR TO REMOVE EXISTING LANDSCAPING VEGETATION (TREES, SHRUBS & GRASS) AS NEEDED TO CONSTRUCT PAVING MODIFICATIONS SHOWN.
- 4. ALL EXISTING UNDERGROUND UTILITIES TO BE LEFT UNDISTURBED EXCEPT AS NOTED.
- 5. ALL TYPE "D" CURB TO BE CONSTRUCTED PER FDOT INDEX NO. 300. ANY VALLEY GUTTER DAMAGED DURING CONSTRUCTION TO BE REPLACED PER FDOT INDEX 300; MATCH EXISTING VALLEY GUTTER PROFILE FOR A MINIMUM OF 4 LF OF REPLACEMENT. 6. REFER TO SHEET 2 AND 3 FOR STORMWATER EROSION CONTROL DETAILS, GENERAL NOTES, DRAINAGE DETAILS, PAVING DETAILS
- 7. REFER TO SHEET 4 FOR APPLICABLE WATER AND SEWER DETAILS.
- 8. REFER TO SHEET 5 FOR SITE DEMOLITION PLAN.
- 9. REFER TO SHEET 7 FOR PROPOSED STRIPING AND SIGNAGE.
- 10. REFER TO SHEET 7 FOR STRIPING AND SIGNAGE INFORMATION. THE PARKING LAYOUT AND STRIPING NEED TO FOLLOW CITY OF DELRAY BEACH CURRENT STANDARDS. REFER TO DETAIL RT 4.1 ON SHEET 7 FOR DETAIL PARKING LOT STRIPING INFORMATION. 11. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.). SUBTRACT 1.55' FROM ELEVATIONS SHOWN TO CONVERT TO NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D.).
- 12. ANY TREES OF SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS LD 1.1 AND LD 1.2. PLEASE REFER TO THE LANDSCAPE PLANS
- 13. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
- 14. EXISTING ELEVATIONS SHOWN HEREON ARE BASED ON SURVEY BY O'BRIEN, SUITER & O'BRIEN, INC.
- 15. REFER TO PLUMBING PLANS FOR CONTINUATION OF POTABLE WATER AND SANITARY SEWER SERVICES SERVICING BUILDING.
- 16. THE WATER METER SIZE IS DETERMINED BY THE CITY OF DELRAY BEACH UTILITY DEPARTMENT.
- 17. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD 1.1 & L.D. 1.2.

	2	REVISED TRACT "C"	ΑE	NOV 18
	1	REVISED AS PER TAC COMMENTS	ΑE	SEP 18
ſ	NO.	REVISION	BY	DATE

**PLAN** 

## WATER AND SEWER

#### 214 NE 4TH STREET DELRAY BEACH, FL 33444

JOHN A. GRANT, JR., INC.

CONSULTING ENGINEERS 3333 NORTH FEDERAL HIGHWAY BOCA RATON, FLORIDA 33431 PH. NO. 561-395-3333 FAX NO. 561-395-3315

LICENSED BUSINESS NO. LB 50 MADE <u>TFL</u> DATE <u>DEC 2017</u> F.B. <u>N/A</u> PG \_\_ CHECKED \_\_\_\_\_ DATE \_\_\_\_\_ SCALE \_\_\_\_1" = 10'\_\_ JOB NO. <u>JG-100-9738</u> SHEET <u>C9</u> OF <u>9</u>

IT'S THE LAW! -800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC UTILITIES NOTIFICATION CENTER Certificate of Authorization No. LB 50

Thomas F. Lubanovic Professional Engineer No. 56659 John A. Grant, Jr., Inc. 3333 N. Federal Hwy., Ste. 3 Boca Raton, FL 33431

Drawing:K:\JG9738\CAD Files\JG9738 - CIVIL PLANS-REV 6.dwg\9-WATER AND SWEWER