RULE 14-46

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

710-010-85
UTILITIES
OGC – 08/10

UTILITY PERMIT

17-H-496-0001-93030

PERMIT NO.:	SECTION NO.: 93030	STATE ROAD 806	COUNTY PALM BEACH
FDOT construction is proposed or underway.	☐ Yes	☒ No	Financial Project ID: NA
Is this work related to an approved Utility Work Schedule?	☐ Yes	☒ No	If yes, Document Number:

PERMITTEE:	CITY OF DELRAY BEACH		
ADDRESS:	434 SWINTON AVE	TELEPHONE NUMBER: (561) 243 - 7309	
CITY/STATE/ZIP:	DELRAY BEACH FL 33444		

The above PERMITTEE requests permission from the State of Florida Department of Transportation, hereinafter called the FDOT, to construct, operate and maintain the following: RELOCATE FIRE HYDRANT 18 LF TO THE EAST OUTSIDE THIE LIMITS OF A PROPOSED DRIVEWAY. JUST W/O BARWICK RD.

FROM: 95 FT EAST OF WEST PROPERTY LINE 5.600 | **TO:** 113 FT EAST OF WEST PROPERTY LINE ADJACENT N R/W 5.600

Submitted for the PERMITTEE by: Name and Company (Typed or Printed Legibly)	Contact Information Address/Telephone/E-Mail (if applicable)	Signature	Date
THOMAS F LUBANOVIC PE, JOHN A GRANT, JR., INC.	3333 N FEDERAL HWY, STE 3, BOCA RATON FL 33431 561-395-3333 JAG@JAGJRINC.COM		12/20/16

Project: Hessler Paint site Renovations

1. The Permittee declares that prior to filing this application, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans and a letter of notification was mailed on BY CITY OF DELRAY BCH to the following utilities known to be involved or potentially impacted in the area of the proposed installation: CITY OF DELRAY BEACH, AT&T, FPL.
2. The local Maintenance or Resident Engineer, hereafter referred to as the FDOT Engineer, shall be notified a minimum of forty eight (48) hours in advance prior to starting work and again immediately upon completion of work. The FDOT's Engineer is BRETT DROUIN, located at 7900 FOREST HILLS BLVD, WEST PALM BEACH FL, Telephone Number 561-370-1134. The Permittee's employee responsible for MOT is _____, Telephone Number _____ (This name may be provided at the time of the forty eight (48) hour advance notice prior to starting work).
3. All work, materials, and equipment shall be subject to inspection and approval by the FDOT Engineer.
4. All plans and installations shall conform to the requirements of the FDOT's UAM in effect as of the date this permit is approved by FDOT, and shall be made a part of this permit. This provision shall not limit the authority of the FDOT under Paragraph 8 of this Permit.
5. This Permittee shall commence actual construction in good faith within ~~30~~ 1 days after issuance of permit, and shall be completed within ~~365~~ 180 days after the permitted work has begun. If the beginning date is more than sixty (60) days from the date of permit approval, the Permittee must review the permit with the FDOT Engineer to make sure no changes have occurred to the Transportation Facility that would affect the permitted construction.
6. The construction and maintenance of such utility shall not interfere with the property and rights of a prior Permittee.
7. It is expressly stipulated that this permit is a license for permissive use only and that the placing of utilities upon public property pursuant to this permit shall not operate to create or vest any property right in said holder, except as provided in executed subordination and Railroad Utility Agreements.
8. Pursuant to Section 337.403, Florida Statutes, any utility placed upon, under, over, or along any public road or publicly owned rail corridor that is found by FDOT to be unreasonably interfering in any way with the convenient, safe, or continuous use, or maintenance, improvement, extension, or expansion, of such public road or publicly owned rail corridor shall, upon thirty (30) days written notice to the utility or its agent by FDOT, be removed or relocated by such utility at its own expense except as provided in Section 337.403(1), Florida Statutes, and except for reimbursement rights set forth in previously executed subordination and Railroad Utility Agreements, and shall apply to all successors and assigns for the permitted facility.
9. It is agreed that in the event the relocation of said utilities are scheduled to be done simultaneously with the FDOT's construction work, the Permittee will coordinate with the FDOT before proceeding and shall cooperate with the FDOT's contractor to arrange the sequence of work so as not to delay the work of the FDOT's contractor, defend any legal claims of the FDOT's contractor due to delays caused by the Permittee's failure to comply with the approved schedule, and shall comply with all provisions of the law and the FDOT's current UAM. The Permittee shall not be responsible for delay beyond its control.
10. In the case of non-compliance with the FDOT's requirements in effect as of the date this permit is approved, this permit is void and the facility will have to be brought into compliance or removed from the R/W at no cost to the FDOT, except for reimbursement rights set forth in previously executed subordination and Railroad Utility Agreements. This provision shall not limit the authority of the FDOT under Paragraph 8 of this Permit.
11. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the State's right, title and interest in the land to be entered upon and used by the Permittee, and the Permittee will, at all times, and to the extent permitted by law, assume all risk of and indemnify, defend, and save harmless the State of Florida and the FDOT from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said Permittee of the aforesaid rights and privileges.
12. During construction, all safety regulations of the FDOT shall be observed and the Permittee must take measures, including placing and the display of safety devices that may be necessary in order to safely conduct the public through the project area in accordance with the Federal MUTCD, as amended by the UAM.
13. Should the Permittee be desirous of keeping its utilities in place and out of service, the Permittee, by execution of this permit acknowledges its present and continuing ownership of its utilities located between NA and _____ within the FDOT's R/W as set forth above. Whenever the Permittee removes its facilities, it shall be at the Permittee's sole cost and expense. The Permittee, at its sole expense, shall promptly remove said out of service utilities whenever the FDOT determines said removal is in the public interest.
14. In the event contaminated soil is encountered by the Permittee or anyone within the permitted construction limits, the Permittee shall immediately cease work and notify the FDOT. The FDOT shall notify the Permitee of any suspension or revocation of the permit to allow contamination assessment and remediation. Said suspension or revocation shall remain in effect until otherwise notified by FDOT
15. For any excavation, construction, maintenance, or support activities performed by or on behalf of the FDOT, within its R/W, the Permittee may be required by the FDOT or its agents to perform the following activities with respect to a Permittee's facilities: physically expose or direct exposure of underground facilities, provide any necessary support to facilities and/or cover, de-energize or alter aerial facilities as deemed necessary for protection and safety.

A COPY OF THIS PERMIT AND ALL ATTACHMENTS MUST BE ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT

2017-H-496-0001-93030

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY PERMIT

16. Pursuant to Section 337.401(2), Florida Statutes, the permit shall require the permit holder to be responsible for damage resulting from the issuance of the permit. The FDOT may initiate injunctive proceedings as provided in s.120.69 to enforce provisions of this subsection or any rule or order issued or entered into pursuant thereto.
17. Pursuant to Section 337.402, Florida Statutes, when any public road or publicly owned rail corridor is damaged or impaired in any way because of the installation, inspection, or repair of a utility located on such road or publicly owned rail corridor, the owner of the utility shall, at his or her own expense, restore the road or publicly owned rail corridor to its original condition before such damage. If the owner fails to make such restoration, the authority is authorized to do so and charge the cost thereof against the owner under the provisions of s.337.404.
18. The Permittee shall comply with all provisions of Chapter 556, Florida Statutes, Underground Facilities Damage Prevention and Safety Act.
19. Special FDOT instructions: _____

SEE ATTACHMENT "A"

It is understood and agreed that commencement by the Permittee is acknowledgment and acceptance of the binding nature of all the above listed permit conditions and special instructions.

20. By receipt of this permit, the Permittee acknowledges responsibility to comply with Section 119.07, Florida Statutes.
21. By the below signature, the Permittee hereby represents that no change to the FDOT's standard Utility Permit form, as incorporated by reference into Rule 14-46.001, for this Utility Permit has been made which has not been previously called to the attention of the FDOT (and signified to by checking the appropriate box below) by a separate attached written document showing all changes and the written and dated approval of the FDOT Engineer. Are there attachments reflecting change/s to the standard form? ☒NO ☐ YES If Yes, _____ pages are attached.

PERMITTEE	CITY OF DELRAY BEACH, JOHN MORGAN ESD, DIRECTOR	**SIGNATURE**	John Morgan	**DATE:**	12/27/2016
	Name & Title of Authorized Permittee or Agent (Typed or Printed Legibly)				
APPROVED BY:				**ISSUE DATE:**	2/1/17
	District Maintenance Engineer or Designee				

UTILITY PERMIT FINAL INSPECTION CERTIFICATION

DATE:	
DATE WORK STARTED:	
DATE WORK COMPLETED:	
INSPECTED BY:	
(Permittee or Agent)	
CHANGE APPROVED BY:	**DATE:**
District Maintenance Engineer or Designee	

I the undersigned Permittee do hereby CERTIFY that the utility construction approved by the above numbered permit was inspected and installed in accordance with the approved plans made a part of this permit and in accordance with the FDOT's current UAM. All plan changes have been approved by the FDOT's Engineer and are attached to this permit. I also certify that the work area has been left in as good or better condition than when the work was begun.

PERMITTEE:	**SIGNATURE:**	**DATE:**
Name & Title of Authorized Permittee or Agent (Typed or Printed Legibly)		

CC: District Permit Office
Permittee

Google Earth feet 100 meters 50

O Fire Hydrant

Hessler Paint
4591 W Atlantic Ave
Delray Beach FL

Google Earth feet 10 meters 3

Hessler Paint
4591 W Atlantic Ave
Delray Beach FL

Google Earth feet 10 meters 4

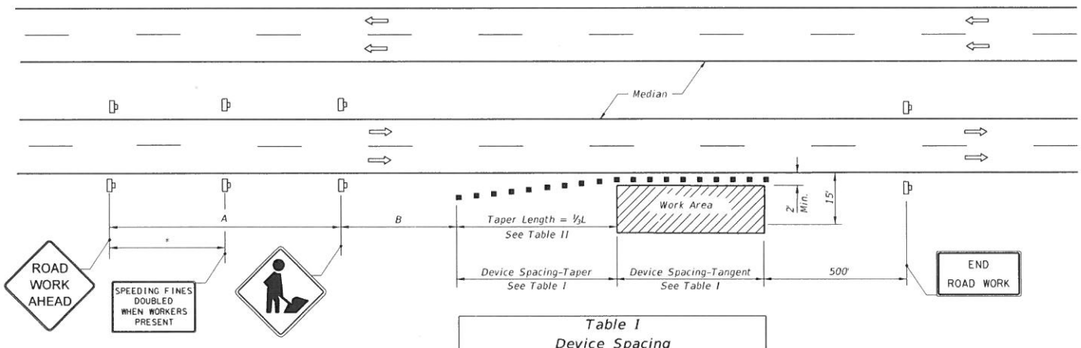
O - Fire Hydrant

Hessler Paint
4591 W Atlantic Ave
Delray Beach FL

Google Earth feet 10 meters 4

◯ - Fire Hydrant

Hessler Paint
4591 W Atlantic Ave
Delray Beach FL



DISTANCE BETWEEN SIGNS		
Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*250' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Taper Length - Shoulder				
Speed (mph)	⅓L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	$L = \frac{WS^2}{60}$
30	40	50	60	
35	55	68	82	
40	72	90	107	
45	120	150	180	L=WS
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width.

⅓L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. When a high volume of work vehicles are entering and leaving the Work Area at speeds slower than 10 MPH below the posted speed, place an MOT-S-06 sign in the ROAD WORK AHEAD sign location and shift the ROAD WORK AHEAD sign upstream 500 ft.
2. This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
3. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
4. WORKERS signs to be removed or fully covered when no work is being performed.
5. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
6. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
7. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a. Work operations are 60 minutes or less.
   b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

12/3/2015 9:05:03 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT FY 2016-17 DESIGN STANDARDS	MULTILANE, WORK ON SHOULDER	INDEX NO.	SHEET NO.
01/01/16					612	1 of 1

SPECIAL PROVISIONS/CONDITIONS
UTILITY PERMITS
DIRECTIONAL & JACK & BORES
ATTACHMENT "A"

All new or replaced underground facilities within the Right of Way shall be made electronically detectable using techniques available in the industry.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right of Way from the Department prior to usage.

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/FDOT's Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

Permittee will ensure that all locates have been performed prior to scheduling of any boring activities. This shall include soft digs to verify vertical & horizontal alignment.

Permittee's representative & an FDOT Inspector must be on site during all boring activities. Upon completion of the boring activities, Permittee shall provide all documentation to be in accordance with FDOT Standard Specifications, Section 555 or 556, whichever is applicable.

All maintenance of traffic (MOT) will be in accordance with the Department's current edition of the Design Standards, (600 series). The Operations Engineer or his designee reserves the right to direct the removal/relocation/modification of any traffic device(s) at the Permittee's sole expense.

Restricted hours of operation will be from 9:00 am to 3:30 pm, (Monday thru Friday), unless otherwise approved by the Operations Engineer, or designee.

Permit is valid for six (6) months from the date of issue.

Permittee shall use the current editions of the Department's Design Standards, Standard Specifications for Road and Bridge Construction and applicable manuals, policies and procedures.

PERMITTEE: PLEASE NOTE:
Permittee's contractors that are performing directional drilling and/or jack and bore activities shall provide the Department (Permits Office) proof of a proper state contractor's license and certificate of liability insurance prior to any commencement of permitted work.

Permittee to coordinate all work with the Palm Beach Operations Permits Dept. @ via fax 561-370-1236. Coordination will include a pre-construction meeting.

All HDPE conduit used for traffic signals or other electrically powered or operated traffic control devices, shall use a Standard Dimension Ratio of 11 (SDR 11).

Sodded areas will be in accordance with Standard Index 105 and Sections 162, 575, 981, 982, 983 of the Department's Standard Specifications (latest editions). All disturbed areas will be sodded within one (1) week of installation of said permitted work.

Permittee shall install utility facilities no closer than 3' from back of Right of Way.

Permittee shall install utility facilities no closer than 3' from back of Right of Way.

Permit "Valid" for utility work, "Only"

All utility poles, mast arm assemblies, strain poles, down guys, electrical switches, electronic cabinets, sign(s), fire hydrants, pedestals, wells & pump head assemblies & associated above ground irrigation, control panels & appurtenances shall be installed in accordance with Plans Prepartion Manual (PCM)

Permittee shall fire hydrant no closer than 4' from the edge of new driveway.

SECTION 555
DIRECTIONAL BORE

555-1 Description.

555-1.1 **Scope of Work:** The work specified in this Section documents the approved construction methods, procedures and materials for Directional Boring, also commonly called Horizontal Directional Drilling (HDD).

555-1.2 General: HDD is a trenchless method for installing a product that serves as a conduit for liquids, gasses, or as a duct for pipe, cable, or wire line products. It is a multi-stage process consisting of site preparation and restoration, equipment setup, and drilling a pilot bore along a predetermined path and then pulling the product back through the drilled space. When necessary, enlargement of the pilot bore hole may be necessary to accommodate a product larger than the pilot bore hole size. This process is referred to as back reaming and is done at the same time the product is being pulled back through the pilot bore hole.

Accomplish alignment of the bore by proper orientation of the drill bit head as it is being pushed into the ground by a hydraulic jack. Determine orientation and tracking of the drill bit by an above ground radio detection device which picks up a radio signal generated from a transmitter located within the drill bit head. Then electronically translate the radio signal into depth and alignment. In order to minimize friction and prevent collapse of the bore hole, introduce a soil stabilizing agent (drilling fluid) into the annular bore space from the trailing end of the drill bit. The rotation of the bit in the soil wetted by the drilling fluid creates a slurry. The slurry acts to stabilize the surrounding soil and prevent collapse of the bore hole as well as provides lubrication.

Select or design drilling fluids for the site specific soil and ground water conditions. Confine free flowing (escaping) slurry or drilling fluids at the ground surface during pull back or drilling. Accomplish this by creating sump areas or vacuum operations to prevent damage or hazardous conditions in surrounding areas. Remove all residual slurry from the surface and restore the site to preconstruction conditions.....

555-6 Documentation Requirements.

555-6.1 Boring Path Report: Furnish a Bore Path Report to the Engineer within seven days of the completion of each bore path. Include the following in the report:

(a) Location of project and financial project number including the Permit Number when assigned

(b) Name of person collecting data, including title, position and company name

(c) Investigation site location (Contract plans station number or reference to a permanent structure within the project right-of-way)

(d) Identification of the detection method used

(e) Elevations and offset dimensions as required in 555-4.2

555-6.2 As-Built Plans: Provide the Engineer a complete set of As-Built Plans showing all bores (successful and failed) within 30 calendar days of completing the work. Ensure that the plans are dimensionally correct copies of the Contract plans and include roadway plan and profile, cross-section, boring location and subsurface conditions as

directed by the Engineer. The plans must show appropriate elevations and be referenced to a Department Bench Mark when associated with a Department project, otherwise to a USGS grid system and datum, or a specific location on top of an existing Department head wall. Plans must be same scale in black ink on white paper, of the same size and weight as the Contract plans. Submittal of electronic plans data in lieu of hard copy plans is preferred and may be approved by the Engineer if compatible with the Department software. Specific plans content requirements include but may not be limited to the following:

(a) The Contract plan view shows the center line location of each facility installed, or installed and placed out of service, to an accuracy of 1 inch at the ends and other points physically observed in accordance with the bore path report.

(b) As directed by the Engineer, provide either a profile plan for each bore path, or a cross-section of the roadway at a station specified by the Engineer, or a roadway centerline profile. Show the ground or pavement surface and crown elevation of each facility installed, or installed and placed out of service, to an accuracy within 1 inch at the ends and other exposed locations. On profile plans for bore paths crossing the roadway show stationing of the crossing on the Contract plans. On the profile plans for the bore paths paralleling the roadway, show the Contract plans stationing. If the profile plan for the bore path is not made on a copy of one of the Contract profile or crosssection sheets, use a 10 to 1 vertical exaggeration.

(c) If, during boring, an obstruction is encountered which prevents completion of the installation in accordance with the design location and specification, and the product is left in place and taken out of service, show the failed bore path along with the final bore path on the plans. Note the failed bore path as "Failed Bore Path - Taken Out of Service". Also show the name of the Utility owner, location and length of the drill head and any drill stems not removed from the bore path.

(d) Show the top elevation, diameter and material type of all utilities encountered and physically observed during the subsoil investigation. For all other obstructions encountered during a subsoil investigation or the installation, show the type of material, horizontal and vertical location, top and lowest elevation observed, and note if the obstruction continues below the lowest point observed.

(e) Include bore notes on each plan stating the final bore path diameter, product diameter, drilling fluid composition, composition of any other materials used to fill the annular void between the bore path and the product, or facility placed out of service. Note if the product is a casing as well as the size and type of carrier pipe placed within the casing as part of the Contract work.

CIVIL IMPROVEMENT PLANS:
PAVING, GRADING & DRAINAGE IMPROVEMENTS

FOR

HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
☒ APPROVED ☐ NOT APPROVED
COMMENTS
DATE 12/27/10 SIGNATURE

FOR

HESSLER FAMILY LLC
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

BY

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

FOR PERMIT PURPOSES ONLY

⚠ REVISIONS PER P/Z SPRAB COMMENTS: NEW SITE PLAN LAYOUT WITH CIVIL IMPROVEMENT RE-DESIGN	CBK	NOV 2016

A copy of this permit and plans will be on the Job site at all times during the construction of this facility.

PROJECT NO JG100-9573

1 COVER SHEET
2 STORMWATER EROSION CONTROL NOTES & DETAILS
3 GENERAL NOTES & DRAINAGE DETAILS
4 PAVING DETAILS & SPECIFICATIONS
5 PAVING, GRADING & DRAINAGE IMPROVEMENTS
⚠ 6 PROPOSED CIVIL IMPROVEMENTS WITHIN W ATLANTIC AVENUE RIGHT-OF-WAY
⚠ 7 BOUNDARY AND TOPOGRAPHIC SURVEY

17-H-496-0001-93030

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

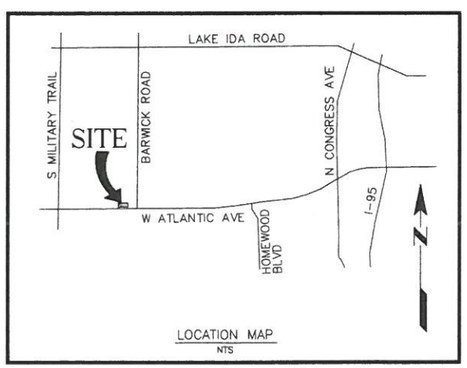
REDUCED PRINTS WILL NOT BE TO SCALE

12/21/16

THOMAS P. LUBANOVIC
Professional Engineer No. 56659
State of Florida

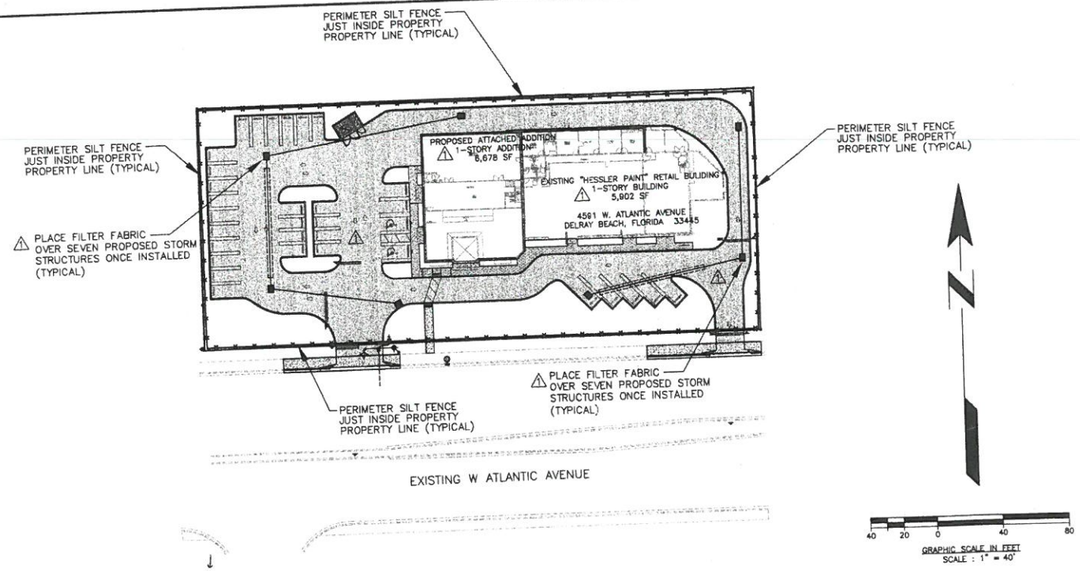
SHEET 1 OF 7

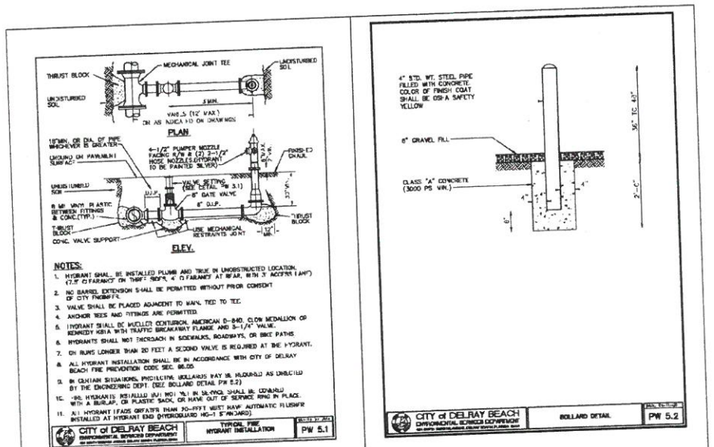
SECTION 13, TOWNSHIP 46 SOUTH, RANGE 42 EAST



LOCATION MAP
NTS

17-H-496-0001-93030





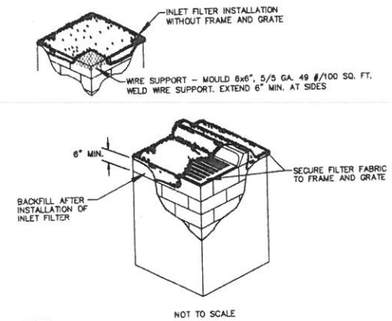
ERIOSION CONTROL NOTES:

1. PROPOSED ON-SITE PAVING IMPROVEMENTS ARE SHOWN ABOVE.

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

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

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



NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.

2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

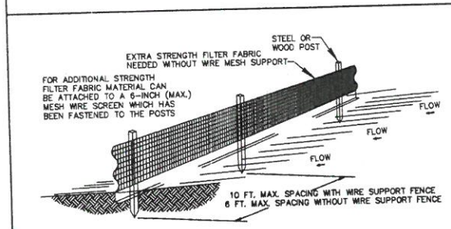
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

INLET FILTER DETAIL D 8.1

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, ON AFTER EACH RAINFALL EVENT, REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

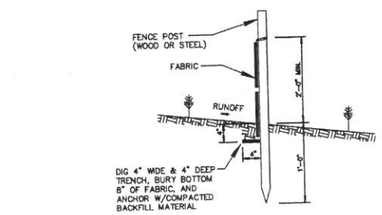
EROSION CONTROL NOTES DETAIL D9.1

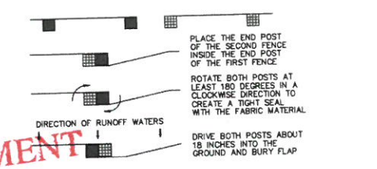


NOTES:

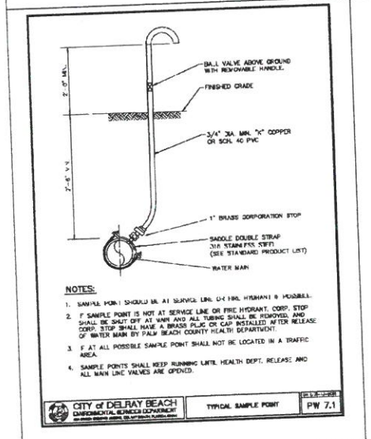
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 38 INCHES (90 CM).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

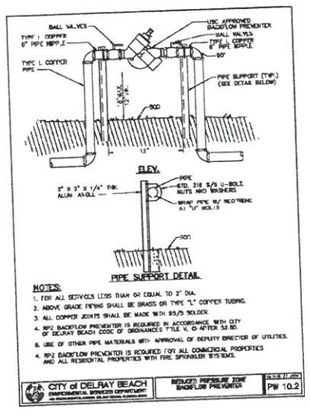
SILT FENCE INSTALLATION DETAIL D 9.1a
Sheet 1 of 2

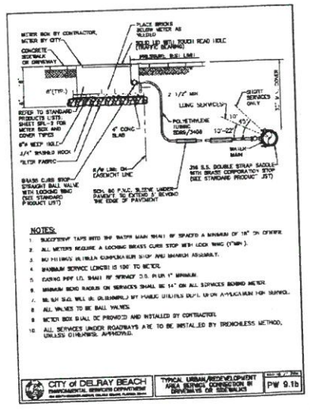




SILT FENCE INSTALLATION DETAIL D 9.1b
Sheet 2 of 2







CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT

☒ APPROVED ☐ NOT APPROVED

COMMENTS

DATE 12/27/16 SIGNATURE

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

12/21/16

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

NO.	REVISION	BY	DATE
1	REVISIONS PER P/Z SPRAB COMMENTS: NEW SITE PLAN LAYOUT WITH CIVIL IMPROVEMENT RE-DESIGN	CBK	NOV 2016

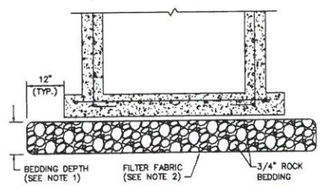
STORMWATER EROSION CONTROL NOTES & DETAILS

HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

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 CBK DATE APR 2016 F.B. N/A PG
CHECKED DATE SCALE 1" = 40'
JOB NO. JG-100-9573 SHEET 2 OF 7

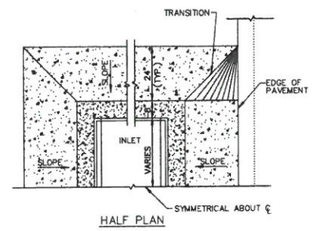
Drawing:K:\JG9573\CAD Files\CIVIL PLANS\JG9573 CIVIL PLANS OCT 2016.dwg\EROSION CONTROL DETAILS 2



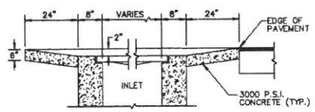
NOTES:

1. BEDDING DEPTH SHALL BE 10" UNDER DRAINAGE STRUCTURES AND 18" UNDER SANITARY STRUCTURES.
2. ROCK SHALL BE WRAPPED IN FILTER FABRIC THAT MEETS THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 985.

STANDARD BEDDING D 3.1



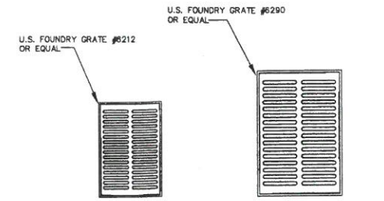
HALF PLAN



SECTION

INLET APRON DETAIL D 5.1

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'-0"	3'-1"	U.S. FOUNDRY No. 6212	15" R.C.P.	24" R.C.P.
'E'	3'-0"	4'-5"	U.S. FOUNDRY No. 6290	24" R.C.P.	36" R.C.P.

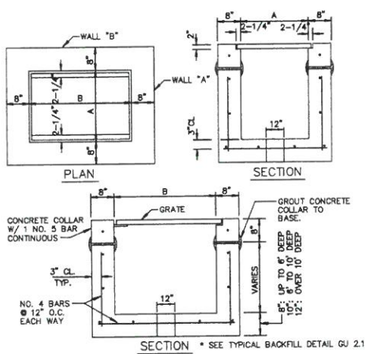


TYPE "C" TYPE "E"

NOTES:

1. ALL GRATES SHALL BE SUITABLE FOR H-20 LOADING (HIGHWAY TRAFFIC LOADS)
2. WHEN INSTALLED IN PAVEMENT OR WITHIN 6' OF PAVEMENT USE U.S.F. 4160-6210

TYPE C & E INLET GRATE DETAIL D 6.1



SECTION * SEE TYPICAL BACKFILL DETAIL GU 2.1

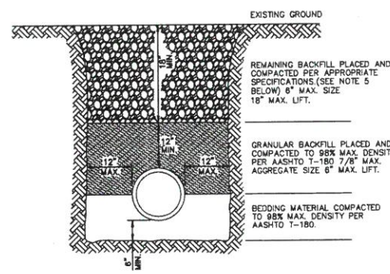
INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'0"	3'1"	U.S. FOUNDRY NO. 6212	15" R.C.P.	24" R.C.P.
'E'	3'0"	4'6"	U.S. FOUNDRY NO. 6290	24" R.C.P.	36" R.C.P.

NOTES:

1. INLET TO BE PRECAST WITH CLASS 'A' 4000 P.S.I. CONCRETE.
2. ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
3. 12" DIA. WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE A BOTTOM ELEVATION ABOVE THE WATER TABLE.
4. 18" SUMP REQUIRED IN ALL DRAINAGE STRUCTURES.
5. SEE BEDDING DETAIL

TYPE C & E INLET DETAIL D 7.1

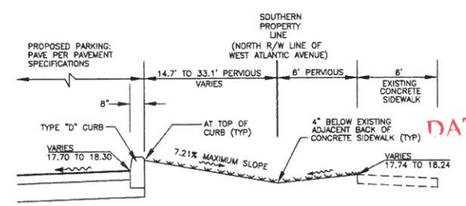
NTS



NOTES:

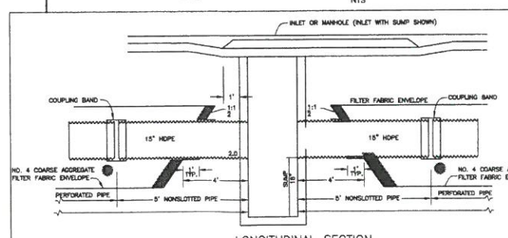
1. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED; BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" -7/8" SIZING.
2. THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
5. COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE.(AASHTO T-180)
6. COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS. CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

TYPICAL BACKFILL DETAIL GU 2.1

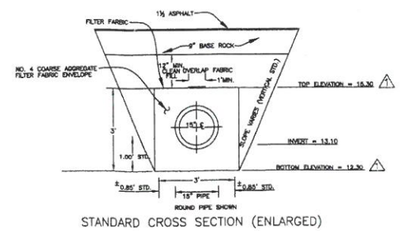


⚠ CROSS SECTION D-D: SOUTHERN PROPERTY LINE

NTS



LONGITUDINAL SECTION



STANDARD CROSS SECTION (ENLARGED)

FRENCH DRAIN

N.T.S.

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 ELSEWHERE.

    FRENCH DRAINS WITH A SIGNIFICANTLY DIFFERENT CROSS SECTION SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICES FOR SEPARATE ITEMS AS FOLLOWS.

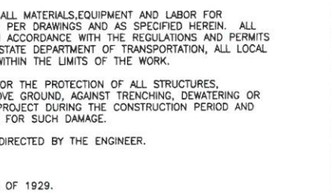
    (A) SLOTTED OR PERFORATED PIPE CULVERT, LF. UNIT PRICE SHALL INCLUDE COST FOR PIPE, PIPE PLUGS AND FITTINGS IN PLACE.

    (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 ELSEWHERE.

    (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.

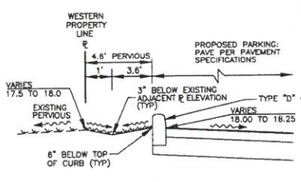
GENERAL NOTES:

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.
2. 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.
6. 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
   - A. SUBGRADE SHALL BE COMPACTED TO 98% DRY DENSITY AS DETERMINED BY AASHTO T-180.
   - B. BASE SHALL CONSIST OF APPROVED LOCAL LIMEROCK COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
   - C. 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 HOURS.
   - 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
      - A.A. THE CONTRACTOR SHALL DO ALL EXCAVATION OF WHATEVER SUBSTANCES ENCOUNTERED TO A DEPTH SHOWN ON DRAWINGS.
      - A.B. EXCAVATED MATERIALS NOT REQUIRED FOR BACKFILL SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
      - A.C. 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.
      - A.D. AFTER PIPE HAVE BEEN LAID AND APPROVED THE TRENCHES SHALL BE BACKFILLED AND COMPACTED WITH CLEAN SAND FREE OF ORGANIC MATERIAL.
      - A.E. 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 BEDDING.
11. PIPE MATERIALS
    - A. 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 STANDARDS
13. SILT FENCE TO BE PLACED AS REQUIRED ADJACENT TO ALL PROPERTY LINES FOR EROSION CONTROL AND TO CONTAIN SILT.



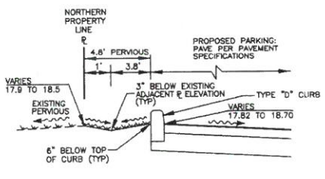
⚠ CROSS SECTION C-C: EASTERN PROPERTY LINE

NTS



⚠ CROSS SECTION A-A: WESTERN PROPERTY LINE

NTS



⚠ CROSS SECTION B-B: NORTHERN PROPERTY LINE

NTS

CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
☒ APPROVED ☐ NOT APPROVED
COMMENTS:
DATE 12/27/16 SIGNATURE

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

12/21/16

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

NO.	REVISION	BY	DATE
1	REVISIONS PER P/Z SPRAB COMMENTS: NEW SITE PLAN LAYOUT WITH CIVIL IMPROVEMENT RE-DESIGN	CBK	NOV 2016

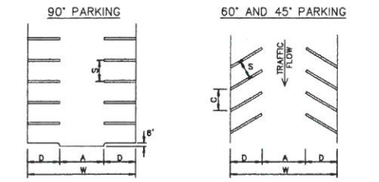
GENERAL NOTES & DRAINAGE DETAILS

HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

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 CBK DATE APR 2016 F.B. N/A PG
CHECKED DATE SCALE N.T.S.
JOB NO. JG-100-9573 SHEET 3 OF 7

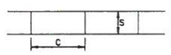
Drawing:K:\JG9573\CAD Files\CIVIL PLANS\JG9573 CIVIL PLANS OCT 2016.dwg\DRAINAGE DETAILS 3



A	AISLE	24.0'
S	STALL WIDTH	9.0'*
D	STALL DEPTH	18.0'
W	MODULE WIDTH	60.0'

* COMPACT CAR SPACES –8.0'
HANDICAP SPACES –12.0'
SEE RT 4.2

PARALLEL



C	STALL LENGTH	22.0'
S	STALL WIDTH	8.0'

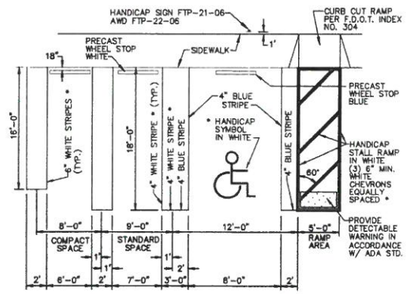
	STANDARD	60°	45°
A	AISLE *	17.0'	15.0'
C	STALL LENGTH	10.5'	12.5'
S	STALL WIDTH	9.0'	9.0'
D	STALL DEPTH	20.0'	19.0'
W	MODULE WIDTH	57.0'	53.0'
HANDICAP SPACES	C	14.0'	17.0'
	D	21.5'	21.0'
	S	12.0'	12.0'

* FOR TWO WAY FLOW A=24.0'

NOTE:
REFER TO TYPICAL PARKING SPACE DETAIL RT 4.2 (A TO C) FOR STRIPING INFORMATION AND HANDICAPPED PARKING DIMENSIONS.

STOP BAR BETWEEN PARKING LOT & PUBLIC R/W MUST BE THERMOPLASTIC.

PARKING LOTS DETAIL RT 4.1

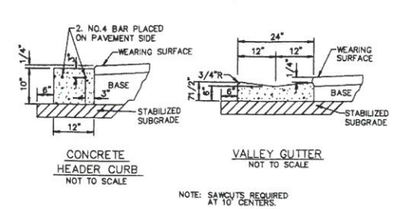


PARKING STALL DIMENSIONS:
STANDARD 9' x 18'
COMPACT 8' x 16'
HANDICAP 12' x 18' PLUS 5' RAMP AREA

* NOTES:

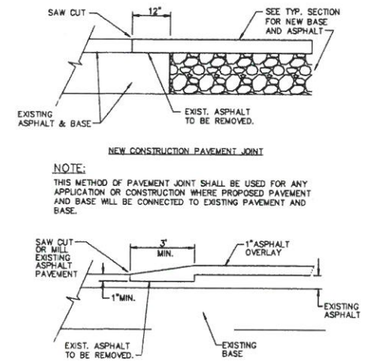
1. ON LIGHT COLORED SURFACE I.E. CONCRETE ALL HANDICAP MARKINGS SHALL BE BLUE AND STANDARD PARKING STRIPING SHALL BE 3" WHITE WITH 1" BLACK BORDER.
2. ALL STRIPPING WITHIN PUBLIC RIGHT-OF-WAY SHALL BE 6 INCHES.
3. ALL MEASUREMENTS ARE FROM CENTER LINE.
4. ALL COMPACT SPACES MUST HAVE "COMPACT" STENCILED WITH BLACK PAINT ON WHEEL STOP.
5. BLUE STRIPE & H/C SYMBOL AND WALKWAY ON CONCRETE
6. YELLOW STRIPE ON CONCRETE
7. 24" STOP BAR BETWEEN ALL PARKING LOTS AND PUBLIC R/W SHALL BE THERMOPLASTIC AND PER FDOT SPECIFICATIONS AND STOP SIGN R1-1

TYPICAL PARKING SPACES
(1 OF 3)
DETAIL RT 4.2a



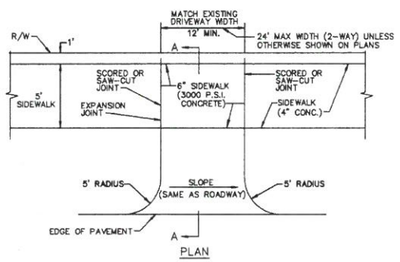
NOTES: 1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
2. SAWCUTS AT 10' CENTERS SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

CURB AND GUTTER SECTIONS RT 6.1



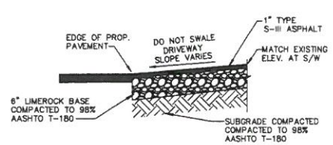
PAVEMENT JOINT DETAIL RT 7.1

CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
☒ APPROVED ☐ NOT APPROVED
COMMENTS
DATE 12/27/16 SIGNATURE



PLAN

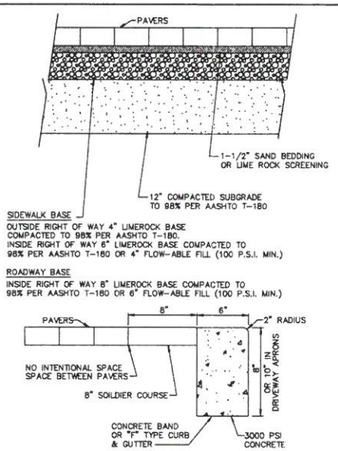
NOTE: SIDEWALK SHALL BE CONSTRUCTED THROUGH DRIVEWAY.



SECTION A–A
NOT TO SCALE

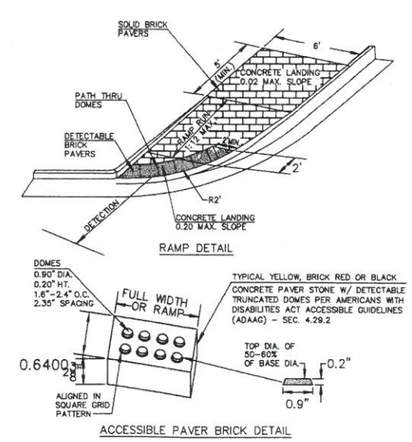
NOTE: ALL SIDEWALK WITH CENTRAL BUSINESS DISTRICT SHALL BE A MINIMUM WIDTH OF 8'.

ASPHALT DRIVEWAY APRON RT 9.2



NOTE:
IF CITY APPROVES PAVERS TO BE USED IN LIEU OF CONC. SIDEWALK, PAVER SHALL BE HOLLAND-STONE, 45° HERRING BONE, RED/CHARCOAL, COLOR MIX #2.

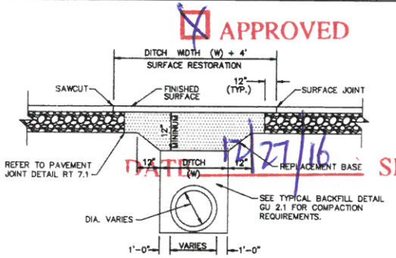
PAVER BRICK SECTION
DETAIL RT 10.1a



ACCESSIBLE PAVER BRICK DETAIL

1. IN ADDITION TO CURB RAMPS TRUNCATED DOMES ARE REQUIRED AT ALL AREAS OF PERIL.

DETECTABLE WARNING RAMP
IN PAVER SIDEWALK TYPICAL DETAIL RT 10.3



1. REPLACEMENT BASE TO BE AT MIN. 12" THICK.
2a. BASE MATERIAL SHALL BE PLACED IN TWO LIFTS AND EACH LIFT COMPACTED TO 98% MAXIMUM DENSITY PER AASHTO T-180 (MAX. LIFT THICKNESS = 6").
2b. 12" EXCAVATABLE FLOWABLE FILL MIN. 100 P.S.I. MAY BE USED IN LIEU OF 12" BASE.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. ALL DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS.
5. SURFACE MATERIAL SHALL BE F.D.O.T. TYPE S-I OR S-III ASPHALTIC CONC. (MIN. THICKNESS 1 1/2").
6. ANY PAVT. CUTS SHALL BE COLD PATCHED AT END OF EACH WORKING DAY TO FACILITATE UNHINDERED TRAFFIC FLOW.

PAVEMENT REPAIR DETAIL GU 1.1

LOCATION MAP
NTS

REQUIRED PAVEMENT & SIDEWALK SPECIFICATIONS			
TYPE	WEARING SURFACE	BASE	SUB-GRADE
PROPOSED ON-SITE PAVED AREAS (PARKING LOTS & DRIVE CONNECTIONS)	1-1/2" THICK, TYPE S-III (TWO 3/4" LIFTS)	9" THICK, FDOT APPROVED BASE ROCK; MIN. LBR 100; COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180; PRIMED (0.1 GAL PER SY)	12" THICK, COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180 SUB-GRADE TO BE HOMOGENEOUS MATERIAL
PROPOSED DUMPSTER ENCLOSURE SLAB	6" THICK, CLASS 1 CONCRETE WITH MINIMUM 3000 PSI COMPRESSION STRENGTH @ 28 DAYS	N/A	12" THICK, COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180
PROPOSED CONCRETE SIDEWALK	4" THICK, CLASS 1 CONCRETE WITH MINIMUM 3000 PSI COMPRESSION STRENGTH @ 28 DAYS	N/A	12" THICK, COMPACTED TO 95% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180
PROPOSED PAVER BRICK WALK	REFER TO DETAIL RT 10.1a ABOVE	REFER TO DETAIL RT 10.1a ABOVE	REFER TO DETAIL RT 10.1a ABOVE

REQUIRED PAVEMENT & SIDEWALK SPECIFICATIONS

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

12/21/16
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

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

NO.	REVISION	BY	DATE

PAVING DETAILS & SPECIFICATIONS

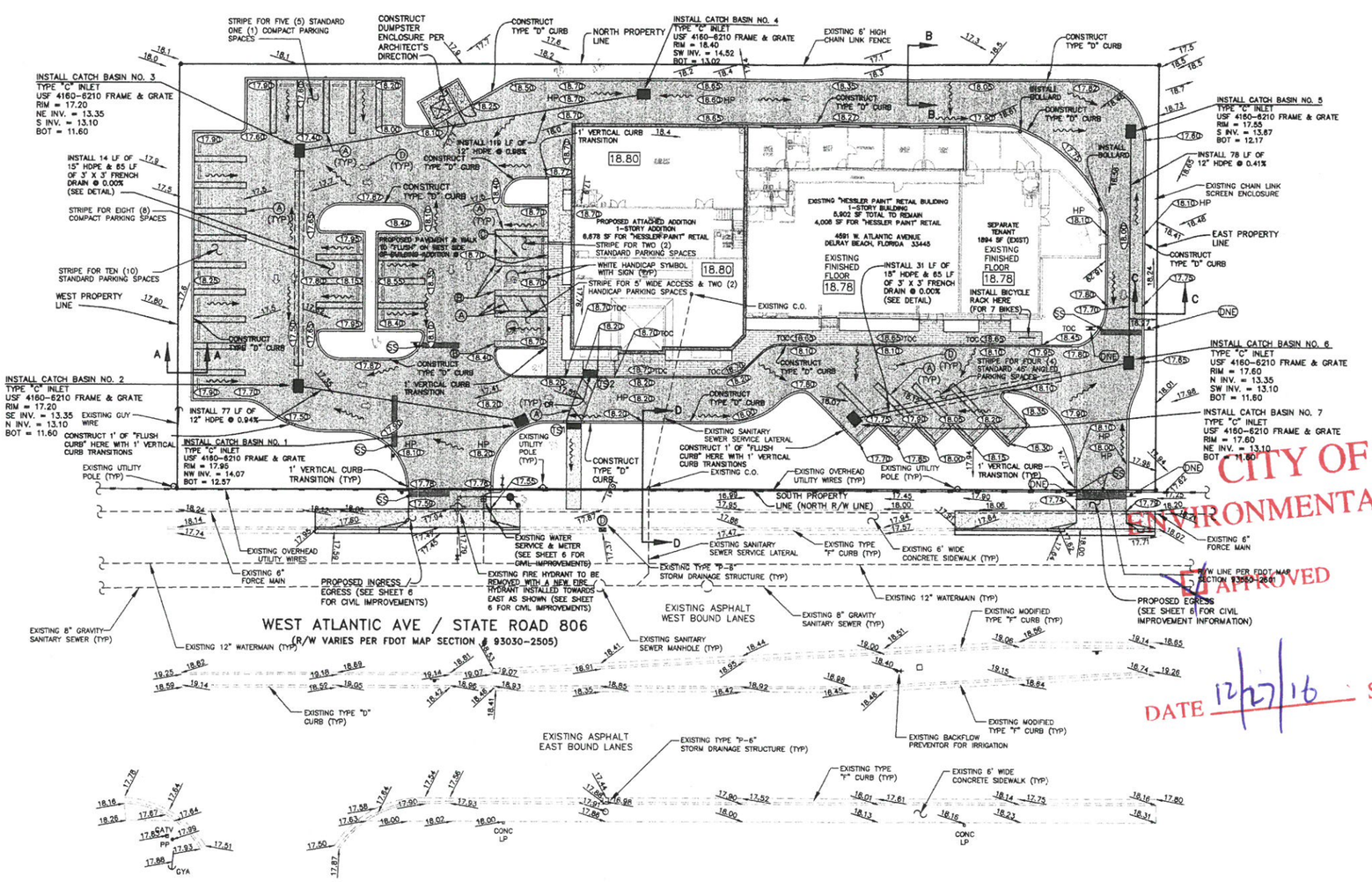
HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

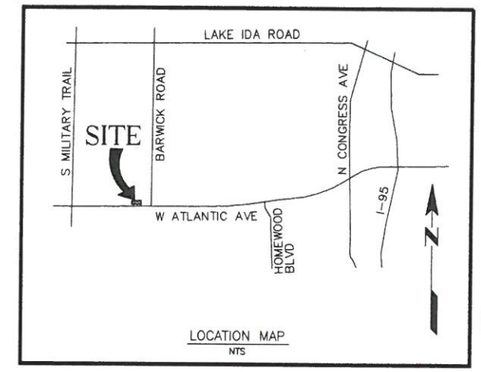
JOHN A. GRANT, JR., INC.
CONSULTING ENGINEERS
3333 NORTH FEDERAL HIGHWAY
BOCA RATON, FLORIDA 33431
PH. NO. 561-395-3333 FAX NO. 561-395-3315
LICENSED BUSINESS NO. LB 50

MADE CBK	DATE APR 2016	F.B. N/A	PG
CHECKED	DATE	SCALE N.T.S.	
JOB NO. JG-100-9573		SHEET 4	OF 7

SECTION 13, TOWNSHIP 46 SOUTH, RANGE 42 EAST

Drawing:K:\J09573\CAD Files\CIVIL PLANS\J09573 CIVIL PLANS OCT 2016.dwg\PAVING DETAILS 4





LOCATION MAP
NTS

SECTION 13, TOWNSHIP 46 SOUTH, RANGE 42 EAST

STRIPING & SIGNAGE LEGEND

PROPOSED STOP SIGN (R1-1) WITH 24" SOLID WHITE THERMOPLASTIC STOP BAR	SS
PROPOSED 6" SOLID WHITE STRIPE	Ⓐ
PROPOSED 4" SOLID BLUE STRIPE	Ⓑ
PROPOSED 4" SOLID WHITE STRIPE	Ⓒ
PROPOSED WHITE STRAIGHT ARROW	Ⓓ
PROPOSED TACTLE SURFACE LOCATION & NUMBER	TS#
PROPOSED "DO NOT ENTER SIGN" (R6-2A)	DNE

GRAPHIC SCALE IN FEET
SCALE : 1" = 20'

CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
APPROVED
NOT APPROVED
COMMENTS
DATE 12/27/16 SIGNATURE

ESTIMATED DAILY POTABLE WATER DEMAND CALCULATIONS: (GPD)
(ASSUME 100% FLOWS INTO EXIST. SANITARY SEWER SYSTEM)

CURRENT ESTIMATED DEMAND = [6,130 SF COMMERCIAL USE X 0.05 GPD/SF] ≈ 307 GPD

PROPOSED ESTIMATED DEMAND = [12,580 SF COMMERCIAL USE X 0.05 GPD/SF] ≈ 630 GPD

PROPOSED ESTIMATED DEMAND ≈ 630 GPD

NOTE: GPD = GALLONS PER DAY; SF = SQUARE FOOTAGE

LEGEND:

17.35	PROPOSED GRADE
17.70	EXISTING ELEVATION
	DRAINAGE SHEET FLOW DIRECTION ARROW
	DENOTES PROPOSED PAVEMENT
	DENOTES PROPOSED CONCRETE SIDEWALK
	DENOTES PROPOSED PAVER BRICK WALK
LF	LINEAR FEET
HP	HIGH POINT
EXIST	EXISTING
TOC	TOP OF CURB
18.80	PROPOSED FINISHED FLOOR ELEVATION
R	RADIUS
TYP	TYPICAL
MEG	MATCH EXISTING GRADE
C.O.	SANITARY CLEAN OUT
MIN.	MINIMUM
DIP	DUCTILE IRON PIPE
RPZ	REDUCED PRESSURE ZONE
TS#	TACTILE SURFACE LOCATION & NUMBER
CR	CURB RAMP LOCATION

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

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.
6. REFER TO SHEET 2 THROUGH 4 FOR STORMWATER EROSION CONTROL DETAILS, GENERAL NOTES, DRAINAGE DETAILS, PERIMETER CROSS SECTIONS, PAVING DETAILS AND PAVING SPECIFICATIONS.
7. REFER TO DETAIL RT 4.1 AND DETAIL RT 4.2a ON SHEET 4 FOR DETAIL PARKING LOT STRIPING INFORMATION.
8. CONTRACTOR TO CONFIRM LOCATION OF ONSITE EXISTING SEWER LATERAL AND WATER SERVICE LINE PRIOR TO STORM DRAINAGE INSTALLATION AND NOTIFY CIVIL ENGINEER OF RECORD IF EITHER CONFLICTS WITH PROPOSED STORM DRAINAGE SYSTEMS SHOWN HEREON.
9. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.).
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.

STRIPING NOTES:

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

12/21/16
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

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

NO.	REVISION	BY	DATE
1	REVISIONS PER P/Z SPRAB COMMENTS: NEW SITE PLAN LAYOUT WITH CIVIL IMPROVEMENT RE-DESIGN	CBK	NOV 2016

PAVING, GRADING & DRAINAGE IMPROVEMENTS

HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

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 CBK	DATE APR 2016	F.B. 2075: 2160	PG 53-55; 16-18
CHECKED	DATE	SCALE 1" = 20'	
JOB NO. JG-100-9573		SHEET 5	OF 7

Drawing:K:\JG9573\CAD Files\CIVIL PLANS\JG9573 CIVIL PLANS OCT 2016.dwg\PGDWG 5

FDOT GENERAL NOTES:

All materials and construction within the Florida Department of Transportation Design (F.D.O.T.) right-of-way shall conform to the (latest edition) F.D.O.T. Design Standards and (latest edition) Standard Specifications for Road and Bridge Construction.

Maintenance Of Traffic M.O.T. for this project will comply with the F.D.O.T. Standard Index (600 series) and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). Special attention will be given to FDOT Design Standard Index 611, 612, 613, and 660.

All thermoplastic traffic stripes, markings and signage will be installed per the FDOT Roadway and Traffic Design Standards.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right-of-Way from the F.D.O.T. prior to usage.

Permittee will provide the necessary densities in accordance with Section 125-8 of the FDOT Standard Specifications for Road & Bridge Construction (latest edition) prior to final acceptance by the F.D.O.T.

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/F.D.O.T.'s latest Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

During the removal/installation of any curb and gutter section, the permittee will be responsible for any damage done to the abutting asphalt. The damaged asphalt repair will be in accordance with the current specifications and/or as directed by the Resident Operations Engineer.

Permittee shall provide the Producer's Certification (Delivery Ticket) for the NS CONCRETE-2500 PSI (used for Sidewalk, Curb & Gutter, Ditch Pavement and Traffic Separator) prior to final acceptance by the Department. The delivery ticket shall certify the concrete was batched, delivered and placed in accordance with Section 347 of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction (current edition).

Sodded areas will be in accordance with Standard Index 105 and sections 162, 981, 982, 983, 987 of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction, latest edition. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

Ownership of all suitable excavated materials within the FDOT R/W, as determined by the F.D.O.T., shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the contractor, at their cost & expense from the site to the Palm Beach Operations Center, 7900 W Forest Hill Blvd or stockpiled in those areas as directed by the DOT, including asphalt millings.

Restricted hours of operation will be from 9:00am to 3:30 pm, (Monday-Friday), unless otherwise approved by the Operations Engineer, or designee.

Permittee will coordinate all work with the Palm Beach Operations Permits Department using fax # (561) 370-1236. Coordination will include a Pre-Construction meeting.

PERMITTEE: PLEASE NOTE:
Permittee's contractors that are performing permitted work activities shall provide the F.D.O.T. (Permit Office) proof of a proper state contractor's license and certificate of liability insurance prior to any commencement of permitted work.

All public sidewalk curb ramps will meet the Roadway & Traffic Design Standards (current edition) Index Number 304 Curb/Ramp Inspections (s) required prior to installation of concrete.

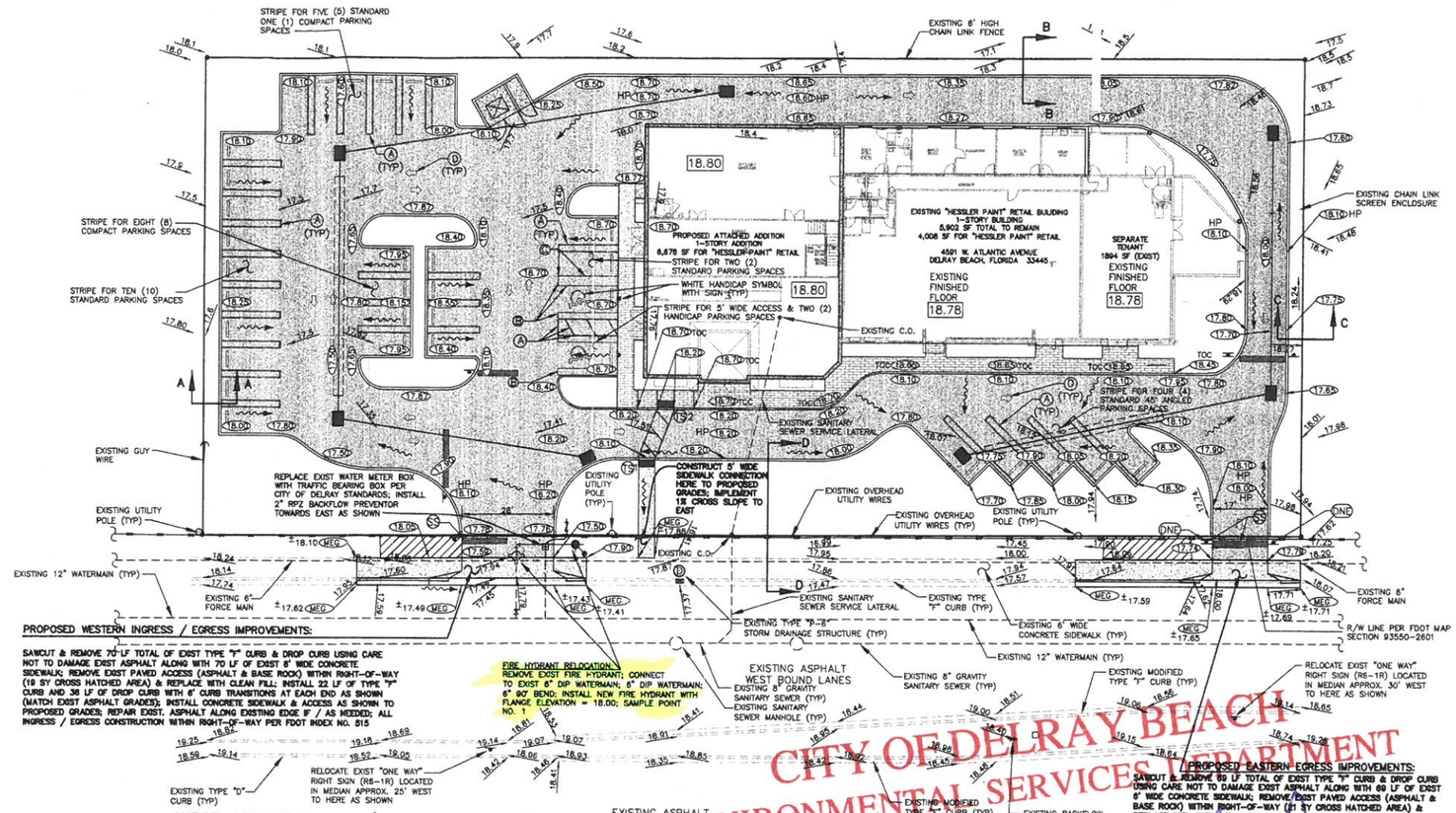
PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.

Permittee will provide the F.D.O.T. with certified "AS-Built" plans prior to final acceptance of the permitted work.

REQUIRED PAVING & SIDEWALK SPECIFICATIONS WITHIN WEST ATLANTIC AVENUE RIGHT-OF-WAY			
TYPE	WEARING SURFACE	BASE	SUBGRADE
PROPOSED EASTERN SITE ACCESSES WITHIN WEST ATLANTIC AVENUE RIGHT-OF-WAY	6" THICK MIN., FDOT NS CONCRETE WITH MINIMUM 2500 PSI COMPRESSION STRENGTH @ 28 DAYS	N/A	12" THICK, COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180 SUBGRADE TO BE HOMOGENEOUS MATERIAL
PROPOSED SIDEWALK WITHIN WEST ATLANTIC AVENUE RIGHT-OF-WAY	4" THICK MIN., FDOT NS CONCRETE WITH MINIMUM 2500 PSI COMPRESSION STRENGTH @ 28 DAYS	N/A	12" THICK, COMPACTED TO 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180 SUBGRADE TO BE HOMOGENEOUS MATERIAL

NOTES:

1. CONTRACTOR TO SAWCUT EXISTING PAVEMENT AND STEP JOINT AS REQUIRED TO ENSURE QUALITY PAVING WORK.
2. NO WIRE MESH OR REINFORCING STEEL REQUIRED FOR CONCRETE SIDEWALK CONSTRUCTION EXCEPT WHERE NOTED.
3. ALL PROPOSED TRUNCATED DOMES (DETECTABLE WARNINGS) WITHIN YAMATO ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED PER FDOT INDEX NO. 304.



CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
APPROVED
COMMENTS
DATE 12/27/16 SIGNATURE

STRIPING & SIGNAGE LEGEND

PROPOSED STOP SIGN (R1-1) WITH 24" SOLID WHITE THERMOPLASTIC STOP BAR	(SS)
PROPOSED 6" SOLID WHITE STRIPE	(A)
PROPOSED 4" SOLID BLUE STRIPE	(B)
PROPOSED 4" SOLID WHITE STRIPE	(C)
PROPOSED WHITE STRAIGHT ARROW	(D)
PROPOSED TACTLE SURFACE LOCATION & NUMBER	(TS#)
PROPOSED "DO NOT ENTER SIGN" (R6-2A)	(DNE)

LEGEND:

(17.35)	PROPOSED GRADE
17.70	EXISTING ELEVATION
	DRAINAGE SHEET FLOW DIRECTION ARROW
	DENOTES PROPOSED PAVEMENT
	DENOTES PROPOSED CONCRETE SIDEWALK OR CONCRETE INGRESS / EGRESS AREA
	DENOTES PROPOSED PAVER BRICK WALK
LF	LINEAR FEET
HP	HIGH POINT
EXIST	EXISTING
TOC	TOP OF CURB
18.80	PROPOSED FINISHED FLOOR ELEVATION
R	RADIUS
TYP	TYPICAL
(MEG)	MATCH EXISTING GRADE
C.O.	SANITARY CLEAN OUT
MIN.	MINIMUM
DIP	DUCTILE IRON PIPE
RPZ	REDUCED PRESSURE ZONE
TS#	TACTILE SURFACE LOCATION & NUMBER
CR	CURB RAMP LOCATION

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

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.
6. REFER TO SHEET 2 THROUGH 4 FOR STORMWATER EROSION CONTROL DETAILS, POTABLE WATER DETAILS, GENERAL NOTES, DRAINAGE DETAILS, PERIMETER CROSS SECTIONS, PAVING DETAILS AND PAVING SPECIFICATIONS.
7. REFER TO DETAIL RT 4.1 AND DETAIL RT 4.2a ON SHEET 4 FOR DETAIL PARKING LOT STRIPING INFORMATION.
8. CONTRACTOR TO CONFIRM LOCATION OF ONSITE EXISTING SEWER LATERAL AND WATER SERVICE LINE PRIOR TO STORM DRAINAGE INSTALLATION AND NOTIFY CIVIL ENGINEER OF RECORD IF EITHER CONFLICTS WITH PROPOSED STORM DRAINAGE SYSTEMS SHOWN HEREON.
9. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.).

STRIPING NOTES:

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

12/21/16
THOMAS F. [illegible]
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

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

NO.	REVISION	BY	DATE
1	REVISIONS PER P/Z SPRAB COMMENTS; ADD THIS SHEET FOR CIVIL IMPROVEMENTS WITHIN R/W	CBK	NOV 2016

PROPOSED CIVIL IMPROVEMENTS WITHIN W ATLANTIC AVENUE RIGHT-OF-WAY

HESSLER PAINT SITE IMPROVEMENTS
4591 W. ATLANTIC AVENUE
DELRAY BEACH, FLORIDA 33445

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

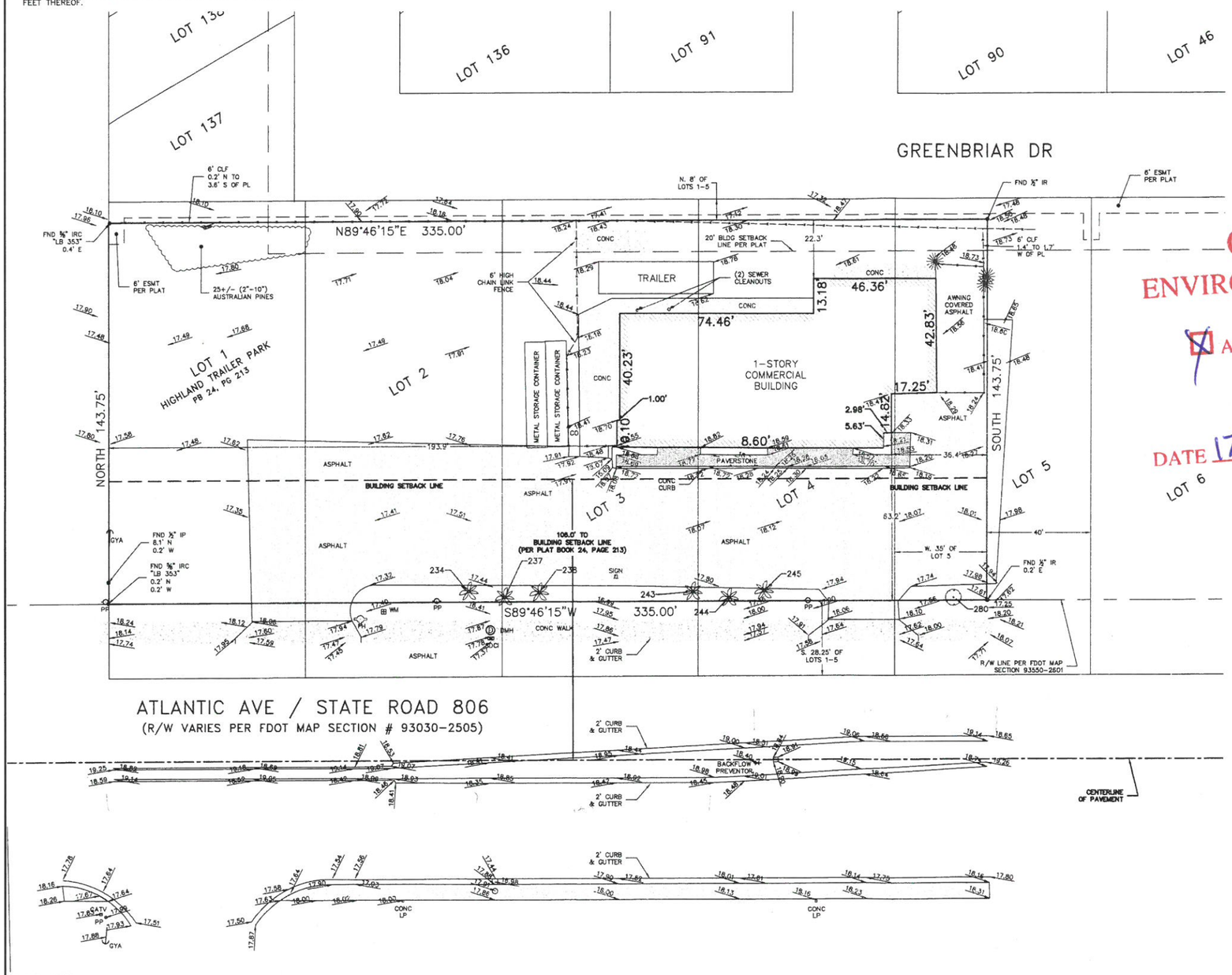
MADE CBK DATE APR 2016 F.B. 2075: 2180 PG 53-55; 16-18
CHECKED ____ DATE ____ SCALE 1" = 20'
JOB NO. JG-100-9573 SHEET 6 OF 7

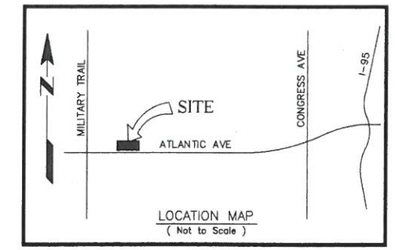
Drawings:K:\JG9573\CAD Files\CIVIL PLANS\JG9573 CIVIL PLANS OCT 2016.dwg\C1 IN RW 6

SKETCH OF SURVEY

PROPERTY DESCRIPTION:

LOTS 1, 2, 3, 4 AND WEST 35 FEET OF LOT 5, HIGHLAND TRAILER PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 24, PAGE 213, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, LESS THE SOUTH 28.25 FEET THEREOF AND LESS THE NORTH 8.00 FEET THEREOF.





SECTION 13, TOWNSHIP 46 SOUTH, RANGE 42 EAST

GRAPHIC SCALE IN FEET 20 15 10 0 20 40

CITY OF DELRAY BEACH
ENVIRONMENTAL SERVICES DEPARTMENT
☒ APPROVED ☐ NOT APPROVED
COMMENTS
DATE 12/27/16 SIGNATURE

Tree#	Description
234	3-4" Queen Palm
237	4-4" Robellini
238	3-4" Queen Palm
243	3-4" Queen Palm
244	4-4" Robellini
245	3-4" Queen Palm
265	5" Australian Pine
266	5" Australian Pine
280	10" Mahogany
292	5" Australian Pine

LEGEND

A	= Arc Length
BM	= Benchmark
BLDG	= Building
C	= Calculated
CATV	= Cable Television Riser
CL	= Centerline
CLF	= Chain Link Fence
CBS	= Concrete Block Structure
CM	= Concrete Monument
CONC	= Concrete
CP	= Concrete Pole
D	= Central Angle
DE	= Drainage Easement
DRNG	= Drainage
ESMT	= Easement
ELEV	= Elevation
F	= Measured in field or calculated from field measurements
FH	= Fire Hydrant
FND	= Found
FPL	= Florida Power & Light
GV	= Gate Valve
HH	= Handhole
IP	= Iron Pipe
IR	= Iron Rod
IRC	= Iron Rod & Plastic Cap
LAE	= Limited Access Easement
LP	= Light Pole
LME	= Lake Maintenance Easement
N&D	= Nail and Disc
-OHW-	= Overhead Wire
ORB	= Official Record Book
P	= Plat
PB	= Plat Book
PBCR	= Palm Beach County Records
PCP	= Permanent Control Point
PG	= Page
PL	= Property Line
PP	= Power Pole
PRM	= Permanent Reference Monument
R	= Radius
R/W	= Right-of-Way
SBT	= Southern Bell Riser
SIRC	= Set Iron Rod & Plastic Cap
SWK	= Sidewalk
UE	= Utility Easement
WM	= Water Meter
WP	= Wood Pole

STREET ADDRESS:
4591 ATLANTIC AVE
DELRAY BEACH, FL

SURVEY NOTES :

1. THE BEARINGS REFERENCED HEREON ARE BASED ON AN ASSUMED BEARING OF NORTH ALONG THE WEST BOUNDARY OF SAID LOT 1 OF SAID HIGHLAND TRAILER PARK PLAT.
2. OWNERSHIP OF FENCES AND WALLS SHOWN ON THIS DRAWING WERE NOT DETERMINED.
3. SYMBOLS HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE FEATURE.
4. NO TITLE OPINION OR ABSTRACT HAS BEEN PROVIDED. NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THE SURVEYOR. THERE MAY BE DEEDS, EASEMENTS, OR OTHER INSTRUMENTS EITHER RECORDED OR UNRECORDED, WHICH MAY AFFECT THE SUBJECT PROPERTY.
5. THIS SURVEY IS LIMITED TO THE LOCATION OF ABOVE GROUND IMPROVEMENTS ONLY. UNDERGROUND FOUNDATIONS AND ENCROACHMENTS WERE NOT LOCATED OR SHOWN HEREON. ANY UTILITY LINES SHOWN HEREON WERE LOCATED AS PAINT MARKS ON THE GROUND, AS MARKED BY OTHERS.
6. TREE TYPES ARE DETERMINED TO THE BEST OF OUR KNOWLEDGE. EXACT SPECIES SHOULD BE DETERMINED BY A LICENSED BOTANIST, DENDROLOGIST OR OTHER PROFESSIONAL WITH SUCH CAPACITY.
7. INSTRUMENTS OF RECORD SHOWN HEREON REFER TO THOSE FOUND IN THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA UNLESS NOTED OTHERWISE.

SCALE SHOWN IS FOR FULL SIZE PRINT OF 24" X 36"

REDUCED PRINTS WILL NOT BE TO SCALE

BOUNDARY SURVEY:

I HEREBY CERTIFY : This sketch of survey of the above described property is true and correct to the best of my knowledge and belief as recently surveyed under my direction, and conforms to the minimum technical standards as set forth by the Florida Board of Professional Land Surveyors in Chapter 5J17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

03/09/2016
THOMAS F. LUBANOVIC (DATE OF LAST FIELD WORK)
Professional Surveyor & Mapper No. 6939
State of Florida

Not Valid Without The Signature And The Original Raised Seal Of A Florida Licensed Surveyor And Mapper.

NO.	REVISION	BY	DATE
4	UPDATE SURVEY TO INCLUDE BUILDING SETBACK LINE	TFL	07/01/16
3	UPDATE SURVEY – FB 2180-PG 16-18	TFL	03/16/16
2	UPDATE SURVEY	SAR	2/19/15
1	UPDATE SURVEY	SAR	11/22/13

BOUNDARY & TOPOGRAPHIC SURVEY OF PROPERTY DESCRIBED HEREON

LOTS 1, 2, 3, 4 & WEST 35 FEET OF LOT 5, HIGHLAND TRAILER PARK PLAT, PALM BEACH COUNTY, FLORIDA

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 SAR DATE 9 JUL 13 F.B. 2075 PG 53-55
CHECKED ____ DATE ____ SCALE 1" = 20'
JOB NO. JG-100-9573 SHEET 7 OF 7