



PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600

July 21, 2020

Mr. Gary Bloom
GGB Engineering
2699 Stirling Road, Suite C-202
Fort Lauderdale, FL 33312

**RE: Universal Air and Heat
980 SW 12 Ave
Pompano Beach
Project No. 200624001**

Dear Mr. Bloom,

Broward County Traffic Engineering Division has reviewed the above referenced plan and there are no school/pedestrian, fiber optic communication/interconnect or signal design comments.

A copy of the Pavement Marking and Signing Inspection Procedure and a copy of the Specifications for Retro-Reflective Sign Materials are attached for your use.

Reviewed by:

Signal Design: Rebecca Martinez @ 954-847-2619 or rmartinez@broward.org
Systems Communications: Robert Blount @ 954-847-2745 or rblount@broward.org
School/Pedestrians: Stephon Ramoutar @ 954-847-2671 or sramoutar@broward.org

Pavement markings and signing comments, acceptance and sign-off will be provided by the Broward County Highway Construction and Engineering Division.

You may call me at 954-847-2721, or contact me by E-mail at licarmona@broward.org, if you have any questions.

Sincerely,
LIANA CARMONA
2020.07.21 08:57:56
-04'00'
Liana Borrego

Broward County Board of County Commissioners

Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharieff • Michael Smith
Broward.org

P&Z

**PZ18-12000037
11/18/2020**

MEMORANDUM

Name	Initial and Date	Comments	
		Yes	No
1. Bob Blount			
2. Stephon Ramoutar			
3. Rebecca Martinez	REM 7/15/20		X
4.			
5.			
6.			

From: Liana Borrego

RE: Universal Air and Heat
980 SW 12 Ave
Pompano Beach
Project No. 200624001

Date: July 15, 2020

Please review the attached plan for the following date and return to me by **July 29, 2020**.

Communications:

___ Communication infrastructure is in or within approximately 1500 feet of the proposed construction area.

___ Communication Conduit/Interconnect is not in the area.

Signals:

___ Traffic Signal will need to be modified

Special Projects:

Schools

___ School issues are in the area of proposed construction.

___ Flashers

___ Maintenance of Traffic – School/Pedestrian Note – FDOT/BCTED

Traffic Calming ()

___ Pavement Marking and Signs

Street Lights

___ Street Lights are in the area of proposed construction.

Maintenance of Traffic

___ MOT

Security To Be Provided:

___ Communications Conduit/Interconnect Cable

___ Other _____

P&Z

PZ18-12000037

11/18/2020

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Broward County Traffic Engineering Division
Pavement Marking and Signing Inspection Request Procedure
(Effective Date: October 1, 2009)

- 1) The Broward County Traffic Engineering Division (BCTED) limits inspections to final inspections only. Inspections are limited to work/projects in the public right-of-way or connections to the public right-of-way.
- 2) Traffic Engineering Division staff's contact for a project is the Engineer-of-Record (EOR) only. The EOR is expected to resolve any issues/questions raised by the pavement marking and signing Contractor(s) or Sub-Contractor(s).
- 3) It is the responsibility of the EOR to insure that the project is completed in conformance with the approved plan, prior to requesting a pavement marking and signing inspection. The EOR is to inspect the project and generate a punch list, as needed. The EOR will be responsible for making sure that the Contractor or Subcontractor correct the deficiencies listed in the punch list generated by the EOR.
- 4) After the EOR determines that the completed project conforms to the approved plans, the EOR shall take photographs to document the conformance. The photographs should be compared with the approved plans and be identified by station number. The photographs should show, but, not be limited to:
 - (a) RPM's - four-corner coverage, correct spacing and location.
 - (b) Signs - correct location, correct sign as shown on approved plan.
 - (c) Messages on Pavement - correct location, spelling and size.
 - (d) Arrows - correct location, shape and size, centered in lane.
 - (e) Edge Lines and Lane Lines - correct color and correct width.
 - (f) Stop Bar - correct location and width.
 - (g) Reflectivity of Thermoplastic markings - even distribution of glass beads.
- 5) After all deficiencies have been satisfactorily corrected, the EOR will be able to submit a final inspection/acceptance request to BCTED.
- 6) The EOR shall submit a written request for pavement marking and signing inspections to Liana Carmona. The complete inspection request shall include:

- (a) A signed and sealed letter requesting the inspection and certifying that the project conforms to the approved plans, and that the EOR has personally inspected the completed project for conformance with the approved plan.
- (b) Photographs which document that the completed project conforms to the approved plan.
- (c) Copies of the Broward County Certificate of Competency, issued by the Broward County Permitting, Licensing and Consumer Protection Division, for each contractor and/or sub-contractor that worked on the pavement marking and signing portion of the project.

7) Upon receipt of the certification letter and photographs, BCTED staff will examine the photographs within one week of receipt of a completed request. If a review of the photographs reveals deficiencies in the project, the EOR will be notified in writing by US Mail or by E-Mail, that the photographs indicate that the project is not ready for a final inspection. No field inspection will be performed and no punch list will be issued by BCTED. The EOR will be asked to repeat the certification and inspection request procedure, detailed in paragraphs 4 through 6, after the project deficiencies have been corrected.

8) If a BCTED staff review of the photographs does not show major deficiencies, a field inspection will be performed and the results will be provided to the EOR within four weeks of receipt of the completed certification package. If the project is accepted, an acceptance letter will be sent to the EOR, via US Mail or by E-mail. If, however, several deficiencies are identified during the field inspection, the inspection will be terminated and the EOR will be notified of the termination by US Mail or by E-mail. No punch list will be issued by BCTED. The Engineer-of-Record will be instructed to repeat the certification and inspection request procedure, detailed in paragraphs 4 through 6, after the project deficiencies have been corrected.

9) Items that will result in the termination of an inspection include, but are not limited to:

- (a) A lack of uniformity of glass bead coverage, at multiple locations.
- (b) A lack of reflectivity of the Thermoplastic markings, at multiple locations.
- (c) Incorrect application of materials, not in conformance with manufacturer's instructions.
- (d) Incorrect color or thickness of Thermoplastic markings.
- (e) Signs that are missing, incorrectly spelled, or that are not to current standards.
- (f) A lack of four-corner coverage on multiple RPM's.

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TO: Public Works Department, Traffic Engineering Division and Affected Parties
FROM: Scott Brunner, Director, Traffic Engineering Division
DATE: December 9, 2016 *SB 12/9/2016*
SUBJECT: Traffic Engineering Division Technical Policy Memo #TPM-16-001
Specifications for Retroreflective Traffic Sign Materials

EFFECTIVE: December 9, 2016
EXPIRES: September 30, 2018
PRIOR EFFECTIVE: December 29, 2015 through December 8, 2016

In response to recent directives established by the Federal Highway Administration (FHWA), and in accordance with Section 2A.08 of the 2009 Manual on Uniform Traffic Control Devices (MUTCD) pertaining to minimum standards of retroreflectivity for roadway traffic signs, it shall be the policy of the Traffic Engineering Division to fabricate, install and maintain all traffic control signs under its jurisdiction with the highest grade of retroreflective materials available in the industry. The use of the highest quality materials will ensure optimal levels of retroreflectivity throughout the life of the subject traffic control signs, reduce field maintenance and life-cycle replacement, and improve overall safety for system users.

Therefore, effective December 9, 2016, the Traffic Engineering Division shall continue to only install and approve traffic control signs that meet all of the following:

1. Meet the criteria outlined in Section 2A.08 of the 2009 MUTCD
2. Meet the specifications outlined in Section 700 and 994 of the 2016 Standard Specifications of the Florida Department of Transportation (FDOT).
3. Consist of sheeting materials certified to meet the reflective sheeting requirements outlined in the 2009 version of **ASTM D4956** for **Type XI** (FDOT Type XI) retroreflective sheeting materials made with prisms, except for school zone and pedestrian signs which shall be comprised of reflective fluorescent yellow-green sheeting certified to meet **ASTM D4956 Type IV** (FDOT Type IV) reflective sheeting requirements.
4. Consist of retroreflective sheeting materials that have a valid FDOT Qualified Product List (QPL) certification for Specification 700 Highway Signing for FDOT Sheeting Type XI (or Type IV for school and pedestrian signs), approved for jobs let after December 31, 2015.

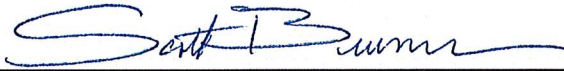
These specifications shall be applied to all County, municipal and privately-installed traffic control signs to be maintained by the Traffic Engineering Division, and shall be applicable to all sign types and colors, except fluorescent pink emergency management signs that shall be covered by a future policy memorandum.

Traffic Engineering Division Technical Policy Memo #TPM-16-001 Specifications for Retroreflective Traffic Sign Materials

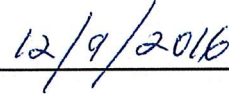
EFFECTIVE DATE

This policy shall be in effect through September 30, 2018, unless superseded by an updated technical policy memorandum.

APPROVED



Scott Brunner, P.E.
Division Director



Date

- C. Andrew Sebo, Assistant Director, Traffic Engineering Division
Ron Delello, Signs and Pavement Marking Superintendent, Traffic Engineering Division
Kaylee Kildare, Sign Shop Supervisor, Traffic Engineering Division

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