



# AGENDA ITEM REQUEST FORM

Item No. 11c

**Municipal Services**

Department Submitting Request

**Don Prince**

Dept Head's Signature

**REG COMMISSION**  
**Meeting Dates 7:00PM**

**DEADLINE TO**  
**Town Clerk's Office**

**ROUNDTABLE**  
**Meeting Dates 7:00PM**

**DEADLINE TO**  
**Town Clerk's Office**

- Oct 12, 2010
- Nov 9, 2010\*
- Dec 14, 2010
- Jan 11, 2011
- Feb 8, 2011
- Mar 8, 2011

- Oct 1 (5:00 pm)
- Oct 29 (5:00 pm)
- Dec 3 (5:00 pm)
- Dec 31 (5:00 pm)
- Jan 28 (5:00 pm)
- Feb 25 (5:00 pm)

- Oct 26, 2010
- Nov 23, 2010\*
- Dec 28, 2010\*
- Jan 25, 2011
- Feb 22, 2011
- Mar 22, 2011

- Oct 15 (5:00 pm)
- Nov 12 (5:00 pm)
- Dec 17 (5:00 pm)
- Jan 14 (5:00 pm)
- Feb 11 (5:00 pm)
- Mar 11 (5:00 pm)

\*Subject to Change

- Presentation
- Resolution
- Reports
- Quasi Judicial
- Consent
- Old Business
- Ordinance
- New Business

**SUBJECT TITLE:** A Resolution (Exhibit 1) of the Town of Lauderdale-By-The-Sea, Florida authorizing a construction agreement (Exhibit 2) with the State of Florida, Department of Transportation for construction, installation and maintenance of sign improvements within the State Right of Way.

**EXPLANATION:** In order for the Town to erect parking signs in the Florida Department of Transportations Right of Way to guide residents and visitors to Town parking, the Town must approve a resolution stating that the Town would be responsible for any maintenance or repair. These signs as shown on Exhibit 3, direct the public to the El Prado and Bougainvilla parking lots.

**RECOMMENDATION:** Approve

**EXHIBITS:** Exhibit 1: Resolution  
Exhibit 2: FDOT Construction Agreement  
Exhibit 3: Pictures

**FISCAL IMPACT AND APPROPRIATION OF FUNDS:** N/A

- Amount \$ \_\_\_\_\_
- Transfer of funds required
- Acct # \_\_\_\_\_
- From Acct # \_\_\_\_\_

Town Attorney review required  
 Yes  No

Town Manager Initials CP

10/7/2010  
4:30 PM



## Florida Department of Transportation

CHARLIE CRIST  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, FL 33309-3421

STEPHANIE C. KOPELOUSOS  
SECRETARY

September 30, 2010

Don Prince  
Town of Lauderdale by the Sea  
4501 Ocean Dr.  
Lauderdale by the Sea, Florida 33308

Dear Mr. Prince;

Subject: Permit No. 2010 C 491 0006  
State Section 86050  
Project: installing parking signs

The Department has completed the review of this permit. Enclosed is the approval from Traffic Operations and review comments from the Legal Department from Dawn Raduano. Please address her comments and submit the following.

- The city resolution for these signs.

**FINAL NOTICE:** This permit will be voided without further notice by **10/30/2010**, if the required items are not submitted.

If you have any questions, please contact us at the address above or telephone me.

Sincerely,

A handwritten signature in black ink, appearing to read "Juan Carlos Rodriguez".

Juan Carlos Rodriguez  
District Permits Coordinator  
Phone: 954-777-4437  
[Juan.Rodriguez@dot.state.fl.us](mailto:Juan.Rodriguez@dot.state.fl.us)

JCR/jcr

cc: Christine Bacomo, File:

DISTRICT 4 PERMITS REVIEW TRANSMITTAL

2010-4-491-0006

DATE: 9-17-10 | SUSPENSE DATE: 9-30-10

TO: Jonathon Overton, P.E. Traffic Operation (954) 777-4367

FROM: Juan Carlos Rodriguez, Permits (954) 777-4437

RECEIVED  
SEP 21 2010  
DIST.IV - PERMITS

( ) THIS HAS BEEN PREVIOUSLY REVIEWED BY: \_\_\_\_\_

County: Broward	Section: 86050	Mile Post: 9.830 to 9.835	State Road: A1A	FM: N/A
Nearest Major Intersection: Commercial Blvd.				
Description: Town of Lauderdale by the Sea is proposing to install parking signs.				

Attached is one set of plans/prints for the above referenced permit. Please review the following aspects:

- ( ) Roadway Design      ( ) Drainage on Site      ( ) Drainage on RW
- ( ) Lighting              ( ) Sight Distance      (X) Parking Signs
- ( ) Structural            ( ) Utility                ( ) Access Management

PLEASE RETURN PLANS AND MEMO TO JOSETTE AMITIRIGALA IN THE PERMITS OFFICE BY THE SUSPENSE DATE ABOVE.

For general information about the permitting process, please visit our intranet site at <http://dotsd4hqweb.d4b.dot.state.fl.us/d4%20maintenance/Permits.htm>

Reviewer Name: Teresa O'Connor Date: 9/20/10

- Approved      ( ) Markups      ( ) Comments E-mailed

FHWA Approval Required ( ) Yes ( ) No

Does any other department (not listed in the copies to) need to review this package?

If so, which office(s):

Comments:



PLEASE CHECK HERE

	DISTRICT 4 GENERAL COUNSEL  2010 SEP 23 AM 10:35  FLORIDA DOT FT. LAUDERDALE	
--	--	--

**DOT D4 OFFICE OF THE GENERAL COUNSEL  
CONTRACT DOCUMENT TRACKING FORM**

To: (Attorney): <u>Dawn Raduano</u>	From: <u>Juan Carlos Rodriguez</u>	Ext.: <u>4437</u>
Submittals: Date: <u>9/23/2010</u>	Date: _____	Date: _____

**DIVISION (File Type):**

**TRANS. OPERATIONS**     **TRANS. DEVELOPMENT**     **TRANS. SUPPORT**

**CONTRACT DOCUMENT TYPE (CHECK ONE ONLY):**

**RUSH**

- |   |   |
|---|---|
| <input type="checkbox"/> Adopt -A - Highway                 | <input type="checkbox"/> District Contract                          |
| <input type="checkbox"/> Change Orders                      | <input type="checkbox"/> Joint Participation Agreement              |
| <input type="checkbox"/> Closeouts and 21-A's               | <input type="checkbox"/> Joint Participation Agreement Supplemental |
| <input type="checkbox"/> Consultant Agreement               | <input type="checkbox"/> Joint Project Agreement                    |
| <input type="checkbox"/> Consultant Supplemental Amendment  | <input checked="" type="checkbox"/> Construction Agreement          |
| <input type="checkbox"/> Contractual Services               | <input type="checkbox"/> Railroad Agreement                         |
| <input type="checkbox"/> Construction / Maint. Supplemental | <input type="checkbox"/> RFP / ITB                                  |
| <input type="checkbox"/> Construction Spec. Package         | <input type="checkbox"/> Subordination of Utility Agreement         |

**COMMENTS:** 2010 C 491 0006 Construction Agreement Permit

**SUPPLEMENTAL NO:** \_\_\_ **AMENDMENT NO:** \_\_\_ **RFP/ITB NO:** \_\_\_ **ITEM SEGMENT:** \_\_\_

**STATE PROJECT NO:** \_\_\_\_\_ **CONTRACT NO:** \_\_\_\_\_ **AMOUNT: \$** \_\_\_\_\_

**VENDOR / CONTRACTOR / CONSULTANT:** Town of Lauderdale By the Sea

**FOR LEGAL USE ONLY**

Reviewed by: Dawn Raduano Date: Sept 23, 2010

Approved:     Subject to Comments:     Not Approved:  27968

**COMMENTS:** See legal review

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved:     Subject to Comments:     Not Approved:

**COMMENTS:** \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved:     Subject to Comments:     Not Approved:

**COMMENTS:** \_\_\_\_\_

# EXHIBIT 1

## RESOLUTION 2010-35

1  
2  
3 **A RESOLUTION OF THE TOWN OF LAUDERDALE-BY-**  
4 **THE-SEA, FLORIDA, AUTHORIZING A CONSTRUCTION**  
5 **AGREEMENT WITH THE STATE OF FLORIDA,**  
6 **DEPARTMENT OF TRANSPORTATION FOR**  
7 **CONSTRUCTION, INSTALLATION AND MAINTENANCE**  
8 **OF SIGN IMPROVEMENTS WITHIN THE STATE RIGHT**  
9 **OF WAY; DIRECTING THE APPROPRIATE TOWN**  
10 **OFFICIAL TO EXECUTE THE AGREEMENT;**  
11 **PROVIDING FOR REPEAL OF ANY CONFLICTING**  
12 **RESOLUTION; SEVERABILITY; AND PROVIDING AN**  
13 **EFFECTIVE DATE.**  
14

15 **WHEREAS,** the Town of Lauderdale-By-The-Sea has proposed the installation of  
16 signage to better inform the public of available parking and locations of pedestrian crosswalks;  
17 and

18 **WHEREAS,** it is in the interest of the Town and community residents and visitors that  
19 this additional signage be constructed, installed and maintained; and

20 **WHEREAS,** the Town has reached an agreement with the State of Florida, Department  
21 of Transportation (“the Department”) for the construction, installation and maintenance of such  
22 additional signage.

23 **NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF**  
24 **THE TOWN OF LAUDERDALE-BY-THE-SEA, FLORIDA:**

25 **Section 1. Recitals.** Each “WHEREAS” clause set forth is true and correct, and  
26 herein incorporated by this reference.

27 **Section 2. Execution of Agreement.** The Town Manager is hereby authorized to  
28 execute on behalf of the Town the Construction Agreement (the “Agreement”) with the  
29 Department in the form attached hereto as Exhibit “A” with such non-material changes as may

30 be approved by the Town Manager and Town Attorney, and such other documents necessary to  
31 implement the terms of the Agreement.

32 **Section 3. Authorized Individuals.** The Town Manager and her designee and the  
33 Town Attorney are authorized to take all actions necessary to implement the terms of the  
34 Agreement.

35 **Section 4. Conflict.** All resolutions or parts of resolution in conflict herewith are  
36 hereby repealed to the extent of such conflict.

37 **Section 5. Severability.** If any clause, section or other part of this resolution shall  
38 be held by any court of competent jurisdiction to be unconstitutional or invalid, such  
39 unconstitutional or invalid part shall be considered as eliminated and in no way affecting the  
40 validity of the other provisions of this resolution.

41 **Section 6. Effective Date.** This resolution shall become effective immediately upon  
42 its passage.

43 **PASSED AND ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

44  
45  
46  
47 \_\_\_\_\_  
48 Mayor Roseann Minnet

49 Attest:

50  
51 \_\_\_\_\_  
52 Town Clerk, June White CMC  
53 (CORPORATE SEAL)

54  
55 APPROVED AS TO FORM:

56  
57  
58  
59  
60 \_\_\_\_\_  
61 Susan L. Trevarthen, Town Attorney  
62

# EXHIBIT 2

## STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AGREEMENT

850-040-89  
MAINTENANCE  
OGC - 06/10  
Page 1 of 4

**THIS CONSTRUCTION AGREEMENT (this "Agreement")** is made and entered into by and between the State of Florida, Department of Transportation, (Address) \_\_\_\_\_ (hereinafter referred to as the "DEPARTMENT") and Town Of Lauderdale By the Sea \_\_\_\_\_ 4501 Ocean Dr. Lauderdale by the Sea Fl. \_\_\_\_\_ (hereinafter referred to as the "Construction Coordinator").

### WITNESSETH:

**WHEREAS**, the DEPARTMENT is authorized and required by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and

**WHEREAS**, pursuant to Section 339.282, Florida Statutes, the DEPARTMENT may contract with a property owner to finance, construct, and improve public transportation facilities; and

**WHEREAS**, the Construction Coordinator proposes to construct certain improvements to SR A1A/870 Section 86050/86014 Subsection 000 from Begin MP \_\_\_\_\_ to End MP \_\_\_\_\_ Local Name A1A and Commercial Blvd. located in Broward County (hereinafter referred to as the "Project"); and

**WHEREAS**, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT'S right of way to construct the Project, which will become the property of the Department upon acceptance of the work.

**NOW, THEREFORE**, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions:

1. The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT'S right of way to perform all activities necessary for the construction of **See attached exhibit A scope of services/special provisions.**

2. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT'S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the DEPARTMENT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the DEPARTMENT Plans Preparation Manual ("PPM") Manual for Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Florida Green Book") and the DEPARTMENT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the project at all times and coordinate any work needs of the DEPARTMENT during construction of the project.

3. The Construction Coordinator shall notify the DEPARTMENT a minimum of 48 hours before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.

4. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator's performance of the Project. Such amount shall be carried in a minimum amount of not less than Local Government - N/A and 00/100 Dollars (\$ \_\_\_\_\_) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than \_\_\_\_\_ and 00/100 Dollars (\$ \_\_\_\_\_) for property damage, or a combined coverage of not less than \_\_\_\_\_ and 00/100 Dollars (\$ \_\_\_\_\_). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the

DEPARTMENT with certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a local governmental entity they will be exempt from these requirements.

5. The Construction Coordinator shall be responsible for monitoring construction operations and the maintenance of traffic ("MOT") throughout the course of the project in accordance with the latest edition of the DEPARTMENT Standard Specifications, section 102. The Construction Coordinator is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the DEPARTMENT Design Standards, Index 600 series. Any MOT plan developed by the Construction Coordinator that deviates from the DEPARTMENT Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the DEPARTMENT prior to implementation.

6. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

7. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.

8. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to chapter 163, Florida Statutes.

9. The Construction Coordinator shall perform all required testing associated with the design and construction of the project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.

10. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.

11. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.

12. All work and construction shall be completed within 30 days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days prior written notice of termination to the Construction Coordinator.

13. The Construction Coordinator shall be responsible to maintain and restore all features that might require relocation within the DEPARTMENT right of way.

14. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.

15. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance to the plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.

16. If the DEPARTMENT determines that the Project is not completed in accordance with the provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction

Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice.

17. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.

18. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below.

19. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.

20. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

21. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.

22. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.

23. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.

24. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.

25. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.

26. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

27. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of this Agreement remain enforceable.

28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.

29. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of

this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.

**CONSTRUCTION COORDINATOR CONTACT INFORMATION**

Name Don Prince Title Municipal Services Director  
Office No. 954-776-5119 Cell 954-275-0908 Email donp@lauderdalebythesea-fl.gov

Name \_\_\_\_\_ Title \_\_\_\_\_  
Office No. \_\_\_\_\_ Cell \_\_\_\_\_ Email \_\_\_\_\_

Mail Address 4501 Ocean Dr. Lauderdale by the Sea, Florida 33308

**IN WITNESS WHEREOF**, Construction Coordinator and the DEPARTMENT have executed this Agreement for the purposes herein expressed on the dates indicated below.

**CONSTRUCTION COORDINATOR**

By: [Signature] (Signature)  
Don Prince (Print Name)  
Municipal Services Director (Title)  
8/13/2010 (Date)

**DEPARTMENT OF TRANSPORTATION**

By: \_\_\_\_\_ (Signature)  
\_\_\_\_\_ (Print Name)  
\_\_\_\_\_ (Title)  
\_\_\_\_\_ (Date)

**Legal Review:**  
\_\_\_\_\_

## **EXHIBIT A**

### **I. SCOPE OF SERVICES**

Provide a description of the improvements proposed within FDOT ROW.

**The Town of Lauderdale by the Sea is proposing the addition of signage to inform the Public of available Public Parking and Pedestrian Crosswalks. All signs will be installed in accordance with FDOT Standard 11860.**

### **II. PROJECT PLANS**

The Construction Coordinator is authorized to install the Project in accordance with the attached plans prepared by Don Prince and dated 08/13/2010. Any revisions must be approved by the DEPARTMENT in writing.

### **III. SPECIAL PROVISIONS FOR CONSTRUCTION**

Add special conditions that apply to the proposed improvements (i.e. pre-construction conference required, agreement subject to Construction Coordinator obtaining all necessary permits from other agencies, submit as-built plans, etc.) The Town of Lauderdale by the Sea shall be responsible for the maintaining the signs after they have been installed.

# EXHIBIT 3



Location: Northbound A1A approaching  
Commercial Blvd.  
Install sign assembly in the sidewalk at back-of-sidewalk





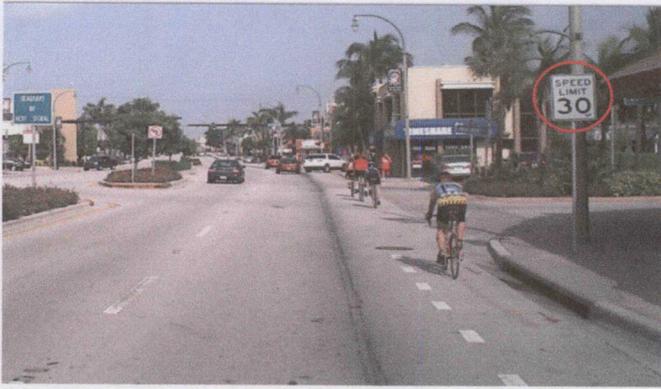
Location: Northbound A1A approaching  
El Prado.  
Install sign on top of existing Bus Stop sign





Location : Southbound A1A at El Prado  
Install sign on lightpost





Location : Westbound Commercial Blvd at  
Bougainville.  
Remove 30 MPH Speed Limit sign panel.  
Install Parking sign on remaining post.





Location : Westbound Commercial Blvd.  
just West of Bougainvillea.  
Install new sign post and 30 MPH Speed Limit  
sign panel in sidewalk, behind brick pavers.



Location : Eastbound Commercial Blvd at  
Bougainville.  
Install Parking sign in the median.





Location : Southbound A1A at the  
Parking Lot entrance.  
Install Parking sign behind 'Do Not Enter' sign,  
facing southbound traffic.



**SINGLE COLUMN GROUND SIGN NOTES:**

- 1) DESIGN WIND SPEED: See Wind Speeds by County.
- 2) GENERAL SPECIFICATIONS: Current FDOT Standard Specifications for Road and Bridge Construction and supplements thereto.
- 3) DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, as modified by the FDOT Structures Manual.
- 4) ALUMINUM: Aluminum Materials shall meet the requirements of Aluminum Association Alloy 6061-T6 (ASTM B209, B221, or B308), except as noted below.
- 5) CONCRETE: Class I.
- 6) SIGN PANELS: 0.08 inches min. thick Aluminum Plate with all corners rounded.
- 7) ALUMINUM BOLTS, NUTS, AND LOCK WASHERS:
  - a. Aluminum bolts: ASTM F468, Alloy 2042-T4 with at least 0.0002 inches thick anodic coating and chromate sealed.
  - b. Nuts: ASTM F467, Alloy 6061-T6 or 6262-T9.
  - c. Lockwashers: ASTM B221, Alloy 7075-T6.
- 8) STAINLESS STEEL BOLTS, NUTS, AND LOCKWASHERS: Stainless Steel Bolts, Nuts, and Lockwashers: ASTM F593 and ASTM F594, Alloy Group 2. Condition A, CW2, or SH4 may be provided in lieu of Aluminum Bolts, Nuts, and Washers.
- 9) U-BOLTS, NUTS, AND LOCKWASHERS: U-bolts, Nuts, and Lockwashers: ASTM A307, Grade A, galvanized in accordance with ASTM F2329.
- 10) BREAKAWAY SUPPORTS REQUIREMENTS: Install non-frangible aluminum column (post) (larger than 3 1/2") with breakaway supports as shown on Sheet 5 of 8. Signs shielded by barrier wall or guardrail do not require breakaway support.
- 11) OPL: Manufacturers seeking approval of alternates to aluminum round tube, such as steel U-channel and steel square tube single post ground sign assemblies for inclusion on the Qualified Products List (QPL), must submit a OPL application, design calculations, detailed drawings and design tables showing the product meets all the requirements.

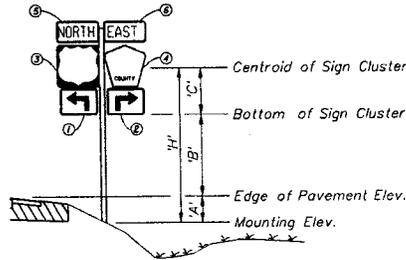
**WIND SPEEDS BY COUNTY:**

- 110 MPH  
Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafayette, Lake, Leon, Madison, Marion, Polk, Putnam, Sumter, Suwannee and Union counties.
- 130 MPH  
Bay, Brevard, Calhoun, Charlotte, Citrus, De Soto, Dixie, Duval, Flagler, Franklin, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lee, Levy, Liberty, Manatee, Nassau, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Sarasota, Seminole, St Johns, Taylor, Valusia, Wakulla, Walton and Washington counties.
- 150 MPH  
Broward, Collier, Dade, Escambia, Indian River, Martin, Monroe, Palm Beach, Santa Rosa and St. Lucie counties.

**GUIDE TO USE THIS STANDARD:**

1. Calculate the area and the centroid for an individual sign or a sign cluster. Note that the centroid and areas have been calculated for frequently used sign clusters. These are shown on Sheet No. 6, 7 & 8 of 8.
2. Determine the height 'H' from groundline for the individual sign or the cluster.
3. Select the appropriate Column (Post) Selection Tables by Wind Speed and find the intersection point.
4. Design the post and the foundation according to the dark-bold lines or shaded area (if cantilever sign) in the Column (Post) Selection Tables and Post and Foundation Table. For sign posts with signs oriented in two directions, only the sign with the largest area should be analyzed to determine the post requirements.

**EXAMPLE:**



Size H x V	Centroid			'A <sub>n</sub> '	'X <sub>n</sub> ' x 'A <sub>n</sub> '	'Y <sub>n</sub> ' x 'A <sub>n</sub> '	
	local 'Y <sub>n</sub> '	global 'X <sub>n</sub> '	global 'Y <sub>n</sub> '				
(IN x IN)	(IN)	(IN)	(IN)	(IN <sup>2</sup> )	(IN <sup>3</sup> )	(IN <sup>3</sup> )	
① 21 x 15	7.5	-10.5-1.5-1.5 = -13.5	7.5	315	-4,252.5	2,362.5	
② 21 x 15	7.5	10.5+1.5+1.5 = 13.5	7.5	315	+4,252.5	2,362.5	
③ 24 x 24	12	-12-1.5 = -13.5	15+1+12 = 28	576	-7,776	16,128	
④ 24 x 24	12	12+1.5 = 13.5	15+1+12 = 28	436	5,886	12,208	
⑤ 24 x 12	6	-12-1.5 = -13.5	15+1+24 = 40	288	-3,888	13,536	
⑥ 24 x 12	6	12-1.5 = 10.5	15+1+24 = 40	288	3,888	13,536	
				<b>2,218</b>	<b>-1,890</b>	<b>60,133</b>	<b>TOTALS</b>

$\Sigma('A_n') = 2,218 \text{ IN}^2 = 15.4 \text{ FT}^2$        $\Sigma('X_n' \times 'A_n') = -1,890 \text{ IN}^3 = -1.09 \text{ FT}^3$        $\Sigma('Y_n' \times 'A_n') = 60,133 \text{ IN}^3 = 34.8 \text{ FT}^3$

$'x'_c = \frac{\Sigma('X_n' \times 'A_n')}{\Sigma 'A_n'} = -0.1 \text{ FT}$        $'y'_c = \frac{\Sigma('Y_n' \times 'A_n')}{\Sigma 'A_n'} = 2.26 \text{ FT}$

Assume: Bay County, 'A' = 1 FT, 'B' = 7 FT

Calculated: 'X'<sub>c</sub> = -0.1 FT 'C' = 'y'<sub>c</sub> = 2.26 FT

Since 'X'<sub>c</sub> < 6", it is not a cantilever sign, only dark-bold lines in the table will be referenced to.

'H' = 'A' + 'B' + 'C' = 10.26 FT ==> **USE 11 FT**       $\Sigma('A_n') = 15.4 \text{ FT}^2$  ==> **USE 16 FT<sup>2</sup>**

**ALUMINUM COLUMN (POST) SELECTION TABLE  
(WIND SPEED = 130 MPH)**

TOTAL PANEL AREA (SF)	'H' (FT)												
	8	9	10	11	12	13	14	15	16	17	18	19	20
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

For WIND SPEED = 130 MPH,  
'H' = 11 FT, Area = 16 FT<sup>2</sup>

- Refer to the 130 mph Column (Post) Selection Table, as copied from Sheet 3 of 8 and shown here.
- Using the 16 ft<sup>2</sup> area on the left hand side of the table, go across to the 11 ft height and find the cell marked with X.
- find the symbol **ⓧ** which the dark-bold line under the X cell leads to.
- In the Post and Foundation Table, the symbol **ⓧ** concludes that the design requires a 4.0" diameter and 0.25" thick Aluminum Column (Post) and a 2.0' diameter and 4.0' deep Concrete Foundation.

**ⓧ** = If CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.

**NOTES AND EXAMPLE**

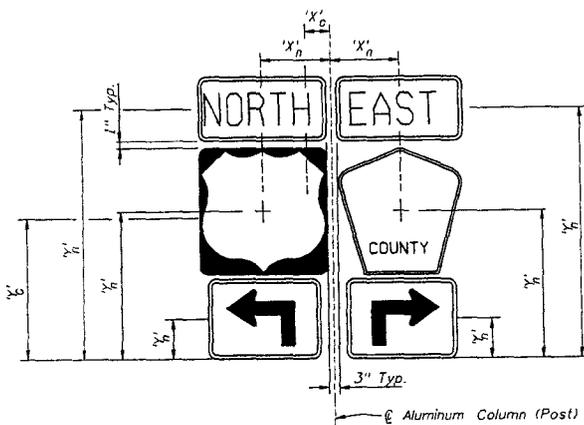


2010 FDOT Design Standards

**SINGLE COLUMN GROUND SIGNS**

Last Revision: 07/01/09  
Sheet No. 1 of 8

Index No. **11860**



SIGN CLUSTER

CALCULATION OF SIGN CLUSTER CENTROID:

$$X'_c = \frac{\sum X'_n \times A'_n}{\sum A'_n}$$

$$Y'_c = \frac{\sum Y'_n \times A'_n}{\sum A'_n}$$

$X'_c$  = Centroid horizontal location of sign or cluster from  $\ell$  Column (post)

$Y'_c$  = Centroid height of sign or cluster from bottommost edge

$H'$  = Height of sign or cluster centroid from groundline

$X'_n$  = Individual sign centroid horizontal location from  $\ell$  Column (post)

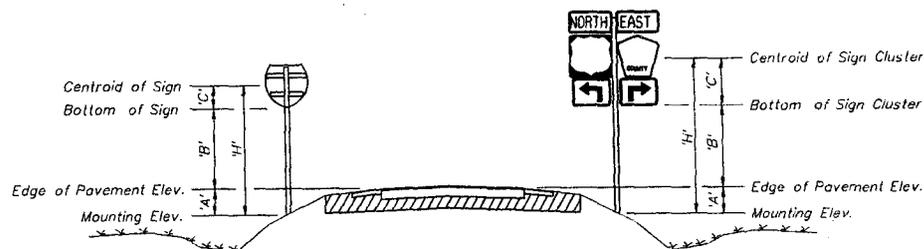
$Y'_n$  = Individual sign centroid height from bottommost edge

$A'_n$  = Area of Individual sign

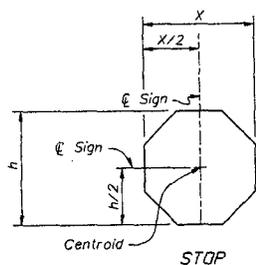
For 'A' & 'B' see Index No. 17302 and Roadway Plans.

NOTE:

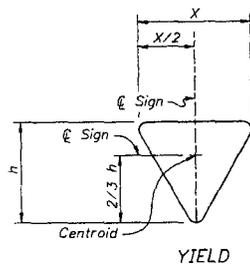
No sign or sign cluster area shall exceed 30 SF nor shall any sign or sign cluster have a total width exceeding 60 inches.



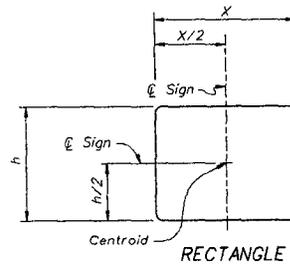
TYPICAL SECTION



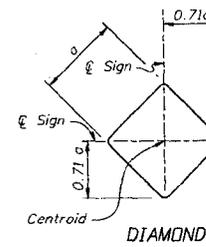
STOP



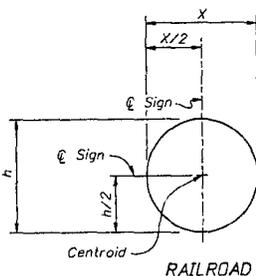
YIELD



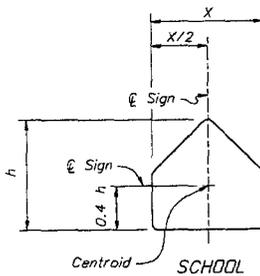
RECTANGLE



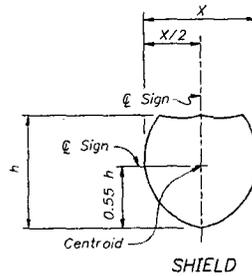
DIAMOND



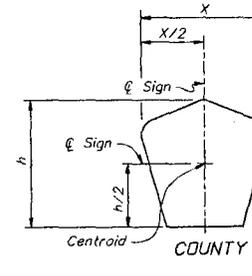
RAILROAD



SCHOOL



SHIELD



COUNTY

CENTROID AND HEIGHT



2010 FDOT Design Standards

SINGLE COLUMN GROUND SIGNS

Last Revision	Sheet No.
07/01/09	2 of 8
Index No.	
11860	

ALUMINUM COLUMN (POST) SELECTION TABLE  
(WIND SPEED = 110 MPH)

TOTAL PANEL AREA (SF)	'H' (FT)												
	8	9	10	11	12	13	14	15	16	17	18	19	20
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

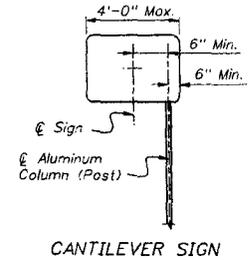
ALUMINUM COLUMN (POST) SELECTION TABLE  
(WIND SPEED = 130 MPH)

TOTAL PANEL AREA (SF)	'H' (FT)												
	8	9	10	11	12	13	14	15	16	17	18	19	20
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

ALUMINUM COLUMN (POST) SELECTION TABLE  
(WIND SPEED = 150 MPH)

TOTAL PANEL AREA (SF)	'H' (FT)												
	8	9	10	11	12	13	14	15	16	17	18	19	20
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

▨ = IF CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.



NOTE:  
All cantilever sign installations shall comply with Standard Index 17302.

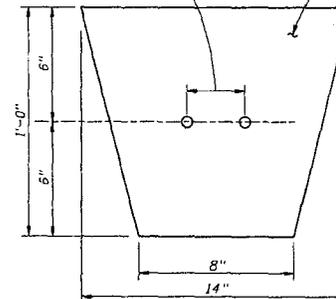
POST AND FOUNDATION TABLE					
Foundation Alternatives					
Post Size		Driven Post *		Concrete **	
Diameter (IN)	Wall (IN)	Depth (FT)		Diameter (FT)	Depth (FT)
		without Soil Plate	with Soil Plate		
0	2.0	1/8	4.5	2.5	2.0
1	2.5	1/8	5	3	2.0
2	3.0	1/8	5	3.5	2.0
3	3.5	3/16	6	4.5	2.0
4	4.0	1/4	---	---	2.0
5	4.5	1/4	---	---	2.0
6	5.0	1/4	---	---	2.0
7	6.0	1/4	---	---	2.0
8	8.0	5/8	---	---	2.0

\* INSTALLING FRANGIBLE COLUMN SUPPORTS:  
Columns (posts) may be installed by driving the columns in accordance with this Index, or as an alternate method, the columns (posts) may be set to the depth indicated in preformed holes backfilled with suitable material tamped in layers not thicker than 6" to provide adequate compaction or filled with flowable filler or bagged concrete.

\*\* See Note 5 on Sheet 1 of 8.

3/16" Ø Bolt Holes (Hole spacing to match U-Bolts) (washers as required)

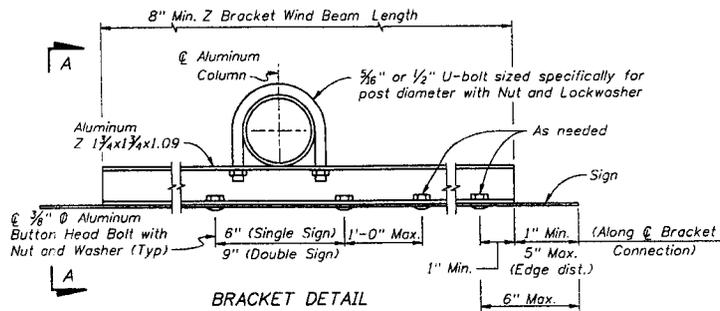
Thickness = 1/4"



ALUMINUM SOIL PLATE DETAILS

NOTES: 1. Align Soil Plate bottom at 2/3 of foundation depth.  
2. Slot up to 1 1/2" long is allowed to accommodate various post sizes.

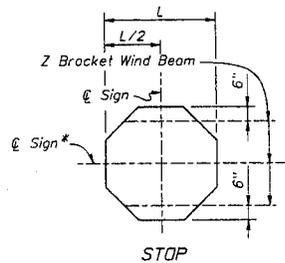
POST AND FOUNDATION TABLES



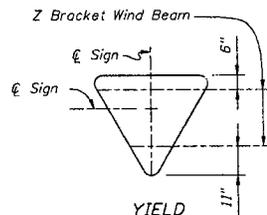
**NOTES:**

1.  $\frac{3}{16}$ "  $\varnothing$  Stainless Steel Hex Head Bolts with Flat Washer under Head and Lockwasher under Nut may be used in lieu of  $\frac{3}{16}$ "  $\varnothing$  Aluminum Button Head Bolts.
2. Nylon washers provided by the sheeting supplier shall be used on all ground mounted signs. The washers shall be installed under the sign bolt head to protect the sheeting.
3. Vertical spacing of brackets shall not exceed 2'-6". Use additional brackets, spaced evenly, to maintain maximum spacing.

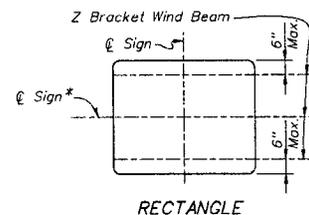
\*For signs with either dimension of sign size greater than 30". (See Sheet No. 6 thru 8 of 8 for sign size)



STOP

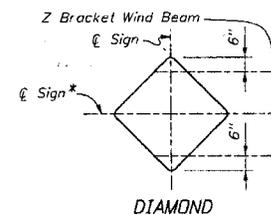


YIELD

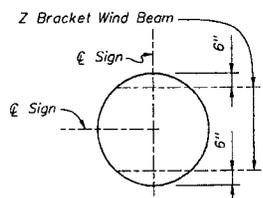


RECTANGLE

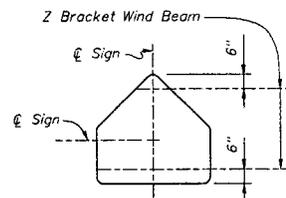
(Use only one Wind Beam at  $\varnothing$  Sign for sign height up to 12")



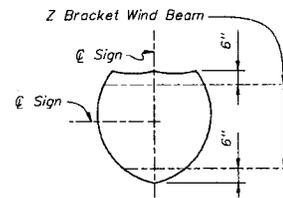
DIAMOND



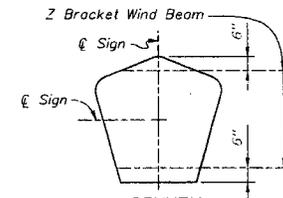
RAILROAD



SCHOOL

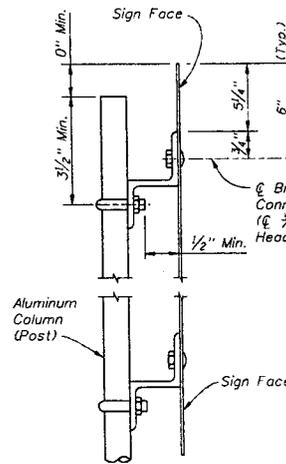


SHIELD

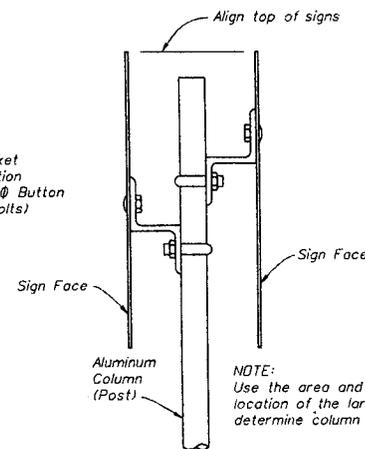


COUNTY

**CONNECTION AND WIND BEAM**

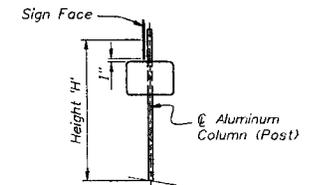


VIEW A-A



SIGNS BACK-TO-BACK

NOTE:  
Use the area and the centroid location of the largest sign to determine column (post) size.



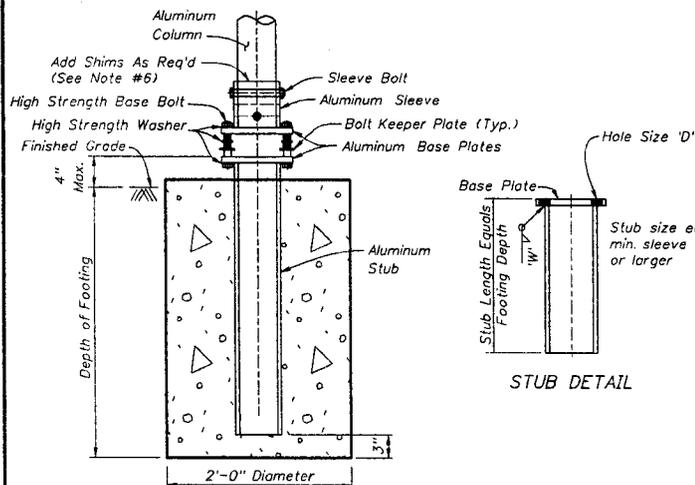
SIGNS AT 90°



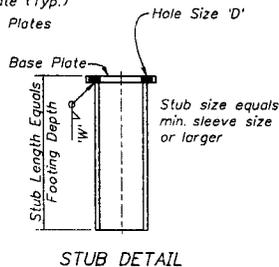
2010 FDOT Design Standards

**SINGLE COLUMN GROUND SIGNS**

Last Revision	Sheet No.
01/01/09	4 of 8
Index No.	
11860	



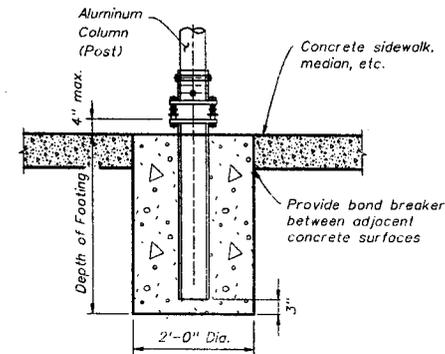
SLIP BASE AND FOOTING DETAIL  
(non-frangible post)



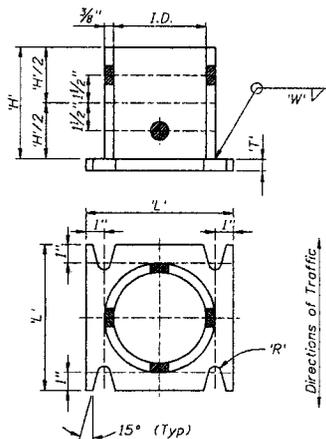
STUB DETAIL

**SLIP BASE NOTES:**

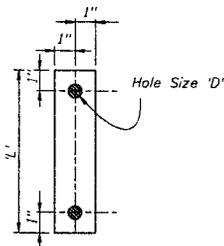
1. Use sleeves with an inside diameter (I.D.) no more than  $1/16$ " larger than the outside diameter (O.D.) of the column.
2. Sleeve Bolts: ASTM A-307,  $1/2$ "  $\emptyset$  galvanized steelbolt (with lock nuts) or Alloy 2024-T4 or 6061-T6 (ASTM B-211).
3. Base bolts, Nuts, and Washers: high strength ASTM A-325 with ASTM B633 SC3, Type II electroplated zinc coating.
4. Base plates may have either single or double beveled slots.
5. An alternate cast base plate of aluminum alloy 356 and T6 temper in lieu of the fabricated base plate may be submitted for approval. If a cast base plate is used, the stub will be the same size as the column and will be bolted to the casting.
6. Assemble the slip base connection in the following manner:
  - a. Connect column to sleeve using two  $1/2$ "  $\emptyset$  machine bolts.
  - b. Assemble top base plate to stub base plate using high strength bolts with three hardened washers per bolt. One of the three washers per bolt and two bolt keeper plates go between the base plates.
  - c. Use shim stock as required to plumb the column.
  - d. Tighten all bolts to the maximum possible with a 12" to 15" wrench. (This will bed the washers and shims and clear the bolt threads.)
  - e. Loosen each bolt one turn and using a calibrated wrench retighten to the prescribed torque (see table) under the supervision of the Project Engineer.
  - f. Burr threads at junction with nut using a center punch to prevent nut loosening.
7. Use galvanized steelshims to obtain a tight fit between the column face and the sleeve. Place shims in all quadrants between the  $1/2$ "  $\emptyset$  sleeve bolts. Use shims that are 1" shorter than the height of the sleeve.
8. Both fabricated and cast base assemblies were impact tested by the Texas Transportation Institute, College Station, TX on February 10, 2003, and both alternate assemblies were determined to be compliant with the performance recommendations of the National Cooperative Highway Research Program (NCHRP) report 350.



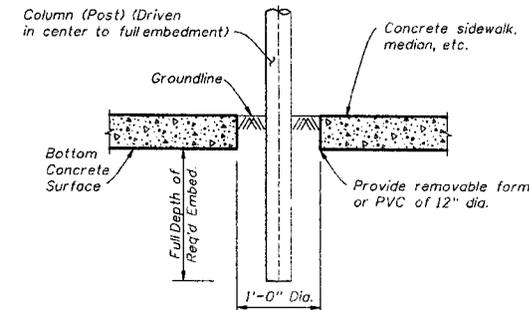
SLIP BASE AND FOOTING DETAIL IN CONCRETE  
(non-frangible post in crossovers, medians, & sidewalks)



ALUMINUM SLEEVE & BASE PLATE DETAILS  
(DOUBLE BEVELED SLOTS)



0.0149" Thick Alum. Strip - 2 Req'd Per Base  
BOLT KEEPER PLATE DETAIL



DRIVEN POST DETAIL IN CONCRETE  
(frangible post in crossovers, medians, & sidewalks)

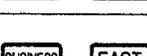
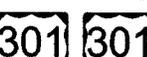
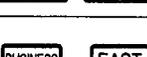
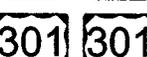
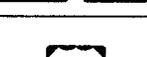
**SLIP BASE DETAILS**

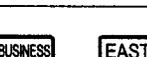
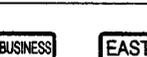
Column Size	Sleeve I.D. (Max)	Sleeve Height 'H'	Weld 'W'	Base Plate		Radius 'R'	Base Bolt		Base Plate Torque		Hole Size 'D'
				'L'	'T'		Size	Length	Ft-lbs	in-lbs	
4 x 1/4	4 1/16	6	3/8	8	3/4	1 1/2	3/8	3	29	345	1 1/16
4 1/2 x 1/4	4 3/16	6	3/8	8	3/4	1 1/2	3/8	3 1/4	29	345	1 1/16
5 x 1/4	5 1/16	7	5/8	8	3/4	1 1/2	3/8	3 1/4	29	345	1 1/16
6 x 1/4	6 1/16	8	1 1/16	9	1	1 1/2	3/4	3 1/2	46	554	1 3/16

Note: Unless notes otherwise, all dimensions are in inches

**BASE AND FOUNDATION DETAILS**

	Size	Area	Total Area	Centroid
 	36x12	3.00 SF	6.31 SF	1.75 Ft.
	24x24	3.31 SF		
 	36x12	3.00 SF	8.18 SF	1.92 Ft.
	30x30	5.18 SF		
 	36x12	3.00 SF	10.46 SF	2.10 Ft.
	36x36	7.46 SF		
 	36x12	3.00 SF	16.25 SF	2.48 Ft.
	48x48	13.25 SF		
 	24x24	3.31 SF	6.31 SF	1.71 Ft.
	24x18	3.00 SF		
 	30x30	5.18 SF	10.18 SF	2.19 Ft.
	30x24	5.00 SF		
 	36x36	7.46 SF	12.46 SF	2.55 Ft.
	30x24	5.00 SF		
  	36x12	3.00 SF	13.18 SF	2.87 Ft.
	30x30	5.18 SF		
	30x24	5.00 SF		

	Size	Area	Total Area	Centroid
  	36x12	3.00 SF	15.46 SF	3.15 Ft.
	36x36	7.46 SF		
	30x24	5.00 SF		
  	21x15	2.19 SF	6.19 SF	1.60 Ft.
	24x24	4.00 SF		
	21x15	2.19 SF		
 	21x15	2.19 SF	7.19 SF	1.52 Ft.
	30x24	5.00 SF		
  	24x12	2.00 SF	6.00 SF	1.53 Ft.
	24x24	4.00 SF		
  	24x12	2.00 SF	7.00 SF	1.45 Ft.
	30x24	5.00 SF		
  	30x15	3.13 SF	8.13 SF	1.66 Ft.
	30x24	5.00 SF		
 	24x24	4.00 SF	6.19 SF	1.73 Ft.
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
 	30x24	5.00 SF	7.19 SF	1.81 Ft.
	21x15	2.19 SF		
   	24x12	2.00 SF	8.19 SF	2.26 Ft.
	24x24	4.00 SF		
	21x15	2.19 SF		
   	24x12	2.00 SF	9.19 SF	2.27 Ft.
	30x24	5.00 SF		
   	30x15	3.13 SF	10.32 SF	2.49 Ft.
	30x24	5.00 SF		
   	24x12	2.00 SF	10.19 SF	2.80 Ft.
	24x12	2.00 SF		
	24x24	4.00 SF		
	21x15	2.19 SF		



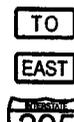
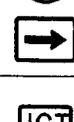
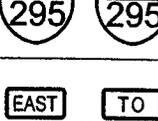
2010 FDOT Design Standards

SINGLE COLUMN GROUND SIGNS

Last Revision: 07/01/07  
Sheet No.: 6 of 8  
Index No.: 11860

	Size	Area	Total Area	Centroid
	24x12	2.00 SF	11.19 SF	2.76 Ft.
	24x12	2.00 SF		
	30x24	5.00 SF		
	21x15	2.19 SF	13.45 SF	3.16 Ft.
	30x15	3.13 SF		
	30x15	3.13 SF		
	21x15	2.19 SF	5.22 SF	1.72 Ft.
	18x18	1.71 SF		
	24x24	3.03 SF		
	21x15	2.19 SF	6.95 SF	1.87 Ft.
	24x24	3.03 SF		
	30x30	4.76 SF		

	Size	Area	Total Area	Centroid
	18x18	1.71 SF	3.90 SF	1.26 Ft.
	21x15	2.19 SF		
	24x24	3.03 SF		
	21x15	2.19 SF	6.95 SF	1.97 Ft.
	30x30	4.76 SF		
	21x15	2.19 SF		
	24x12	2.00 SF	9.39 SF	2.87 Ft.
	24x12	2.00 SF		
	24x24	3.20 SF		
	21x15	2.19 SF	10.18 SF	2.84 Ft.
	24x12	2.00 SF		
	24x12	2.00 SF		
	21x15	2.19 SF	10.18 SF	2.84 Ft.
	30x24	3.99 SF		
	21x15	2.19 SF		

	Size	Area	Total Area	Centroid
	30x15	3.13 SF	12.44 SF	3.26 Ft.
	30x15	3.13 SF		
	30x24	3.99 SF		
	21x15	2.19 SF	5.39 SF	1.75 Ft.
	21x15	2.19 SF		
	24x24	3.20 SF		
	21x15	2.19 SF	6.18 SF	1.67 Ft.
	30x24	3.99 SF		
	24x12	2.00 SF		
	24x12	2.00 SF	5.20 SF	1.67 Ft.
	24x24	3.20 SF		
	21x15	2.19 SF		
	24x12	2.00 SF	5.99 SF	1.60 Ft.
	30x24	3.99 SF		
	30x15	3.13 SF		
	30x24	3.99 SF	7.12 SF	1.81 Ft.
	30x15	3.13 SF		
	30x24	3.99 SF		
	30x15	3.13 SF	10.33 SF	2.27 Ft.
	36x36	7.20 SF		
	30x15	3.13 SF		

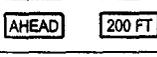
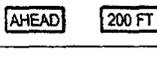
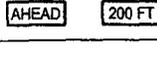


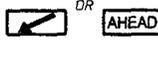
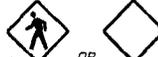
2010 FDOT Design Standards

SINGLE COLUMN GROUND SIGNS

Last Revision 07/01/07 Sheet No. 7 of 8

Index No. 11860

Size	Area	Total Area	Centroid
	30x15	3.13 SF	
		12.12 SF	2.18 Ft.
	45x36	8.99 SF	
Size	Area	Total Area	Centroid
	24x12	2.00 SF	
		7.39 SF	2.30 Ft.
	24x24	3.20 SF	
	21x15	2.19 SF	
Size	Area	Total Area	Centroid
	24x12	2.00 SF	
		8.18 SF	2.31 Ft.
	30x24	3.99 SF	
	21x15	2.19 SF	
Size	Area	Total Area	Centroid
	30x15	3.13 SF	
		9.31 SF	2.55 Ft.
	30x24	3.99 SF	
	21x15	2.19 SF	
Size	Area	Total Area	Centroid
	30x30	4.69 SF	
		6.69 SF	1.61 Ft.
	24x12	2.00 SF	
Size	Area	Total Area	Centroid
	30x30	4.69 SF	
		8.44 SF	1.77 Ft.
	30x18	3.75 SF	
Size	Area	Total Area	Centroid
	36x36	6.75 SF	
		10.50 SF	2.06 Ft.
	30x18	3.75 SF	

Size	Area	Total Area	Centroid
	30X30	4.69 SF	
		6.69 SF	1.61 Ft.
	24X12	2.00 SF	
Size	Area	Total Area	Centroid
	30X30	4.69 SF	
		8.44 SF	1.77 Ft.
	30X18	3.75 SF	
Size	Area	Total Area	Centroid
	36X36	6.75 SF	
		10.50 SF	2.06 Ft.
	30X18	3.75 SF	
Size	Area	Total Area	Centroid
	30X30	6.25 SF	
		8.25 SF	2.28 Ft.
	24X12	2.00 SF	
Size	Area	Total Area	Centroid
	36X36	9.00 SF	
		12.75 SF	2.84 Ft.
	30X18	3.75 SF	
Size	Area	Total Area	Centroid
	30X30	6.25 SF	
		10.25 SF	2.74 Ft.
	24X24	4.00 SF	
Size	Area	Total Area	Centroid
	36X36	9.00 SF	
		15.25 SF	3.29 Ft.
	30X30	6.25 SF	

Size	Area	Total Area	Centroid
	30X30	6.25 SF	
		9.25 SF	2.51 Ft.
	24X18	3.00 SF	
Size	Area	Total Area	Centroid
	36X36	9.00 SF	
		14.00 SF	3.06 Ft.
	30X24	5.00 SF	



2010 FDOT Design Standards

SINGLE COLUMN GROUND SIGNS

Last Revision 07/01/07 Sheet No. 8 of 8 Index No. 11860