

SECTION Nos.: 86028000, 86120000,
86100000, 86130000
S.R. Nos.: 834, 810, 7, 814
FM Nos.: 409222-1-74-01
423268-1-58-01
423270-1-58-01
WPI Nos.: 4119110
4110332
RESOLUTION No.: 96-72

**DISTRICT FOUR (4)
MAINTENANCE MEMORANDUM OF AGREEMENT
INCLUSIVE AGREEMENT**

THIS AGREEMENT, made and entered into this 27 day of May 2009, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the **CITY OF COCONUT CREEK**, a municipal corporation of the State of Florida, existing under the Laws of Florida, hereinafter called the AGENCY.

WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over State Roads 834, 810, 7, and 814 as part of the State Highway System as described in Exhibit A; and

WHEREAS, the AGENCY seeks to install and maintain certain landscape improvements within the right-of-way of State Road 7 as described within Exhibit B; and

WHEREAS, the AGENCY and the DEPARTMENT have entered into previous agreements for the AGENCY to maintain landscape improvements on DEPARTMENT right-of-way; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the DEPARTMENT, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facilities as State Roads 834, 810, 7, and 814 described further in Exhibit A attached hereto and incorporated by reference herein; and

WHEREAS, the AGENCY/ DEPARTMENT is of the opinion that highway facilities within the AGENCY'S limits that contain landscape improvements to medians and areas outside the travel way to the right of way line and areas within the travel way containing specialty surfacing (concrete pavers, stamped asphalt or stamped concrete), including any hardscape, but excluding standard concrete sidewalk, shall be maintained by periodic pruning, mowing, fertilizing, weeding, litter pick-up, necessary replanting, irrigation repair and any median concrete replacements associated with the specialty surfacing as needed; and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travel way and improvements

made to the travel way that were made at the request of the AGENCY; and

WHEREAS, the AGENCY and DEPARTMENT intend for this agreement to replace and supersede the agreements described in Exhibit C except as otherwise provided in this Agreement; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the AGENCY by Resolution No. 2009-42 dated April 30, 2009, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. **INSTALLATION OF FACILITIES BY AGENCY**

The AGENCY has installed, or will install certain landscape improvements including: plantings, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referred to as the Projects and incorporated herein as referenced as State Roads 834, 810, and 7 in Exhibits B, C and D. Hardscape shall mean, but not limited to: any non-standard landscape lighting, fountain, tree grates, decorative free standing wall, and/or sidewalk or median specialty surfacing such as but not limited to: concrete pavers, stamped asphalt or stamped concrete.

When the AGENCY is installing or will install the PROJECT, they shall comply with the following criteria.

- (a) All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA); all plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, *Florida Grades and Standards for Nursery Stock*; and all trees shall meet Florida Power & Light, *Right Tree, Right Place, South Florida*.
- (b) Trees and palms within the right-of-way shall be installed and pruned to prevent encroachment to roadways, clear zones and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system.
- (c) Tree and palm pruning shall be supervised by properly trained personnel trained in tree pruning techniques and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI) Part A-300 and be licensed by Broward County Environment Protection Department to perform this work.

- (d) Irrigation installation and maintenance activities shall conform to the standards set forth by the Florida Irrigation Society (FIS) latest edition of FIS, *Standards and Specifications for Turf and Landscape Irrigation Systems*.
- (e) The AGENCY shall provide the DEPARTMENT accurate as-built plans of the system so if in the future there is a need for the DEPARTMENT to perform work in the area, the system can be accommodated as much as possible.
- (f) If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local maintenance office and the AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.
- (g) All hardscape shall be installed and maintained in strict accordance with the most current edition of the *Florida Accessibility Code for Building Construction* and the *Interlocking Concrete Pavement Institute (ICPI)*.
- (h) All activities, including project installation and future maintenance operations performed on State highway right-of-way, must be in conformity with the most current edition of the *Manual on Uniform Traffic Control (MUTCD)* and *FDOT Design Standards, Index 600 Series, Traffic Control through Work Zones*.
- (i) The most current edition of *FDOT Design Standards, Index 546* must be adhered to.
- (j) Horizontal Clearance and Clear Zone as specified in the *FDOT Plans Preparation Manual, Volume 1, Chapters 2 and 4* and *FDOT Design Standards, Index 700* must be adhered to.
- (k) Landscape improvements shall not obstruct roadside signs or permitted outdoor advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-40, Part 1 and Part III.)
- (l) The AGENCY shall provide the local FDOT Operation Center, located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300a twenty-four (24) hour telephone number and the name of a responsible person that the DEPARTMENT may contact. The AGENCY shall notify the local maintenance office forty-eight (48) hours prior to the start of the project.
- (m) If there is a need to restrict the normal flow of traffic, it shall be done on off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the project. The DEPARTMENT'S Public Information Office shall also be notified.
- (n) The AGENCY shall be responsible to clear all utilities within the project limits.
- (o) The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT'S Rule Chapter 14-40 *Highway Beautification and Landscape*

Management, in the *FDOT Guide to Roadside Mowing and Maintenance Management System*, and Exhibit F, the Maintenance Plan for maintenance activities for landscape projects along with the Maintenance Plans attached to the superceded agreements.

3. MAINTENANCE OF FACILITIES

- A. The AGENCY agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in Exhibit A and as defined as: plantings, irrigation, and / or hardscape within the medians and areas outside the travel way to the right of way line and areas within the travelway containing specialty surfacing as existing and as described in Exhibits B and D. The non-standard improvements to the travelway shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others by periodic pruning, mowing, fertilizing, weeding, curb and sidewalk edging, litter pickup, necessary replanting, and / or repair following the DEPARTMENT'S landscape safety and maintenance guidelines and Exhibit E, the Maintenance Plan. The AGENCY'S responsibility for maintenance shall include all landscaped / turfed and hardscape areas within the median and areas outside the travelway to the right-of-way and areas within the travelway containing specialty surfacing. It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard surfacing and the associated header curb and concrete areas on the DEPARTMENT right-of-way within the limits of this Agreement.
- B. Such maintenance to be provided by the AGENCY is specifically set out as follows: to maintain, which means the proper watering and fertilization of all plants and keeping them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the grass to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage or for those using the roadway and or sidewalk; (3) preventing any other potential roadway hazards. Plants shall be those items which would be scientifically classified as plants and include but are not limited to trees, shrubs, groundcover and sod. To maintain also means removing or replacing dead or diseased plants in their entirety, or removing or replacing those that fall below original project standards. Palms must be kept fruit free year round. To maintain also means keeping the header curbs that contain the surfacing treatment in optimum condition. To maintain also means keeping the hardscape areas free from weeds and repairing said hardscape as is necessary to prevent a safety hazard. To maintain also means keeping litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the DEPARTMENT for review and approval.
- C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the travelway for these improvements, all costs associated with the utilities associated with landscape accent lighting and/or irrigation including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining AGENCY'S responsibility.

- (1) The AGENCY shall become responsible for the above named utility costs upon final acceptance of the construction project by the DEPARTMENT and thereafter. The construction project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

- (2) The AGENCY shall be responsible for all the improvements immediately after final acceptance of the construction project by the DEPARTMENT except for plants. The AGENCY shall be responsible for the maintenance of all improvements after the completion of the Plant Establishment and Contractor's Warranty Period.

D. The above named functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding, repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

4. SUPERSEDED PRECEDING AGREEMENTS

This Agreement shall replace and supersede any and all preceding agreements as listed in Exhibit C except as specifically excepted out. The landscape improvement plans attached to the referenced agreements shall by reference become a part of this agreement as if they were attached hereto. The AGENCY shall have the same duty to maintain those landscape improvements under this Agreement as the Agency did under the previous agreements, and as more specifically detailed in this Agreement.

This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby except as specifically reference in Exhibit C.

5. NOTICE OF MAINTENANCE DEFICIENCIES

A. If at any time after the AGENCY has undertaken the landscape improvement installation and/or maintenance responsibility mentioned above, it shall come to the attention of the DEPARTMENT'S District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the AGENCY, to placing said AGENCY on notice thereof. Thereafter, the AGENCY shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the DEPARTMENT may, at its option, proceed as follows:

- (1) Complete the installation, or part thereof, with DEPARTMENT or Contractor's personnel and deduct the cost of such work from the final payment for said work or part thereof, or

- (2) Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred, or
 - (3) At the discretion of the DEPARTMENT terminate the Agreement in accordance with Paragraph 12, and remove, by the DEPARTMENT or private Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements except as to trees and palms and charge the AGENCY the reasonable cost of such removal.
- B. The AGENCY agrees to reimburse the DEPARTMENT all monies expended by the DEPARTMENT for the projects listed in Exhibits B and C in the amounts listed in those agreements should the landscape improvement areas fail to be maintained in accordance with the terms and conditions of this Agreement in the amounts listed in those agreements.

6. FUTURE DEPARTMENT IMPROVEMENTS

In the event the DEPARTMENT decides to construct additional landscape improvements or modify these improvements within the limits of the rights of way herein previously identified, the DEPARTMENT and the AGENCY shall agree in writing and require signature from the responsible AGENCY (*Chairperson/Mayor/City Manager/City Engineer/Director of Public Works/Director of Parks and Recreation approval signature*) to the new landscape improvements and maintenance plan thereof. If the AGENCY and the DEPARTMENT are unable to come to an agreement, the DEPARTMENT, in its sole discretion, may install sod and the agency shall be required, pursuant to this Agreement, to continue maintaining said landscape improvements. It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the DEPARTMENT in order that the adjacent state road be widened, altered, or otherwise changed to meet with future criteria or planning of the DEPARTMENT. The AGENCY shall be given sixty (60) calendar day's notice to remove said landscape/hardscape after which time the DEPARTMENT may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining AGENCY'S responsibility.

7. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.
- (b) The AGENCY shall procure a permit from the DEPARTMENT.
- (c) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

- (d) The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed at no cost to the DEPARTMENT.

8. ADJACENT PROPERTY OWNER IMPROVEMENTS

The DEPARTMENT may allow an adjacent property owner to construct additional landscape or hardscape improvements within the limits of the right of-way identified in Exhibit A of this document that the AGENCY shall be responsible for maintaining under this agreement subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT and shall require a valid permit attached with a letter of consent to said plans by the AGENCY. The plans shall not be changed or deviated from without written approval by the DEPARTMENT and the AGENCY.
- (b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
- (c) The AGENCY agrees to comply with the requirements of the Agreement with regard to any additional landscape improvements installed by an adjacent owner.

9. PROJECT COST

The DEPARTMENT may enter into a separate contract with the AGENCY for the installation of the Project (Phase I) for an amount not to exceed \$200,000.00 and for the installation of the Project (Phase II) for an amount not to exceed \$250,000.00 as defined in Exhibit F. This amount may be reduced or eliminated at the sole discretion of the DEPARTMENT or due to budgetary constraints of the DEPARTMENT.

The AGENCY shall be invited to assist the DEPARTMENT in final inspection upon completion of the Plant Establishment and Contractor's Warranty Period.

10. AGENCY REIMBURSEMENT

The DEPARTMENT and the AGENCY intend to enter into a separate agreement(s) as further described in Exhibit E attached hereto and made a part hereof. Reimbursement is limited as provided in those agreements. The DEPARTMENT shall be invited to assist the AGENCY in final inspections before acceptance of the job by the AGENCY

11. AGREEMENT TERMINATION

This Agreement may be terminated under any one (1) of the following conditions:

- (a) By the DEPARTMENT, if the AGENCY fails to perform its duties under this Agreement, following ten (10) days written notice.

- (b) By the DEPARTMENT, for refusal by the AGENCY to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the AGENCY in conjunction with this Agreement.

12. AGREEMENT TERM

- A. The term of this Agreement commences upon execution by all parties. The term of this Agreement shall last as long as the landscape improvements exist.
- B. If the DEPARTMENT cancels one or all the project(s) described in Exhibit B, this Agreement shall still be valid.

13. LIABILITY AND INSURANCE REQUIREMENTS

- A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for this project shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, subconsultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.
- B. In the event that AGENCY contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:
 - (a) AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and provide Worker's Compensation Insurance in accordance with the laws of the State of Florida and in amounts sufficient to secure the benefits of the Florida Worker's Compensation Law for all employees. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name DEPARTMENT as an additional insured.
 - (b) AGENCY'S contractor shall furnish AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverages specified herein prior to the beginning performance of work under this Agreement.
 - (c) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) days notice of cancellation and or/or restriction. If any of the

insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

14. The DEPARTMENT, during any fiscal year, shall not expend money, incur any liability, nor enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The DEPARTMENT shall require a statement from the Comptroller of the DEPARTMENT that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the DEPARTMENT which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.
15. The DEPARTMENT'S District Secretary shall decide all questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions, and disputes shall be final and conclusive upon the parties hereto.
16. This Agreement may not be assigned or transferred by the AGENCY, in whole or in part, without the prior written consent of the DEPARTMENT.
17. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Agency agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this agreement is decided

18. EXCEPTION TO SUPERSEDED PRECEDING AGREEMENTS

This Agreement constitutes the complete and final expression of parties with respect to the subject matter hereof and supersedes all prior agreements, understanding, or negotiations with respect thereto, with the exception of the landscape improvements plans incorporated by reference in Exhibit B, Exhibit C and the Agreement "Excepted Out" in Exhibit C.

19. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:

State of Florida Department of Transportation
Planning & Environmental Management
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attention: Elisabeth A. Hassett, R.L.A.
FDOT District IV Landscape Architect

If to the AGENCY:

City of Coconut Creek
4800 West Copans Road
Coconut Creek, Florida 33063
Attention: Ms. Pamela Stanton
City Landscape Architect

21. LIST OF EXHIBITS

- Exhibit A: City of Coconut Creek Limits & Agreement Status Graphic
- Exhibit B: Project(s) Pending Agreements
- Exhibit C: Preceding Project Agreements and Lease Agreement(s) Descriptions
- Exhibit D: Pending Agency Project(s) Landscape Improvement Plans
- Exhibit E: Maintenance Plan (s)
- Exhibit F: Pending Agency Project(s) Cost Estimates

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

AGENCY CITY OF COCONUT CREEK

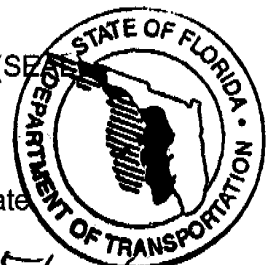
By: *David J. Riviera*
City Manager

Attest: *Barbara Price* (SEAL)
Clerk

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: *Greg O'Reilly*
Transportation Development Director

Attest: *Nancy Suyo* (SEAL)
Executive Secretary



Approval as to Form Date

Nancy A. Cousins 4/28/09
Attorney
NANCY A. COUSINS

Approval as to Form Date

Damon Federman 5/27/2009
District General Counsel

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EXHIBIT A

CITY OF COCONUT CREEK CITY LIMITS

All state right of way within the limits of the City of Coconut:

SR 834 (Sample Road)

M.P. 3.008 (SR 91) to M.P. 5.030 (West of SR 7)

SR 810 (Hillsboro Boulevard)

M.P. 0.000 (East of SR 7) to M.P. 1.997 (East of SR 91)

SR 7 (US 441)

M.P. 20.861 (Winston Park/Creekside Drive) to M.P. 24.591 (Broward/Palm Beach County Line)

SR 814 (Atlantic Boulevard)

M.P. 0.753 (East Hemingway Court) to M.P. 1.715 (SR 91)

S.R. 810



S.R. 7

S.R. 834

S.R. 814

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EXHIBIT B

PROJECT(S) PENDING AGREEMENT(S)

All state right of way on SR 7 (US 441) within the limits of the City of Coconut Creek

AGENCY INSTALLED PROJECT:

Phase I - South Median SR 7 (US 441) from the first median north of SR 869 (MP 22.700) through the fourth median north of SR 869 (MP 24.445).

Phase II - North Median SR 7 (US 441) from the fifth median north of SR 869 (MP 24.445) to the Broward/Palm Beach County Line (MP 24.591).

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EXHIBIT C

PRECEDING PROJECT AGREEMENT DESCRIPTIONS AND LEASE AGREEMENT DESCRIPTIONS

The following agreements have been executed for projects that have been installed, in accordance with the plans and specifications attached hereto and incorporated herein but not exclusive to the following agreement descriptions:

AGREEMENTS SUPERSEDED BY THIS AGREEMENT

4/12/01 - State Road 834 (Sample Road) from west of the **SR 7 (M.P. 5.030) to Turnpike (M.P. 3.008)** maintenance shall include all landscaped/turfed areas and areas covered with hardscape within the median and areas outside the travel way to the ROW line. Resolution No. 2001-40 (4/12/01), FIN No. 4092221, Section No. 86028.

8/8/91 - State Road 834 (Sample Road) from **SR 7 (M.P. 5.030) to Turnpike (M.P. 3.008)** maintenance shall include all landscaped and /or turfed areas on FDOT ROW within project limits. Resolution No. 91-54 (6/27/91).

1/11/95 - State Road 810 (Hillsboro Blvd.) from just east of **SR 7 (M.P. 0.010)** to just east of the **Turnpike (M.P. 2.029)** maintenance shall include all landscape/turfed areas and areas covered with interlocking pavers (hardscape) on FDOT ROW and within project limits. Resolution No. 94-75 (9/8/74).

10/24/96 East side of State Road 7 (US 441) adjacent to **Winston Park/Creekside Drive [(M.P. 22.234) east to M.P. 22.390]** maintenance shall include all landscape/turfed areas and areas covered with interlocking pavers (hardscape) on FDOT ROW and within project limits. Resolution No. 96-72 (10/24/96), Section No. 86100.

EXHIBIT C (continued)

AGREEMENTS EXCEPTED OUT OF THIS AGREEMENT

1/25/2005 - Local Agency Program Agreement Coconut Creek Education Corridor is a two mile section of Coconut Creek parkway between the Florida Turnpike and SR 7 (US 441) within the City of Coconut Creek. Phase I will consist of work at the intersection of Coconut Creek Parkway and Lyons Road. (565 ft. in each direction). FM #416319-1-A8-01.

The requirements of this agreement shall apply in addition to the requirements of this Inclusive Agreement.

This Agreement, pursuant to paragraph number 19, shall supersede all other above agreements except as to the actual landscape plans that have not been replanted by subsequent FDOT approved projects. The terms of this agreement shall apply to those landscape plans.

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EXHIBIT D

PENDING AGENCY PROJECT(S) LANDSCAPE IMPROVEMENT PLANS

Please see attached plans by:

Phase I - State Road 7 (US 441) South Medians

Brian Shore, RLA/Miller Legg

Dated: June 4, 2008

Phase II - State Road 7 (US 441) North Medians

Brian Shore, RLA/Miller Legg

Dated: February 25, 2009

CONTRACT PLANS

BROWARD COUNTY

STATE ROAD NO. 7/US 441

NORTH OF SAWGRASS EXPRESSWAY (M.P. 22.700)
TO BROWARD/PALM BEACH COUNTY LINE (M.P. 24.591)

LANDSCAPE BEAUTIFICATION PROJECT

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 thru LD-3	TABULATION OF QUANTITIES/PLANT SCHEDULE
LD-4	LANDSCAPE NOTES
LD-5 thru LD-8	EXISTING CONDITION CHART
LD-9 thru LD-29	EXISTING CONDITION PLAN
LD-30 and LD-31	HARDSCAPE NOTES AND DETAILS
LD-32 thru LD-36	LANDSCAPE/HARDSCAPE PLAN
LD-37 thru LD-41	IRRIGATION NOTES & DETAILS
LD-42 thru LD-45	IRRIGATION DETAILS
LD-46 thru LD-49	IRRIGATION CONTROL NOTES
LD-50 thru LD-53	IRRIGATION CONTROL DETAILS
LD-54 thru LD-62	TRAFFIC CONTROL DETAILS



City of Coconut Creek

480 West Cypress Road
954-973-6700 Fax: 954-973-6704
www.coconutcreek.com

Mayor: Lou Sabrone

Vice Mayor: Becky Tooley

Commissioner: Marilyn Graber

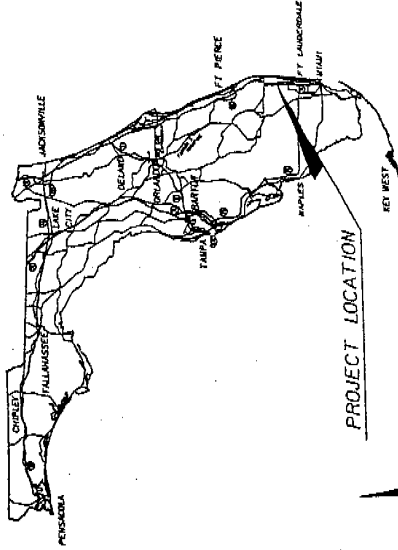
Commissioner: Leonard Freund

Commissioner: Ron Deering, Jr.

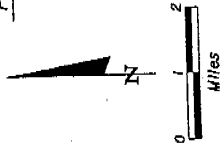
City Manager: John P. Kelly

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008, AND STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DATED 2007, SECTION 580, LANDSCAPE INSTALLATION,
AS AMENDED BY CONTRACT DOCUMENTS

SOUTHERN HALF FN# 423268-I-58-01
NORTHERN HALF FN# 423270-I-58-01



PROJECT LOCATION

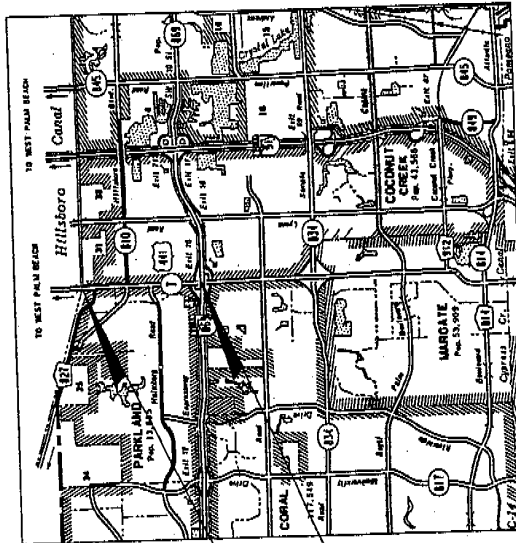


PLANS PREPARED BY:

MILLER LEGG
1800 North Douglas Road, Suite 200 - Pompano Beach, Florida - 33064
954-486-7000 Fax: 954-486-6661 www.millerlegg.com
Certification of Authorization: LC0000337

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.
DESIGN SPEED: 50 MPH

MEDIANS 1'-4"
STA: 0+00 TO 46+20
06-01-2008



M.P. 24.591

M.P. 22.700

PROJECT LENGTH: 1.891 MILES

CITY OF COCONUT CREEK PROJECT MANAGER: PAMELA STAMTON, RLA
MILLER LEGG PROJECT MANAGER: BRIAN R. SHORE, RLA

SHEET NO.	LD-1
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B-17/2008 8:25:26 AM 9/14/2008 10:47:00 AM P:\0701\0701\0701-00231-5\1444.LANESW\PLAN\0701-0701-00231-5\06-01-2008\06-01-2008.DWG

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (m) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
1	live oak	Quercus virginiana	Y	5	6	28.3		X	
2	live oak	Quercus virginiana	Y	5	15	176.5	X		corrective pruning and fertilizer needed
3	live oak	Quercus virginiana	Y	4	6	50.2		X	co-dominant leader
4	live oak	Quercus virginiana	Y	6	12	113.0	X		corrective pruning and fertilizer needed
5	live oak	Quercus virginiana	Y	6	18	254.3		X	co-dominant leader
6	cabbage palm	Sabal palmetto	Y	20				X	
7	cabbage palm	Sabal palmetto	Y	15				X	
8	cabbage palm	Sabal palmetto	Y	15				X	
9	cabbage palm	Sabal palmetto	Y	12				X	
10	cabbage palm	Sabal palmetto	Y	12				X	
11	cabbage palm	Sabal palmetto	Y	8				X	
12	cabbage palm	Sabal palmetto	Y	10				X	
13	cabbage palm	Sabal palmetto	Y	15				X	
14	cabbage palm	Sabal palmetto	Y	10				X	
15	cabbage palm	Sabal palmetto	Y	8				X	
16	cabbage palm	Sabal palmetto	Y	18				X	Leaning, adjust as needed.
17	live oak	Quercus virginiana	Y	3	6	28.3		X	
18	live oak	Quercus virginiana	Y	4	8	50.2	X		leader removed
19	live oak	Quercus virginiana	Y	5	10	78.3	X		co-dominant leader, trunk scaring of 3"-5"
20	live oak	Quercus virginiana	Y	4	6	28.3		X	
21	live oak	Quercus virginiana	Y	4	12	113.0		X	
22	live oak	Quercus virginiana	Y	6	10	78.5	X		
23	live oak	Quercus virginiana	Y	8	15	176.6		X	corrective pruning and fertilizer needed
24	live oak	Quercus virginiana	Y	5	8	50.2	X		co-dominant leader
25	live oak	Quercus virginiana	Y	7	18	254.3	X		co-dominant leader
26	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
27	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
28	live oak	Quercus virginiana	Y	6	15	176.6	X		leader snapped
29	live oak	Quercus virginiana	Y	6	18	254.3	X		corrective pruning and fertilizer needed
30	live oak	Quercus virginiana	Y	6	19	176.6	X		within a taper or sight line
31	live oak	Quercus virginiana	Y	7	18	254.3	X		co-dominant leader
32	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
33	live oak	Quercus virginiana	Y	7	18	201.0	X		within a taper or sight line
34	cabbage palm	Sabal palmetto	Y	12				X	
35	cabbage palm	Sabal palmetto	Y	10				X	
36	cabbage palm	Sabal palmetto	Y	10				X	
37	cabbage palm	Sabal palmetto	Y	12				X	
38	cabbage palm	Sabal palmetto	Y	12				X	
39	cabbage palm	Sabal palmetto	Y	12				X	
40	cabbage palm	Sabal palmetto	Y	10				X	
41	cabbage palm	Sabal palmetto	Y	10				X	
42	cabbage palm	Sabal palmetto	Y	10				X	
43	cabbage palm	Sabal palmetto	Y	12				X	
44	cabbage palm	Sabal palmetto	Y	10				X	
45	live oak	Quercus virginiana	Y	10	18	254.3		X	
46	live oak	Quercus virginiana	Y	3	6	28.3	X		trunk scars
47	live oak	Quercus virginiana	Y	10	20	314.0	X		co-dominant leader, trunk scaring

* * * * *

* *

* VARIANCE UNDER CONSIDERATION

REVISIONS		DESCRIPTION	
BY	DATE	BY	
CITY OF COCONUT CREEK			
MILLER LEGG		MILLER LEGG PROJECT ID	
180 North Douglas Road, Suite 200, Buckeye, AZ 85326 944-435-7000, Fax: 944-435-6961, www.mlg.com		07-00239	
City of Lake Mead, 11111 Lake Mead Blvd, Suite 111, Las Vegas, NV 89134		COUNTY	BRONWARD
ROAD NO.		7	
SHEET NO.		LD-5	
EXISTING CONDITION CHART			

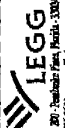
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DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
48	live oak	<i>Quercus virginiana</i>	Y	6	15	176.6		X	
49	live oak	<i>Quercus virginiana</i>	Y	5	15	176.6		X	
50	live oak	<i>Quercus virginiana</i>	Y	8	18	254.3	X		co-dominant leader, trunk scarring
51	live oak	<i>Quercus virginiana</i>	Y	7	12	113.0	X		within a taper or sight line
52	live oak	<i>Quercus virginiana</i>	Y	6	15	176.6	X		within a taper or sight line, leader snapped
53	live oak	<i>Quercus virginiana</i>	Y	8	28	615.4	X		
54	live oak	<i>Quercus virginiana</i>	Y	8	15	176.6	X		within a taper or sight line
55	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	
56	live oak	<i>Quercus virginiana</i>	Y	8	15	176.6		X	corrective pruning and fertilizer needed, within 15 feet of over head electrical lines
57	live oak	<i>Quercus virginiana</i>	Y	6	18	254.3	X		within a taper or sight line
58	live oak	<i>Quercus virginiana</i>	Y	8	20	314.0	X		co-dominant leader, within a taper or sight line
59	live oak	<i>Quercus virginiana</i>	Y	6	15	176.6	X		within a taper or sight line, Corrective pruning and fertilizer needed
60	live oak	<i>Quercus virginiana</i>	Y	8	15	176.6	X		within a taper or sight line, Corrective pruning and fertilizer needed
61	live oak	<i>Quercus virginiana</i>	Y	8	20	314.0	X		severe trunk damage
62	live oak	<i>Quercus virginiana</i>	Y	8	12	113.0	X		Located between 3.5' and 4' from back of curb., Corrective pruning and fertilizer needed, within a taper or sight line
63	live oak	<i>Quercus virginiana</i>	Y	10	15	176.6	X		within a taper or sight line, Corrective pruning and fertilizer needed
64	live oak	<i>Quercus virginiana</i>	Y	7	15	176.6	X		co-dominant leader, within a taper or sight line
65	live oak	<i>Quercus virginiana</i>	Y	8	15	176.6	X		co-dominant leader, within a taper or sight line
66	live oak	<i>Quercus virginiana</i>	Y	8	10	78.5	X		co-dominant leader, corrective pruning and fertilizer needed.
67	live oak	<i>Quercus virginiana</i>	Y	8	20	314.0	X		within a taper or sight line, Corrective pruning and fertilizer needed
68	live oak	<i>Quercus virginiana</i>	Y	8	15	176.6	X		co-dominant leader, some bark damage
69	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
70	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
71	cabbage palm	<i>Sabal palmetto</i>	Y	20			X		
72	cabbage palm	<i>Sabal palmetto</i>	Y	20				X	
73	cabbage palm	<i>Sabal palmetto</i>	Y	20				X	
74	cabbage palm	<i>Sabal palmetto</i>	Y	15				X	
75	cabbage palm	<i>Sabal palmetto</i>	Y	20				X	
76	cabbage palm	<i>Sabal palmetto</i>	Y	15				X	
77	cabbage palm	<i>Sabal palmetto</i>	Y	20			X		
78	cabbage palm	<i>Sabal palmetto</i>	Y	20				X	
79	cabbage palm	<i>Sabal palmetto</i>	Y	20				X	
80	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
81	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
82	cabbage palm	<i>Sabal palmetto</i>	Y	20			X		within a taper or sight line
83	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
84	cabbage palm	<i>Sabal palmetto</i>	Y	12				X	
85	cabbage palm	<i>Sabal palmetto</i>	Y	30			X		within a taper or sight line

* * * * *

* VARIANCE UNDER CONSIDERATION

DATE	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
 MILLER LEGG 1000 N. W. 10th St., Suite 300 Ft. Lauderdale, FL 33304 Phone: 954-561-5600 Fax: 954-561-5601 Website: www.mlg.com City of Miami: 311-2222 City of Broward: 352-350-3500					
CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
ROAD NO.	COUNTY	PROJECT ID	LD-6		
7	BROWARD	07-00239			

DATE OF VERIFICATION: 10/11/07

FREE JMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
120	live oak	Quercus virginiana	Y	8	18	254.3	X		
121	live oak	Quercus virginiana	Y	8	20	314.0		X	corrective pruning and fertilizer needed
122	live oak	Quercus virginiana	Y	6	18	254.3	X		
123	live oak	Quercus virginiana	Y	6	12	113.0	X		stump
124	live oak	Quercus virginiana	Y	6	15	176.6	X		co-dominant leader
125	live oak	Quercus virginiana	Y	6	12	113.0		X	
126	live oak	Quercus virginiana	Y	8	18	254.3	X		co-dominant leader
127	live oak	Quercus virginiana	Y	6	12	113.0		X	
128	live oak	Quercus virginiana	Y	6	12	113.0		X	leaning, straightening needed

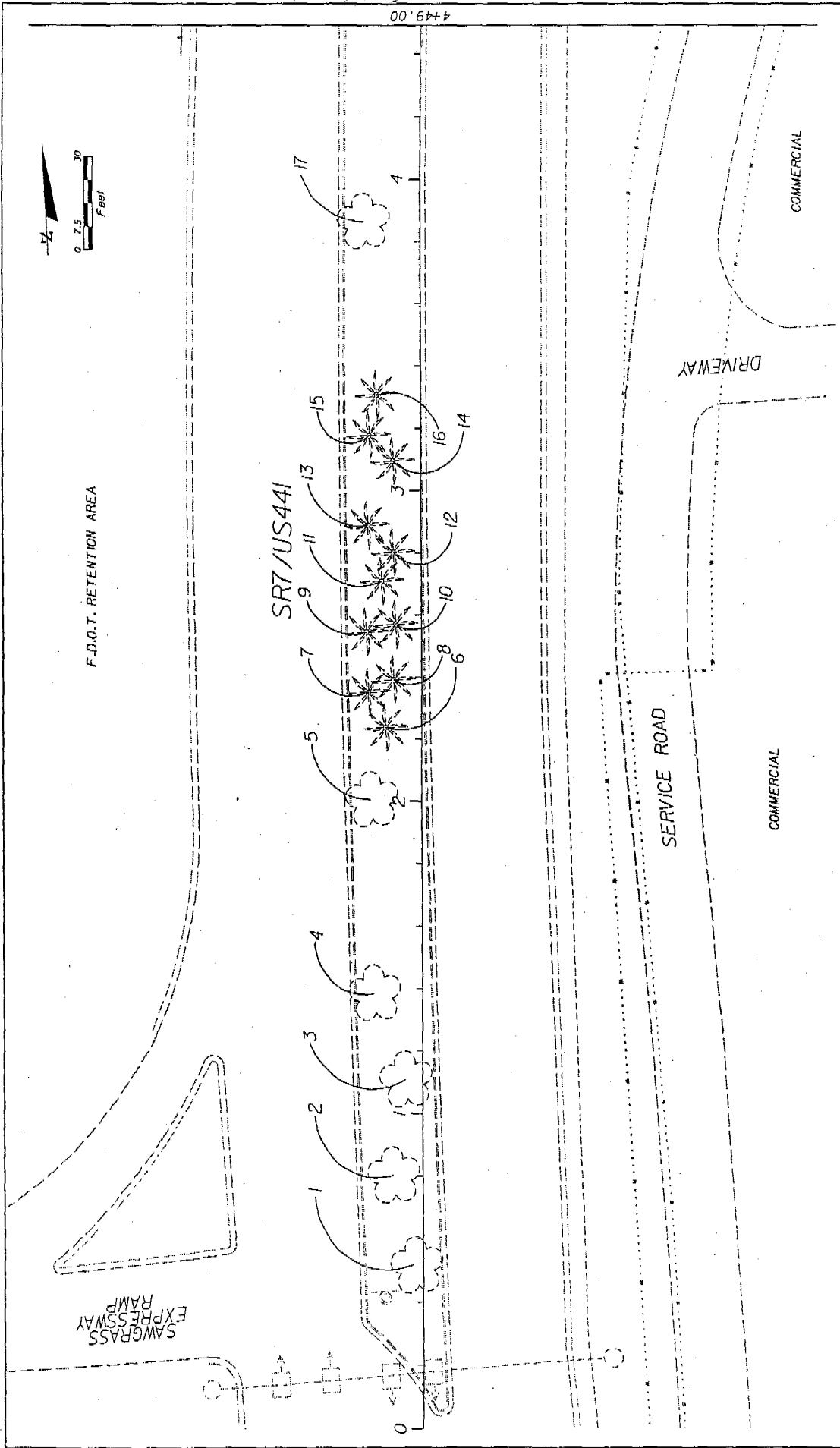
* VARIANCE UNDER CONSIDERATION

REVISITORS	DATE	BY	DESCRIPTION

MILLER LEGG
 1800 South Woodloch Road, Suite 200, Metairie, Louisiana 70001
 504-885-7000 • Fax: 504-885-6868 • www.mlegg.com
 Dist. of La. Lic. L10000837 - L.A. of Forest Res. Serv. LA 066677D

CITY OF COCONUT CREEK
 COUNTY: BROWARD
 ROAD NO.: 7
 MILLER LEGG PROJECT ID: 07-00239

EXISTING CONDITION CHART
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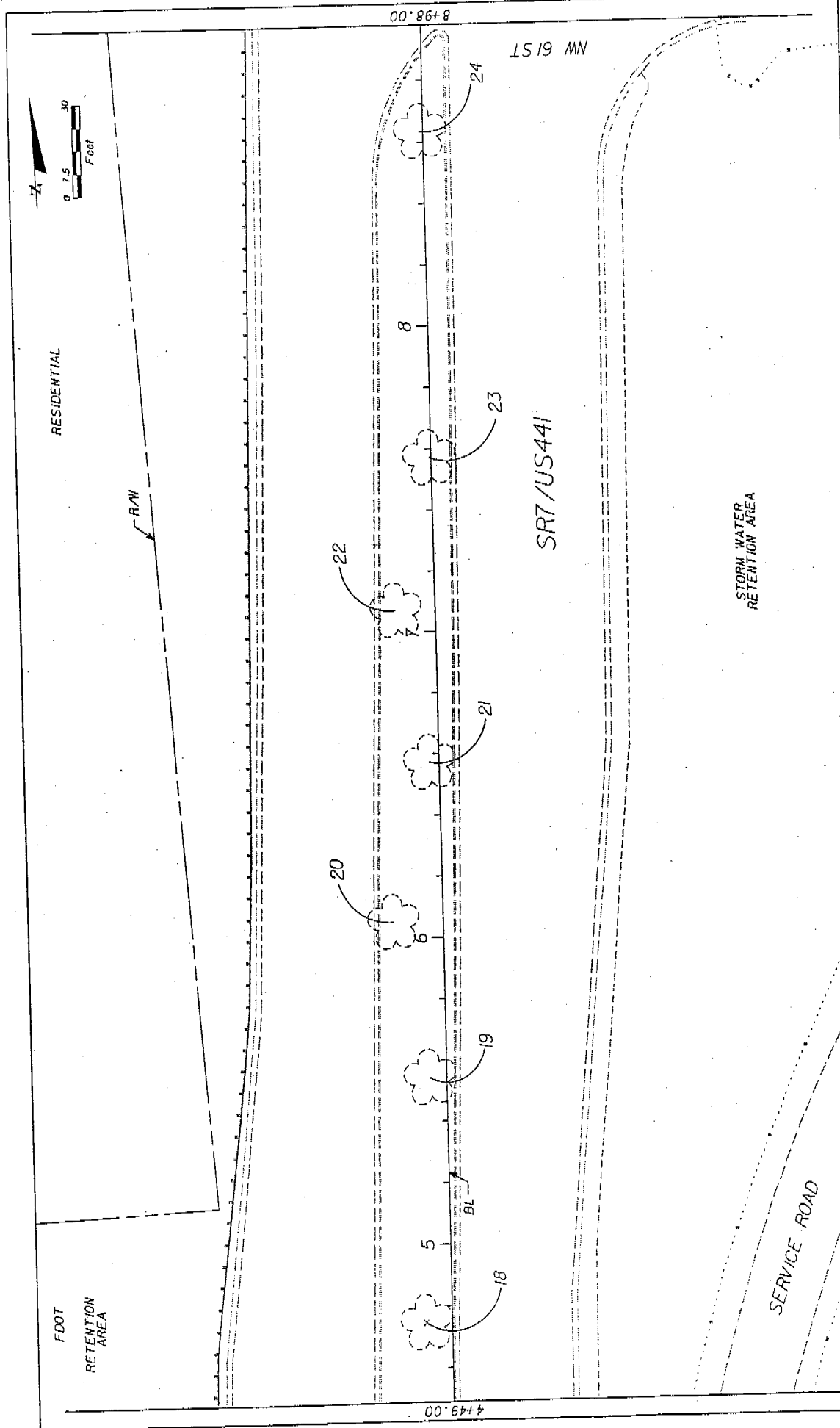


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG <small>1000 West 10th Street, Suite 1000 Los Angeles, CA 90015-4546 Tel: (213) 688-1111 Fax: (213) 688-1112 E-mail: mllegg@mllegg.com</small>		CITY OF COCONUT CREEK <small>WILLER LEGG PROJECT ID</small>	
<small>ROAD NO.</small> 7	<small>COUNTY</small> BRONXARD	<small>WILLER LEGG PROJECT ID</small> 07-00239	<small>DATE</small> 6/7/2008

<small>SHEET NO.</small> LD-9	EXISTING CONDITION PLAN
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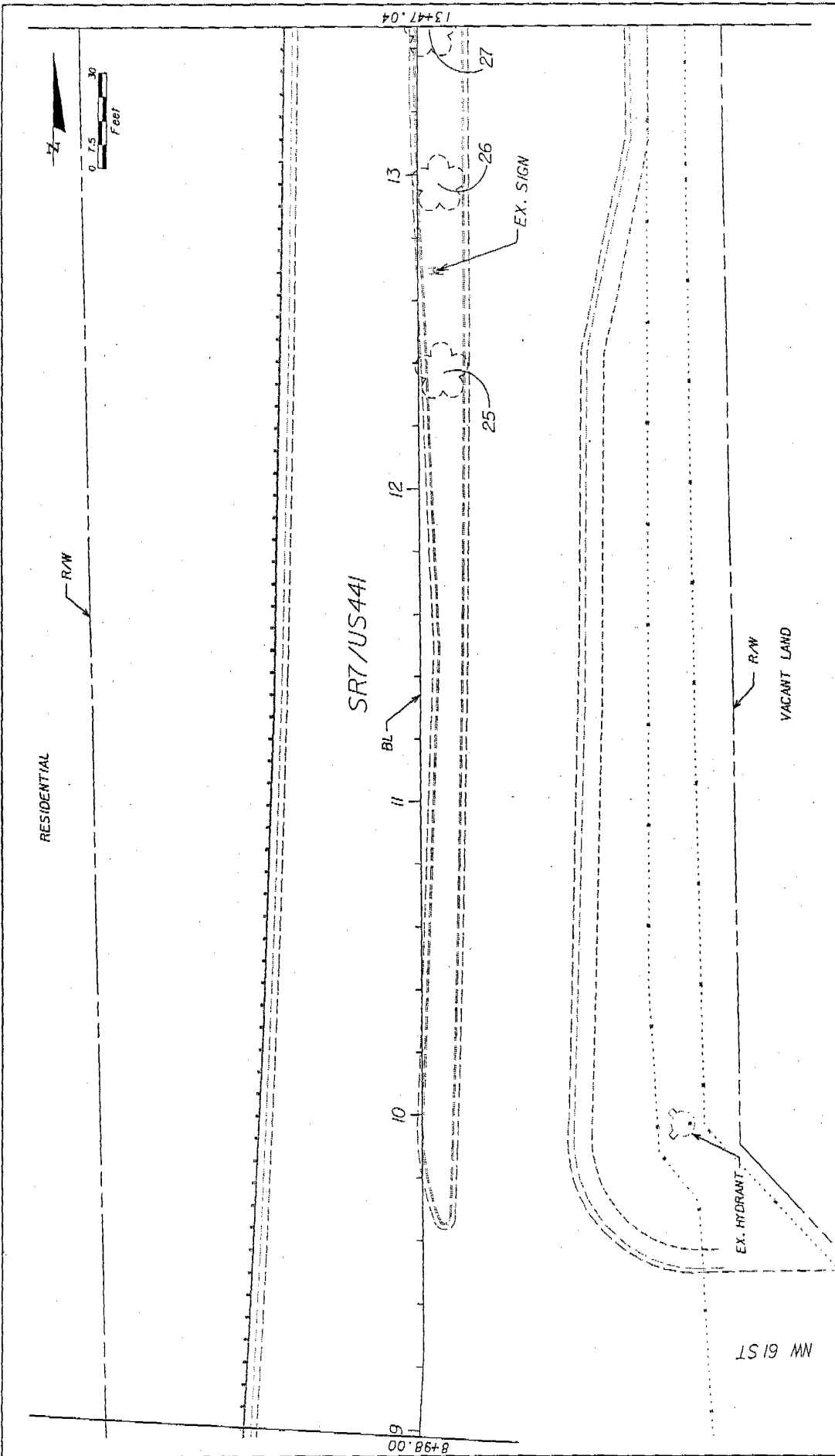
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REVISIONS		DESCRIPTION	DATE	BY

MILLER LEGG <small>1801 North Douglas Blvd., Suite 200, Pasadena, PA 17504 844-346-7000 Fax: 844-654-8664 www.millerlegg.com Div. of Leck, L.C. 0000077, L.A. of Pasadena Blvd. L. Street 13-06870</small>		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239
SHEET NO. LD-10		EXISTING CONDITION PLAN

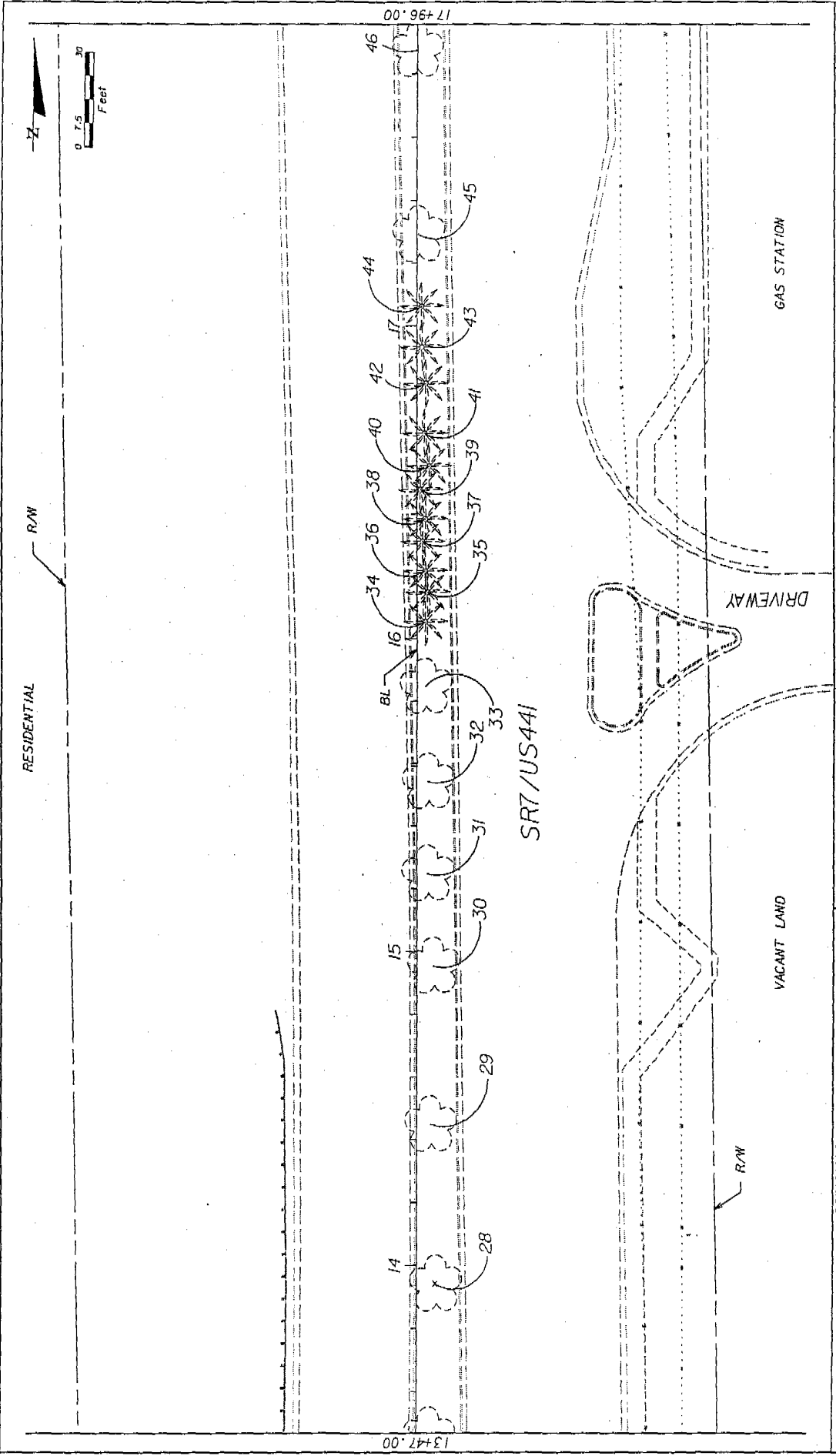
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DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG <small>188 Ford Drive East, Suite 200, Peachtree City, Georgia, 30669 PH: 404-708-1100, FAX: 770-484-0400, www.mlegg.com CINCINNATI, OHIO 45202, U.S.A. © 2007 Miller Legg, Inc.</small>		CITY OF COCONUT CREEK <small>ROAD NO. 7</small>	<small>COUNTY BROWARD</small>	<small>MILLER LEGG PROJECT ID 07-00239</small>
MILLER LEGG <small>188 Ford Drive East, Suite 200, Peachtree City, Georgia, 30669 PH: 404-708-1100, FAX: 770-484-0400, www.mlegg.com CINCINNATI, OHIO 45202, U.S.A. © 2007 Miller Legg, Inc.</small>		EXISTING CONDITION PLAN		

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REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

MILLER LEGG		CITY OF COCONUT CREEK	
1800 Lakeshore Blvd., Suite 200, Torrance, CA 90501 949-485-7000, Fax: 949-485-9566, www.millerlegg.com City of Los Angeles, Department of Public Works, 1200 N. G Street, Los Angeles, CA 90012		WILLER LEGG PROJECT ID: 07-00239	
ROAD NO.: 7		COUNTY: BROWARD	

EXISTING CONDITION PLAN		SHEET NO. LD-12
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DATE: 13/17/00

17/96/00

SR7/US441

RESIDENTIAL

R/W

VACANT LAND

DRIVEWAY

GAS STATION

BL

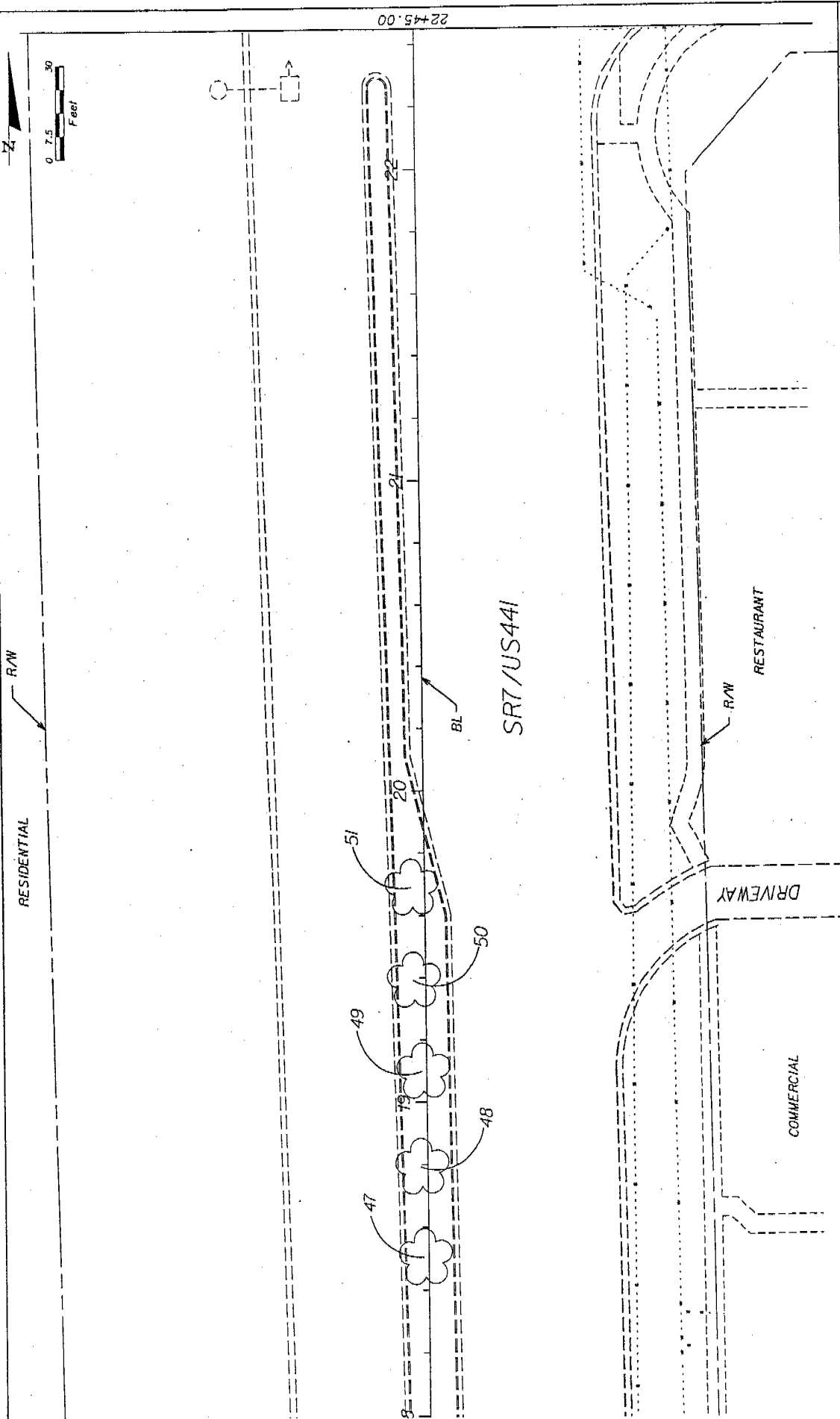
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0 15 30 Feet

17/96/00

LD-12

SR7/US441



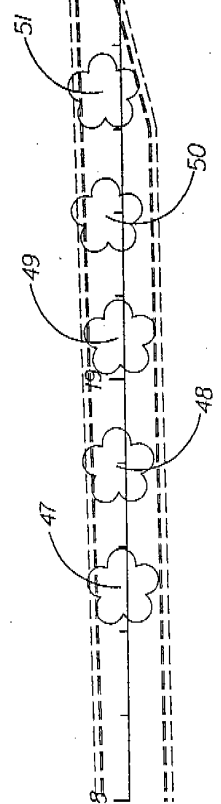
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RESIDENTIAL

R/W

North Arrow

0 7.5 30
Feet



BL

SRT/US44I

DRIVEWAY

R/W

RESTAURANT

COMMERCIAL

REVISIONS		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION

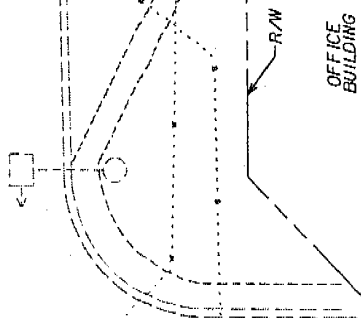
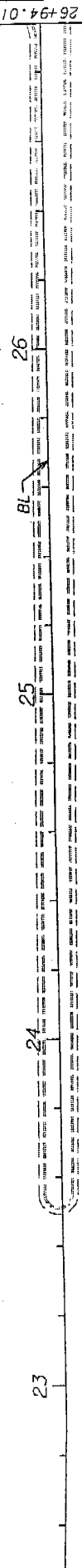
MILLER LEGG <small>1800 North Douglas Road, Suite 300, Anaheim, CA 92804 714-666-7000, Fax: 714-666-3266, www.millerlegg.com City of Palm Springs, CA, License No. 1-388578</small>		CITY OF COCONUT CREEK <small>ROAD NO. 7</small> <small>COUNTY BROWARD</small> <small>MILLER LEGG PROJECT ID 07-00239</small>	EXISTING CONDITION PLAN <small>SHEET NO. LD-13</small>
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R/W RESIDENTIAL



SR7/US441



REGENCY LAKES BLVD

MC DONALD'S RESTAURANT

DRIVEWAY

REV.	BY	DATE	DESCRIPTION

MILLER LEGG
 1800 North Douglas Road - Suite 200 - Houston, Texas 77058
 281-435-3000 Fax: 281-435-3661 www.mlg.com
 City of Houston, Texas, License No. 12-00000001-1, License No. 12-00000001-1

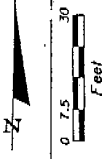
CITY OF COCONUT CREEK	
ROAD NO.	COUNTY
7	BROWARD
WILLER LEGG PROJECT ID	
07-00239	

SHEET NO. LD-14

EXISTING CONDITION PLAN

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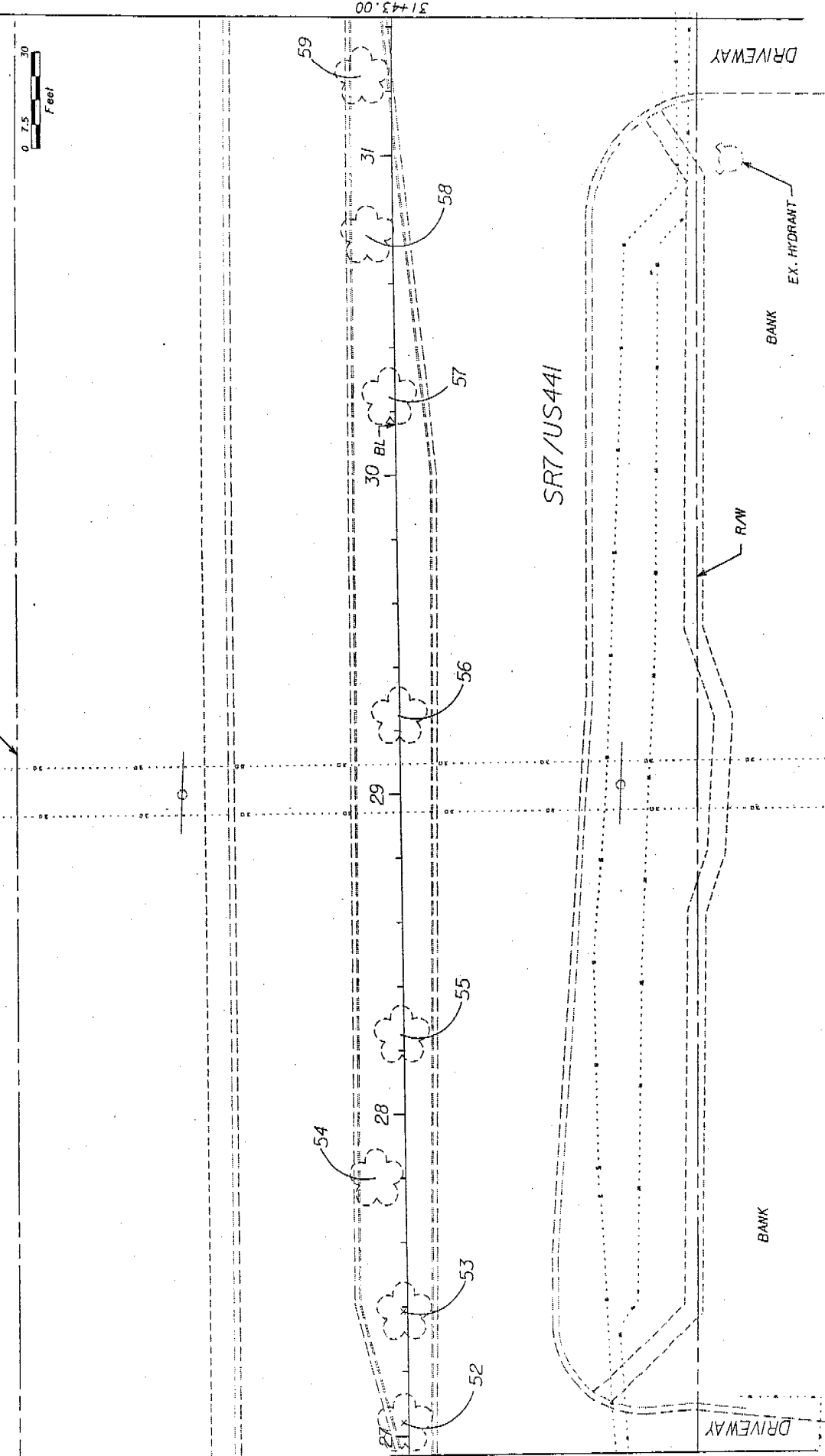
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R/W

RESIDENTIAL

26+94.00



31+43.00

26+94.00

SR7/US441

DRIVEWAY

DRIVEWAY

BANK

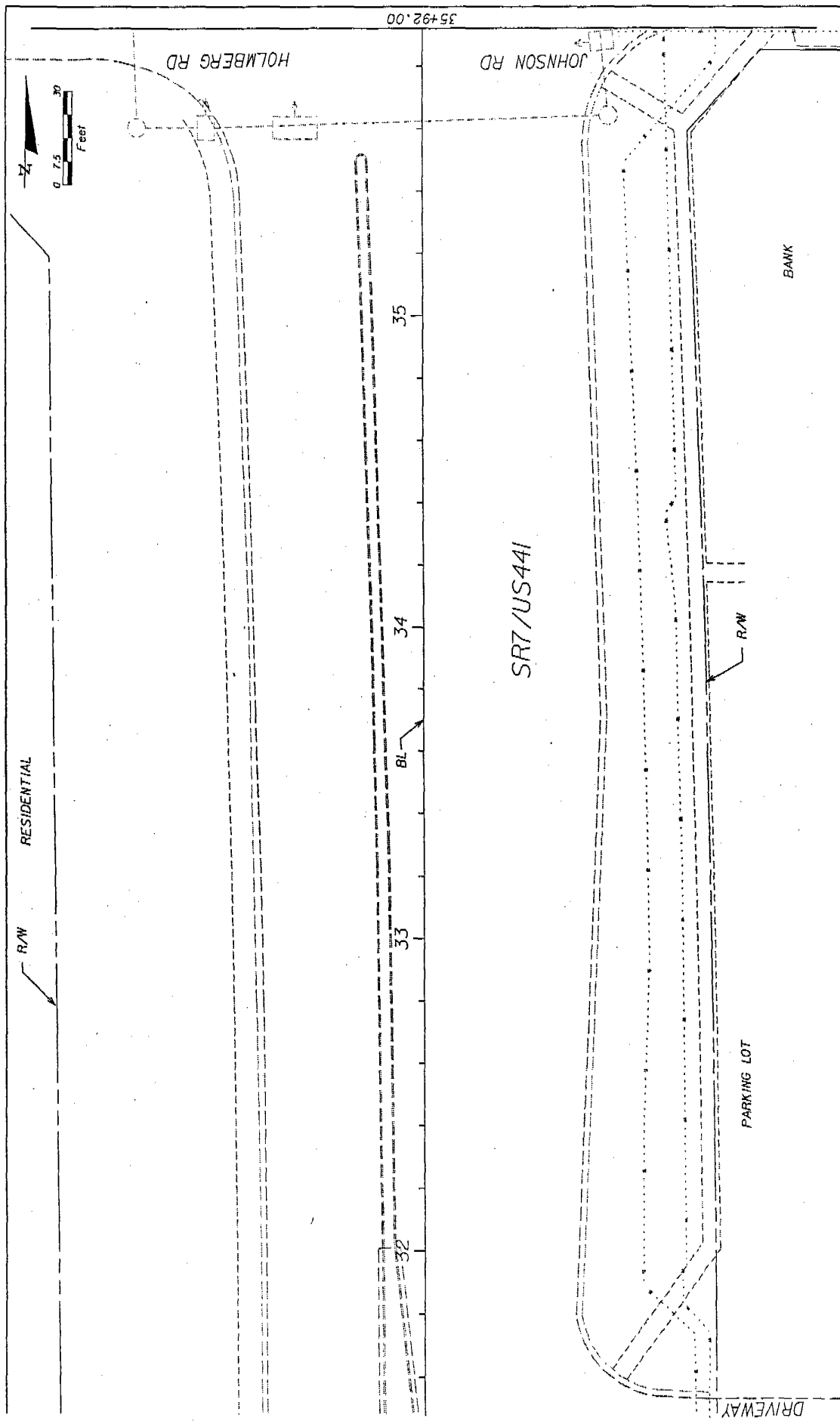
R/W

BANK

EX. HYDRANT

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

MILLER LEGG <small>180 West Dwyer Blvd., Suite 200, Pompano Beach, Florida 33069 954-663-3000 Fax: 954-956-6858 www.millerlegg.com Dept. of Public Works, 11000 NE 17th St., Ft. Lauderdale, FL 33304</small>		CITY OF COCONUT CREEK <small>MILLER LEGG PROJECT ID</small> ROAD NO. 7 COUNTY BROWARD CT -000239	SHEET NO. LD-15
EXISTING CONDITION PLAN		8/1/2008	8/1/2008



35+92.00

HOLMBERG RD

JOHNSON RD

BANK

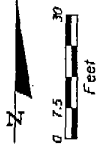
SR7/US441

RESIDENTIAL

R/W

PARKING LOT

DRIVEWAY

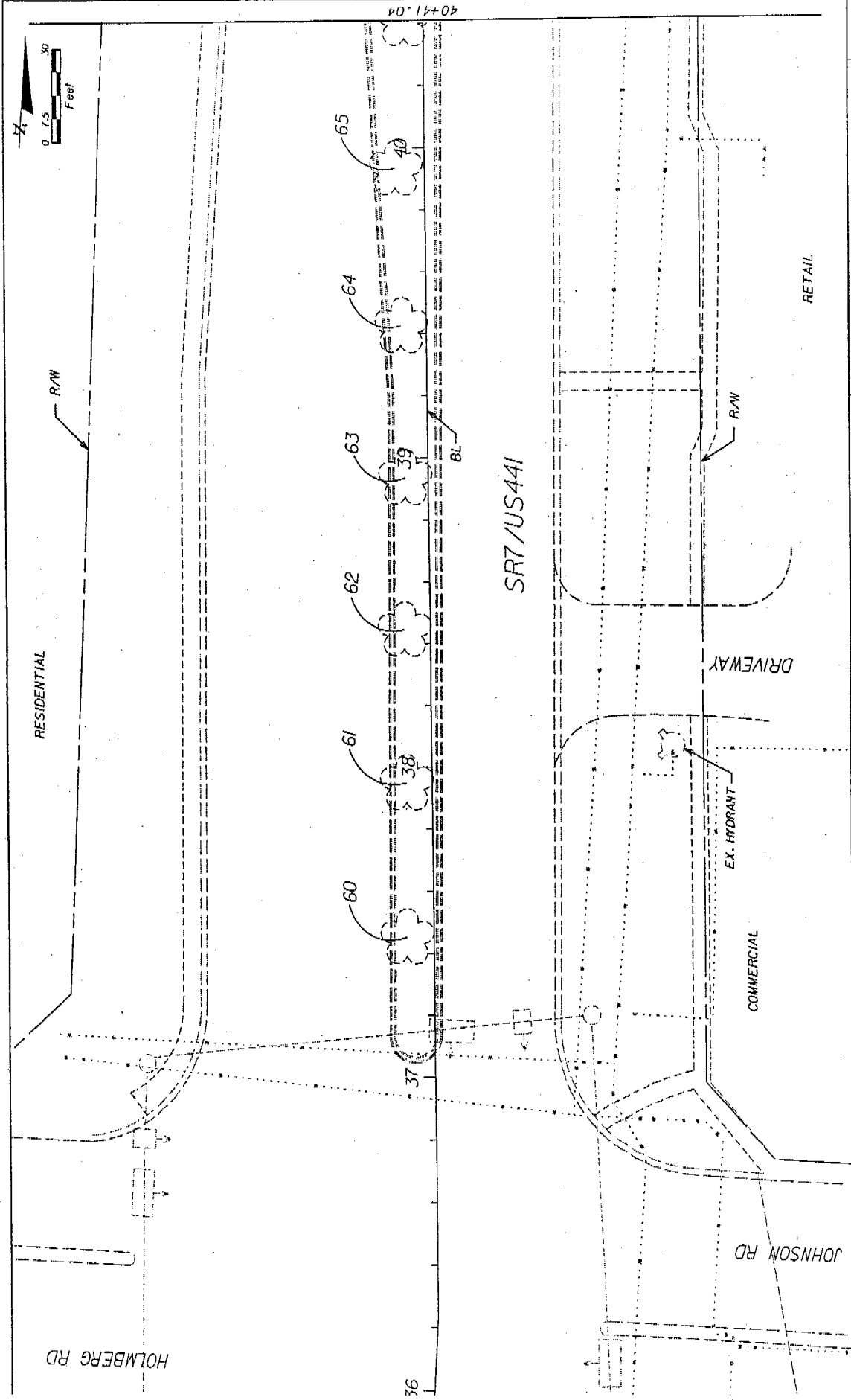


REVISIONS		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION

MILLER LEGG 180 North Douglas Blvd. Suite 200 - Pompano Beach, FL 33061 954-935-1000 - Fax: 954-935-9651 - www.mlegg.com One of South Florida's Leading Civil Engineers & Surveyors		ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239	CITY OF COCONUT CREEK VILLER LEGG PROJECT ID 07-00239
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SHEET NO.	LD-16
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DATE: 04/2008
 DRAWN BY: JLM
 CHECKED BY: JLM
 PROJECT: SR7/US441
 SHEET: LD-16

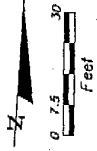


SHEET NO.		LD-17	
EXISTING CONDITION PLAN			
CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	COUNTY	07-00239	
7	BROWARD		
MILLER LEGG		DATE	
1800 N. Douglas Blvd., Suite 200, Pompano Beach, FL 33064 954.983.2000 Fax 954.983.8561 www.mlg.com City of Jacksonville, FL, at 904.251.1234			
REVISIONS		DESCRIPTION	
BY	DATE	BY	DESCRIPTION

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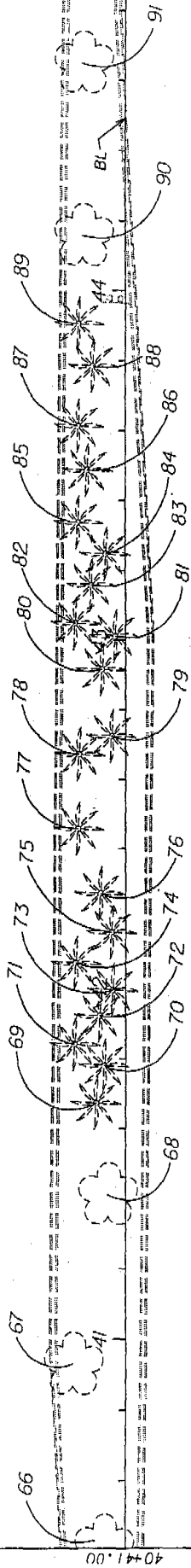
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RESIDENTIAL

R/W



SR7/US441

DRIVEWAY

RETAIL

R/W

COMMERCIAL

40+41.00

44+90.00

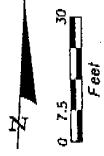
DATE	BY	DESCRIPTION	REVISIONS

MILLER LEGG
 100 West Temple Street, Suite 200, Portland, Oregon 97204
 503-466-3300 • Fax 503-466-3461 • www.millerlegg.com
 Div. of HOK, L.L.O. 00000077, L.L.O. of Record Book P. Sheet 11, 668970

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BRONARD
 MILLER LEGG PROJECT ID 07-00239

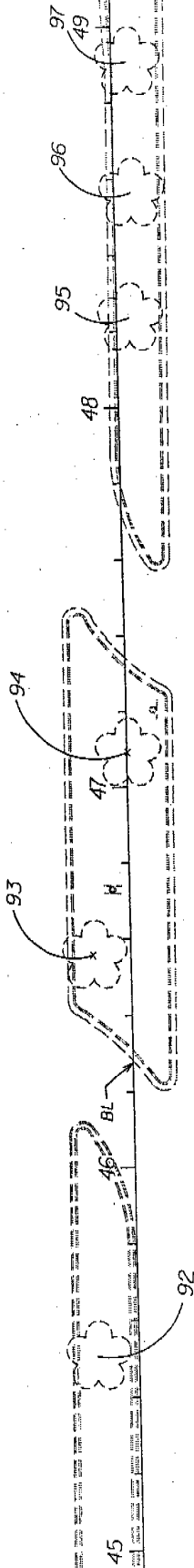
EXISTING CONDITION PLAN

SHEET NO. LD-18



RESIDENTIAL

RAW



SR7/US441

DRIVEWAY

COMMERICAL

EX. HYDRANT

COMMERICAL

44+90.00

49+39.00

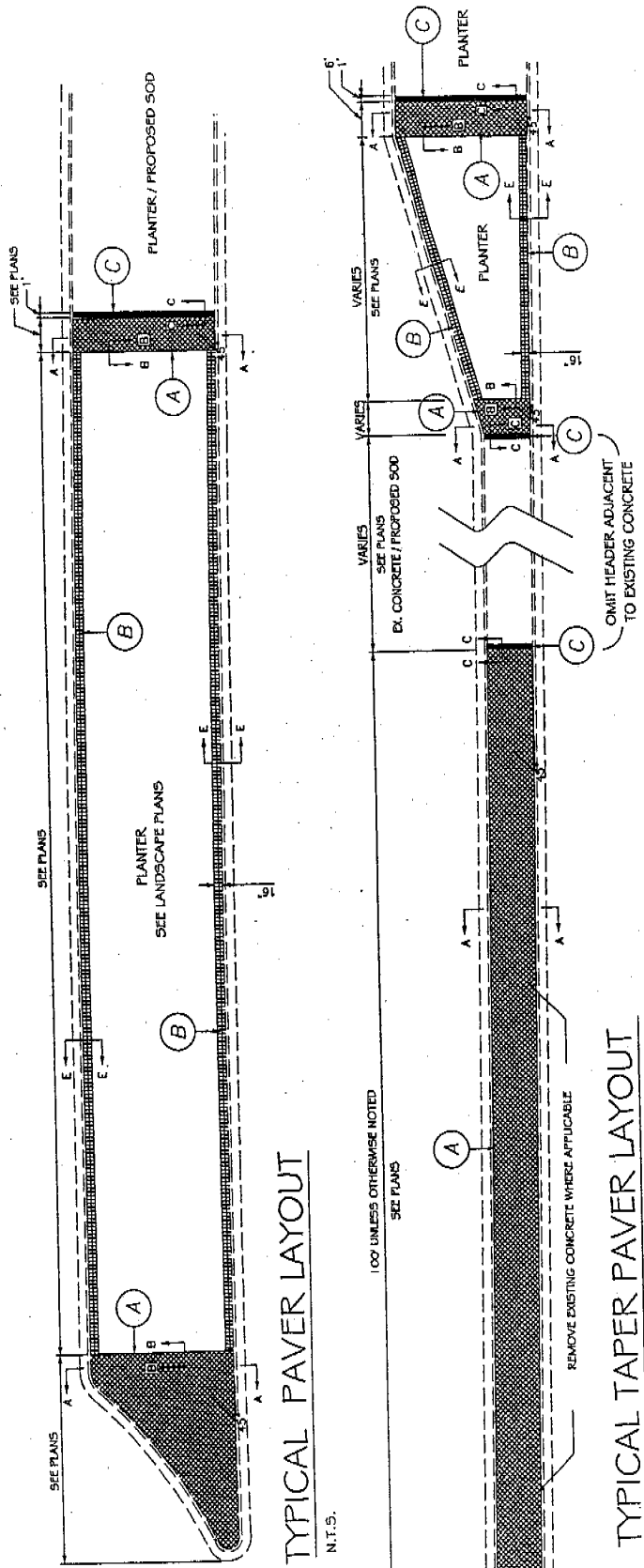
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 180 West Peachtree Street, Suite 200, Peachtree Park, Georgia, 30304
 844-846-3000, Fax: 844-846-3664, www.millerlegg.com
 City of Los Angeles, 1100000007, L.A. of District 5, Box 2, Street 11, 6660719

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 07-00239

SHEET NO. LD-19

DATE: 6/7/2008
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TYPICAL PAVER LAYOUT
N.T.S.

TYPICAL TAPER PAVER LAYOUT
N.T.S.

PAVING LEGEND

- (A) SPECIALTY PAVING FIBER TO BE 6" X 6" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS OR APPROVED EQUAL ON 1-1/2" SAND SETTING BED OVER COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK/NATURAL GRAY COMBINATION. PAVERS TO BE LAID IN A 45 DEGREE ANGLE TO THE NON-ADJACENT ADJACENT CURB.
- (B) 16" WIDE SPECIALTY PAVING BANDING TO BE DOUBLE ROW OF 8" X 6" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS OR APPROVED EQUAL ON 1-1/2" SAND SETTING BED OVER COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE PINK/NATURAL GRAY COLOR MIX COMBINATION. PAVES TO BE LAID PARALLEL TO THE ADJACENT CURB.
- (C) 12" WIDE BROOM FINISH CONCRETE HEADER.

SPECIALTY PAVING GENERAL NOTES

1. SPECIALTY PAVERS AVAILABLE THROUGH HANSON PAVERS (954) 972-7400 OR (800) 273-7054
2. HIDDEN CONCRETE BACKTILL SHALL BE REQUIRED BETWEEN 16" WIDE PAVES BANDING AND THE ADJACENT PLANTER
3. CONTRACTOR TO PRESURE CLEAN ALL EXISTING CONCRETE SURFACES AFTER COMPLETION OF PAVES AND/OR PLANT MATERIAL INSTALLATION. CONTRACTOR TO PROVIDE TWO (2) 1" X 1" X 1" SAMPLES OF SEALANT ON ALL CONCRETE PAVERS. CONTRACTOR TO SUBMIT SAMPLE OF SEALANT FOR APPROVAL BY CITY BEFORE INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND/OR REPLACEMENT OF ALL EXISTING CURBING AND/OR CONCRETE SURFACES DAMAGED DURING PAVES AND/OR PLANT MATERIAL INSTALLATION.
5. CONTRACTOR TO SUBMIT SAMPLES OF PAVERS FOR REVIEW.
6. CONTRACTOR SHALL CONSTRUCT A SAMPLE LAYOUT AREA TO BE REVIEWED BY CITY AND OR CITY REPRESENTATIVE.
7. CITY / LAND OR CITY REPRESENTATIVE SHALL REVIEW AND HAVE THE RIGHT TO ADJUST PAVERS FOR CUTS AND LAYOUT.

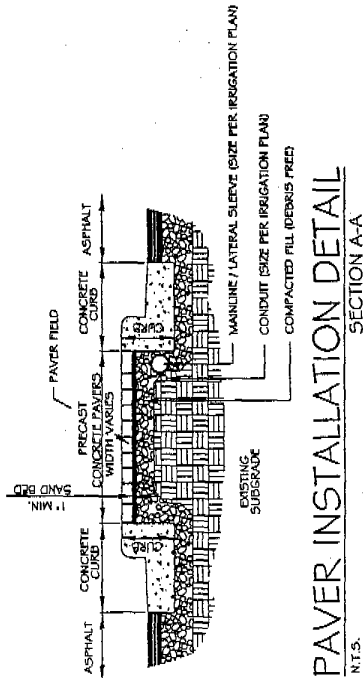
SHEET NO.
LD-30

HARDSCAPE NOTES AND DETAIL

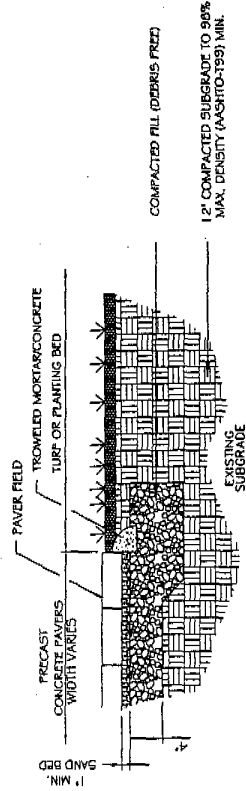
CITY OF COCONUT CREEK	
ROAD NO.	WALKER LEGG PROJECT ID
7	07-00239
COUNTY	BROWARD

MILLER LEGG
1800 North Douglas Road, Suite 200, Pompano Beach, Florida 33064
954-485-7000 Fax: 954-485-8801 www.mlegg.com
City of Pompano Beach, P.O. Box 114, Pompano Beach, Florida 33062

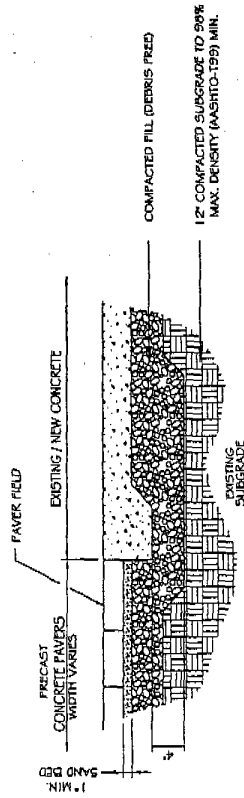
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION



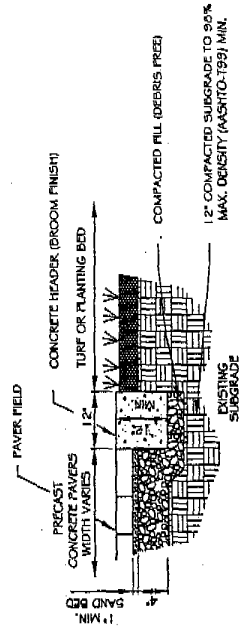
PAVER INSTALLATION DETAIL
SECTION A-A
N.T.S.



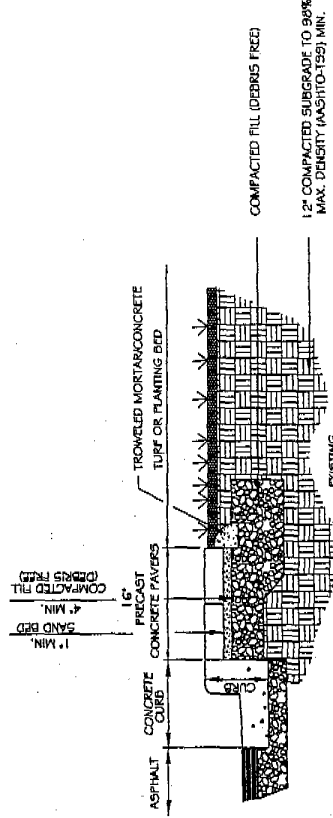
PAVER TRANSITION TO TURF OR PLANTING BED
SECTION B-B
N.T.S.



PAVER TRANSITION TO CONCRETE
SECTION D-D
N.T.S.



CONCRETE BANDING DETAIL
SECTION C-C
N.T.S.



PAVER BANDING DETAIL
SECTION E-E
N.T.S.

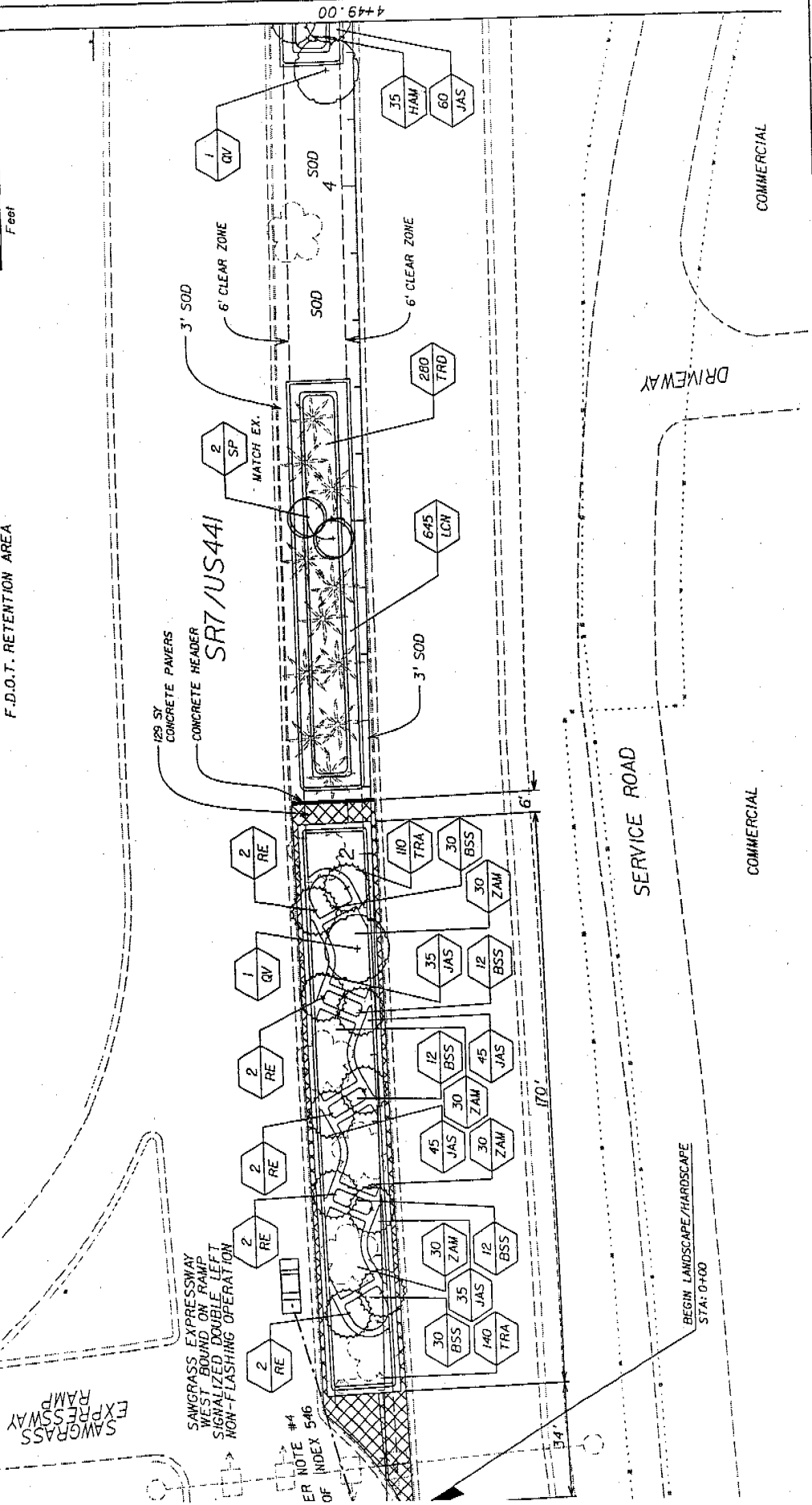
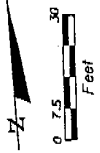
NO.	DESCRIPTION	DATE	BY	REVISIONS

MILLER LEGG
180 North Houghton Road, Suite 202, Pompano Beach, FL 33069
954-685-1000 Fax: 954-685-9661 www.millerlegg.com
Div. of Hensel PHILLIPPS, L.L.C. 3100 Broward Blvd., Suite 114, Fort Lauderdale, FL 33304

CITY OF COCONUT CREEK
ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239
MILLER LEGG PROJECT ID

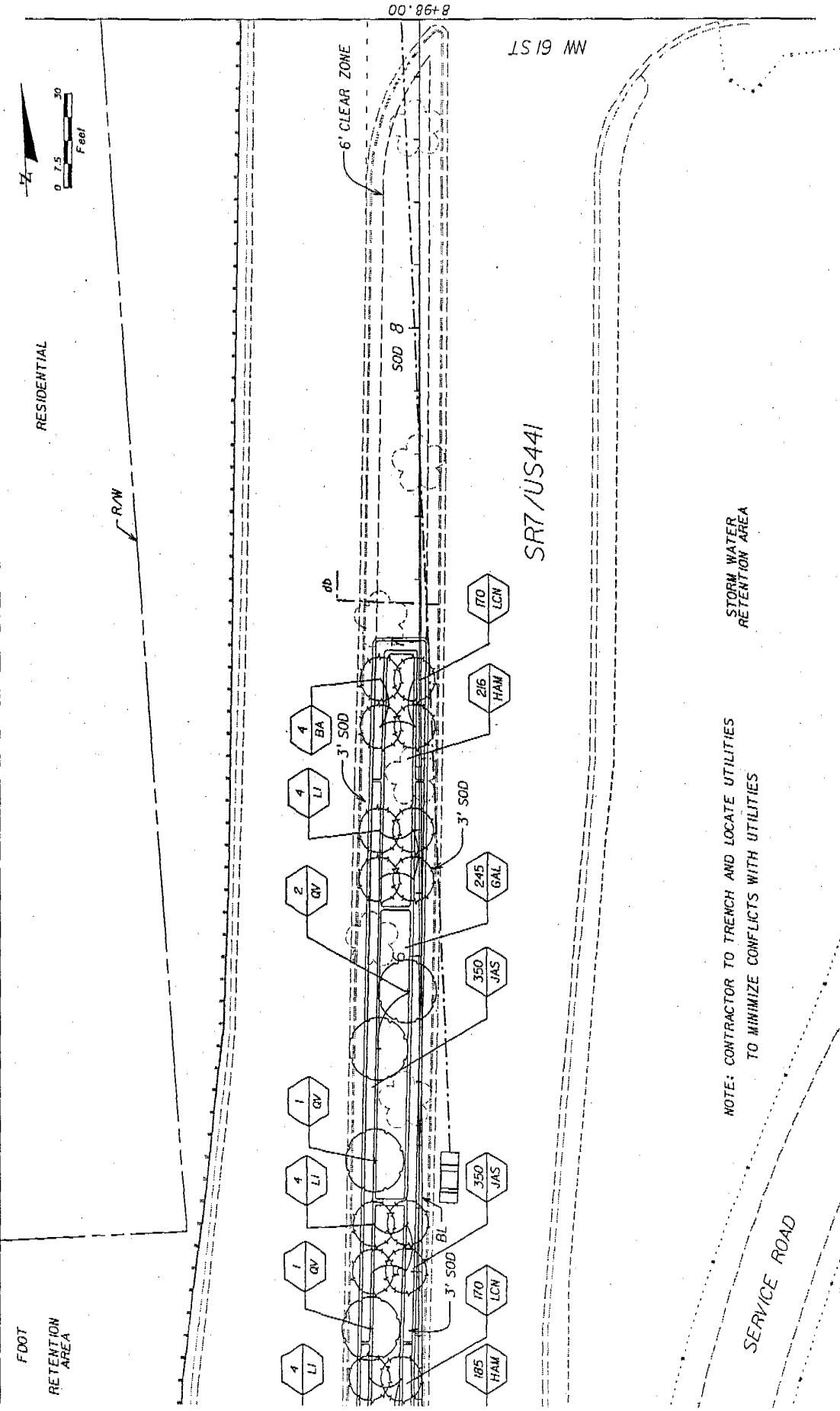
SHEET NO. LD-31

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
 TO MINIMIZE CONFLICTS WITH UTILITIES
 F.D.O.T. RETENTION AREA



NO.	DESCRIPTION	REVISIONS		REVISIONS	
		DATE	BY	DATE	BY

MILLER LEGG 1800 North Douglas Blvd. Suite 200, Parklands Town, Florida 32834 324-436-7000 • Fax: 324-436-8661 • www.mlg.com Corp. of Fla. # 1530885 • L.L. of Fla. # 1530885		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BRONARD MILLER LEGG PROJECT ID 07-00239	SHEET NO. LD-32 6/4/2008 9:25:57 AM E:\proj\07-00239\7-11-08.Landscape.dwg\07-00239.Landscape\Sheet32.dwg
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RESIDENTIAL

R/W

FOOT
RETENTION
AREA

6' CLEAR ZONE

00.86+8

LS 19 MN

SOD 8

SR7/US441

STORM WATER
RETENTION AREA

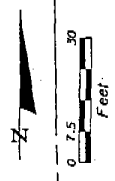
NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES

SERVICE ROAD

REVISIONS		DESCRIPTION		DATE		BY	
MILLER LEGG				CITY OF COCONUT CREEK			
1801 North Douglas Road, Suite 200, Chandler, AZ 85224 949-485-3000 Fax 949-485-8699 www.millerlegg.com Calif. Lic. #110000031, Fla. Lic. #1466870				MILLER LEGG PROJECT ID 07-00239			
COUNTY BROWARD				ROAD NO. 7			
SHEET NO. LD-33				DATE 06/20/2008			

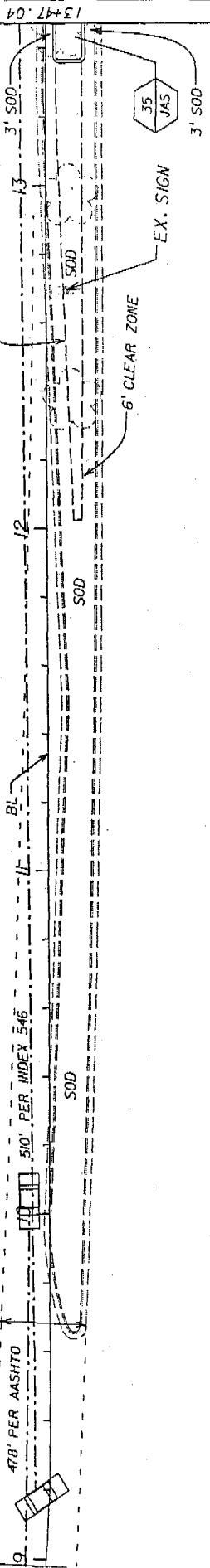
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RESIDENTIAL



R/W

SR7/US441



NW 61 ST

EX. HYDRANT

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

R/W

VACANT LAND

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 100 North Douglas Road - Suite 200 - Tallahassee, Florida - 32304
 904-432-7000 - Fax: 904-432-6884 - www.mlegg.com
 Cert. of Reg. No. 1120000017 - L.A. of Florida, June 11, 2009 #12, 660078

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 07-00239

SHEET NO. LD-34

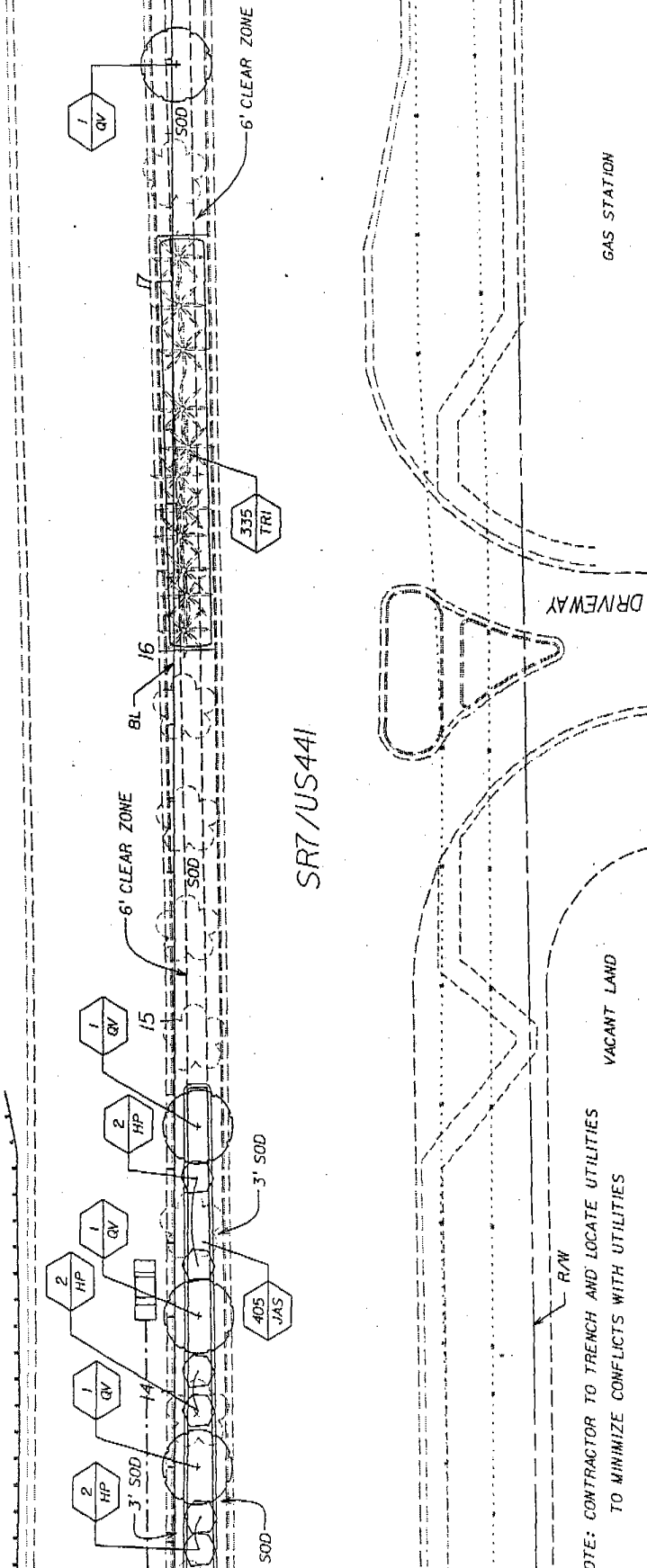
RESIDENTIAL

RAW

N



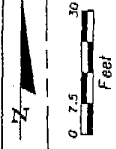
17+96.00



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES

NO.	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG		CITY OF COCONUT CREEK	
1800 West Pinal Street, Suite 200, Phoenix, AZ 85009 948.557.7000 Fax: 948.557.8646 www.millerlegg.com City of Pinal: (520) 837-1111, (520) 837-1112, (520) 837-1113, (520) 837-1114, (520) 837-1115, (520) 837-1116, (520) 837-1117, (520) 837-1118, (520) 837-1119, (520) 837-1120, (520) 837-1121, (520) 837-1122, (520) 837-1123, (520) 837-1124, (520) 837-1125, (520) 837-1126, (520) 837-1127, (520) 837-1128, (520) 837-1129, (520) 837-1130, (520) 837-1131, (520) 837-1132, (520) 837-1133, (520) 837-1134, (520) 837-1135, (520) 837-1136, (520) 837-1137, (520) 837-1138, (520) 837-1139, (520) 837-1140, (520) 837-1141, (520) 837-1142, (520) 837-1143, (520) 837-1144, (520) 837-1145, (520) 837-1146, (520) 837-1147, (520) 837-1148, (520) 837-1149, (520) 837-1150, (520) 837-1151, (520) 837-1152, (520) 837-1153, (520) 837-1154, (520) 837-1155, (520) 837-1156, (520) 837-1157, (520) 837-1158, (520) 837-1159, (520) 837-1160, (520) 837-1161, (520) 837-1162, (520) 837-1163, (520) 837-1164, (520) 837-1165, (520) 837-1166, (520) 837-1167, (520) 837-1168, (520) 837-1169, (520) 837-1170, (520) 837-1171, (520) 837-1172, (520) 837-1173, (520) 837-1174, (520) 837-1175, (520) 837-1176, (520) 837-1177, (520) 837-1178, (520) 837-1179, (520) 837-1180, (520) 837-1181, (520) 837-1182, (520) 837-1183, (520) 837-1184, (520) 837-1185, (520) 837-1186, (520) 837-1187, (520) 837-1188, (520) 837-1189, (520) 837-1190, (520) 837-1191, (520) 837-1192, (520) 837-1193, (520) 837-1194, (520) 837-1195, (520) 837-1196, (520) 837-1197, (520) 837-1198, (520) 837-1199, (520) 837-1200		BTLER LEGG PROJECT ID: 07-00239	
ROAD NO.	7	COUNTY	BROWARD
SHEET NO.		LD-35	



RESIDENTIAL R/W

COMMERCIAL R/W

DRIVEWAY

RESTAURANT

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES.

SR7/US441

BL

3' SOD

CONCRETE HEADER

30 SY

CONCRETE PAVERS

CONCRETE HEADER

500

21

22

121

TRA

57'

3' SOD

3' CLEAR ZONE

6' CLEAR ZONE

9

HP

3' SOD

385

JAS

6' CLEAR ZONE

22+45.00

LANDSCAPE / HARDSCAPE PLAN

CITY OF COCONUT CREEK

ROAD NO. 7

COUNTY BROWARD

MILLER LEGG PROJECT ID 07-00239

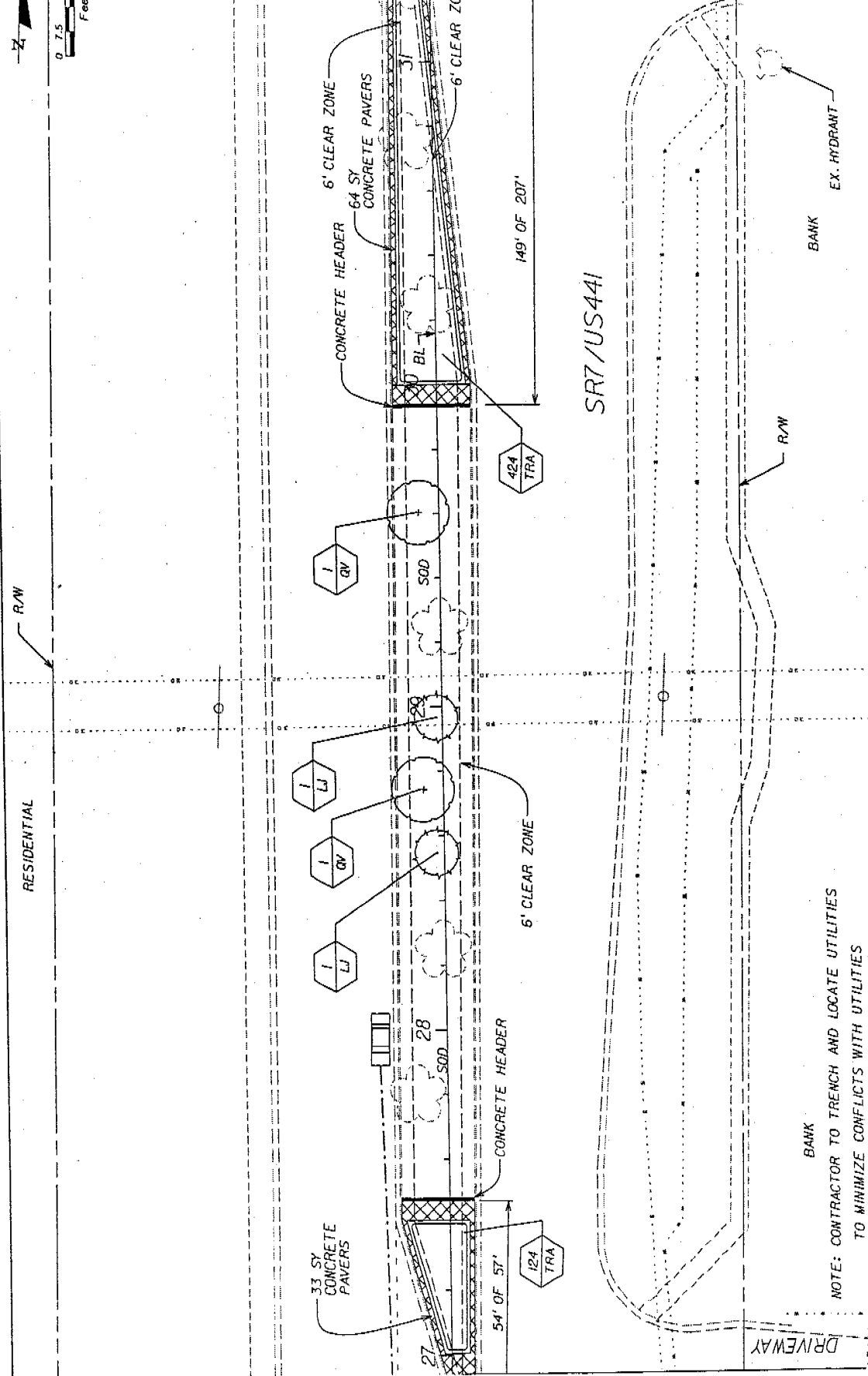
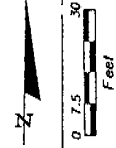
DATE 6/4/2008

SHEET NO. LD-36

180 North Dugan Road, Suite 200, Pompano Beach, Florida 33062
 P.O. Box 2000, Pompano Beach, Florida 33062
 City of Pompano Beach, Florida
 Miller Legg, Inc. a subsidiary of Miller Legg & Associates, Inc.

REVISIONS

NO.	DATE	DESCRIPTION



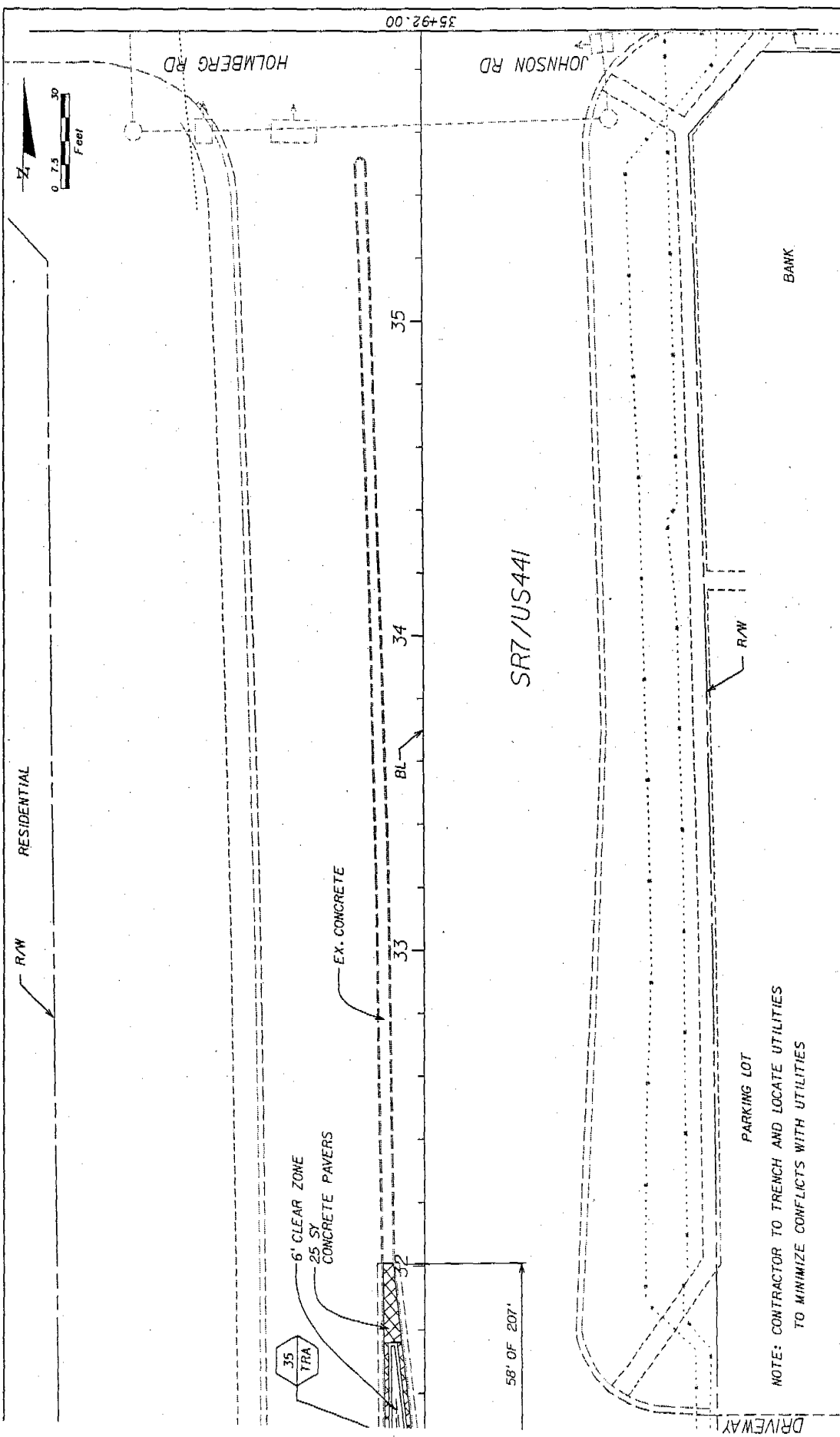
NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG		CITY OF COCONUT CREEK	
1000 North Douglas Road, Suite 200, Tempe, Arizona, 85284 914-436-7000, Fax: 914-436-9461, www.millerlegg.com City of Tempe, 110000977, City of Record: June 1, 2002, LA 065070		MILLER LEGG PROJECT ID	
ROAD NO.	7	COUNTY	BROWARD
PROJECT NO.	07-00239		

SHEET NO.	LD-38
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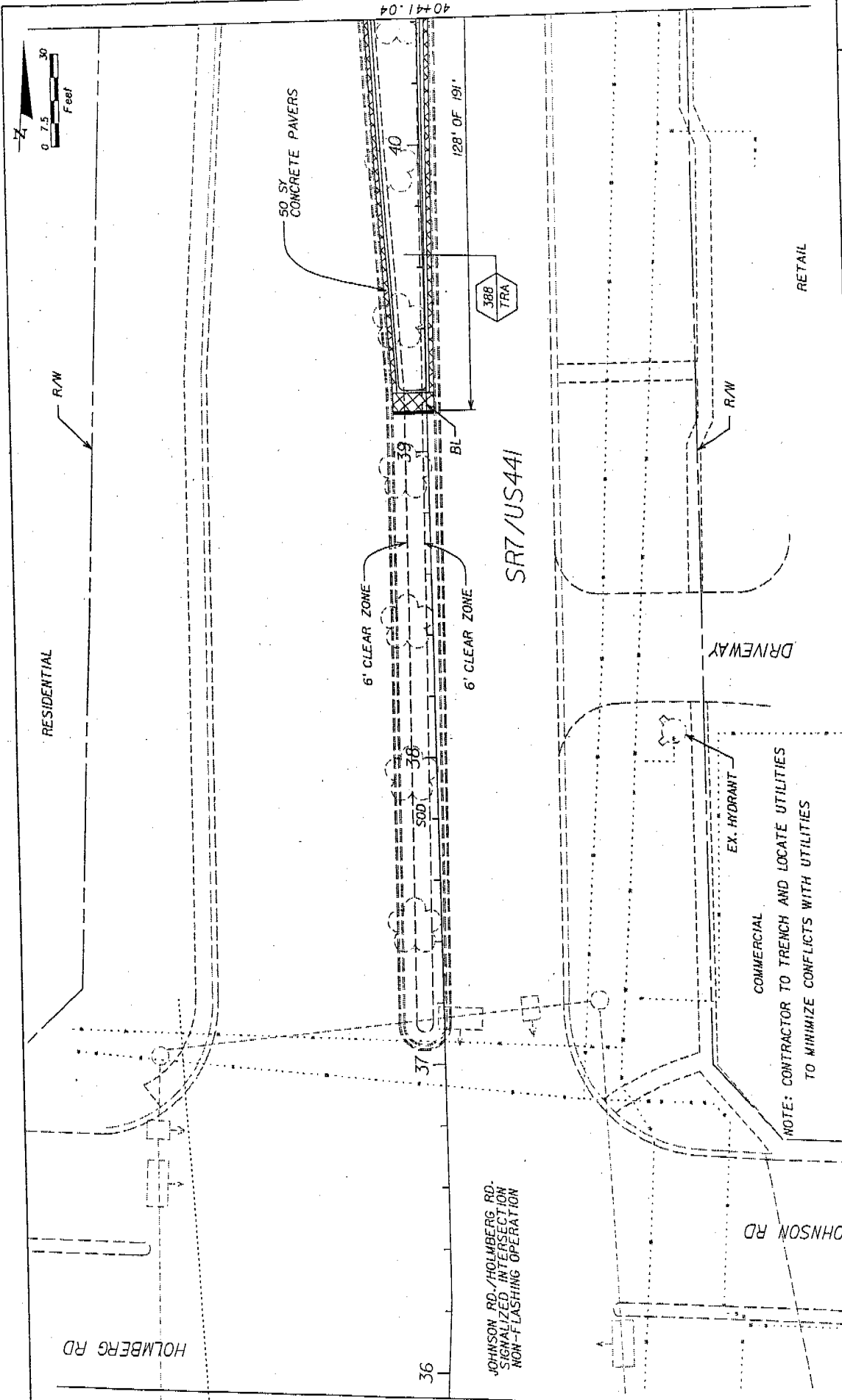
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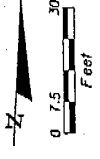
MILLER LEGG 10000 North 10th Street, Suite 200 Phoenix, AZ 85020 City of Phoenix, AZ		CITY OF COCONUT CREEK ROAD NO. 7 COUNTY BROWARD PROJECT # 07-00239	SHEET NO. LD-39
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DATE: 04/20/07



DATE	BY	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

CITY OF COCONUT CREEK			SHEET NO.	LD-40
MILLER LEGG PROJECT ID			LANDSCAPE / HARDSCAPE PLAN	
ROAD NO.	7	CORP	BROHARD	
PROJECT NO.	07-00239			
MILLER LEGG 1180 North Douglas Road, Suite 200, Tempe, AZ 85281 94-65-7000 Fax: 94-65-6666 www.millerlegg.com Lic. # LMS 110000001-1, L.S. of State No. 11, 2001 11, 68870				



RESIDENTIAL

RAW

J
SP
MATCH EX.

36 SY
CONCRETE PAVERS
CONCRETE HEADER

6' CLEAR ZONE

6' CLEAR ZONE

33' OF 19'

SR7/US441

1360
TRI

255
TRA

44+90.00

DRIVEWAY

RAW

COMMERCIAL

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

SHEET NO. LD-41

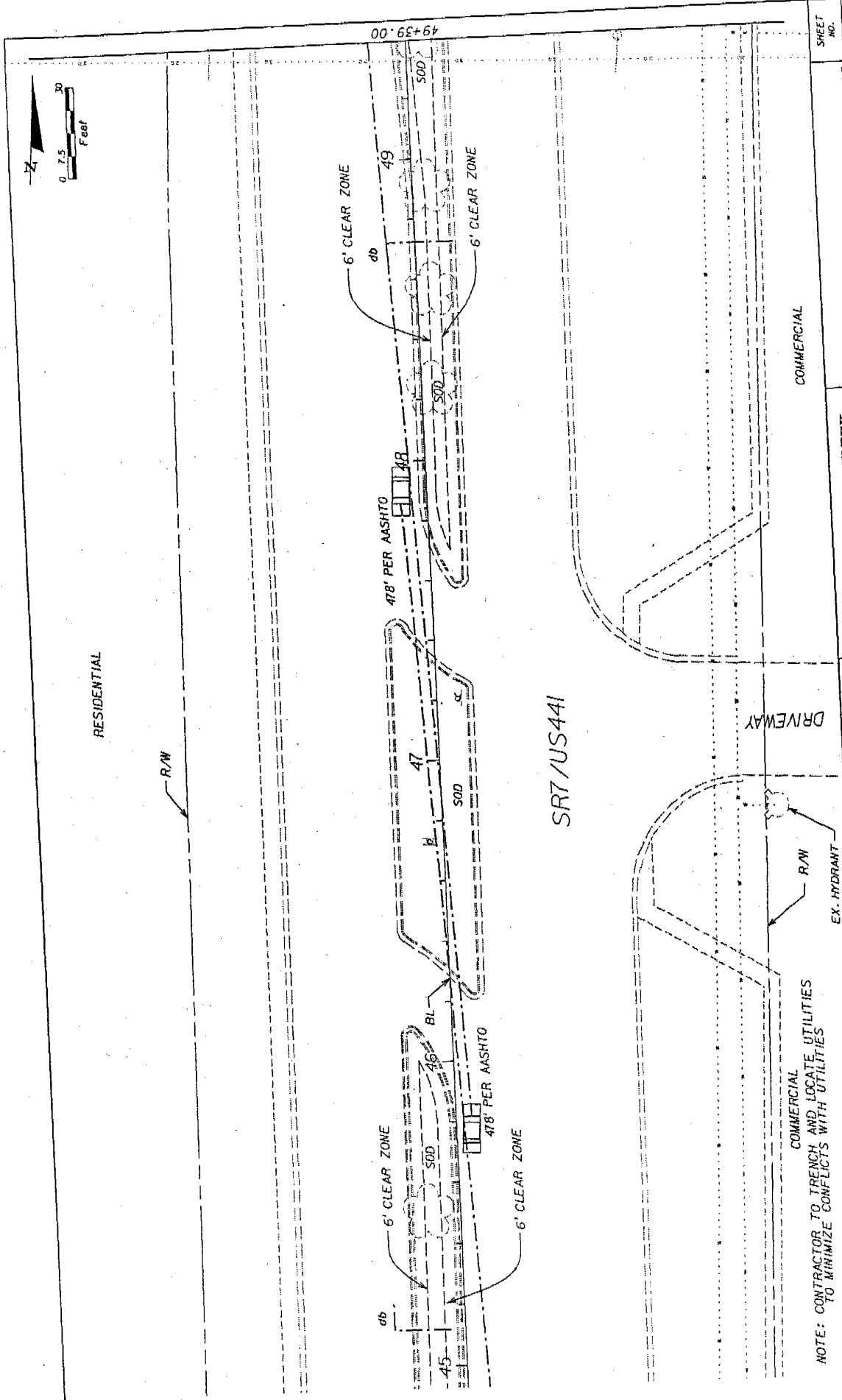
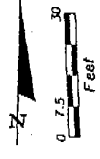
LANDSCAPE / HARDSCAPE PLAN

CITY OF COCONUT CREEK
ROAD NO. 7
COUNTY BROWARD
MILLER LEGG PROJECT ID 07-00239

MILLER LEGG
100 North Douglas Road, Suite 200, Pompano Beach, Florida 33064
954-495-3000 • Fax 954-655-8664 • www.millerlegg.com
Cert. of Lic. # LD000537, L.A. # License 2888 P, State LI 166870

REVISIONS	DATE	BY	DESCRIPTION

9/17/2008 8:52:39 AM
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RESIDENTIAL

R/W

49+39.00

6' CLEAR ZONE

db

478' PER AASHTO

47

SOD

6' CLEAR ZONE

478' PER AASHTO

6' CLEAR ZONE

SRT/US441

DRIVEWAY

R/W

EX. HYDRANT

COMMERCIAL

COMMERCIAL
NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES

NO.	DATE	BY	DESCRIPTION

MILLER LEGG
 180 Park Dr. Suite 200, Fremont, CA 94538
 925-436-3000 Fax: 925-436-3001
 Cost of Plans: \$10,000.00 - \$1,000,000.00

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

LANDSCAPE / HARDSCAPE PLAN

SHEET NO. LD-42

6/4/2008 9:43:17 AM
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Mainline shall be Class 200 gasketed 1" mfg. PVC with Harco ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: slow-drying, heavy duty cement and tinted (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 2711 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

ELECTRICAL POWER SUPPLY
Electrical supply and phone line for pumps and controllers to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supply's for required electrical components as set forth in the irrigation plans.

All electrical to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for the controllers shall be 120 volts. Power for Pumps A & B shall be 208 volts Phase 3.

WIRING
Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DBY,DBK connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

- Wire sized, numbered and colored as follows:
- # 12 white for common
 - # 12 spare black common
 - # 14 red for hot wires
 - # 14 spare yellow hot wire

SPARE WIRES
Run spare wires into every RCV valve box. Install a minimum of 2 common and 4 hot wires, in all directions, to every RCV connected to its respective controller.

CONTROLLER GROUNDING
Contractor to utilize 4"X5"X5/8" copper grounding plates, 5/8"X10" copper clad grounding rods, One Struck CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractor's letter head, showing the date of the test, controller location, and test results. Each controller shall be so grounded and tested.

LAYOUT
Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to insure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" 5ch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other landscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed within planized masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will be installed from a reuse water system with purple PVC risers.

IRRIGATION GENERAL NOTES and SPECIFICATIONS
The system has been designed to conform with the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to insure the entire system is installed according to all applicable laws, rules, regulations and conventions. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.

THE WORK
The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to, the proceeding of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain sensor. The rain sensor shall be installed to prevent activation of rain sensor by adjacent heads. All watering procedures shall conform to local codes, as well as this project's regional Water Management District restrictions and regulations. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item. These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix F and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition.

Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner/authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation Contractor shall repair or replace all items damaged by their work. Irrigation Contractor shall coordinate their work with other Contractors for the location and installation of pipe sleeves and laterals under roadways and paving, etc. The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.


POINT OF CONNECTION (P.O.C.)
The P.O.C.'s are new Hoover Pumping Stations (Pump A Model HCF-10FD-230J3-A-E, I.G.M.W and Pump B Model HCF-10FD-230J3-A-E-12.M.W) abating proposed wells. Each P.O.C. must be capable of delivering a minimum of 80 GPM at 178 TDH. Contractor shall verify these minimum conditions can be met prior to the begin irrigation system installation.

If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the Contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE
Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a 18"x24" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project properties boundary.

Pipe sizes shall conform to those shown on the plans. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged / rejected pipe shall be removed from the site at the time of said rejection.

All pipes are to always be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethylene (HDPE) under existing roadways and sidewalks where directional bore is utilized and Sch 40 PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

 <p>MILLER LEGG 100 N.W. Douglas Blvd. Suite 200 - Pompano Beach, FL 33069 954-435-7700 Fax 954-435-8661 - www.millerlegg.com Ced. of Acad. Lic. 120000091; L.L. of Florida Lic. No. 12-146670</p>		<p>CITY OF COCONUT CREEK</p> <p>WATER REB. PROJECT #</p> <p>07-00239</p>		<p>IRRIGATION NOTES</p>	
<p>ROAD NO.</p> <p>7</p>	<p>COUNTY</p> <p>BROWARD</p>	<p>SHEET NO.</p> <p>LD-53</p>	<p>6/17/2008 12:52:24 PM</p>		
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY

SATION GENERAL NOTES and SPECIFICATIONS (CONTINUED)

ite valves prior to excavation. Insure that their location provides for easy access and that there is no interference with ical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the e of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in bur s without approval by the irrigation designer - only in shrub beds. Never install in spot field areas.

Use all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. Closest valve to the P.O.C. should be the last valve in the programmed sequence.

Set the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

VE BOXES

Valve boxes shall be standard unless otherwise noted to be traffic rated boxes.

Use 3" high number stencils paint the valve number in white on the lid of each valve box.

PIPING

Manifolds shall be installed using Sch. 80 nipples and shall be placed at the base of trees for low level watering.

Pop-up heads and shrub users shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing risers.

Sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Replace existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION

1. All pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the end. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe sits at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

2. Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

CK FILL

3. Back fill 6" below and 6" above all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

4. In line pipe depth measured to the top of pipe shall be 36" minimum, including at vehicular crossings.

5. Lateral line depths measured to top of pipe shall be:

a. 18" minimum for 3/4"-3" PVC with a 36" minimum at vehicular crossings.

b. 24" minimum for 4" PVC and above with a 36" minimum at vehicular crossings.

6. Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be filled with the exception of 2" on each side of every joint (bell fittings, 90s, tees, 45s, etc.). These joints shall not be certified until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving. TESTING Remove all remote control valves and cap using a torqued cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge. Flush with the same respective pressures. Gasketed piping shall lose no more water than allowed per the Florida State Building Code, Volume II Plumbing, Part VI, Appendix F. Refer to this section for the formula to be used to calculate the maximum allowable water loss during the testing time. If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be filled and visually checked for leaks. Any leaks detected must be repaired. No pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained and that the system works automatically from the controller. This demonstration requires that each zone is turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electrically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur; instead, calculate the required run times.

SUBMITTALS

The contractor must submit for approval, prior to installation, copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system.

Record Drawings - After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, slooving, and low voltage wiring. Each of these items is to be located using a submeter GPS system. The irrigation contractor must also provide accurate, informative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be geometrically scaled inside two 2ml pieces of clear plastic.

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage, and identified with labels describing contents. Include tools to service these products.

1. Sprinkler Units: Five of each unit for each type and size installed, but no fewer than two units.
2. Emitter Units: Five of each unit for each type and size installed, but no fewer than two units.
3. Drip Tube Units: Five of each unit for each type and size installed, but no fewer than two units.

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

1. Final walk-thru and correction of all punch list items.
2. Completion and acceptance of "as-built" drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. Turn over of all required parts and tools as outlined in the project specifications.

GUARANTEE

The irrigation systems shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

MILLER LEGG
 1807 North Douglas Road - Suite 200 - Oakland Park, Florida - 33064
 594-9366 FAX 594-05-8664 www.millerlegg.com
 Div. of A.W.A. COMPANY, L.L.C. 4000 North State E. Suite 114, Orlando, FL 32812

CITY OF COCONUT CREEK	
ROAD NO.	MILLER LEGG PROJECT ID
7	BROWARD
	07-00239

SHEET NO.	LD-54
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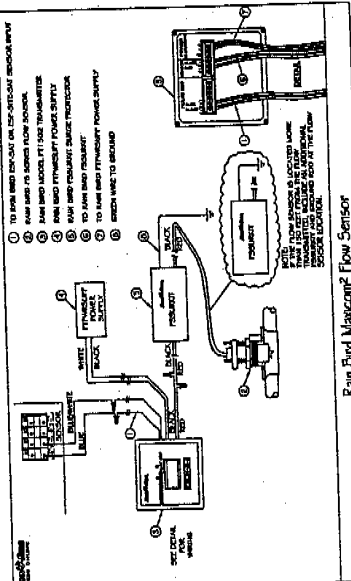
IRRIGATION NOTES

DATE

6/7/2008

5/25/08 AM

everybody.com 606-607-00239 - 1-800-451-4646 - www.606-607-00239.com



Rain Bird Maxicom ESP-SITE SATELLITE CONTROLLER

The irrigation system controller shall be a Maxicom® Site Satellite. The central computer shall be able to send schedule instructions and receive logs of operation directly from the satellite controller. No other interface will be required. As specified in the drawings and associated documents, communication from the central computer shall be via standard dial-tone telephone, cellular phone, point-to-point radio (450-470 Mhz), or direct connection serial cable as a communication link to the central computer.

The controller shall be a single unit containing a telephone modem card (dial-tone telephone or cellular telephone) and an RS-232 serial connection card (radio or direct connect), and the encoder module.

The controller shall be of a hybrid type that combines electromechanical and microprocessor-based circuitry capable of fully automatic and manual operation. The controller will be housed in a weatherproof, lockable, 16-gauge stainless steel cabinet suitable for wall mounting, a plastic NEMA-4 rated wall mount cabinet, or free-standing stainless steel pedestal mounting.

The controller shall operate on a 117 VAC ± 10% power input and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay.

The controller shall be capable of operating four stations plus the master valve simultaneously. Controller output shall be protected against severe electrical surge.

As a stand-alone the controller shall have four separate irrigation programs (A, B, C, & D) which can have different start times, watering days, day cycles, and station timing. Each program shall have eight start times per day.

Controller A shall have 16 stations; controller B shall have 12 stations, with each station capable of an operating time of 0 to 2 hours in one-minute increments and 2 to 12 hours in 10-minute increments. Controller station operation shall be of automatic sequential staging to avoid overlapping operation unless programmed to overlap.

The controller shall have a 365-day calendar with day-of-the-month OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles from 1 to 99 days. In addition, the controller shall have a programmable rain shutdown from 1 to 99 days.

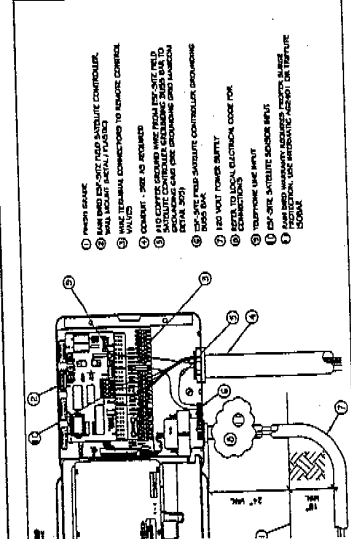
The controller shall have two master valve/pump start circuits for use with a master valve to pressurize the system when the irrigation cycle starts or to activate a remote pump start relay to run the pump during the irrigation cycle. This controller shall be programmable by station; the other shall function at all times.

The controller shall be capable of being operated manually at any time. A manual single station, a group of stations, or a program can be selected to run for the programmed time without affecting the normal program. This controller shall be capable of running a variable system test program without affecting the normal program.

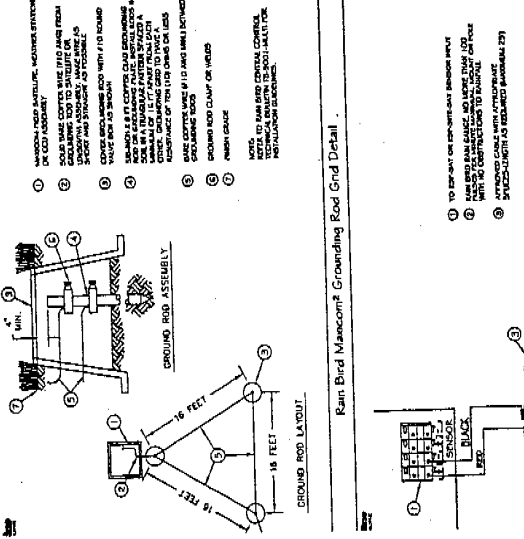
The controller shall have Cycle+Soak™ water management software which is capable of operating each station for a maximum cycle time and a minimum soak time to reduce water run-off and puddling. The maximum cycle time shall not be extended by water budgeting.

The controller shall have an internal nonvolatile memory which will retain the irrigation program and the programmed date and time for a minimum of 100 years without power. A 9 VDC rechargeable battery and recharging circuit shall also be included for counting down the program-in-progress during a power outage and shall allow programming of the controller when it is disconnected from the main power supply.

As a satellite the controller shall indicate when it is operating under central control. It shall also display which station and channel is in operation at such time. There shall be a station status indicator light and a master valve status indicator light. These lights will indicate station operation and circuit integrity. An indicator for sensor-stand-alone status will be found on the front panel along with a switch to suspend sensor operation. This indicator and override will work with a sensor wired to the controller's sensor terminals. The controller shall be as manufactured by Rain Bird Corporation, Glendora, California.



Rain Bird Maxicom Grounding Rod Grid Detail



Rain Bird Maxicom Variable Rain Shut-Down

REVISIONS		DESCRIPTION	
BY	DATE	BY	DATE

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO. 7		07-00239	
COUNTY BROWARD		SHEET NO. LD-55	

MILLER LEGG		SHEET NO. LD-55	
100 North Douglas Road, Suite 200, Pompano Beach, Florida 33069		SHEET NO. LD-55	
954-984-7000 Fax: 954-984-6666 www.millerlegg.com		SHEET NO. LD-55	
City of North Lauderdale, L.A. at Brown, Brian E. Smith, L.A. 66678		SHEET NO. LD-55	

IRRIGATION NOTES & DETAILS		SHEET NO. LD-55	
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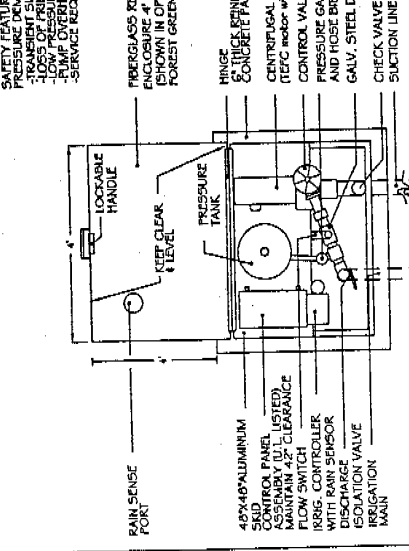
NOTE: SUCTION PIPE AND FITTINGS SHALL BE HOTTE HEAT TREATED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE PORTED STEEL. ALL PIPE EXPOSED TO THE SUN AT THE PUMP SYSTEM SHALL BE GALVANIZED STEEL WITH GALVANIZED GROOVE FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL. THE WELL DEPTH SHALL BE GREATER THAN 10 FEET BELOW THE PUMP. THE PUMP SHALL BE OPERATED CONTINUOUSLY PUMPING AT 125% OF THE DESIGN FLOW BELOW.

OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

- X OPERATOR CONTROL VALVE
- X IRRIGATION CONTROLLER RAIN BIRD ESP-SITE-W-16 STATIONS, WITH RAIN SENSOR
- X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
 -PRESSURE DEMAND
 -TRANSIENT SURGE
 -LOW FLOW
 -LOW PRESSURE
 -PUMP OVERHEAT
 -SERVICE REQUIRED



RAIN SENSE PORT

LOCKABLE HANDLE

KEY CLEAR LEVEL

PRESSURE TANK

FIBERGLASS REINFORCED ENCLOSURE 4' LX 4' W X 4' H (SHOWN IN OPEN POSITION) FOREST GREEN GELCOAT FINISH

HINGE CONCRETE PAD

CENTRIFUGAL PUMP 10 HP (IEFC motor when > 5.5 HP)

CONTROL VALVE/FLOW METER

PRESSURE GAUGE AND HOSE END

GALV. STEEL DISCH. HDR.

CHECK VALVE

SUCTION LINE

PLAN VIEW NTS

PUMP PERFORMANCE
80 GPM @ 170 TDI

FILE PWR554.DWG 11/07

HOOPER PUMPING MODEL: HCF-10FD-2303-A-E-16.M.W
 Pompano Beach, Florida, Tel: 954-971-7350

FDOT SR7 COCONUT CREEK PUMP A
 CENTRIFUGAL PUMP SYSTEM DETAIL
 FIBERGLASS ENCLOSED SINGLE WELL SUCTION
 PRESSURE DEMAND

Hoover Pumping Station: Pump A - STA 37+64.17

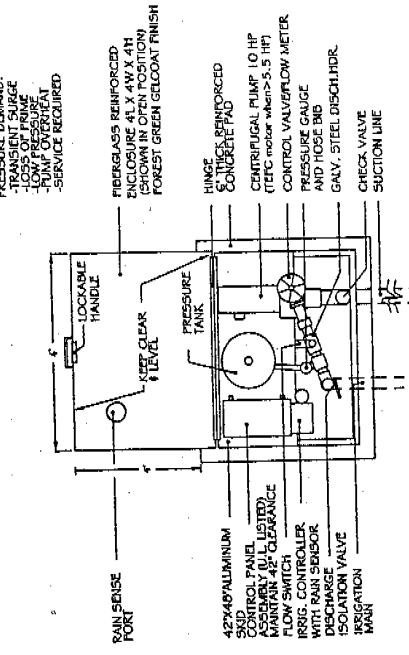
NOTE: SUCTION PIPE AND FITTINGS SHALL BE HOTTE HEAT TREATED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE PORTED STEEL. ALL PIPE EXPOSED TO THE SUN AT THE PUMP SYSTEM SHALL BE GALVANIZED STEEL WITH GALVANIZED GROOVE FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL. THE WELL DEPTH SHALL BE GREATER THAN 10 FEET BELOW THE PUMP. THE PUMP SHALL BE OPERATED CONTINUOUSLY PUMPING AT 125% OF THE DESIGN FLOW BELOW.

OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

- X OPERATOR CONTROL VALVE
- X IRRIGATION CONTROLLER RAIN BIRD ESP-SITE-W-12 STATIONS, WITH RAIN SENSOR
- X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
 -PRESSURE DEMAND
 -TRANSIENT SURGE
 -LOW FLOW
 -LOW PRESSURE
 -PUMP OVERHEAT
 -SERVICE REQUIRED



RAIN SENSE PORT

LOCKABLE HANDLE

KEY CLEAR LEVEL

PRESSURE TANK

FIBERGLASS REINFORCED ENCLOSURE 4' LX 4' W X 4' H (SHOWN IN OPEN POSITION) FOREST GREEN GELCOAT FINISH

HINGE CONCRETE PAD

CENTRIFUGAL PUMP 10 HP (IEFC motor when > 5.5 HP)

CONTROL VALVE/FLOW METER

PRESSURE GAUGE AND HOSE END

GALV. STEEL DISCH. HDR.

CHECK VALVE

SUCTION LINE

PLAN VIEW NTS

PUMP PERFORMANCE
80 GPM @ 170 TDI

FILE PWR555.DWG 11/07

HOOPER PUMPING MODEL: HCF-10FD-2303-A-E-12.M.W
 Pompano Beach, Florida, Tel: 954-971-7350

FDOT SR7 COCONUT CREEK PUMP B
 CENTRIFUGAL PUMP SYSTEM DETAIL
 FIBERGLASS ENCLOSED SINGLE WELL SUCTION
 PRESSURE DEMAND

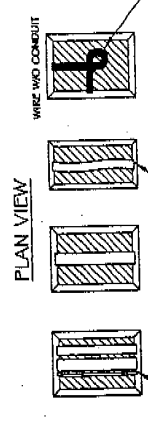
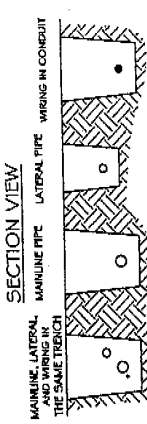
Hoover Pumping Station: Pump B - STA 80+61.32

REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	COUNTY	ROW	PROJECT NO.
7	BROWARD	07	00239

MILLER LEGG		100 North Douglas Road, Suite 200, Broward Park, Florida 33041	
Tel: 954-971-7350		Fax: 954-971-7350	
E-mail: mlegg@mllegg.com		Web: www.mlegg.com	

SHEET NO.		IRRIGATION DETAILS	
LD-56			



TE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER. UNITE AFTER ALL CONNECTIONS HAVE BEEN MADE.

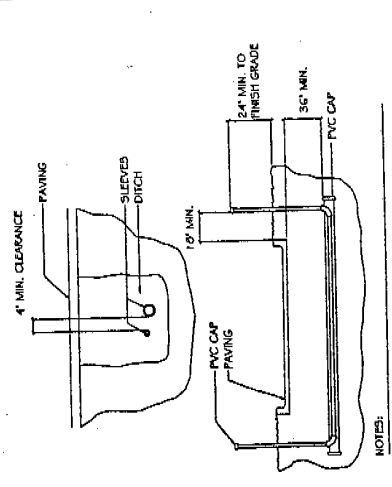
ALL SOLVENT WELD PLASTIC PIPING TO BE SNAGGED IN TRENCH AS SHOWN.

RUN WIRING BENEATH AND BEHIND MAINLINE AT 10-FOOT INTERVALS.

NOTES:

1. SLEEVES BELOW ALL HANDSCAPE ELEMENTS WITH SCH 40 PVC TWICE THE DIAMETER OF THE PIPE TO BE SCHEDULE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

Pipe and Wire Trenching



NOTES:

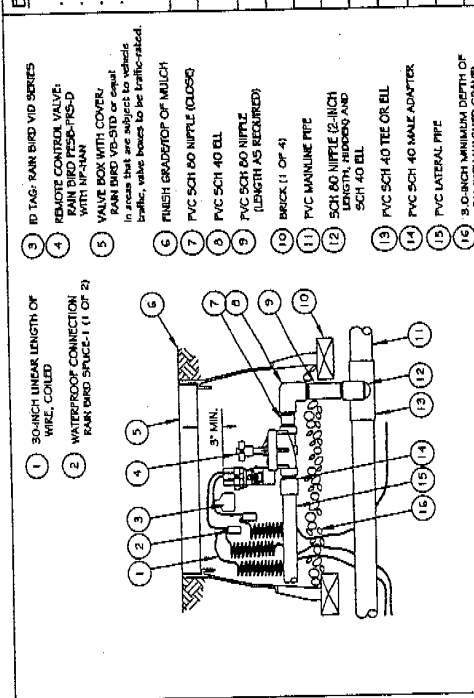
1. ALL PVC IRRIGATION SLEEVING TO BE SCHEDULE 40.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATER-TIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND SMALLER SLEEVE TO 24\"/>
- 4. MECHANICALLY TAMP TO 95% PROCTOR.

Irrigation Sleeving Detail

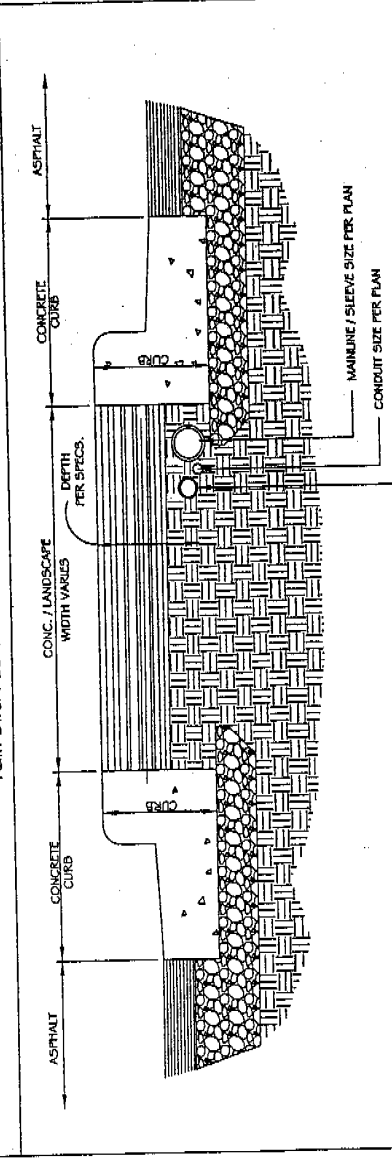
ELECTRICAL SPECIFICATIONS

24 VAC 50/60 Hz (CYCLES/SEC.) SOLENOID INRUSH CURRENT: 0.41 A (9.84 VA) AT 60 Hz HOLDING CURRENT: 0.28 A (6.72 VA) AT 60 Hz COIL RESISTANCE: 30-39 OHMS

PEB SERIES VALVE	100-FEB PSI LOSS	150-FEB PSI LOSS	200-FEB PSI LOSS
5	1.7		
10	1.8		
20	2.9		
30	5.6	3.6	
40		3.5	
50		3.6	
75		5.4	4.5
100			5.2
125			8.2



Rain Bird PEB-PRS-D Remote Control Valve



Curb to Curb Section

REVISIONS

NO.	DESCRIPTION	DATE	BY

DESCRIPTION

DATE

BY

CITY OF COCONUT CREEK

WATER USE PROJECT ID: 07-00219

COUNTY: BROWARD

ROAD NO.: 7

DATE: 6/4/2008

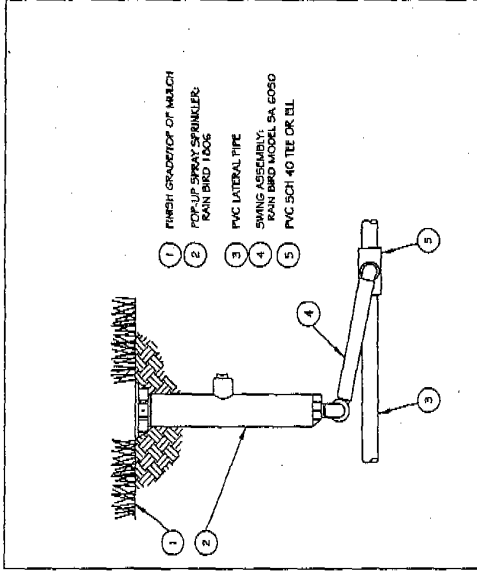
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IRRIGATION DETAILS

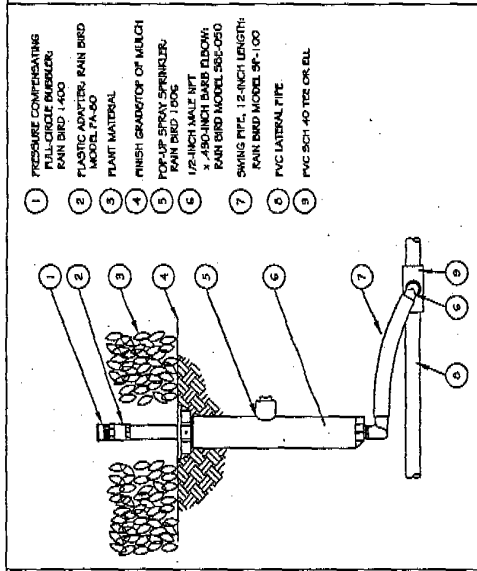
SHEET NO. LD-57

MILLER LEGG

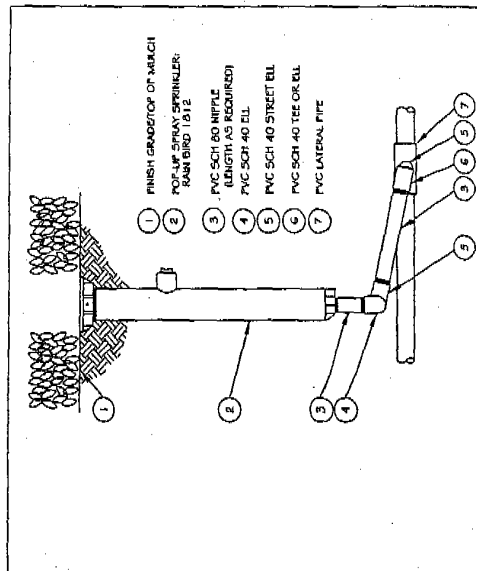
1800 West Douglas Blvd. Suite 200 - Tallahassee, Florida 32304
 904.435.7000 Fax: 904.435.6440 - www.millerlegg.com
 Div. of F.A.M.C. (CORPORATE) - 1111 N. RAYMOND STREET - TAMPA, FL 33604



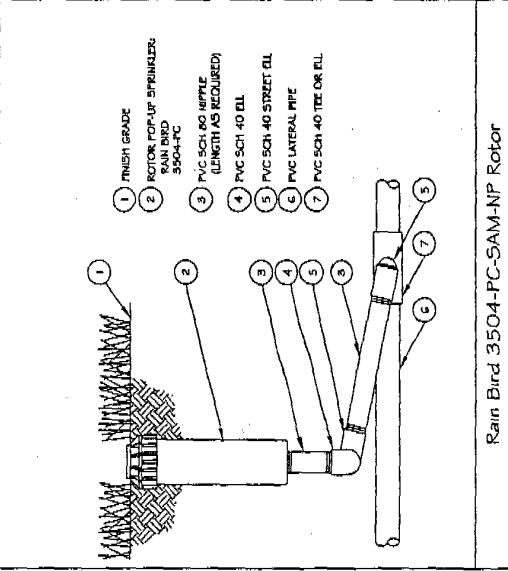
Rain Bird 1806-SAM-PRS-NP Pop-up Spray



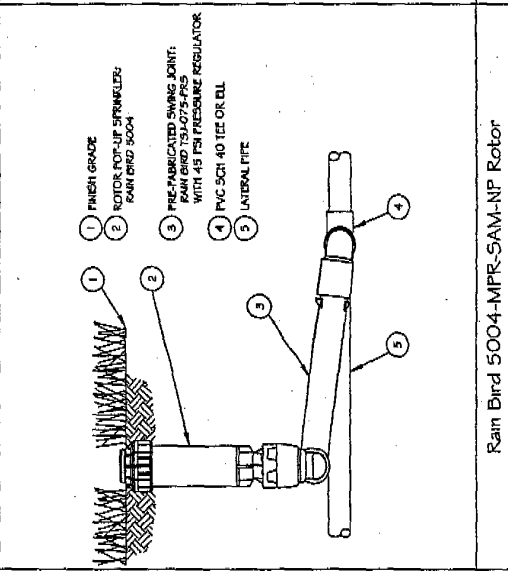
Rain Bird 1806-SAM-PRS-1400 Flood Pop-up Spray



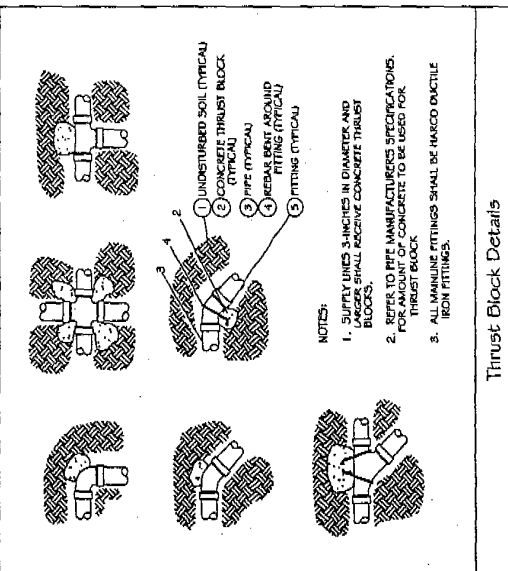
Rain Bird 1812-SAM-PRS-NP Pop-up Spray



Rain Bird 3504-FC-SAM-NP Rotor



Rain Bird 5004-MPR-SAM-NP Rotor



Thrust Block Details

NOTES:
 1. SUPPLY LINES 3-INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
 2. REFER TO PIPE MANUFACTURER'S SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.
 3. ALL MANHOLE FITTINGS SHALL BE HARCO DUCTILE IRON FITTINGS.

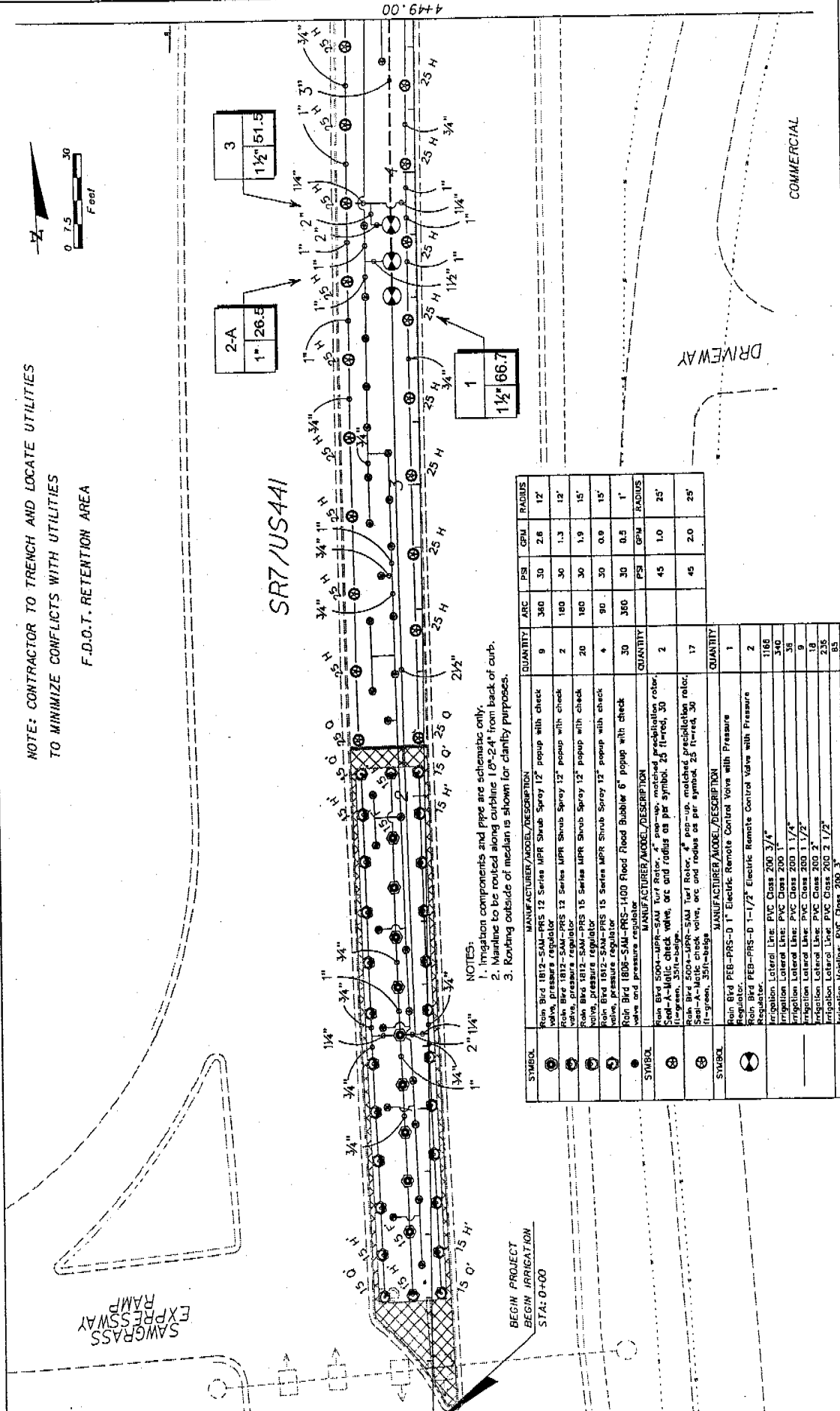
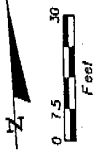
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 1800 West Douglas Ave. • Suite 200 • Anaheim Hills, Calif. 92704
 949-436-7000 • Fax 949-436-8661 • www.millerlegg.com
 Div. of Northborough, L.L. of Orange, Irvine, San Jose, CA 95070

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 PROJECT ID 07-00239

SHEET NO. LD-58

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES
TO MINIMIZE CONFLICTS WITH UTILITIES
F.D.O.T. RETENTION AREA



- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 1'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊙	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	9	360	30	2.6	12'
⊙	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	180	30	1.3	12'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	20	180	30	1.9	15'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	90	30	0.9	15'
⊙	Rain Bird 1808-SAM-PRS-1400 Flood Flood Bubblers 6" popup with check valve and pressure regulator	30	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊙	Rain Bird 5004-MPR-SAM Turf Retor, 2" pop-up, matched precipitation ratio, 5004-1900-SAM Turf Retor, 4" pop-up, matched precipitation ratio, 5004-1900-SAM Turf Retor, 4" pop-up, matched precipitation ratio, Sab-A-Matic check valve, arc and radius as per symbol 25 ft-rad, 30 ft-rad, 35ft-rad	2		45	1.0	25'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊙	Rain Bird PEB-PRS-0 1"-1/2" Electric Remote Control Valve with Pressure Regulator	1		45	2.0	25'
⊙	Regulator, Lateral Line: PVC Class 200 3/4"	1163				
⊙	Irrigation Lateral Line: PVC Class 200 1"	340				
⊙	Irrigation Lateral Line: PVC Class 200 1 1/4"	35				
⊙	Irrigation Lateral Line: PVC Class 200 1 1/2"	9				
⊙	Irrigation Lateral Line: PVC Class 200 2"	18				
⊙	Irrigation Lateral Line: PVC Class 200 2 1/2"	236				
⊙	Irrigation Mainline: PVC Class 200 3"	85				

CITY OF COCONUT CREEK

MILLER LEGG
180 West McDowell, Suite 200, Phoenix, Arizona 85004
Tel: 602.963.1111 Fax: 602.963.1112
City of Scottsdale, 111 of Grand Ave., Scottsdale, AZ 85260

IRRIGATION PLAN

PROJECT NO. 07-00239
COUNTY BROWARD
SHEET NO. L0-59

DATE: 8/2/2008 9:31 AM
SCALE: AS SHOWN

FDOT

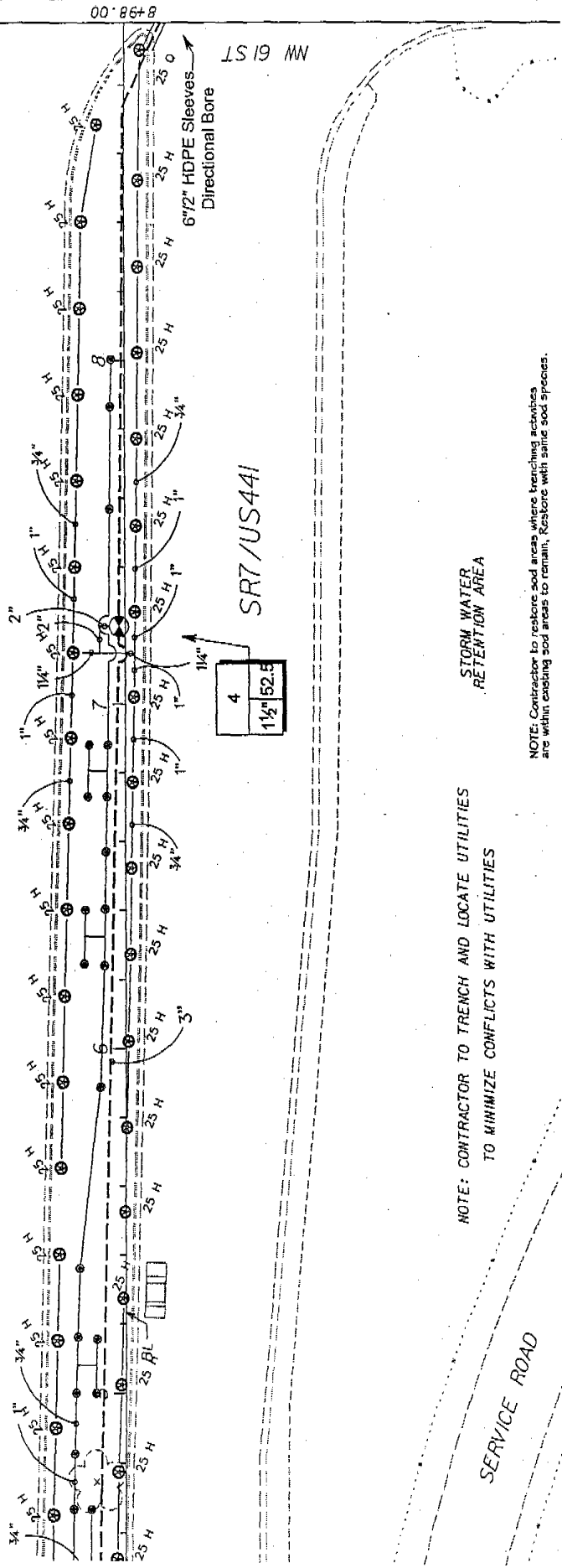
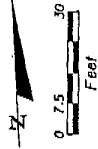
- NOTES:
- 1. Irrigation components and pipe are schematic only.
 - 2. Mainline to be routed along curbline 1'-24" from back of curb.
 - 3. Routing outside of median is shown for clarity purposes.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
●	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubble 6" pop-up with check valve and pressure regulator	23	360	30	0.5	1'
⊙	Rain Bird 500-L-UPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, 1/2" riser, 1/2" valve, arc and radius as per symbol, 25 (total), 30 (irrigation), 35ft-0" dia.	1		45	1.0	25'
⊗	Rain Bird 500-L-UPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol, 25 ft-0" dia, 30 ft-0" dia.	34		45	2.0	25'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
⊕	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator	1
⊖	Irrigation Lateral Line: PVC Oasas 200 3/4"	1089
⊖	Irrigation Lateral Line: PVC Oasas 200 1 1/4"	157
⊖	Irrigation Lateral Line: PVC Oasas 200 1"	24
⊖	Irrigation Lateral Line: PVC Oasas 200 3/2"	451
⊖	6" Storm Water HDPE 15' long pipe sleeves for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeve material. Extend sleeves 18 inches beyond edges of piping or construction.	7

RESIDENTIAL

R/W



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

STORM WATER RETENTION AREA

NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

REV.	DATE	BY	DESCRIPTION

MILLER LEGG
 1800 North Douglas Road - Suite 200 - Anaheim Hills, CA, 92808
 714-946-3001 - Fax 714-946-0681 - www.millerlegg.com
 Co. # 92610400001 - Lic. # 92610400001 - 9/26/2018

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 07-00239

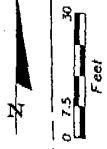
IRRIGATION PLAN
 SHEET NO. LD-60
 6/1/2008 3:12:25 AM
 C:\projects\2007-07-02\18-1-Creek_Irrigation_Plan\DWG\Irrigation_Plan.dwg
 6/1/2008

NOTES:

1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along centerline 1'3"-2'4" from back of curb.
3. Routing outside of median is shown for clarity purposes.

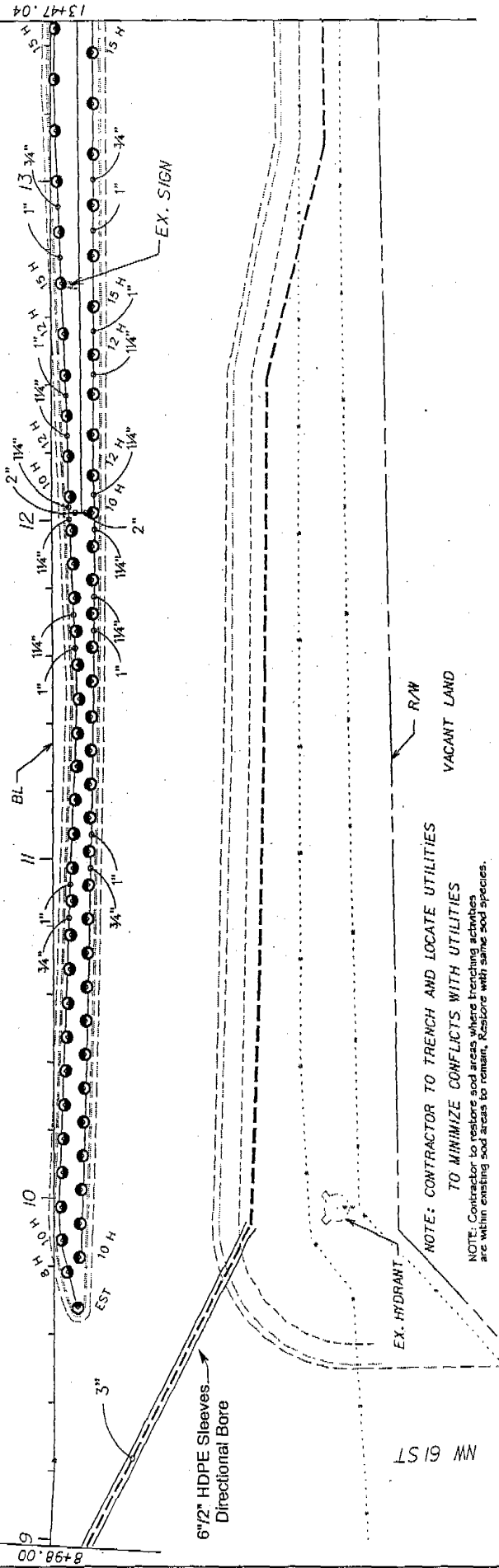
RESIDENTIAL

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC EST	PS	GRW	RADIUS
1	Peak Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	180	30	0.8	4'x15'
2	Peak Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	46	180	30	0.8	10'
3	Peak Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	8	180	30	1.3	12'
4	Peak Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	12	180	30	1.9	15'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
5	Irrigation Lateral Line: PVC Class 200 3/4"	335				
6	Irrigation Lateral Line: PVC Class 200 1"	248				
7	Irrigation Lateral Line: PVC Class 200 1 1/4"	140				
8	Irrigation Lateral Line: PVC Class 200 2"	9				
9	Irrigation Lateral Line: PVC Class 200 3"	144				
10	Irrigation Manifold: PVC Class 200 3" for irrigation pipe. Pipe sleeve size each side for irrigation piping and their related couplings to easily slide through receiving material. Extend sleeves 18 inches beyond edges of paving or construction.	484				
11		92				



R/W

SR7/US441



6 1/2" HDPE Sleeves Directional Bore

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

EX. HYDRANT

R/W

VACANT LAND

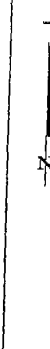
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 188 Rockledge Blvd. Suite 300, Rockledge, Florida 32955
 407-485-2000 Fax: 407-485-1461 www.millerlegg.com
 Div. of L&E: LHM000101 L.A. of Powell, Inc. 8, Suite 114-66870

CITY OF COCONUT CREEK
 ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239

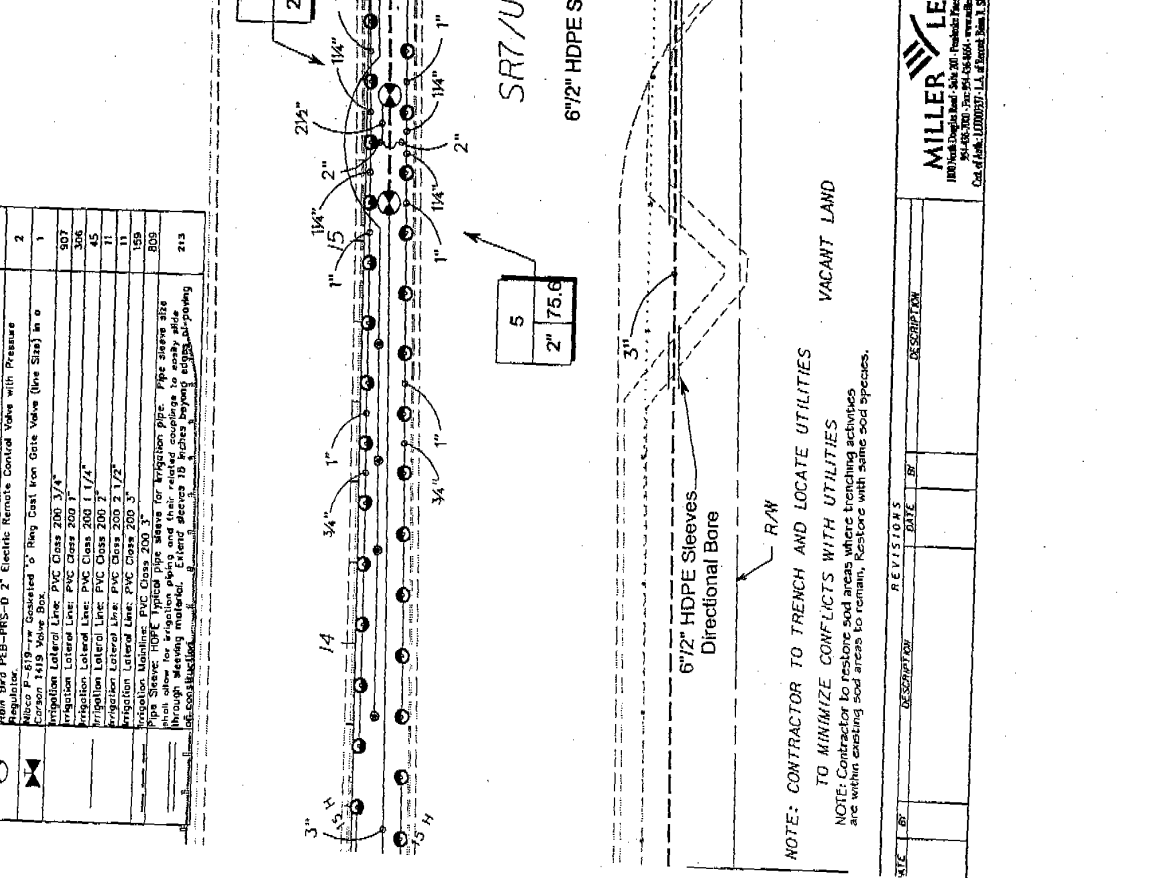
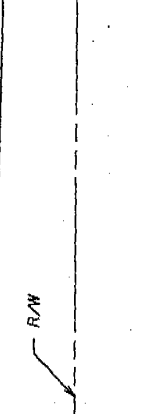
IRRIGATION PLAN
 SHEET NO. LD-61
 6/4/2008 3:31:32 AM

RESIDENTIAL



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	OPM	RADIUS
⊙	Rain Bird 1806-SAM-PRS 15 Soletrol MPR Turf Spray 8" Popout with Check Valve and Pressure Regulator	60	180	30	1.8	15'
⊙	Rain Bird 1806-SAM-PRS 15 Soletrol MPR Turf Spray 8" Popout with Check Valve and Pressure Regulator	14	360	30	0.5	1'
⊙	Rain Bird PEB-PRS-D 2" Electric Remote Control Valve with Pressure Regulator	1				
⊙	Waco P-619-1111 Gaswelder 2" Reg. Cont. (see Note 1) in a	2				
	Irriigation Lateral Line: PVC Class 200 3/4"	907				
	Irriigation Lateral Line: PVC Class 200 1 1/4"	306				
	Irriigation Lateral Line: PVC Class 200 2"	45				
	Irriigation Lateral Line: PVC Class 200 3 1/2"	11				
	Irriigation Lateral Line: PVC Class 200 3"	159				
	Pipe Sleeve: HDPE Typical Pipe Sleeve for Irrigation Pipe. Pipe sleeves are for use for irrigation piping and their selected compadre to easily slide them along for installation. Eternity sleeves 18 inches beyond edges of existing pipe construction.	809				
		213				

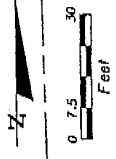
NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curblines 16"-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.



NO.	DESCRIPTION	DATE	BY
5			
6			

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES
 NOTE: Contractor to restore sod areas where trenching activities and within existing sod areas to remain. Restore with same sod species.

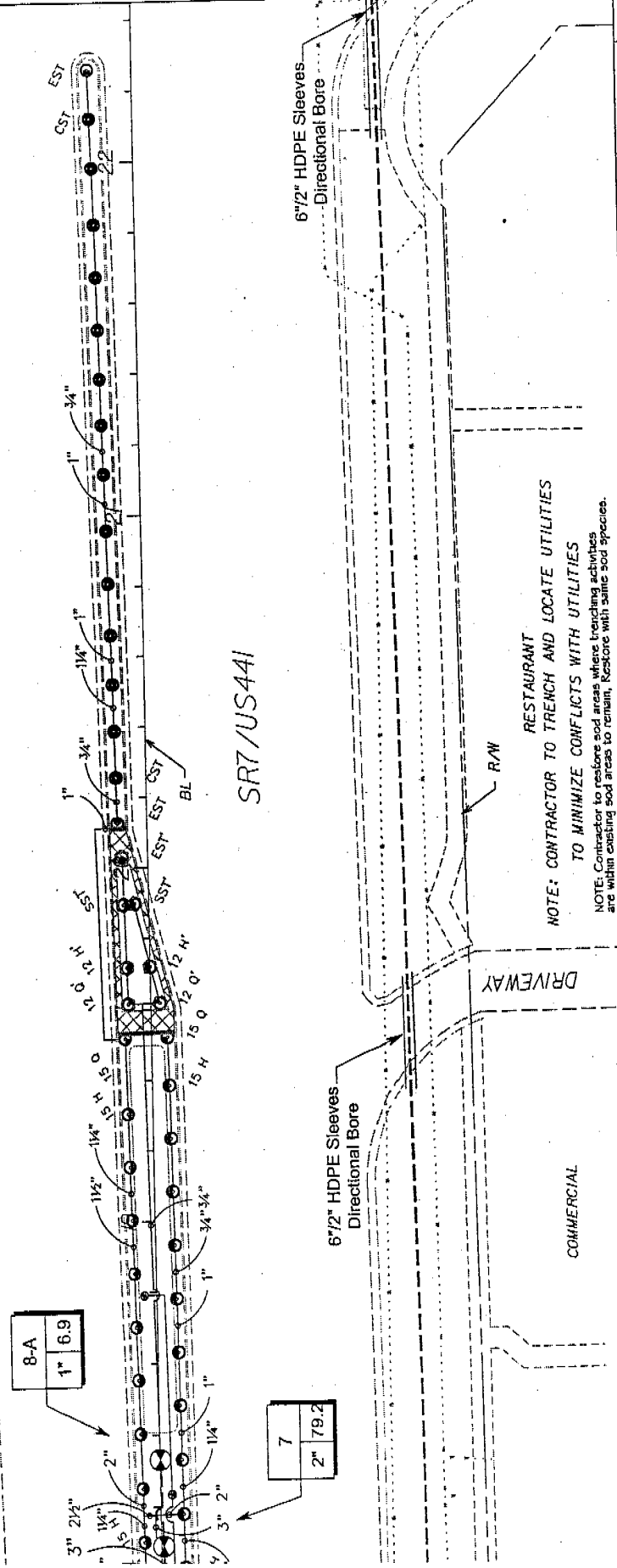
CITY OF COCONUTO CREEK			SHEET NO.
PROJECT NO.	WILLER LEGG PROJECT ID	ROW NO.	LD-62
7	07-00279	BROWARD	
MILLER LEGG 180 West Douglas Blvd. - Suite 201 - Fort Lauderdale, FL 33304 954-405-1800 - Fax: 954-405-6666 - www.millerlegg.com Cdr. G. Mike (202)929-1144 - E-Email: Mike J. Street (1) 40878			
DATE	DESCRIPTION	DATE	BY



RESIDENTIAL

- NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbside 18'-2.4" from back of curb.
 3. Routing outside of median is shown for clarity purposes.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
①	Rain Bird 1808-SAM-1500S 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	13	CST	30	1.2	4'-30"	⊗	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
②	Rain Bird 1808-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	EST	30	0.8	4'-15"		Rain Bird PEB-PRS-D 2" Electric Remote Control Valve with Pressure Regulator.	1
③	Rain Bird 1808-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	19	180	30	1.9	15'		Irrigation Lateral Line: PVC Class 200 3/4"	560
④	Rain Bird 1808-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.9	15'		Irrigation Lateral Line: PVC Class 200 1"	185
⑤	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator.	1	EST	30	0.6	4'-15"		Irrigation Lateral Line: PVC Class 200 1 1/2"	7
⑥	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator.	2	SS1	30	1.2	4'-30"		Irrigation Lateral Line: PVC Class 200 2"	13
⑦	Rain Bird 1812-SAM-PRS 12 Series Turf Spray 12" popup with check valve, pressure regulator.	2	180	30	1.3	12'		Irrigation Mainline: PVC Class 200 3"	8
⑧	Rain Bird 1812-SAM-PRS 12 Series Turf Spray 12" popup with check valve, pressure regulator.	2	90	30	0.7	12'		6" HDPE typical pipe sleeves for fittings. This pipe sleeve also shall allow for irrigation pipe to be installed into existing riser pipe without the need for a separate riser pipe. Elevation markers 18 inches beyond right of paving or construction.	483
⑨	Rain Bird 1808-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator.	2	360	30	0.5	1'			65



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES
 NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

SHEET NO. LD-63

IRRIGATION PLAN

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 07-00239

MILLER LEGG
 1800 North Douglas Road, Suite 201, North Fort Lauderdale, FL 33041
 P: 954-435-1100
 Fax: 954-435-1101
 E: sales@mllegg.com
 Lic. No. CS-12000837, Lic. No. EC-12000837

NO.	DESCRIPTION	DATE	BY

6/1/2008 9:27:03 AM 22+45.00

RESIDENTIAL

R/W

22+45.00

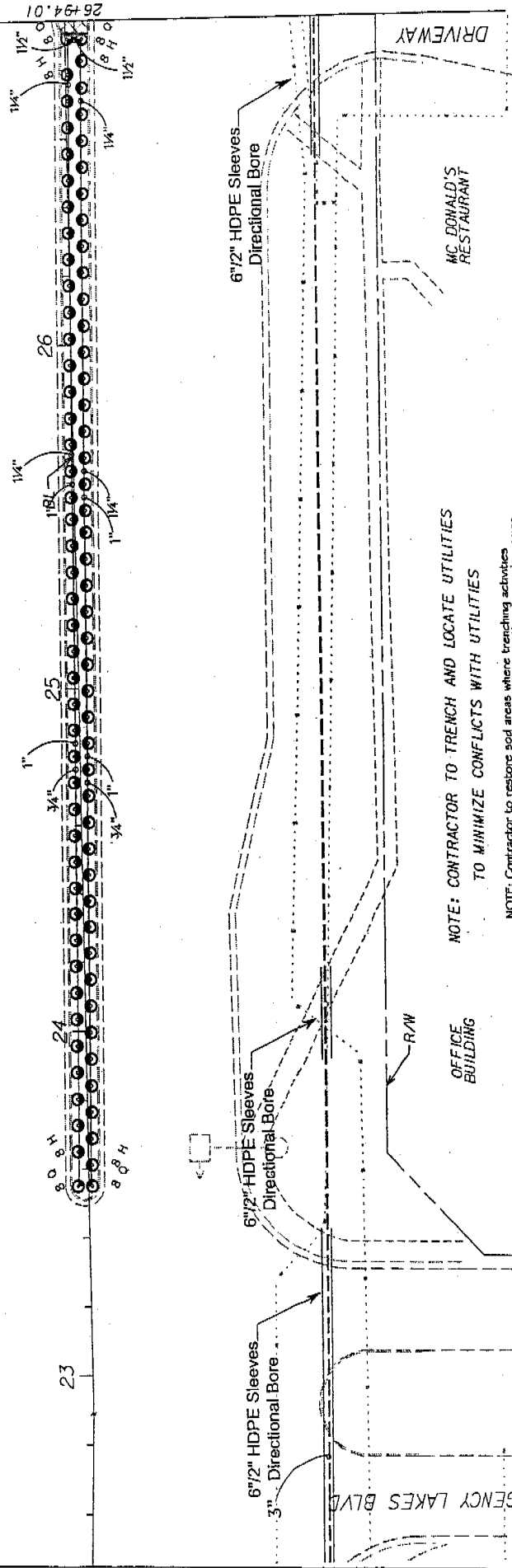
NOTES:

- 1. Irrigation components and pipe are schematic only.
- 2. Mainline to be routed along curbline 10'-2.24' from back of curb.
- 3. Routing outside of median is shown for clarity purposes.

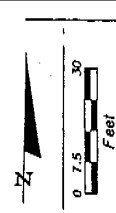
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊙	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	60	180	30	0.5	8'
⊙	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	4	90	30	0.3	8'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
—	Irrigation Lateral Line: PVC Class 200 3/4"	310				
—	Irrigation Lateral Line: PVC Class 200 1"	34				
—	Irrigation Lateral Line: PVC Class 200 1 1/4"	5				
—	Irrigation Lateral Line: PVC Class 200 1 1/2"	449				
—	6" HDPE Sleeve: HDPE typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through steering material. Extend sleeves 18 inches beyond edge of paving for construction.	126				

SR7/US441

EX. SIGNS (3)

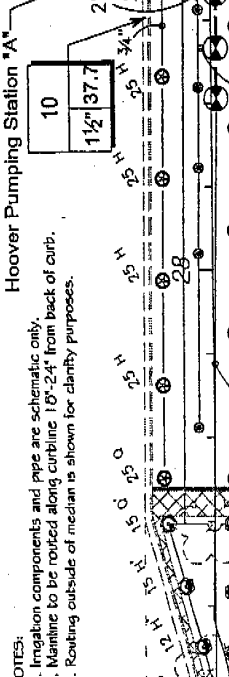
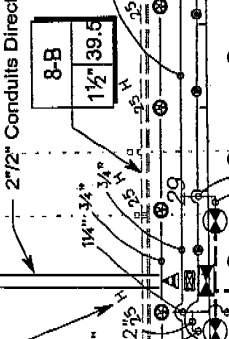
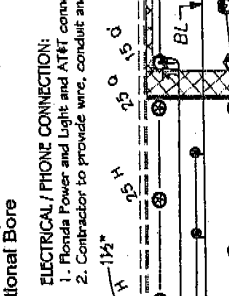


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
 MILLER LEGG 10000 Highway 200, Jacksonville, Florida 32218 Phone: 904.241.4444 Fax: 904.241.4444 Dept. of Public Works, 1345 W. Beach Blvd., Suite 1400, Jacksonville, FL 32218			CITY OF COCONUT CREEK ROAD NO. 7 COURT BROWARD PROJECT ID 07-00239			
			IRRIGATION PLAN SHEET NO. LD-64			



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
⊙	Rain Bird PEB-PRS-0 1" Electric Remote Control Valve with Pressure Regulator.	1
⊙	Rain Bird PEB-PRS-0 1-1/2" Electric Remote Control Valve with Pressure Regulator.	3
⊙	Nilco P-619-rw Gasketed "O" Ring Cast Iron Gate Valve (line size) in a Chosen 1419 Valve Box.	2
⊙	Hoover Pumping Station Model: HCF-10P0-250/3-A-E-18AW	1
⊙	Rain Bird ESP-16SAT Satellite Controller - 16 Stations	1
⊙	Rain Bird Mainstem Rain Gauge	1
⊙	Irrigation Lateral Line: PVC Class 200 3/4"	1856
⊙	Irrigation Lateral Line: PVC Class 200 1"	12
⊙	Irrigation Lateral Line: PVC Class 200 1 1/4"	198
⊙	Irrigation Lateral Line: PVC Class 200 1 1/2"	145
⊙	Irrigation Lateral Line: PVC Class 200 2"	576
⊙	Irrigation Mainline: PVC Class 200 3"	1
⊙	Pipe sleeves for irrigation pipe. Pipe sleeve size shall determine pipe sleeve size and their raised couplings to easily slide through steering material. Extend sleeves 18 inches beyond edges of piping for construction.	110

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GM	RADIUS
⊙	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	5	180	30	0.5	8'
⊙	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	1	90	30	0.3	8'
⊙	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	3	180	30	0.8	10'
⊙	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	7	180	30	1.3	12'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	10	180	30	1.9	15'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	90	30	0.9	15'
⊙	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	10	360	30	0.5	1'
⊙	Rain Bird 5004-MPR-SAM Turf Rotor 3" pop-up, matched precipitation rotor, it-green, 3511-brige	4	45	1.0	25'	
⊙	Rain Bird 5001-MPR-SAM Turf Rotor, 3" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol, 25 ft-rad, 30 ft-green, 3511-brige	17	45	2.0	25'	



NOTES:

- Irrigation components and pipe are schematic only.
- Mainline to be routed along curbline 18'-24" from back of curb.
- Routing outside of median is shown for clarity purposes.

NOTE: CONTRACTOR TO RESTORE SOD AREAS WHERE TRENCHING ACTIVITIES ARE WITHIN EXISTING SOD AREAS TO REMAIN. RESTORE WITH SAME SOD SPECIES.

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

ELECTRICAL / PHONE CONNECTION:

- Florida Power and Light and AT&T connection location to be determined.
- Contractor to provide wire, conduit and hand hole box to source.

SR7/US441
 6" 1/2" HDPE Sleeves Directional Bore
 6" 1/2" HDPE Sleeves Directional Bore
 Nibco P-619-RW 3" Gate Valve
 BANK EX-HYDRANT
 DRIVEWAY
 BANK

REVISIONS	DESCRIPTION	DATE	BY

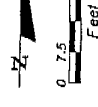
MILLER LEGG
 1800 South Douglas Road - Suite 200 - Tallahassee, Florida 32304
 904-435-1000 Fax 904-435-0166 www.millerlegg.com
 Div. of Miller Construction, L.L.C. 3500 South E. Street, Suite 13-0607D

CITY OF COCONUT CREEK
 ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239

IRRIGATION PLAN

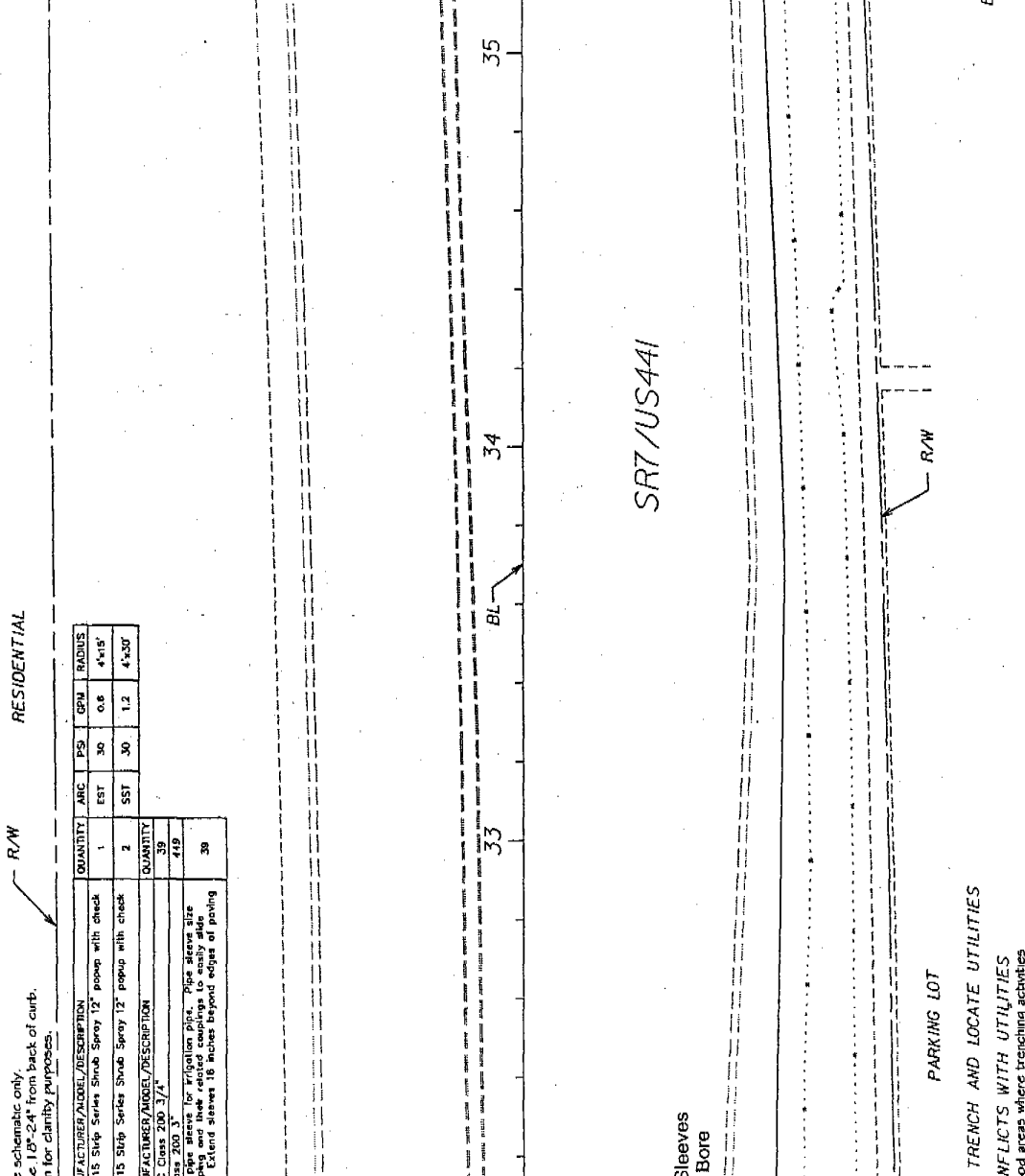
SHEET NO. LD-65

- NOTES:**
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curblines, 18"-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.



RESIDENTIAL

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC EST	ARC SST	PS	GPM	RADIUS
⊙	Rain Bird 1812-SAM-PRS 15 Slip Series Show Spray 12" popup with check valve, pressure regulator	1			30	0.6	4'-11"
⊙	Rain Bird 1812-SAM-PRS 15 Slip Series Show Spray 12" popup with check valve, pressure regulator	2			30	1.2	4'-30"
	Irrigation Lateral Line: PVC Class 200 3/4"	39					
	Irrigation Mainline: PVC Class 200 3"	419					
	6 1/2" HDPE Sleeves Directional Bore Sleeve used for installation thru existing sidewalk and backfilled concrete to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving for construction.	38					



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES
NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain, Restore with same sod species.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

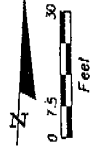
MILLER LEGG
180 North Douglas Road - Suite 200 - Richardson, Texas - 75084
714-418-0088; Fax: 714-418-6666; Email: mlegg@mllegg.com
City of Home Counties - City of Home Counties - City of Home Counties

CITY OF COCONUT CREEK	
ROAD NO.	7
COUNTY	BROWARD
MILLER LEGG PROJECT ID	07-00239

SHEET NO.
LD-66

DATE: 5/4/2008 9:17:59 AM

55+92.00



RESIDENTIAL

- NOTES:
- Irrigation components and pipe are schematic only.
 - Machine to be routed along carbline 18"-24" from back of curb.
 - Routing outside of median is shown for clarity purposes.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GRM	EMERUS
⊙	Rain Bird 1808-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and 1808-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	21	180	30	1.8	15'
⊙	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator.	4	90	30	0.9	15'
⊙	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator.	2	90	30	0.4	10'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator.	7	180	30	1.3	12'
⊙	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator.	9	180	30	1.8	15'

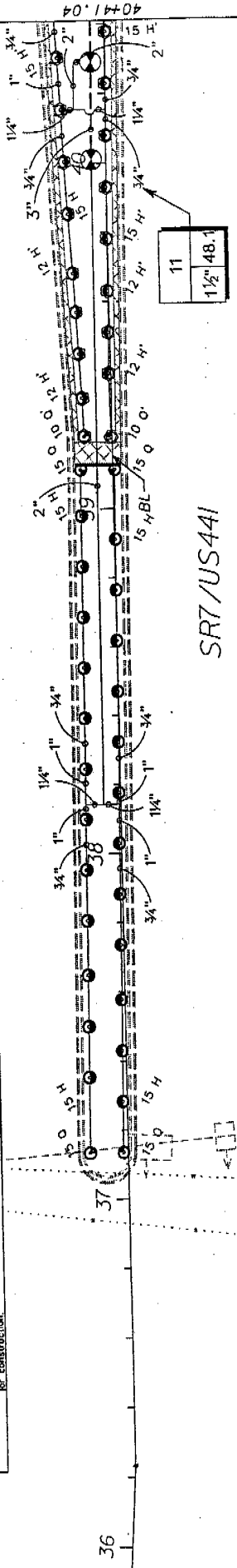
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
⊙	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2
⊙	Irrigation Lateral Line, PVC Class 200 3/4"	576
⊙	Irrigation Lateral Line, PVC Class 200 1"	14
⊙	Irrigation Lateral Line, PVC Class 200 1 1/4"	27
⊙	Irrigation Lateral Line, PVC Class 200 2"	195
⊙	Irrigation Lateral Line, PVC Class 200 3"	485
⊙	Irrigation Mainline, HDPE typical pipe above for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeve material. Extend sleeves 18 inches beyond edges of piping for construction.	131

HOLMBERG RD

R/W

12-A	1 1/2" 42.1
------	-------------

11	1 1/2" 48.1
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6 1/2" HDPE Sleeves Directional Bore

6 1/2" HDPE Sleeves Directional Bore

6 1/2" HDPE Sleeves Directional Bore

DRIVEWAY

COMMERCIAL

EX. HYDRANT

NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

RETAIL

DATE	BY	DESCRIPTION

MILLER LEGG
 1800 South Douglas Blvd., Suite 200, Peabody, Florida 32909
 904-693-3000 • Fax: 904-693-6644 • www.millerlegg.com
 Date of Issue: 11/03/2007 • L.A. # 02464 • Sheet 13 of 026770

CITY OF COCONUT CREEK	
ROAD NO.	7
COUNTY	BROWARD
WILEY LEGG PROJECT ID	07-00239

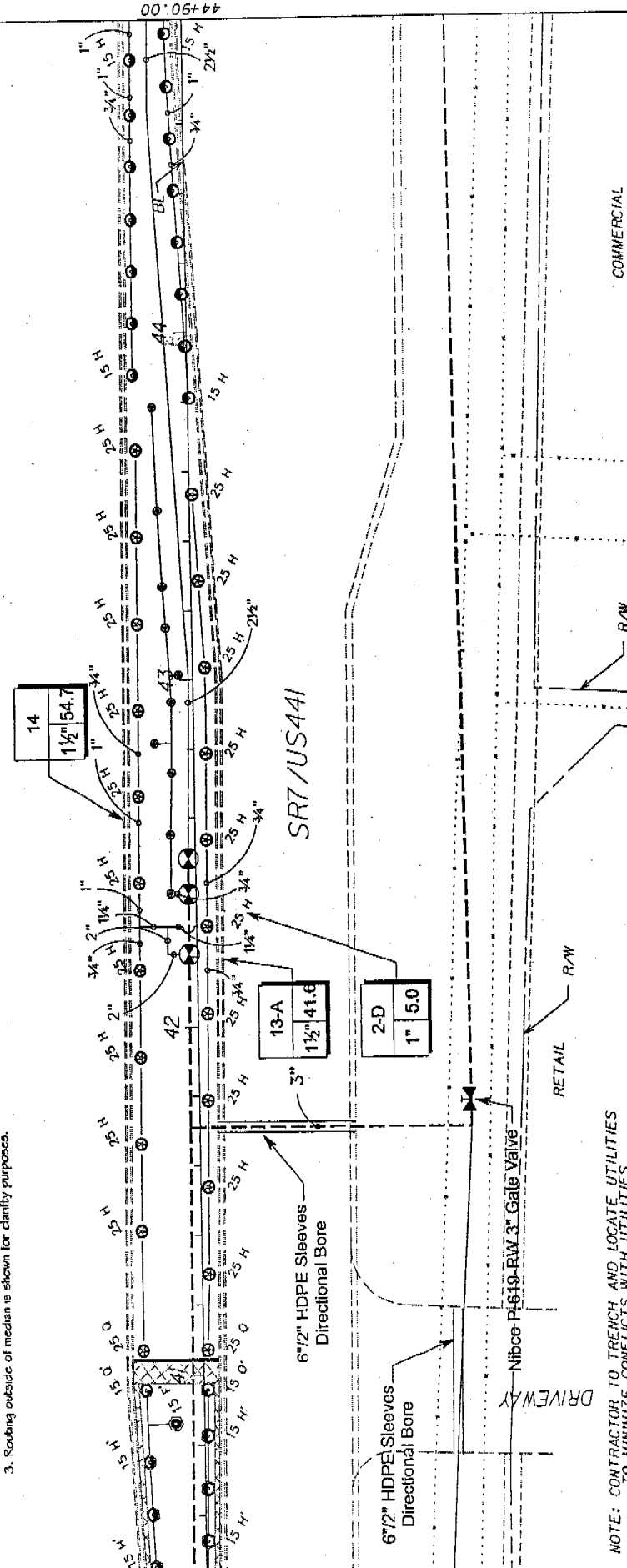
SHEET NO. L0-67

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PS	OPN	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
⊙	Rob Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator	15	180	30	1.8	15'	⊙	Rob Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator	1
⊙	Rob Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" pop-up with check valve and pressure regulator	1	360	30	2.6	12'	⊙	Rob Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator	2
⊙	Rob Bird 1813-SAM-PRS 13 Series MPR Shrub Spray 12" pop-up with check valve, pressure regulator	6	180	30	1.9	15'	⊙	Nibco P-619-rs Gasketed "O" Ring Cast Iron Gate Valve (line size) in a Curson 1419 Valve Box	1
⊙	Rob Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" pop-up with check valve, pressure regulator	2	90	30	0.9	15'	⊙	Irrigation Lateral Line: PVC Class 200 3/4"	787
⊙	Rob Bird 1806-SAM-PRS 1400 Flood Flood Bubbler 6" pop-up with check valve and pressure regulator	10	360	30	0.5	1'	⊙	Irrigation Lateral Line: PVC Class 200 1"	25
⊙	Rob Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, H-green, 35ft-bubble	2	45	1.0	25'	⊙	Irrigation Lateral Line: PVC Class 200 1 1/2"	249	
⊙	Rob Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, H-green, 35ft-bubble	20	45	2.0	25'	⊙	Irrigation Lateral Line: PVC Class 200 2 1/2"	258	
⊙	Rob Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, H-green, 35ft-bubble	20	45	2.0	25'	⊙	Pipe Sleeves: 6" HDPE sleeves for irrigation pipe. Pipe sleeve size through sleeve for irrigation piping and their related couplings to easily slide through sleeve material. Extend sleeves 18 inches beyond edges of piping or construction.	83	

- NOTES:
- Irrigation components and pipes are schematic only.
 - Mainline to be routed along curbside 18'-24" from back of curb.
 - Routing outside of median is shown for clarity purposes.



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES

NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

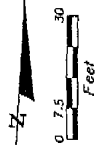
REVISION	DATE	BY	DESCRIPTION

MILLER LEGG
 1800 North Douglas Road, Suite 200, Peabody, MA 01960
 978-435-2000 Fax: 978-435-8860 www.mlegg.com
 Cot. of Mass. 11000037-1, L.A. of Essex 1384, 308E, LA 16667D

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 PROJECT ID 07-00239

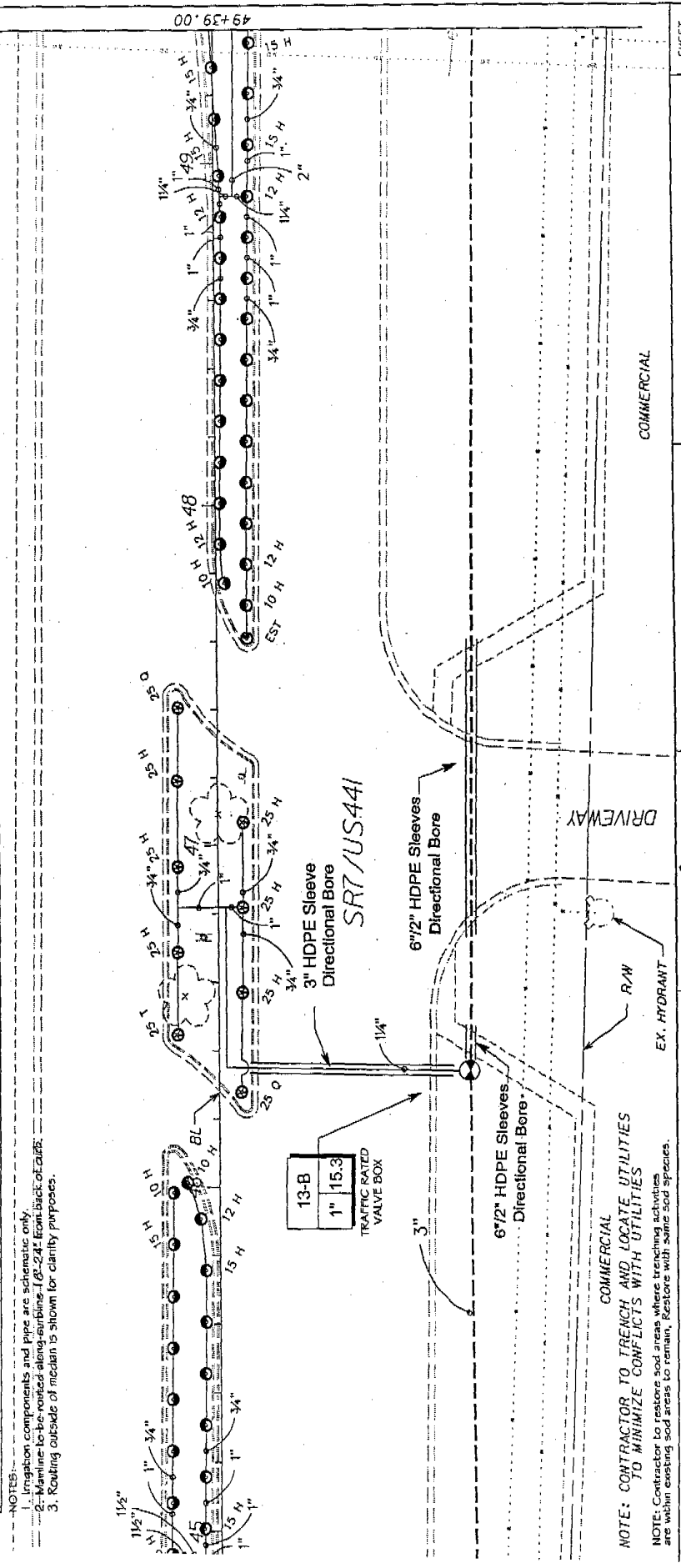
IRRIGATION PLAN
 SHEET NO. L0-68

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RAIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
1	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop-up with check valve and pressure regulator.	1	EST	30	0.6	4'-11"	1	Rain Bird FEB-PRS-0 1" Electric Remote Control Valve with Pressure Regulator.	1
2	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	4	180	30	0.8	10'	2	1" PVC Class 200 3/4" Regulator.	619
3	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	20	180	30	1.3	12'	3	1" PVC Class 200 1 1/4" Regulator.	144
4	Rain Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, 11'-green, 351'-bauge.	19	180	30	1.5	15'	4	1" PVC Class 200 2 1/2" Regulator.	164
5	Rain Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, 11'-green, 351'-bauge.	2	45	1.0	25'	6	1" PVC Class 200 2 1/2" Regulator.	419	
6	Rain Bird 5004-MPR-SAM Turf Rotator, 4" pop-up, matched precipitation rotor, 11'-green, 351'-bauge.	1	45	1.4	25'	7	1" PVC Class 200 2 1/2" Regulator.	181	

NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be vented along subline. 16'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.



NOTE: CONTRACTOR TO TRENCH AND LOCATE UTILITIES TO MINIMIZE CONFLICTS WITH UTILITIES
 NOTE: Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same sod species.

DATE	REVISIONS	DESCRIPTION

EX. HYDRANT

COMMERCIAL

DRIVEWAY

COMMERCIAL

CITY OF COCONTO CREEK

PROJECT ID: UTILEX LEGG PROJECT ID

COURT: BROWARD

OT: -00239

ROAD NO: 7

SHEET NO. LD-69

MILLER LEGG

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 Div. of Am. LANDSCAPE, L.L.C. of Fort Lauderdale, FL 33309

Drop offs:

OBJECT SPECIFIC GENERAL NOTES:
 Traffic controls shall be in accordance with the project plans, the current edition of the Florida Department of Transportation (FDOT) Design Standards (600 series), the Standard Specification for Road and Bridge Construction, and current Manual on Uniform Traffic Control Devices as minimum criteria.

Notification of lane closures shall be accompanied 14 working days prior to closure submitting the required lane closure plan, sketches, calculations, and other data through the Engineer to the District Traffic Operations Office.

Traffic disruptions which are not shown by the traffic control plan, but which are necessary to construct the project shall be submitted in writing to the Engineer 14 days prior to the commencement of work. Submittal material shall include sketches, calculations and other data required by the Engineer.

The traffic and travel ways shall not be altered by the Contractor to create a work zone until all labor and material are available for the construction in that area.

Lane closings shall occur only during non-peak hours. Peak hours are from: 7:00-9:00am and 4:00-6:00pm.

The regulatory speed shall be 55 mph.

As approved by the Engineer, the Contractor shall cover work zone signs when conditions no longer warrant their use. Cost of covering and uncovering the signs shall be included in maintenance of traffic.

Contractor shall remove, relocate or cover any existing or proposed signs that conflict with the traffic control plans. When the conflict no longer exists, the contractor shall restore the signs to their original position. Cost of temporarily moving, relocating, covering and restoring the signs shall be included in maintenance of traffic.

Uniformed, off-duty law enforcement officers can be used only as approved by the Engineer and use is limited to construction operations for setting and removing traffic control devices, night work, moving operations, or other situations specifically authorized by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic.

0. All existing signage shall be maintained in an appropriate location for the duration of the project.

1. The contractor shall maintain a minimum of one lane of traffic at all times for minor side streets. During one lane operation a flag man shall be used. If operation exceeds one work period, contractor shall cover excavation and return two lay traffic at the end of each work period.

2. If temporary lane closure causes extended congestion, the contractor shall, at the direction of the Engineer, reopen the closed lane(s) at no additional cost until such time the traffic flow has returned to an acceptable level.

3. Provisions for traffic control plan which are not anticipated in the traffic control plans, but are necessary for project construction shall be submitted to the engineer at least 72 hours prior to using such provisions.

14. A certified maintenance of traffic supervisors shall be available to the project at all times when the contractor is working and shall be on call for emergencies when the Contractor is not working. All work shall cease when MOT Supervisor is not present.

15. Access shall be provided to all places of business and residences whenever construction interferes with the existing means of access. Adequate accommodations for intersecting and crossing traffic shall be provided and maintained by the contractor. No road or street crossings within the project shall be blocked or unduly restricted as determined by the engineer.

16. Contractor shall be responsible for the immediate removal of storm water from roadways utilized for maintaining traffic in a manner approved by the Engineer. Cost for removing the water shall be included in maintenance of traffic.

17. Arrows provided on details denote direction of traffic only and do not reflect pavement markings unless specifically noted.

Markings:

1. The contractor shall maintain all existing pavement markings during construction. If necessary, Contractor shall submit to the Engineer any modifications or temporary markings to the existing pavement markings during construction. Cost of removal of temporary pavement markings, regardless of method, is included in the related pavement marking maintenance of traffic. Use of black paint to cover existing and/or temporary pavement markings is prohibited.

1. For drop offs, the contractor's attention is directed to Idot standard index no. 600, sheet 6 of 10.

Signals:

The contractor shall have full responsibility for the normal maintenance of existing traffic signal(s) within the project limits. All signals shall remain in full operation unless deemed necessary for construction activities. The contractor shall notify Broward County Traffic Engineering Division (BCTED) (Telephone number (954) 847-2600) a minimum of 10 working days prior to any modification and/or changes of an existing traffic signal (i.e. Taking signals off-line, removing or replacing loop assemblies or rearranging traffic signal heads). The contractor shall install the temporary signalization system and have the system in operation before taking the existing system out of service. Portable temporary units shall not be used. The temporary signal system shall be adjusted to the traffic needs of each construction phase. Signal heads are to be located with respect to approach lanes. Cost of adjusting temporary signal for the required top phases shall be included in maintenance of traffic.

2. The contractor shall utilize the existing signal equipment or provide all necessary signalization components and appurtenances, including but not limited to: poles, temporary electric service connections, temporary conduits and wires, relocation of existing controllers or temporary controllers, and necessary signal timing coordination with Broward County Traffic. The contractor shall provide maintenance of the temporary signal system until the permanent system is installed and functional. Cost to be included in maintenance of traffic.

Pedestrian, bicycles & wheelchairs:

1. The contractor shall maintain pedestrian, bicycle, and wheel chair traffic on at least one side of the roadway at all times during construction. This shall be done in accordance to index 660 101

2. At the end of each work day or whenever the work zone becomes inactive, any drop-off adjacent to pedestrian travel paths shall be backfilled flush with the travel path or shall be protected with barricades, temporary barrier wall or approved handrail.

3. Pedestrian, bicycles, and wheelchair traffic shall be guided and maintained using approved warning lights, signing, markings, and channelized devices. Such control devices shall be installed and maintained in accordance with Idot standards and the current muted. All ada requirements must be maintained.

4. The contractor shall maintain access and signs for existing bus stop locations within the project limits. If existing bus stops need to be relocated, provisions to accommodate bus stops must be coordinated with the Broward County Mass Transit Agency, telephone number (954) 357-9400.

5. The maintenance of traffic shall include provisions for school pedestrian traffic with the following minimum requirements: The safe walk route for all schools within the vicinity of the construction zone shall be maintained during the times students are arriving at or leaving school. All construction equipment around any designated crosswalk shall cease to operate during the times students are arriving at or leaving school. All construction equipment adjacent to a designated walk route shall cease operating unless satisfactorily barricaded from the walk route. In the case that a designated crossing or any portion of the designated walk route cannot be maintained, then the contractor shall notify the school safety coordinator at broward county traffic engineering division, (954) 847-2600, a minimum of ten (10) working days prior to closing that route so that an alternate crossing/route can be established. Thirty (30) days prior to the beginning of construction the contractor shall notify the school safety coordinator at broward county traffic division, (954) 847-2600, to arrange a pre-construction school safety meeting.

Landscape plan specific notes:

1. SR-7 Southbound and Sawgrass Expressway Westbound Ramp Signal Operation
 a. Contractor to cover signal heads or make signal head revisions where impacted as required due to maintenance of traffic per FDOT standard index 600 and Idot traffic operations office.

2. INTERSECTIONS: Sawgrass Expressway Westbound Ramp: N.W. 61st Street; Regency Lakes Blvd.; Johnson Rd./Holmberg Rd.; Hillboro Blvd.; Loxahatchee Rd.;

a. FDOT standard index 616 must be implemented when median work near intersection condition exists.
 b. Traffic control at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely.

3. INTERSECTION: Johnson Rd./Holmberg Rd.

a. Maintenance of traffic shall include provisions for pedestrians and / or school traffic as well as vehicular traffic. Contractor to comply with all school safety requirements as outlined in the BCTED Maintenance of traffic school / pedestrian criteria.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

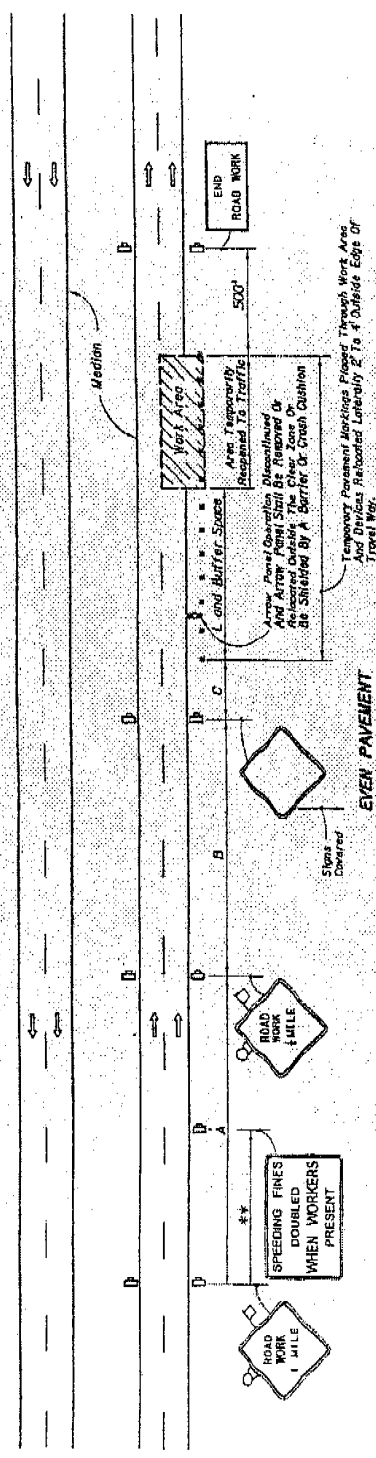
MILLER LEGG
 100 North Douglas Road, Suite 300, Pompano Beach, FL 33064
 954-001-1001 Fax: 954-001-6560 www.millerlegg.com
 Cert. of Lic. #B0001012, Engineer of Record State of Florida License #153802

CITY OF COCONUT CREEK		PROJECT ID	07-00239
ROAD NO.	7	COUNTY	BROWARD

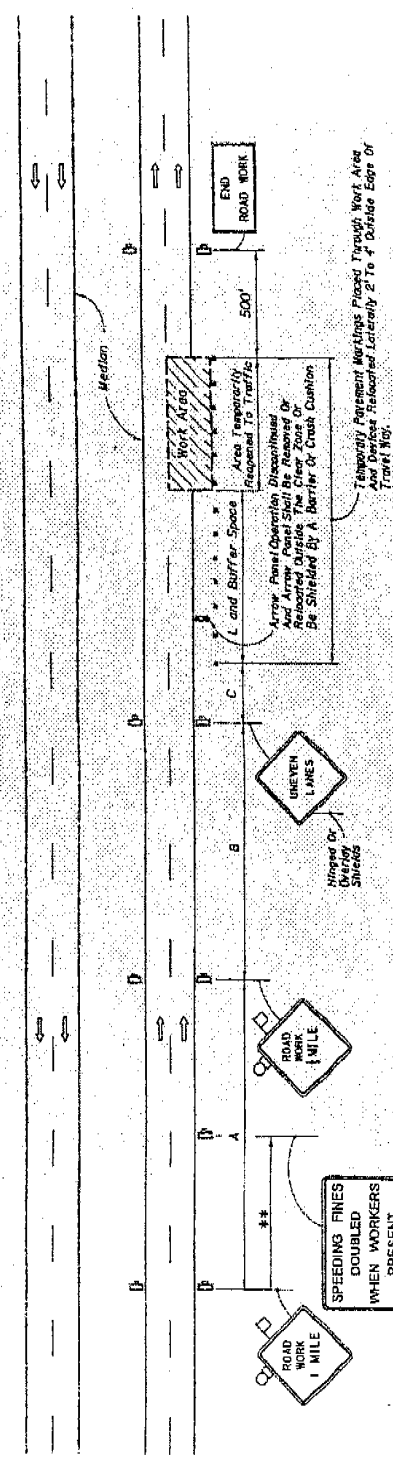
TRAFFIC CONTROL NOTES

SHEET NO. LD-80

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EVEN PAVEMENT



UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REDNEPED TO TRAFFIC

REVISIONS		DESCRIPTION	
BY	DATE	BY	DESCRIPTION

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	COUNTY	BROWARD	07-00239
7	BROWARD		

MILLER LEGG		TRAFFIC CONTROL DETAILS	
1800 South Central Blvd. Suite 200, Pompano Beach, Florida, 33064 954-435-3001 Fax: 954-435-3004 www.millerlegg.com		SHEET NO. LD-81	
Dist. of Ind. 200007311 - Equipment of Record: Ex. 1, Compliance: P.S. 5002		6/4/2008 9:45:29 AM 94529.M 17:\proj\1007\07-00239-1-1\trfct\landscap\plan\002390000\news\1071\LD-81.dwg	

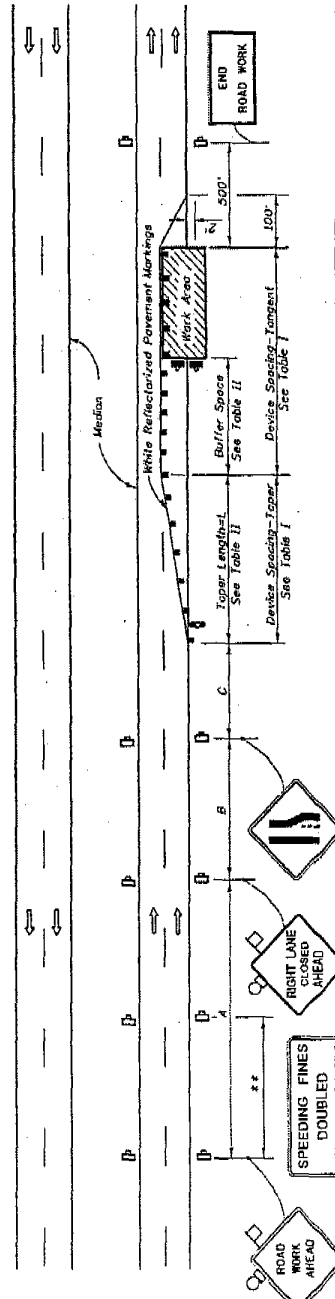


Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (ft.)	Notes
25	155	125	Energy
30	200	160	WS ²
35	250	245	L=50
40	305	320	
45	360	540	
50	425	600	
55	495	505	
60	570	720	L=WS
65	645	780	
70	730	840	

When Buffer Space cannot be obtained due to geometric constraints, the greatest attainable length should be used, but not less than 200 ft.

For lateral transitions other than 12", use formula for L shown at the notes column.

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Cones or Tubular Markers (Tangent)	Type I or Type II Bicycles or Vertical Panels or Drums (Tangent)	Notes
25	25	25	
30 to 45	25	50	
50 to 70	25	50	
70 to 80	25	50	
80 to 100	25	100	

GENERAL NOTES

- Work operations should be confined to one traffic lane, leaving the adjacent lanes open to traffic.
- On unidirectional highways the median signs as shown are to be omitted.
- When work is performed in the median lanes on divided highways, the median lanes should be closed and end signs substituted for the right lane closed and lane end signs. The same applies to unidirectional highways with the following exceptions:
 - Median signs should be placed along the centerline abutting the work area and across the trailing end of the work area.
 - When work on unidirectional highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
- Signs and traffic control devices are to be modified in accordance with the following exceptions:
 - When work is being performed and the highway is open to traffic, the two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
 - When paved shoulders having a width of 8 ft. or more are closed, channelizing devices should be used to close the shoulder in advance of the taper to direct vehicular traffic to remain within the travelway. See Index No. 02 for shoulder taper formulas.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)
A	100
B	200
C	200
40 mph or less	200
45 mph	300
50 mph	300
55 mph or greater	400
60 mph	400
65 mph	400
70 mph	400

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

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

SYMBOLS

- Work Area
- Sign with 18" x 18" (min.) Triangle Flag and Type B Light
- Channelizing Device (See Index No. B10)
- Type I Type II Or Type III Barricade Or Vertical/Panel/Drum (With Flashing Light)
- Work Zone Sign
- Advance Warning Arrow Panel

DURATION NOTES

- Temporary white signage may be omitted for work operations less than 3 days.
- Signs, arrow panels and buffer space may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Speed limit is 45 mph or less.
 - Work area for vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - Volume and complexity of the roadway has been considered.

CONDITIONS

WHERE ANY VEHICLE EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCOACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

CITY OF COCONUT CREEK
MILLER LEGG PROJECT ID: 07-00239

MILLER LEGG
180 West Douglas Road, Suite 200, Phoenix, AZ 85004
604-486-1000 Fax: 604-486-1001 www.millerlegg.com
City of Coconut Creek, Engineer of District No. 3, Chapter No. 15, 2004

COUNTY: BROWARD ROAD NO.: 7 SHEET NO.: LD-62

PROJECT GENERAL NOTES:

- The Contractor shall visit the site prior to placing his bid to assess the amount of planting required for the project conditions as they relate to traffic control, access to the site and other challenges of the Project.
- All basic survey sketch information shown is the best available information available at the time of preparation of plans. The Contractor shall notify the City of any discrepancies in the information provided. Base map is a sketch of corridor and data is not geographically located within any survey datum. Features such as right of way lines, and utilities, have been compiled and incorporated from as-built data obtained from various sources. Contractor shall verify the accuracy of the information shown on the plan. The City shall be responsible for the accuracy of the information shown on the plan. The Contractor shall provide for reference only and is an assumed condition of contract.
- All Public land corners and monuments within the limits of construction are to be protected by Contractor as follows: Corners and monuments in conflict with the work and in danger of being damaged, destroyed or removed shall be properly reestablished by a registered-land surveyor in accordance with the minimum technical standards of the Florida Board of Professional Land Surveyors prior to beginning work at the site. The Contractor shall retain the surveyor's name, address, and registration number for the project and submit a copy of the Florida Department of Transportation (FDOT)'s signed and sealed copy of the Land Surveyor's reference drawing.
- The Contractor shall comply with all state codes and ordinances. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.
- The Contractor shall submit a site plan showing the location of all existing signs including photos to the City at the time of bid. The City shall review the site plan and any signs proposed by the Contractor during construction; shall be replaced by the Contractor at no additional cost to the City or FDOT.
- Contractor is to notify the City/FDOT, who shall notify the State Patrol Office at 850-485-4361 at least 7 calendar days in advance of a MOT Set-up that will impact Overweight/Overheight Vehicles.
- Contractor shall remove and dispose of existing soil and surplus materials off-site or as directed by the City.
- CLEANING AND GRUBBING:**

 - TREE REMOVAL:** Includes cut, removal & stump grinding to a 10" minimum depth.
 - SHRUBS & GROUNDCOVERS:** Includes removal of existing shrubs and groundcovers within areas where proposed plant material is specified unless otherwise noted.
 - IRRIGATION:** Includes protection of existing irrigation systems within the right of way. Contractor shall be responsible for repair of damaged systems.
 - SIGHT VISIBILITY CLEAR ZONES:** on the main travel/through lanes for the project are based on a design speed of 50 mph.

ENVIRONMENTAL NOTES:

- The Contractor shall review environmental requirements of any proposed staging areas with the City and submit to the City and submit to the FDOT District Environmental Permits Coordinator at least seventy-two (72) hours prior to use.
- Contractor shall submit to City a Stormwater Prevention Pollution Protection Plan (S.W.P.P.P.) to City for review and submit to appropriate agencies with copies to FDOT.
- Any material to be stockpiled for periods greater than 24 hours shall be protected by appropriate erosion control devices. No material shall be stockpiled between tall fences and water bodies.
- All access roads to be developed by the City as to be developed by the Contractor's areas provided by him within 72 hours of being approved in the construction area and at the Contractor's expense.
- The Contractor is responsible for keeping existing and new rights of way clean of planting soil, debris, etc. during the construction at no additional cost to the City. Contractor shall submit plan for protection of rights of way and for erosion during construction.
- If necessary the Contractor shall use a street sweeper (using water) or other equipment capable of cleaning and removing dirt or rock. Approval of the use of such equipment is contingent upon its demonstrated ability to do the work.

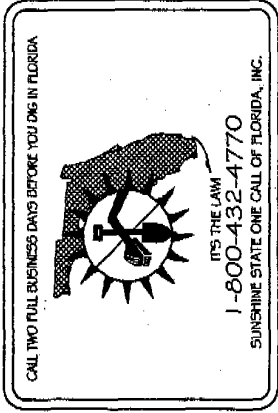
UTILITIES GENERAL NOTES:

- Two (2) business days prior to digging, the Contractor shall call Sunshine State One Call of Florida, telephone number 1-800-432-4770, and the utility owner and request utility locations. A Contractor's representative must be present when utility companies locate their facilities.
- All existing utilities are to be reused.
- Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and poles.

GOVERNING STANDARDS:

Florida Department of Transportation (FDOT) DESIGN STANDARDS and SPECIFICATIONS: Contractor to refer to the following:

- FDOT Standard Specifications for Road and Bridge Construction 2007
- FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2008 (English Units)
- Federal Highway Administration (FHWA) Policy On Geometric Design of Highways and Streets, 2001; Chapter 9, INTERSECTION SIGHT DISTANCE, CASE B and F, and Department practices for channelized median openings (left lane from major roadway).



LANDSCAPE GENERAL NOTES:

- Landscaping including but not limited to, pruning and maintenance work shall be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNLGA) as a Certified Landscape Contractor.
- PLANTING SOIL:** Contractor shall provide a minimum of 40% General Topsoil / 50% Sawdust / 10% Peat. This material shall be amended with the proposed trees and shrubs at a 5:0:5:0 ratio. A non-soluble wetting agent shall be added to all trees and plants at time of planting.
- SOIL:** Provided specified species of soil as shown on plans. All existing soil areas within the landscape shall be removed and replaced as specified on plans. All existing areas within soil areas shall remain unless otherwise specified. Contractor shall only remove existing turf and masticulations soils material from proposed planting areas. The Contractor shall be responsible for re-soil any damaged areas and restore them to the same condition as the existing areas. Cost of replacement material shall be reduced within Mobilization and at the Contractor's expense.
- MULCH:** A consistent 2" layer of shredded Grade A mulch or better shall be spread over all planting beds. All mulch beds shall extend to hedges shown on plans. Contractor to submit sample of mulch to City for acceptance.
- FERTILIZATION:** Contractor shall provide as a minimum, one (1) application at time of planting. A schedule of fertilization based upon the Manufacturer's recommended rates shall be submitted by the Contractor at the pre-construction meeting.

AT TIME OF PLANTING: Fertilize with planting tablets 20-10-5 plus micron. Do not place tablets at bottom of holes; tablets shall be 1/2 from the bottom of the rootball.

ESTABLISHMENT PERIOD OF PLANT MATERIAL: Fertilizer for shrubs, trees, vines and ground covers shall be of 0% nitrogen, 5% phosphorus and 0% potassium with minor elements, micronutrient sources. Fertilizer for palms shall be "lime fertilizer" of 13% nitrogen, 3% phosphorus and 13% of potassium composition analysis with minor elements. Contractor shall apply granular fertilizer at the manufacturer's recommended rates. Contractor reserves the right to modify N-P-K ratio and shall submit product data sheets for review and acceptance prior to any installation of plant material consistent with the above criteria.

WATERING: As a minimum, the Contractor shall provide the following recommended watering schedule beginning immediately after installation of plant material. At the pre-construction meeting, the Contractor shall submit a watering schedule based upon the following recommended rates:

All watering applications required during Plant Establishment Period and Warranty Period and its source shall be included as part of the bid price for each plant material. Contractor shall adjust watering schedule during heavy rain seasons upon approval by Project Engineer.

- WARRANTY:** Install, establish and maintain landscaping as indicated in the contract documents. The Contractor shall be responsible for the proper maintenance of all plants for a period of one year after final acceptance in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 560.
- REPLACEMENT MATERIAL:** shall be subject to all the requirements of the FDOT Standard Specifications for Road and Bridge Construction Section 560.
- MAINTENANCE:** Begin maintenance of all plants immediately after each planting as indicated in the contract documents and in accordance with Standard Specifications Section 560.
- PLANTING:** Keep all plants watered, fertilized, mulched, pruned and staked and staked as necessary to assure establishment period.
- During the establishment period, keep the individual planting locations and planting beds free of lawn and undesirable vegetation.
- Ensure that the plants are maintained so that they are healthy, vigorous, and undamaged throughout the duration of the project construction period and establishment period.
- For the duration of the establishment period, operate and maintain in good operating condition, all components of any irrigation system installed in compliance with the Contract Documents.
- During the establishment period, replace any plants that fall below specified minimum grade. Use replacement plants of the same species, size and planting medium as the plants being replaced and as specified in the Contract Documents.

10. The Contractor shall furnish to the City a unit price breakdown for all materials. The City may, at its discretion, add or delete from the materials within the unit price breakdown submitted. This unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting. 12. No plant material shall be accepted showing evidence of rot, stem marks, equipment scars, or when the soil of earth surrounding its roots has been cracked, broken or otherwise damaged.

07-25-04
 Miller Legg
 07-00239
 ROAD NO. 7
 COUNTY BROWARD
 PROJECT ID MILLER LEGG PROJECT ID
 CITY OF COCONUT CREEK
 LANDSCAPE NOTES
 SHEET NO. LD-4

DATE	BY	DESCRIPTION	REVISION	DATE	BY	DESCRIPTION

MILLER LEGG
 1000 W. U.S. 90, Suite 1000, Ft. Lauderdale, FL 33304
 954.483.3000 • Fax 954.483.3000 • www.millerlegg.com
 Div. of Miller Construction, Inc. (SUNSHINE STATE ONE CALL)

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 PROJECT ID MILLER LEGG PROJECT ID
 CITY OF COCONUT CREEK
 LANDSCAPE NOTES
 SHEET NO. LD-4

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
48	live oak	Quercus virginiana	Y	6	15	176.6	X		
49	live oak	Quercus virginiana	Y	5	15	176.6	X		
51	live oak	Quercus virginiana	Y	7	12	113.0	X		within a taper or sight line
52	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
53	live oak	Quercus virginiana	Y	8	28	615.4	X		within a taper or sight line
54	live oak	Quercus virginiana	Y	8	15	176.6	X		within a taper or sight line
55	live oak	Quercus virginiana	Y	8	12	113.0	X		within a taper or sight line
56	live oak	Quercus virginiana	Y	8	15	176.6	X		within a taper or sight line
57	live oak	Quercus virginiana	Y	6	18	254.3	X		within a taper or sight line
58	live oak	Quercus virginiana	Y	6	20	314.0	X		within a taper or sight line
59	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
60	live oak	Quercus virginiana	Y	6	15	176.6	X		within a taper or sight line
61	live oak	Quercus virginiana	Y	8	20	314.0	X		within a taper or sight line
62	live oak	Quercus virginiana	Y	8	12	113.0	X		within a taper or sight line
63	live oak	Quercus virginiana	Y	10	15	176.6	X		within a taper or sight line
64	live oak	Quercus virginiana	Y	7	15	176.6	X		within a taper or sight line
65	live oak	Quercus virginiana	Y	8	15	176.6	X		within a taper or sight line
66	live oak	Quercus virginiana	Y	8	10	78.5	X		within a taper or sight line
67	live oak	Quercus virginiana	Y	8	20	314.0	X		within a taper or sight line
69	cabbage palm	Sabal palmetto	Y	12	-	-	X		
70	cabbage palm	Sabal palmetto	Y	12	-	-	X		
71	cabbage palm	Sabal palmetto	Y	20	-	-	X		within a taper or sight line
72	cabbage palm	Sabal palmetto	Y	20	-	-	X		
73	cabbage palm	Sabal palmetto	Y	20	-	-	X		
74	cabbage palm	Sabal palmetto	Y	15	-	-	X		
75	cabbage palm	Sabal palmetto	Y	20	-	-	X		
76	cabbage palm	Sabal palmetto	Y	15	-	-	X		within a taper or sight line
77	cabbage palm	Sabal palmetto	Y	20	-	-	X		within a taper or sight line
78	cabbage palm	Sabal palmetto	Y	20	-	-	X		
79	cabbage palm	Sabal palmetto	Y	20	-	-	X		
80	cabbage palm	Sabal palmetto	Y	12	-	-	X		
81	cabbage palm	Sabal palmetto	Y	12	-	-	X		within a taper or sight line
82	cabbage palm	Sabal palmetto	Y	20	-	-	X		within a taper or sight line
83	cabbage palm	Sabal palmetto	Y	12	-	-	X		within a taper or sight line
84	cabbage palm	Sabal palmetto	Y	12	-	-	X		within a taper or sight line
85	cabbage palm	Sabal palmetto	Y	30	-	-	X		within a taper or sight line

02-15-09
Milling

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION	
CITY OF COCONUT CREEK				MILLER LEGG PROJECT ID		COUNTY		SHEET NO.	
ROAD NO. 7				BROWARD		07-00239		LD-6	
MILLER LEGG				1801 North Douglas Road, Suite 207, Pompano Beach, Florida 33062		954-435-7800 / Fax 954-435-8564 / www.millerlegg.com		EXISTING CONDITION CHART	
Date of Issue: 11/20/07 / U.S. Environmental & Planning Services, Inc. / 11/20/07									

07/29/2006 08:30:00 AM 10/11/2007 08:00:00 AM 10/11/2007 08:00:00 AM 10/11/2007 08:00:00 AM

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
86	cabbage palm	Sabal palmetto	Y	20	-			X	within a taper or sight line
87	cabbage palm	Sabal palmetto	Y	15	-			X	within a taper or sight line
88	cabbage palm	Sabal palmetto	Y	30	-			X	within a taper or sight line
89	cabbage palm	Sabal palmetto	Y	15	-			X	within a taper or sight line
90	live oak	Quercus virginiana	Y	8	15	178.6		X	within a taper or sight line
91	live oak	Quercus virginiana	Y	3	4	12.6		X	within a taper or sight line
92	live oak	Quercus virginiana	Y	6	15	178.6		X	within a taper or sight line
93	live oak	Quercus virginiana	Y	6	10	78.5		X	within a taper or sight line
95	live oak	Quercus virginiana	Y	6	10	78.5		X	within a taper or sight line
96	live oak	Quercus virginiana	Y	6	12	113.0		X	within a taper or sight line
97	live oak	Quercus virginiana	Y	6	0.0			X	within a taper or sight line
98	live oak	Quercus virginiana	Y	8	15	178.6		X	within a taper or sight line
99	live oak	Quercus virginiana	Y	8	15	178.6		X	within a taper or sight line
100	live oak	Quercus virginiana	Y	8	20	314.0		X	within a taper or sight line
101	live oak	Quercus virginiana	Y	10	15	178.6		X	within a taper or sight line
102	live oak	Quercus virginiana	Y	8	15	178.6		X	within a taper or sight line
103	live oak	Quercus virginiana	Y	6	15	178.6		X	within a taper or sight line
104	live oak	Quercus virginiana	Y	8	15	178.6		X	within a taper or sight line
105	live oak	Quercus virginiana	Y	8	18	254.3		X	within a taper or sight line
106	live oak	Quercus virginiana	Y	8	18	254.3		X	within a taper or sight line
107	live oak	Quercus virginiana	Y	8	20	314.0		X	within a taper or sight line
109	live oak	Quercus virginiana	Y	6	15	178.6		X	within a taper or sight line
110	live oak	Quercus virginiana	Y	8	18	254.3		X	within a taper or sight line
111	live oak	Quercus virginiana	Y	12	20	314.0		X	within a taper or sight line
112	live oak	Quercus virginiana	Y	8	18	254.3		X	within a taper or sight line
113	live oak	Quercus virginiana	Y	6	15	178.6		X	within a taper or sight line
115	live oak	Quercus virginiana	Y	6	15	178.6		X	within a taper or sight line
116	live oak	Quercus virginiana	Y	4	8	50.2		X	within a taper or sight line
119	live oak	Quercus virginiana	Y	6	12	113.0		X	within a taper or sight line

02-25-09
R. SMITH

DATE	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
180 North Douglas Street, Suite 200 • Nashville, TN 37203
 Phone: 615-259-0100 • Fax: 615-259-0101
 Cost # 10000007 • Lic. # 10000007

CITY OF COCONUT CREEK
ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT ID 07-00239

EXISTING CONDITION CHART

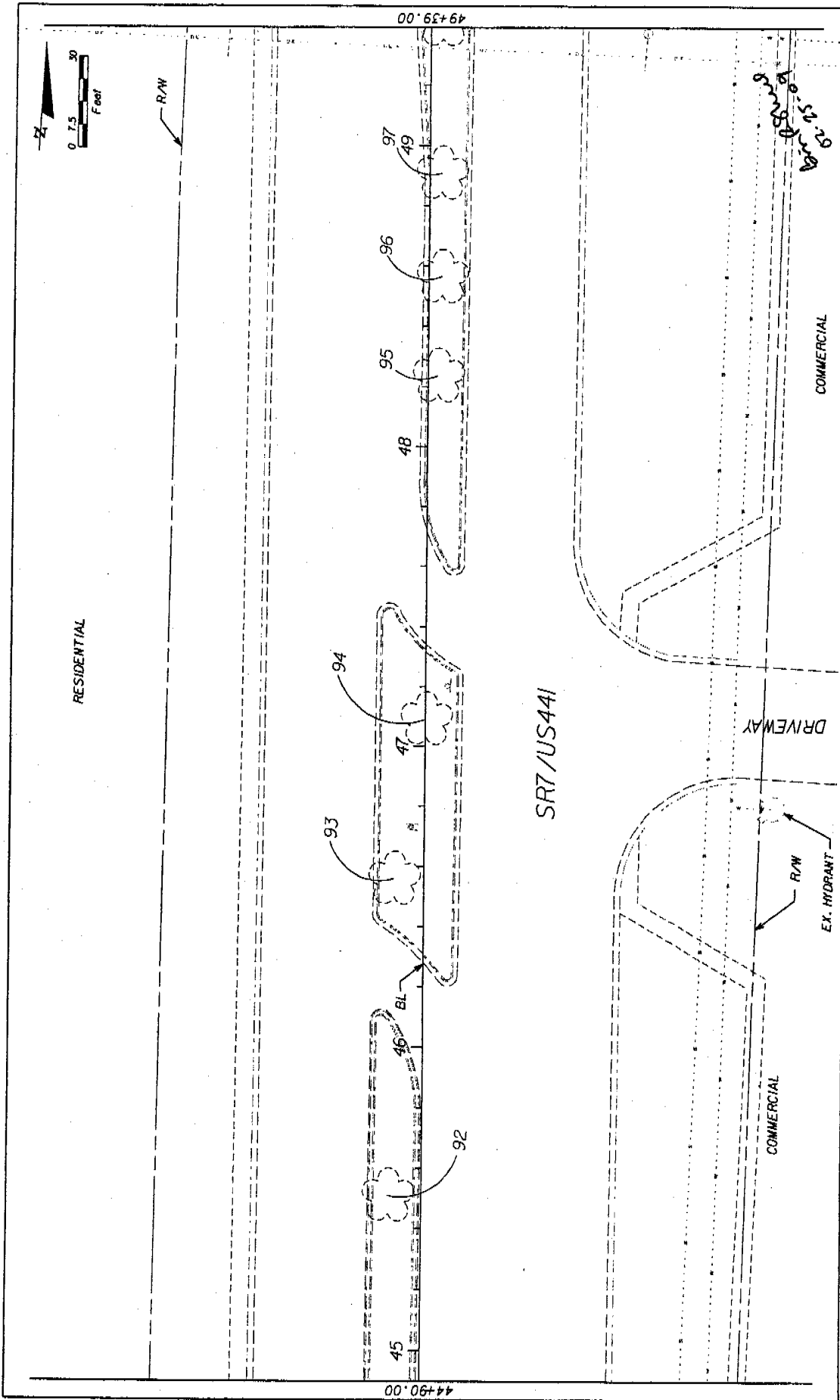
SHEET NO. LD-7

DATE OF VERIFICATION: 10/11/07

TREE NUMBER	COMMON NAME	BOTANICAL NAME	NATIVE?	DBH (in) for trees / Clear Trunk Height (ft) for palms	SPREAD (ft.)	CANOPY AREA (sq. ft.)	TO BE REMOVED	TO REMAIN	Notes/Condition
120	live oak	<i>Quercus virginiana</i>	Y	8	18	254.3		X	within a taper or sight line
121	live oak	<i>Quercus virginiana</i>	Y	8	20	314.0		X	
124	live oak	<i>Quercus virginiana</i>	Y	6	15	176.6		X	within a taper or sight line
125	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line
127	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line
128	live oak	<i>Quercus virginiana</i>	Y	6	12	113.0		X	within a taper or sight line

60-25-09
 10/11/07
 R. B. B.

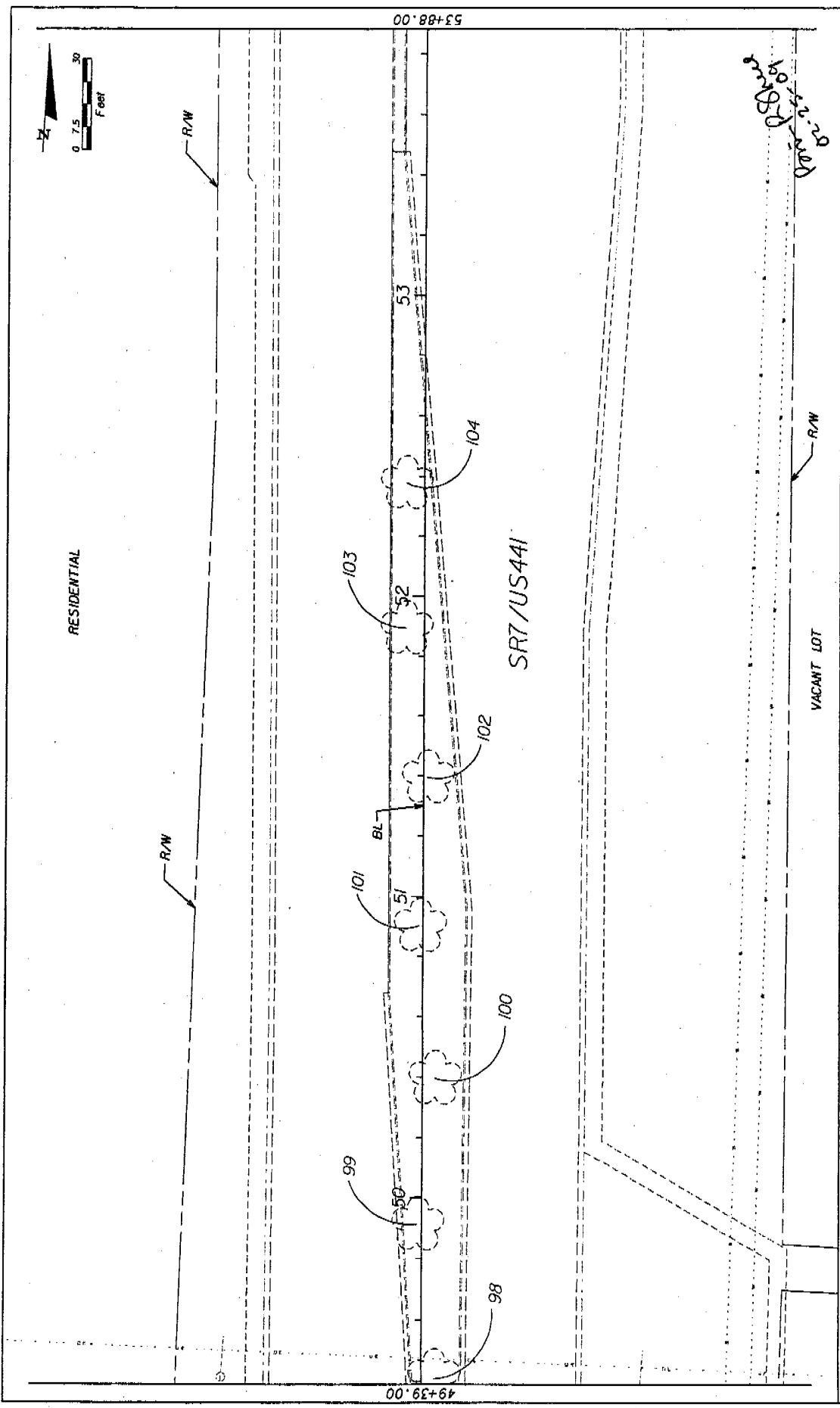
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MILLER LEGG 1000 N. ... 304-437-2000 Fax: 304-438-8664 www.millerlegg.com One of the ...		EXISTING CONDITION CHART		



REVISIONS		CITY OF COCONUT CREEK		EXISTING CONDITION PLAN		SHEET NO.	
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT ID	LD-19	
			7	BROWARD	07-00239		

MILLER LEGG
 1000 N. UNIVERSITY BLVD., SUITE 1000, FT. LAUDERDALE, FL 33309
 954.683.9800 FAX 954.683.9801 www.millerlegg.com
 City of Miami, Dade County, FL. License No. LA 569078

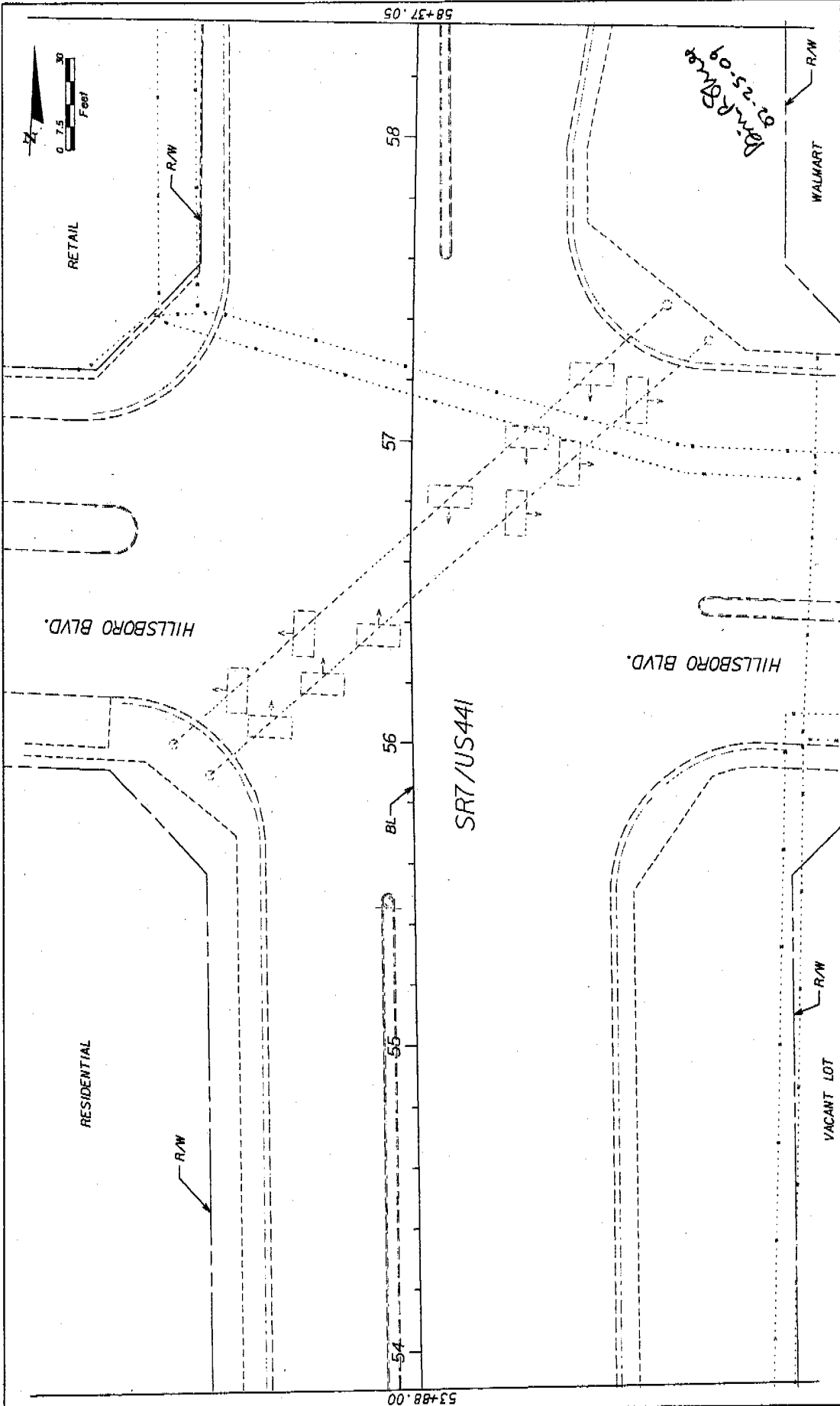
44+90.00 49+39.00
 COMMERCIAL
 COMMERCIAL
 DRIVWAY
 EX. HYDRANT
 R/W
 R/W
 RESIDENTIAL
 SR7/US44I
 07/20/2008 08:27:03 AM
 10/10/08
 10/10/08
 10/10/08
 10/10/08



REVISIONS		DESCRIPTION		DATE		BY	

MILLER LEGG <small>100 South Temple Street - Suite 310 - Pensacola, Florida, 32504 904-438-7800 - Fax: 904-438-8844 - www.mlegg.com One of the LEADERS in the industry since 1966</small>		ROAD NO. 7 COUNTY BROWARD MILLER LEGG PROJECT # 07-00239	CITY OF COCONUT CREEK EXISTING CONDITION PLAN	SHEET NO. LD-20
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DATE: 2/22/2000
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO. 07-00239
 SHEET NO. LD-20
 CITY OF COCONUT CREEK
 EXISTING CONDITION PLAN

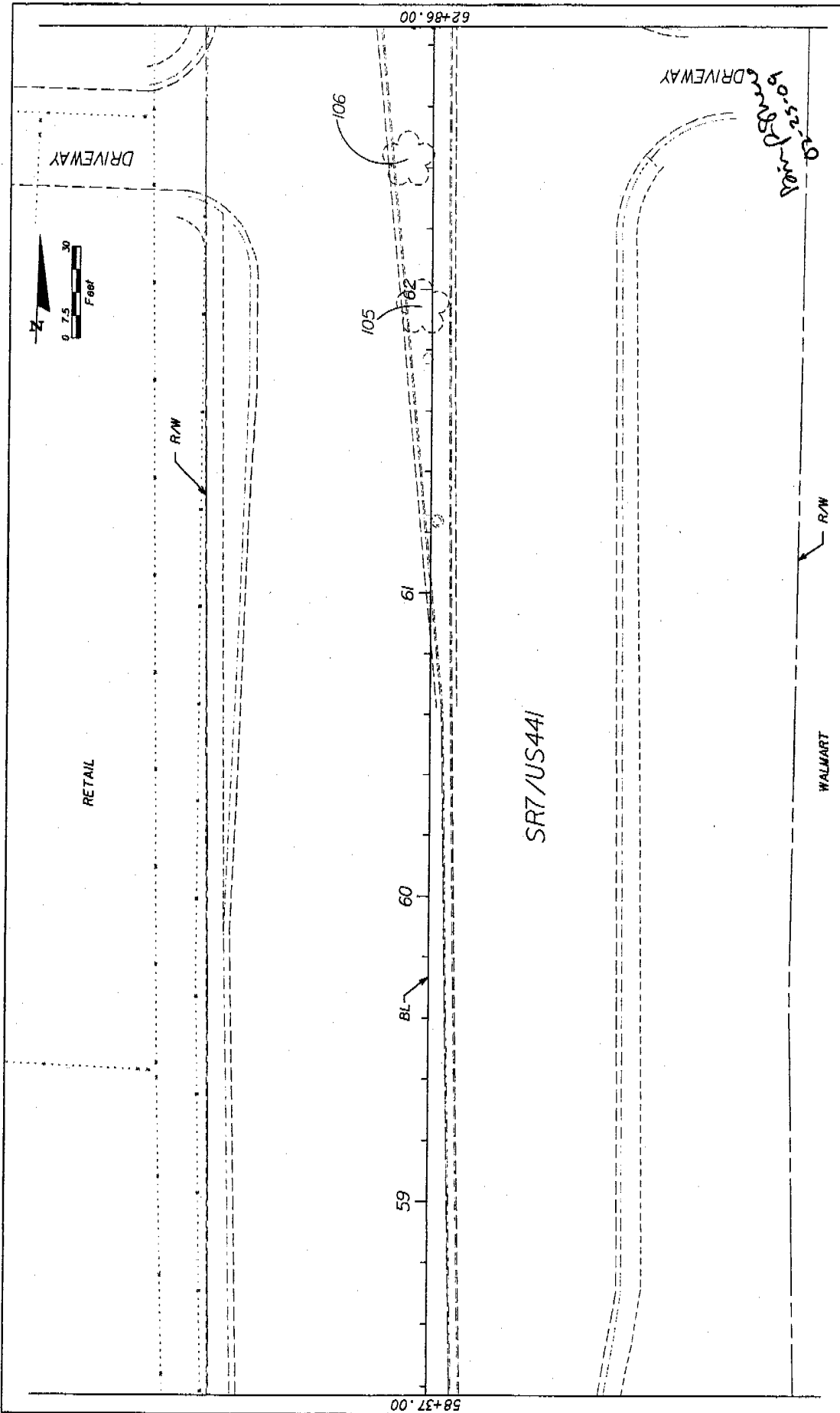


REVISIONS		CITY OF COCONUT CREEK		EXISTING CONDITION PLAN		SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NO.	NO.
							LD-21

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-002319

MILLER LEGG	
<small>100 North Douglas Road, Suite 200, Pompano Beach, Florida 33064 954-435-7800 Fax: 954-438-6666 www.millerlegg.com Div. of Public Utilities, L.L. of Broward County, Suite 111, 666770</small>	

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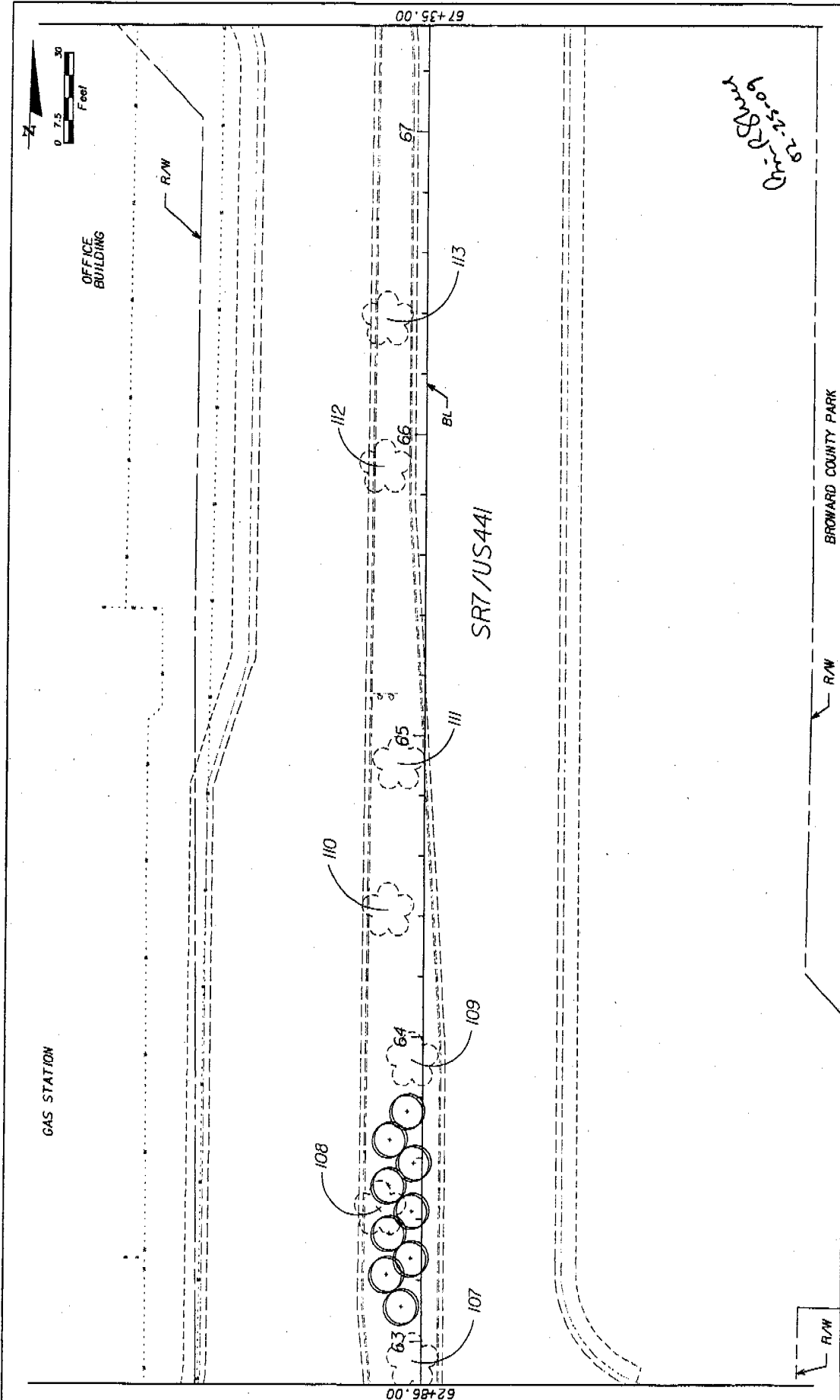


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 MILLER LEGG & ASSOCIATES, INC.
 10000 W. 11th Street, Suite 100
 Overland Park, KS 66204
 Phone: (913) 666-1100
 Fax: (913) 666-1101
 Website: www.mlegg.com
 City of Overland Park, KS

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID DT-00239

EXISTING CONDITION PLAN
 SHEET NO. LD-22
 DATE: 2/25/09
 DRAWN BY: [Name]

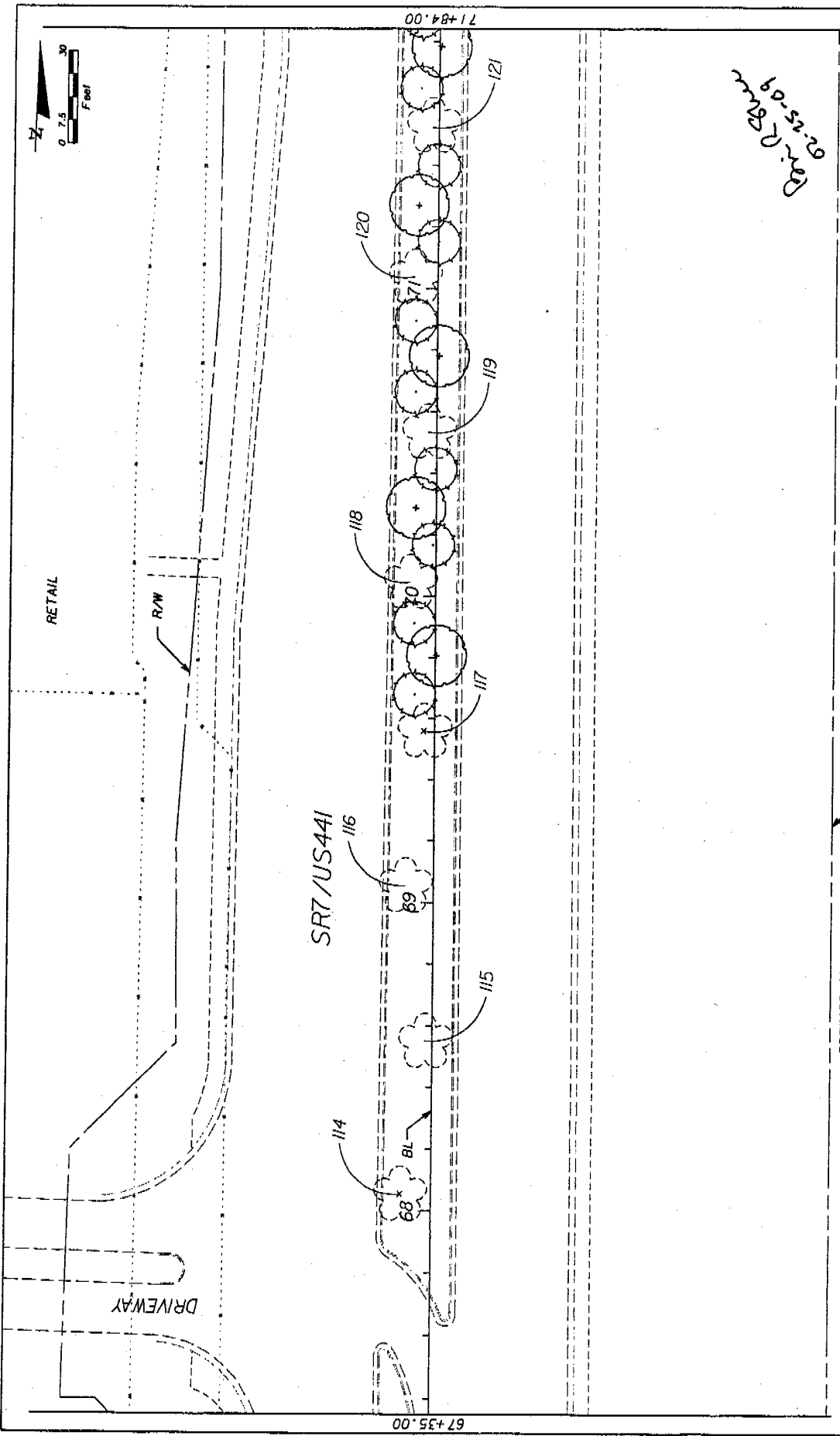


REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

MILLER LEGG 1000 PINE STREET, SUITE 200 DALLAS, TEXAS 75201 PH: 214-741-6541 FAX: 214-741-6542 WWW.MILLERLEGG.COM		CITY OF COCONUT CREEK MILLER LEGG PROJECT #	
ROAD NO.	COUNTY	MILLER LEGG PROJECT #	
7	BROWARD	07-00239	

BROWARD COUNTY PARK		SHEET NO.
EXISTING CONDITION PLAN		LD-23

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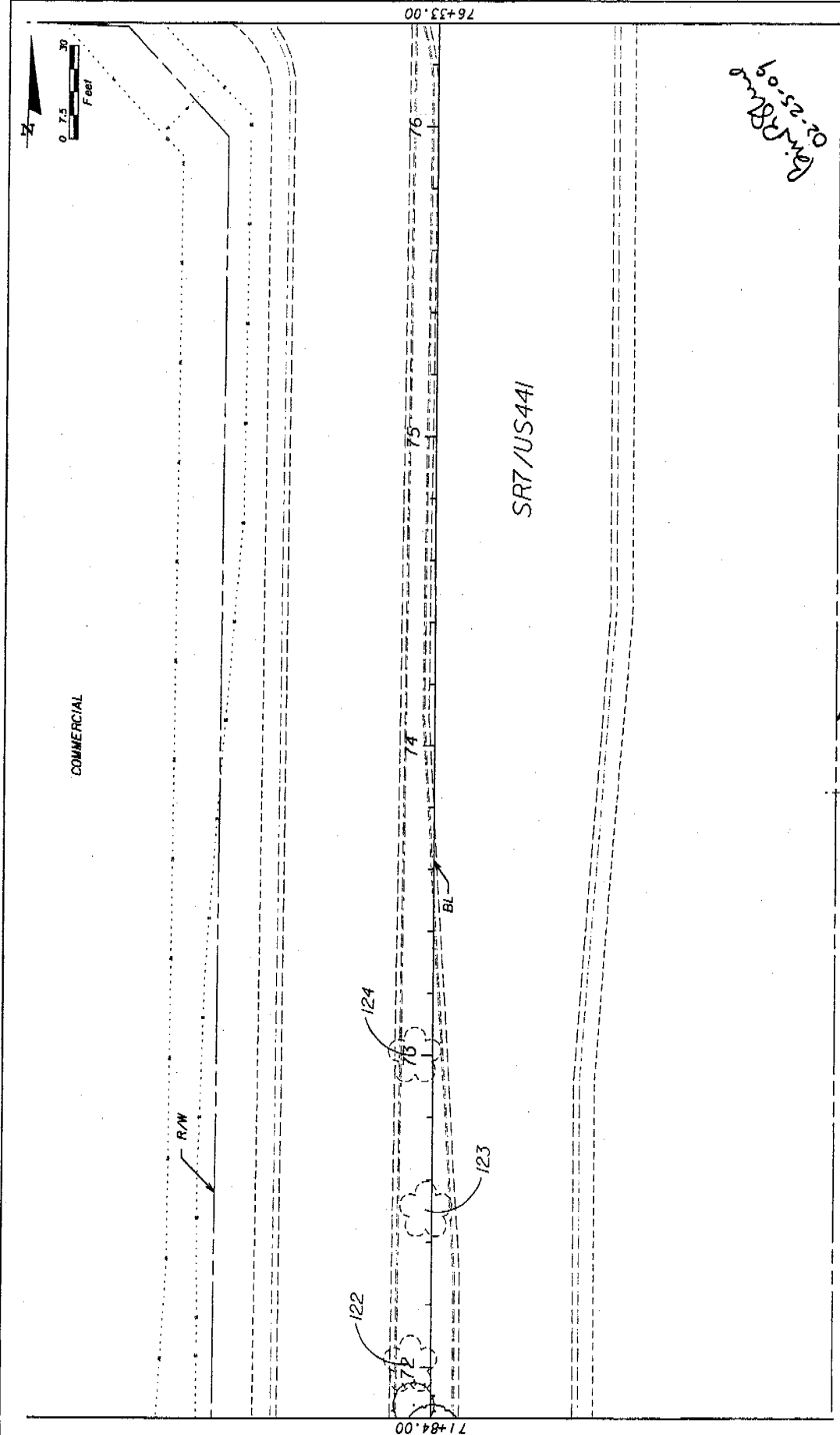


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			7	BROWARD	07-00239		

MILLER LEGG
 1000 N. ...
 304-435-2000 Fax: 304-435-2044
 One of the ...

BROWARD COUNTY PARK
 R/W

DATE: 12/29/2007 10:42:29 AM USER: J... PROJECT: ...



COMMERCIAL

R/W

SR7 / US441

122
123
124

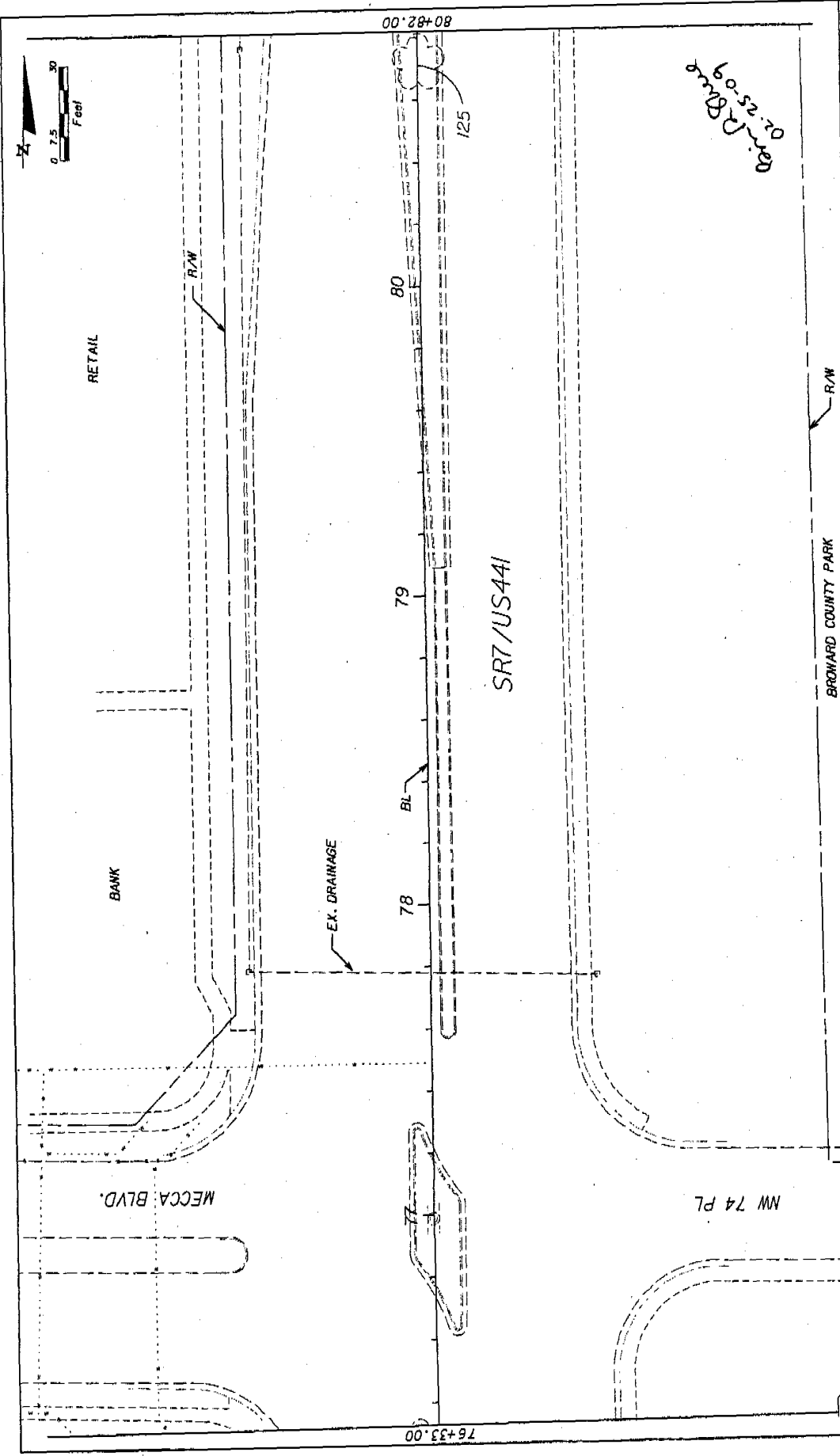
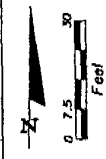
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71+84.00

Per R/S 02-25-09

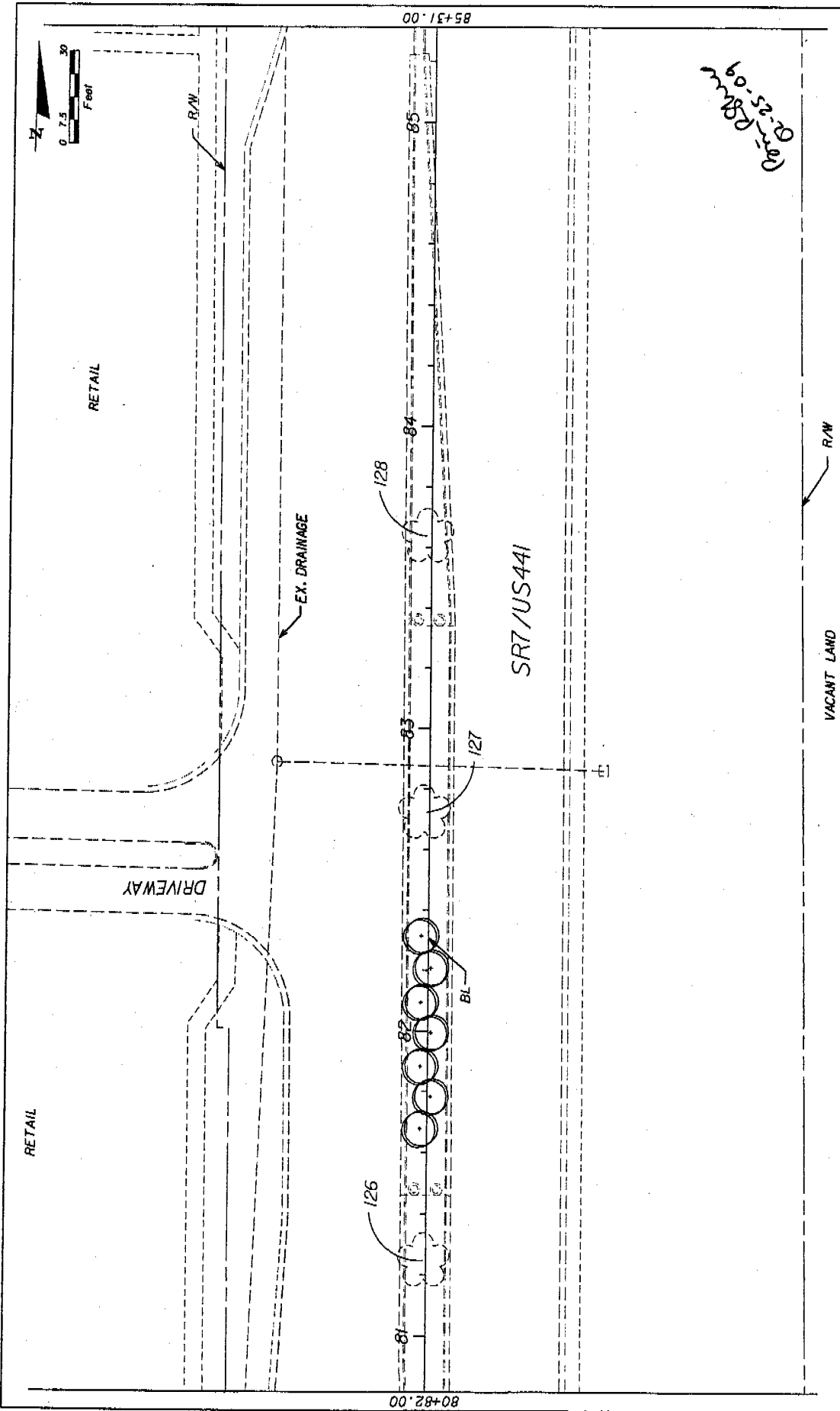
REVISIONS		RESIDENTIAL	
DATE	BY	DESCRIPTION	DATE

MILLER LEGG INCORPORATED 1000 PINEAPPLE AVENUE SUITE 100 BROWARD COUNTY, FL 33409 TEL: 954-385-4600 FAX: 954-385-4601 WWW.MILLERLEGG.COM		CITY OF COCONUT CREEK MILLER LEGG PROJECT ID	
ROAD NO.	7	COUNTY	BROWARD
PROJECT NO.	07-00239	SHEET NO. LD-25	



REVISIONS		CITY OF COCONUT CREEK		EXISTING CONDITION PLAN		SHEET NO.
DATE	BY	DESCRIPTION	PROJECT NO.	PROJECT NAME	DATE	NO.
			7	MILLER LEGG PROJECT B	07-00239	L0-26
			BROWARD COUNTY	BROWARD COUNTY		

MILLER LEGG
 1001 N.W. 12th St., Suite 200, Ft. Lauderdale, FL 33304
 Phone: (954) 561-1111
 Fax: (954) 561-1112
 www.millerlegg.com
 Date of Issue: 11/01/2007, L.A. of Record: 2008-11-14-06678



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25.00
0.000*

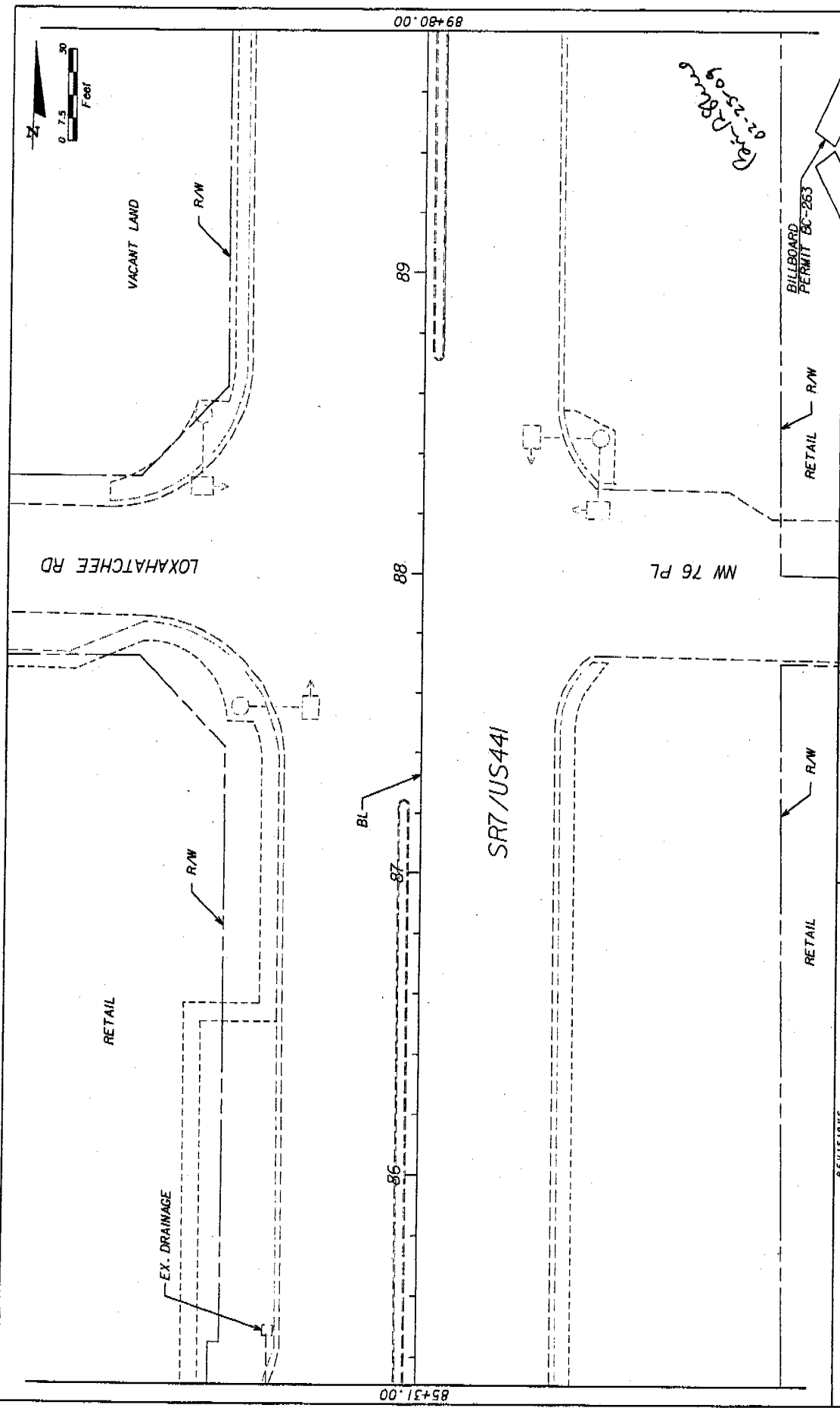
DATE	BY	DESCRIPTION	REVISIONS

MILLER LEGG
 1000 Northpark Drive, Suite 200, Bethesda, MD 20814, USA
 Tel: 301-461-7800 Fax: 301-461-7801 www.millerlegg.com
 One of the LEADERS in the U.S. of Environmental, Social & Governance

CITY OF COCONUT CREEK
 ROAD NO. 7 BROWARD COUNTY MILLER LEGG PROJECT ID 07-00239

SHEET NO. LD-27

DATE PLOTTED: 12/15/2023 11:47:41 AM PROJECT: SR7/US441 - EXISTING CONDITION PLAN



85+31.00

00' 08" ± 68

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
 11817 North Douglas Street, Suite 200, Jacksonville, Florida, 32218
 904-455-3800, Fax: 904-455-8661, www.millerlegg.com
 City of Jacksonville, Florida, License No. 12-14-00078

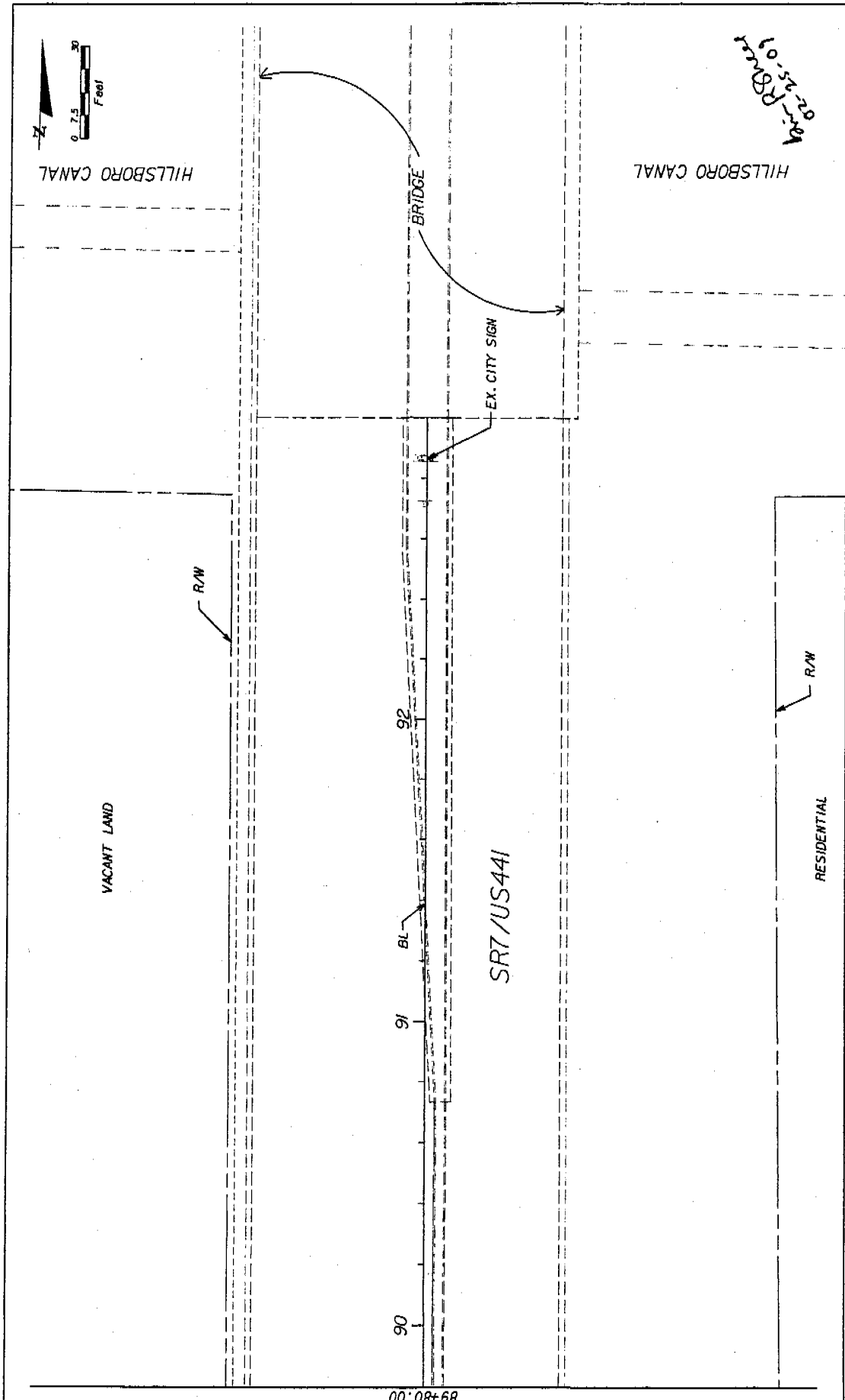
ROAD NO.	7	COUNTY	BRUNSWICK	PROJECT ID	07-00239
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EXISTING CONDITION PLAN

SHEET NO. LD-28

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 02-25-09

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HILLSBORO CANAL

HILLSBORO CANAL

VACANT LAND

RESIDENTIAL

SR7/US441

90

91

92

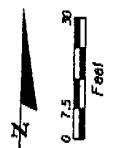
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BRIDGE

EX. CITY SIGN

R/W

R/W

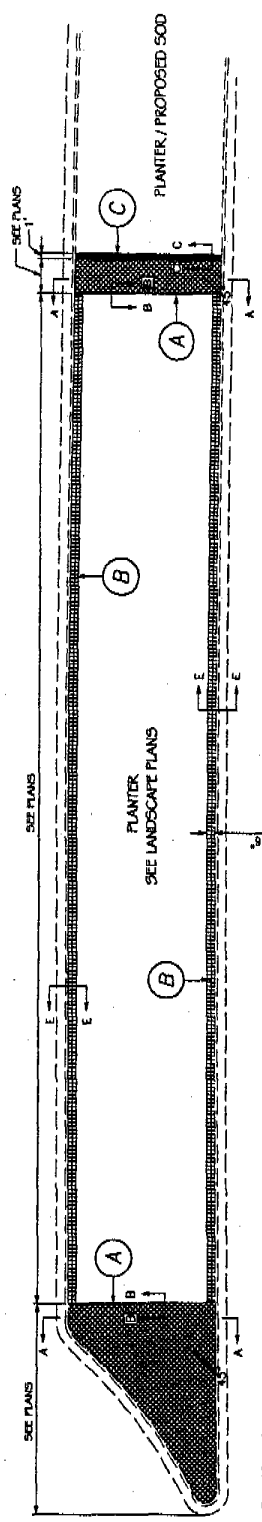


02-25-07 Proposed

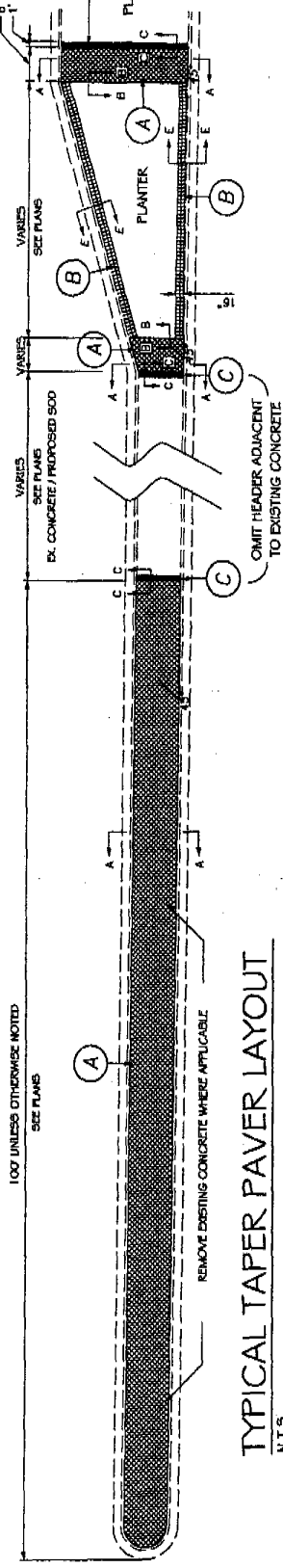
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG <small>1807 Northgate Road, Suite 200, Pompano Beach, Florida 33061 Phone: (954) 981-1500 Fax: (954) 981-1501 Cell: (954) 981-1502 E-Mail: mlegg@mllegg.com Lic. No. 12082707-1, J. Thomas Miller, State #1466879</small>		CITY OF COCONUT CREEK <small>COUNTY: BROWARD ROAD NO.: 7 PROJECT #: 07-00239</small>	EXISTING CONDITION PLAN SHEET NO. LD-29
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89+80.00



TYPICAL PAVER LAYOUT
N.T.S.



TYPICAL TAPER PAVER LAYOUT
N.T.S.

PAVING LEGEND

- (A) SPECIALTY PAVING FIELD TO BE 8" X 8" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS (OR APPROVED EQUAL) ON 1-1/2" SAND SETTING BED ON COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE FIN/NATURAL GRAY COLOR MIX COMBINATION. PAVERS TO BE LAID IN A 45 DEGREE ANGLE TO THE NON-ANGLED ADJACENT CURB.
- (B) 1 1/2" WIDE SPECIALTY PAVING BANDING TO BE DOUBLE ROW OF 8" X 8" CITY SQUARE CONCRETE PAVERS BY HANSON PAVERS (OR APPROVED EQUAL) ON 1-1/2" SAND SETTING BED ON COMPACTED SUBGRADE. COLOR TO BE P-16 CITY SQUARE FIN/NATURAL GRAY COLOR MIX COMBINATION. PAVER BANDING TO BE LAID PARALLEL TO THE ADJACENT CURB.
- (C) 12" WIDE BROOM FINISH CONCRETE HEADER.

SPECIALTY PAVING GENERAL NOTES

1. SPECIALTY PAVERS AVAILABLE THROUGH HANSON PAVERS (854) 972-7400 OR (800) 273-7064
2. HIDDEN CONCRETE BAKTULL SHALL BE REQUIRED BETWEEN 1" WIDE PAVER BANDING AND THE ADJACENT PAVER.
3. CONTRACTOR TO PRESURE CLEAN ALL EXISTING CONCRETE SURFACES AFTER CURING AND BEFORE AND/OR PLANT MATERIAL INSTALLATION. CONTRACTOR TO PROVIDE TWO (2) COATS OF SEALANT ON ALL CONCRETE PAVERS. CONTRACTOR TO SUBMIT SAMPLE OF SEALANT FOR APPROVAL BY CITY BEFORE INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND/OR REPLACEMENT OF ALL EXISTING CURBING AND/OR CONCRETE SURFACES DAMAGED DURING PAVER AND/OR PLANT MATERIAL INSTALLATION.
5. CONTRACTOR TO SUBMIT SAMPLES OF PAVERS FOR REVIEW.
6. CONTRACTOR SHALL CONSTRUCT A SAMPLE LAYOUT AREA TO BE REVIEWED BY CITY / AND OR CITY REPRESENTATIVE.
7. CITY / AND OR CITY REPRESENTATIVE SHALL REVIEW AND HAVE THE RIGHT TO ADJUST PAVERS FOR CUTS AND LAYOUT.

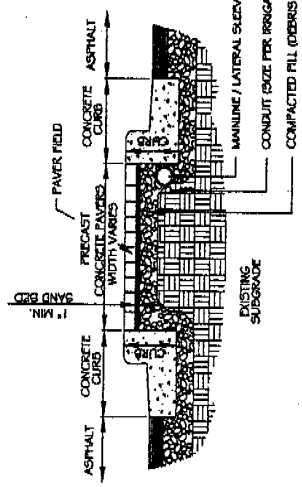
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DATE	BY	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

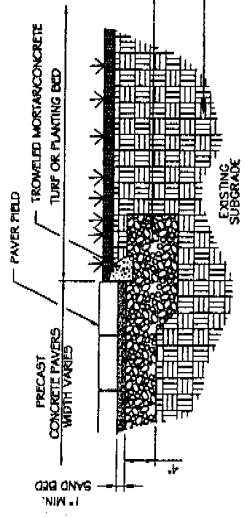
MILLER LEGG
1800 North Orange Ave. Suite 200, Orlando, FL 32809
Tel: 407.241.1111 Fax: 407.241.1111
City of Orlando, FL Contract No. 11-00000000000000000000

CITY OF COCONUT CREEK	
ROAD NO. 7	COUNTY BROWARD
MILLER LEGG PROJECT NO. 07-00239	

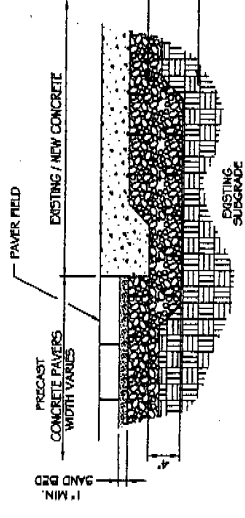
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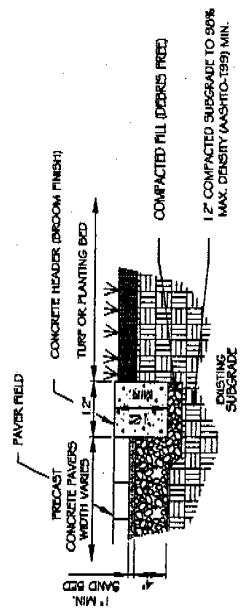
PAVER INSTALLATION DETAIL
SECTION A-A
N.T.S.



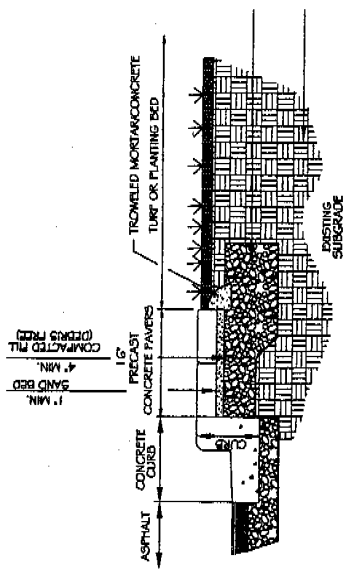
PAVER TRANSITION TO TURF OR PLANTING BED
SECTION B-B
N.T.S.



PAVER TRANSITION TO CONCRETE
SECTION D-D
N.T.S.



CONCRETE BANDING DETAIL
SECTION C-C
N.T.S.



PAVER BANDING DETAIL
SECTION E-E
N.T.S.

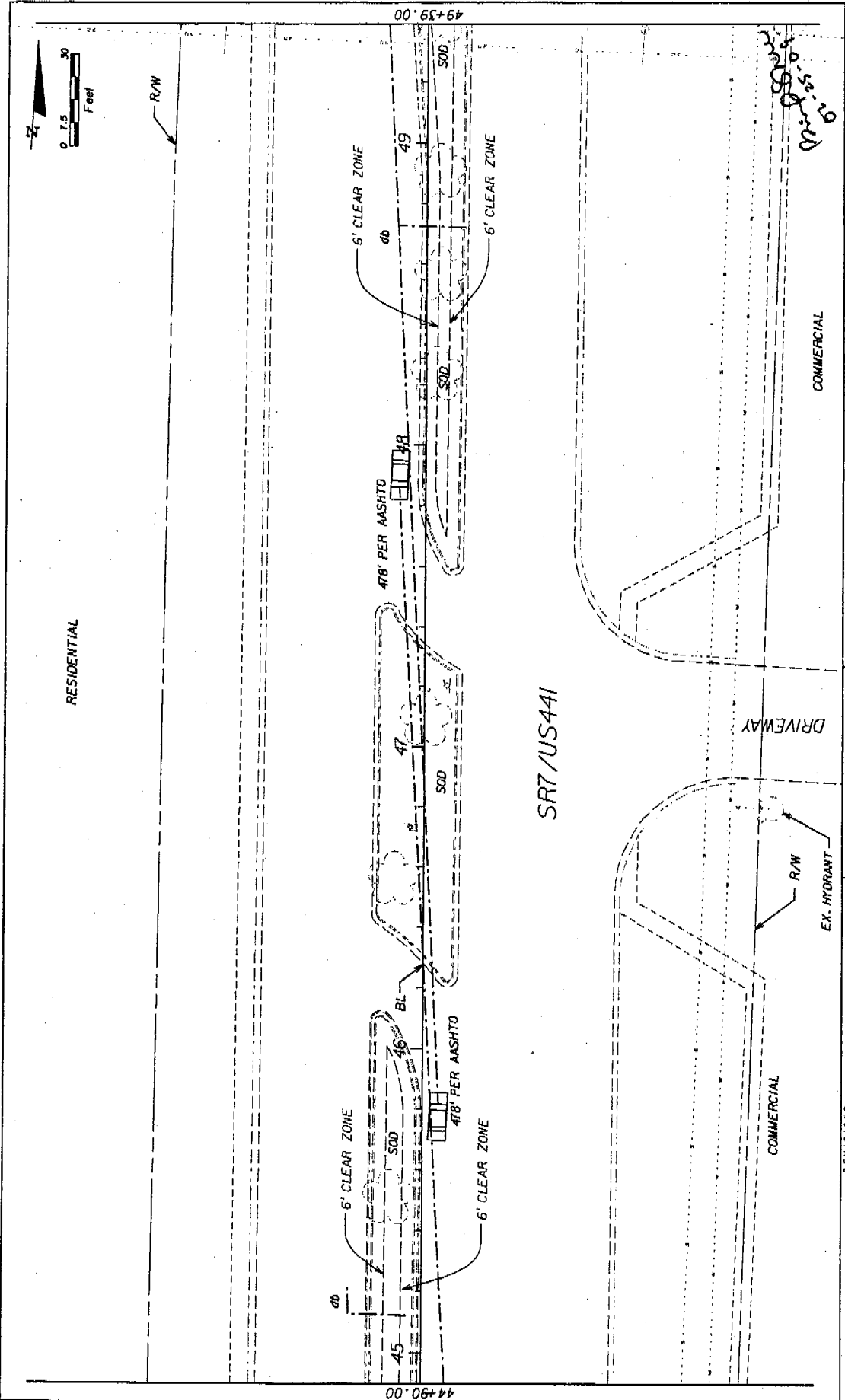
Handwritten note: 5-0-2010

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
10000 W. 10th Avenue, Suite 300
Denver, CO 80202
Tel: 303.751.4400
Fax: 303.751.4401
www.millerlegg.com

CITY OF COCONUT CREEK		PROJECT ID
ROAD NO.	COUNTY	WILDERNESS PROJECT ID
7	BROWARD	07-00239

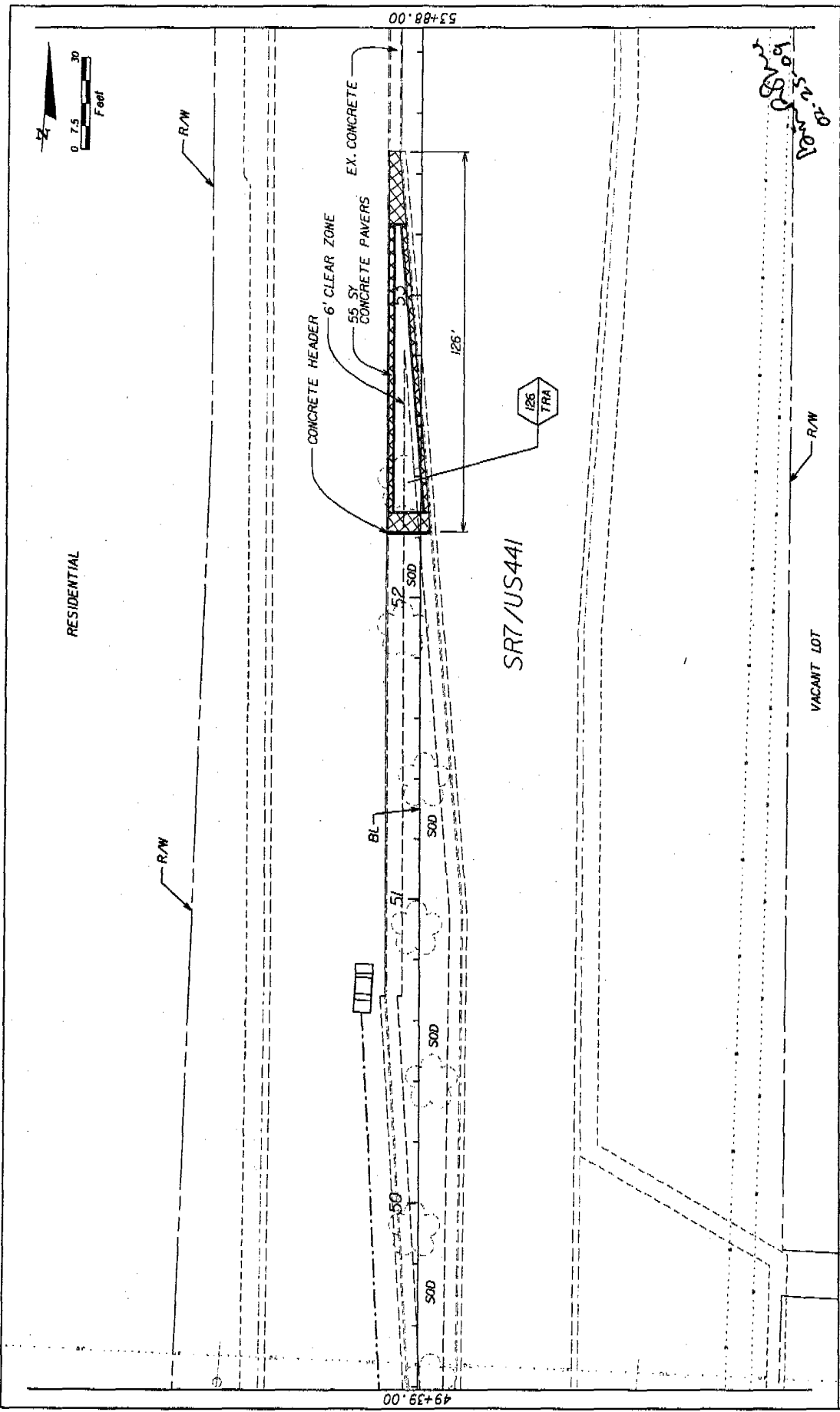
HARDSCAPE NOTES AND DETAILS		SHEET NO.
		LD-31



REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

MILLER LEGG <small>1800 North Highway 101, Suite 200, Pompano Beach, Florida 33069 954-782-9900 Fax: 954-951-9555 www.millerlegg.com Lic. # LC 11000001-1, L.A.C. # 58636, State # 15-00078</small>		CITY OF COCONUT CREEK <small>WILLER LEGG PROJECT ID</small> ROAD NO. 7 COUNTY BROWARD OF -002319	SHEET NO. LD-42
LANDSCAPE / HARDSCAPE PLAN			

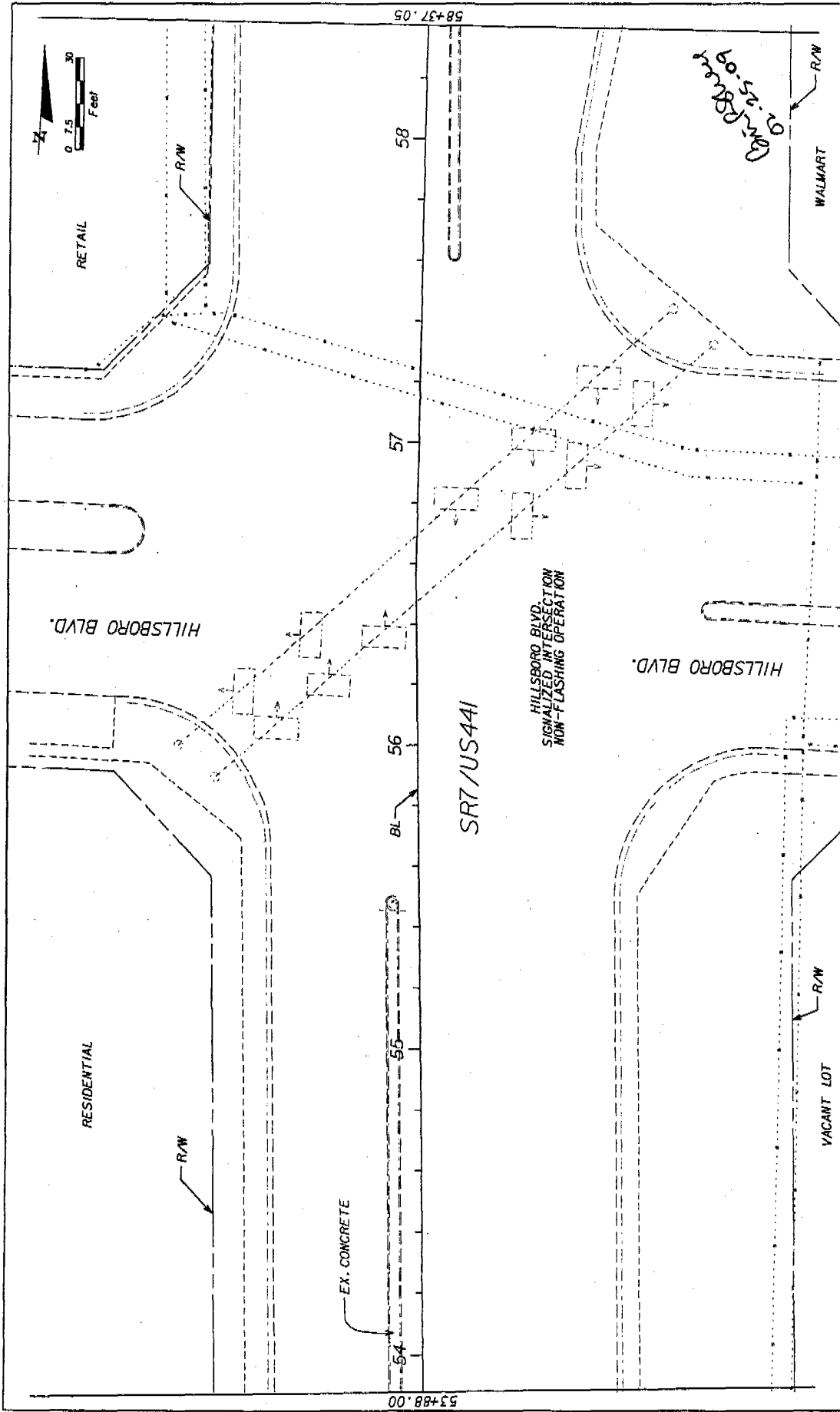
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DATE	BY	REVISIONS	DESCRIPTION

MILLER LEGG Professional Engineer Civil Engineering License No. 3504 City of Broward, Florida Date of Birth: 11/08/1958		CITY OF COCONUT CREEK PROJECT NO. 07-00239	
ROAD NO. 7	COUNTY BROWARD	MILLER LEGG PROJECT NO.	07-00239

LANDSCAPE / HARDSCAPE PLAN		SHEET NO. LD-43
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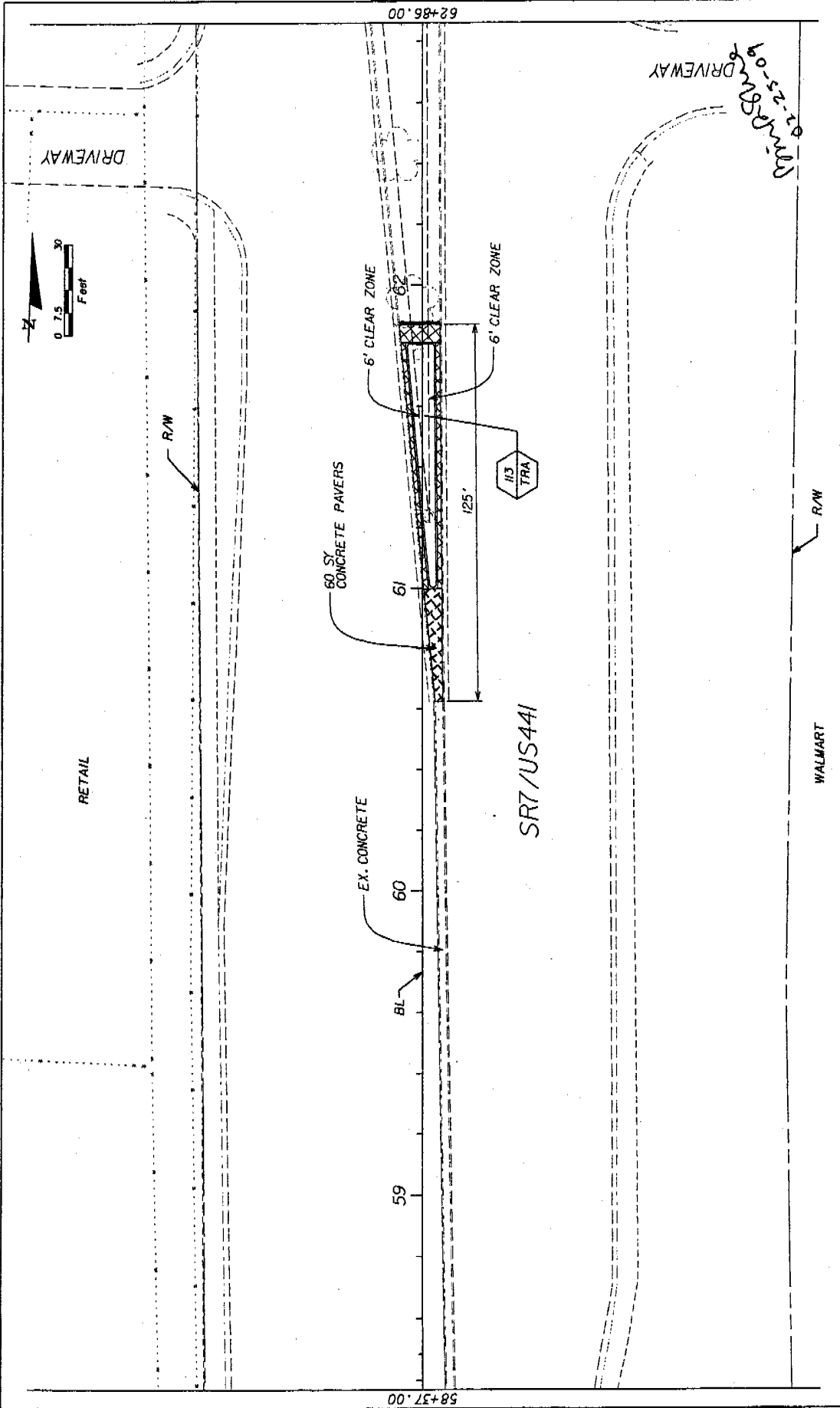
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MILLER LEGG		CITY OF COCONUT CREEK	
1000 West Pinal Street, Suite 200, Phoenix, Arizona 85009 94-437-3000 Fax: 94-437-3044 www.mlegg.com City of Pinal, UMBRETT, L.L. ENGINEER, P.E. & ARCHITECT, P.A.		MILLER LEGG PROJECT ID	
ROAD NO.	7	CITY	BROWARD
PROJECT NO.	07-00239		

LANDSCAPE / HARDSCAPE PLAN	
SHEET NO.	LD-44

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MILLER LEGG <small>2000 South Loop West, Suite 200, Houston, TX 77058 281-435-2800 Fax 281-435-8848 www.millerlegg.com Div. of H&L CONSULTANTS, L.L.C. (Successor to H&L & ASSOCIATES)</small>		CITY OF COCONUT CREEK <small>COUNTY: MILLER LEGG PROJECT ID</small>	LANDSCAPE / HARDSCAPE PLAN
ROAD NO. 7	BRIDGE NO. 07-00239	SHEET NO. LD-45	

58+37.00

62+86.00

DRIVEWAY

DRIVEWAY

RETAIL

R/W

60 SY CONCRETE PAVERS

EX. CONCRETE

60

61

62

6' CLEAR ZONE

6' CLEAR ZONE

125'

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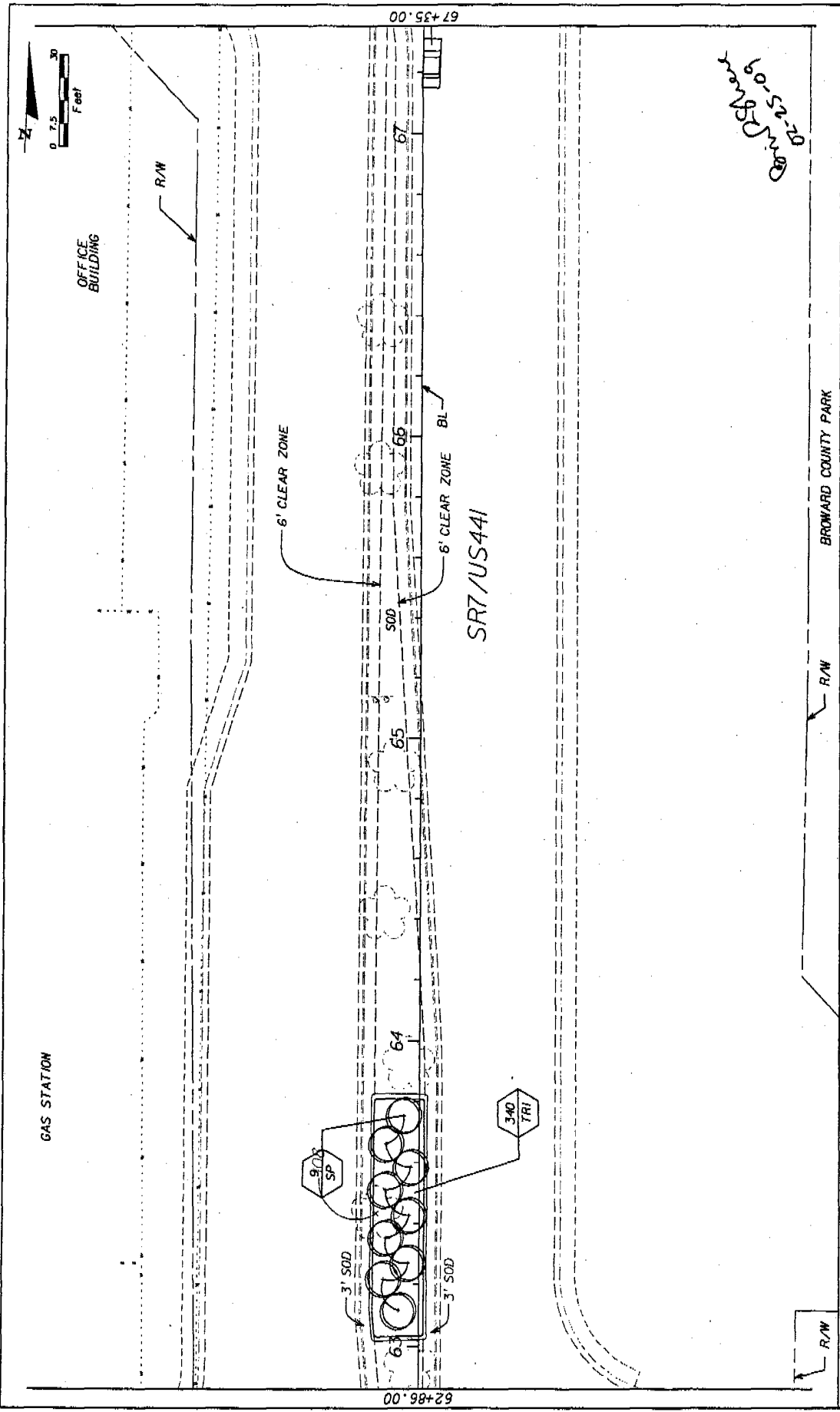
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WALMART

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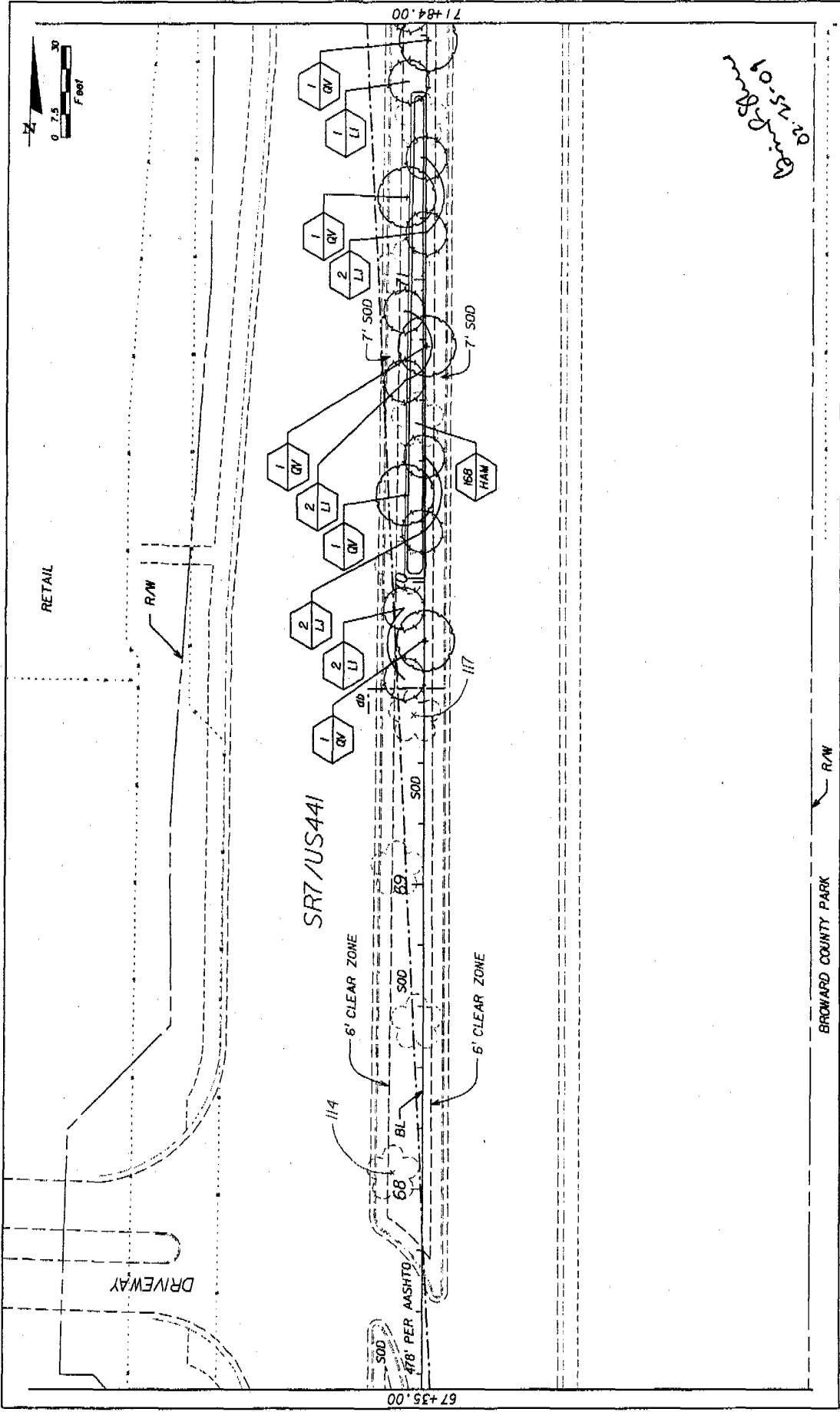
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ROAD NO.		COUNTY		MILLER LEGG PROJECT ID		SHEET NO.
7		BROWARD		07-00239		
CITY OF COCONUT CREEK				BROWARD COUNTY PARK		
LANDSCAPE / HARDSCAPE PLAN						
LD-16						

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REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

MILLER LEGG		CITY OF COCONUT CREEK	
180 North Douglas Road, Suite 200, Peabody, Mass., 01961 978-435-3001 • Fax: 978-435-3661 • www.millerlegg.com Date of Issue: 11/08/07 • I.A. of Record: Sheet 8 of 8 (1:5000)		MILLER LEGG PROJECT #	
PROJECT NO.	7	CITY	BROWARD
PROJECT TITLE	SR7/US44I		
PROJECT NO.	07-00239	DATE	

SHEET NO.		LANDSCAPE / HARDSCAPE PLAN	
LO-47		DATE	

DATE: 02/25/09

PROJECT NO.: 07-00239

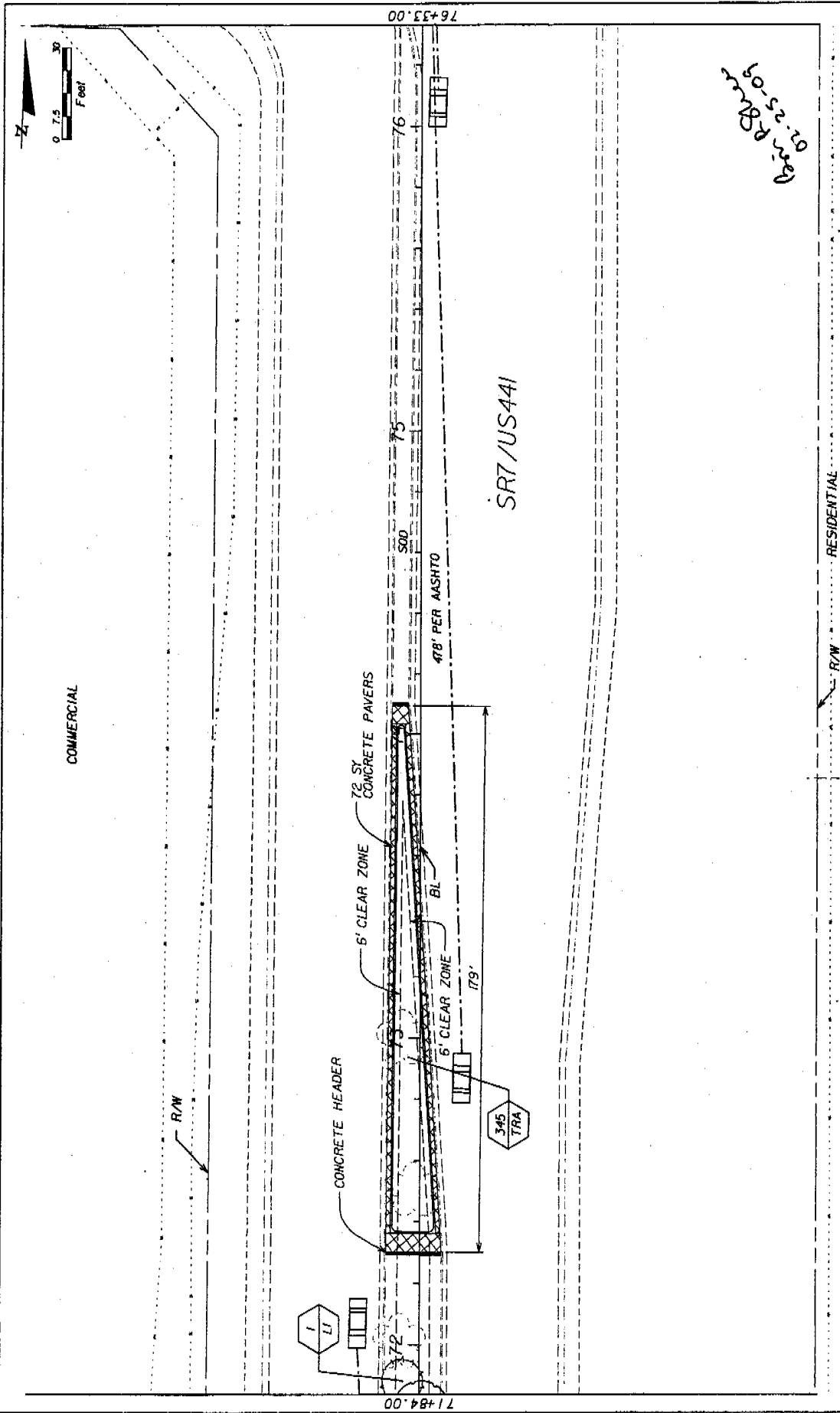
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PROJECT TITLE: SR7/US44I

DATE OF ISSUE: 11/08/07

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DATE: 02/25/09

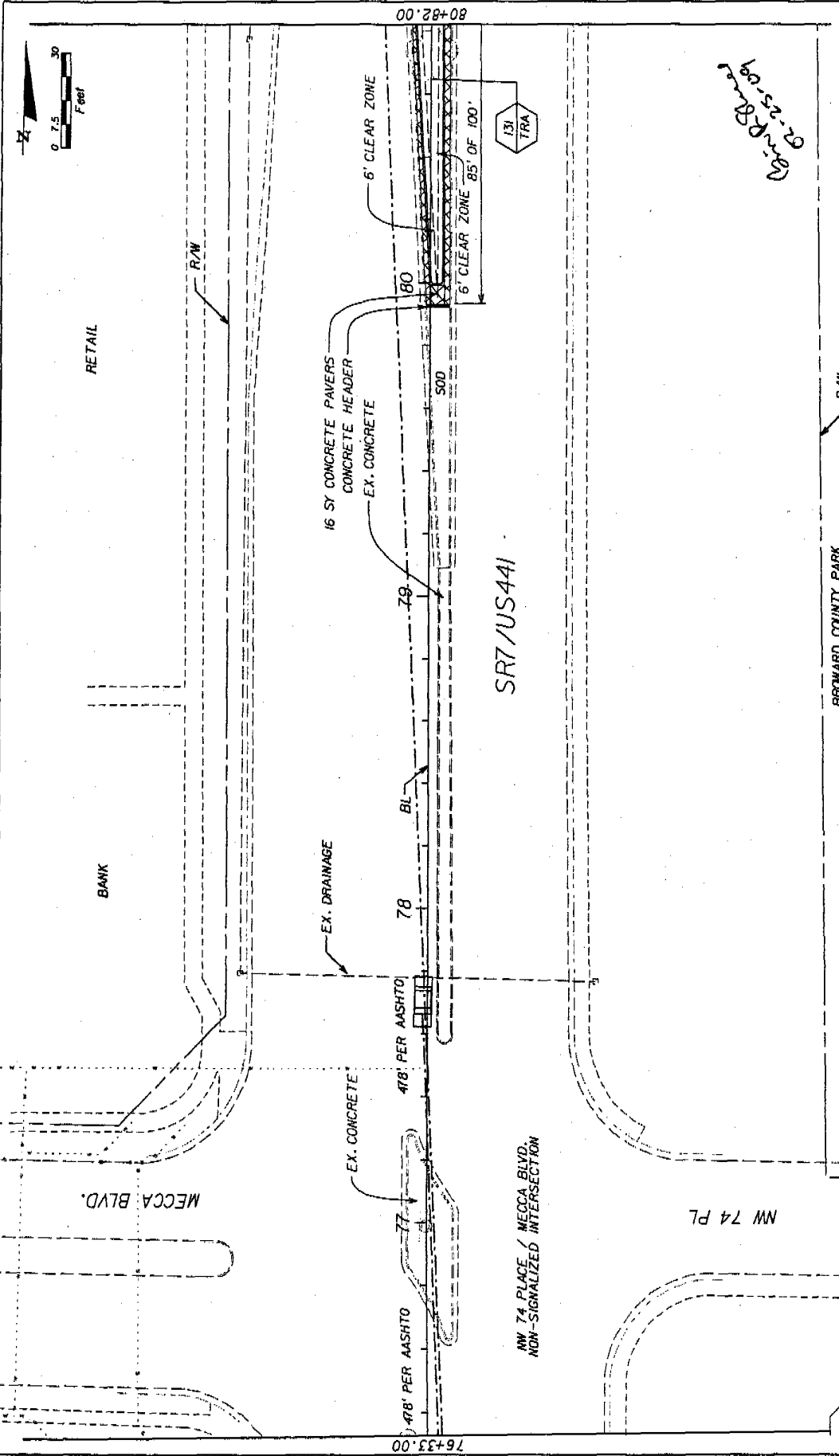


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CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	COUNTY	BROWARD	07-00239
7	BROWARD	07-00239	

MILLER LEGG		SHEET NO.	
<small> 1111 North Douglas Blvd., Suite 200, Ft. Lauderdale, Florida, 33304 954-535-3800 Fax: 954-535-3861 www.millerlegg.com City of Fort Lauderdale, U.S. of Florida, State of Florida </small>		LD-48	

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REVISORS		DESCRIPTION	
DATE	BY	DATE	BY

CITY OF COCONUT CREEK	
ROAD NO.	MILLER LEGG PROJECT #
7	07-00239
COUNTY BROWARD	

MILLER LEGG	
1000 North Douglas Road, Suite 200, Maitland, Florida, 32751	
P.O. Box 3089, Fort Myers, Florida, 33902	
Tel: (813) 897-7111 Fax: (813) 897-7112	
Doc. of File: 12-0000001-11-001-001-001-001-001-001	

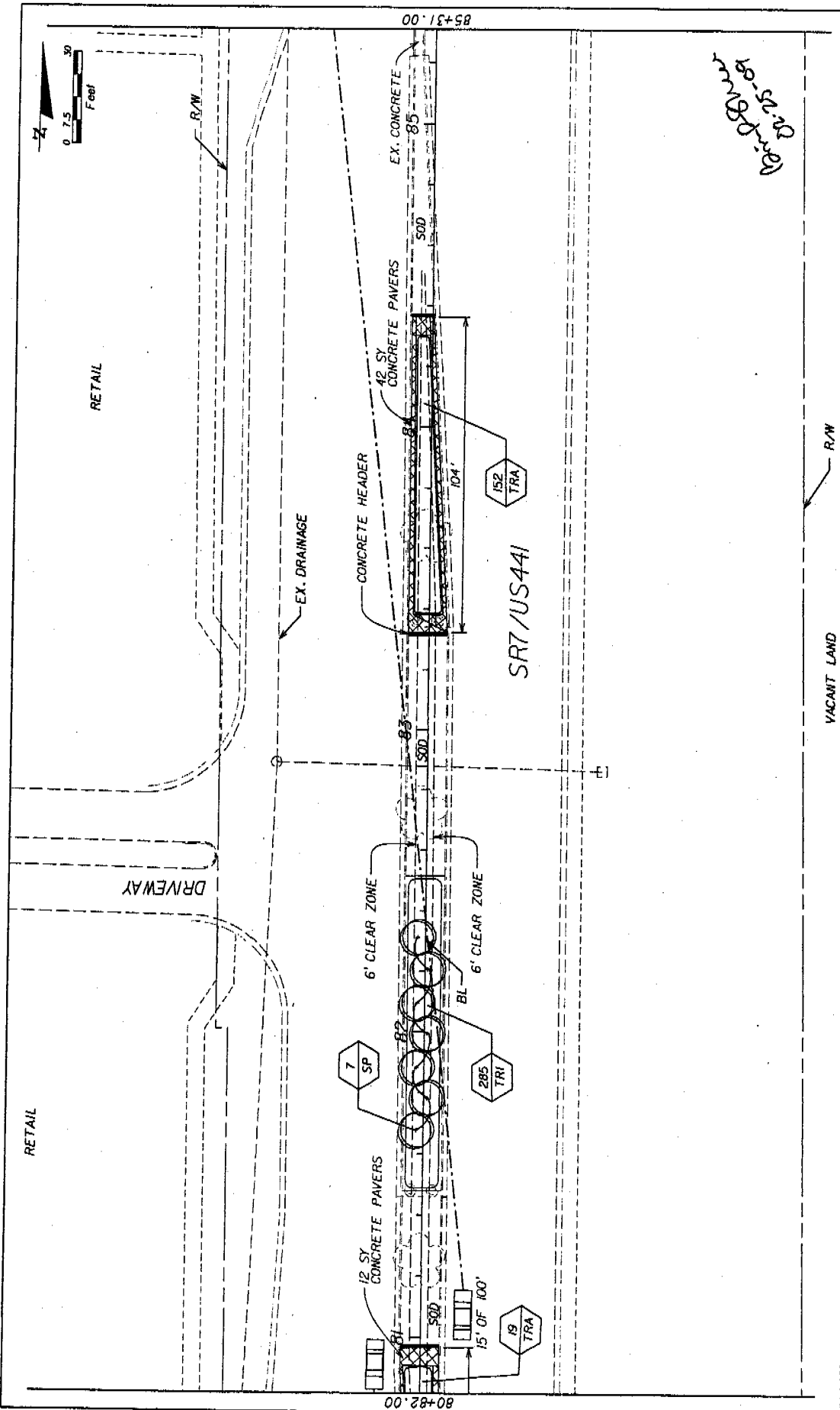
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LANDSCAPE / HARDSCAPE PLAN

DATE: 02/25/08

PROJECT: SR7/US441

SCALE: AS SHOWN



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG		CITY OF COCONUT CREEK		SHEET NO.	LD-50
74-45-200, Inc. 514-454-6644		MILLER LEGG PROJECT ID		LANDSCAPE / HARDSCAPE PLAN	
7 BROWARD		COUNTY		PROJECT NO.	
19		7		07-00239	

DATE: 02/08/08

PROJECT: SR7/US441

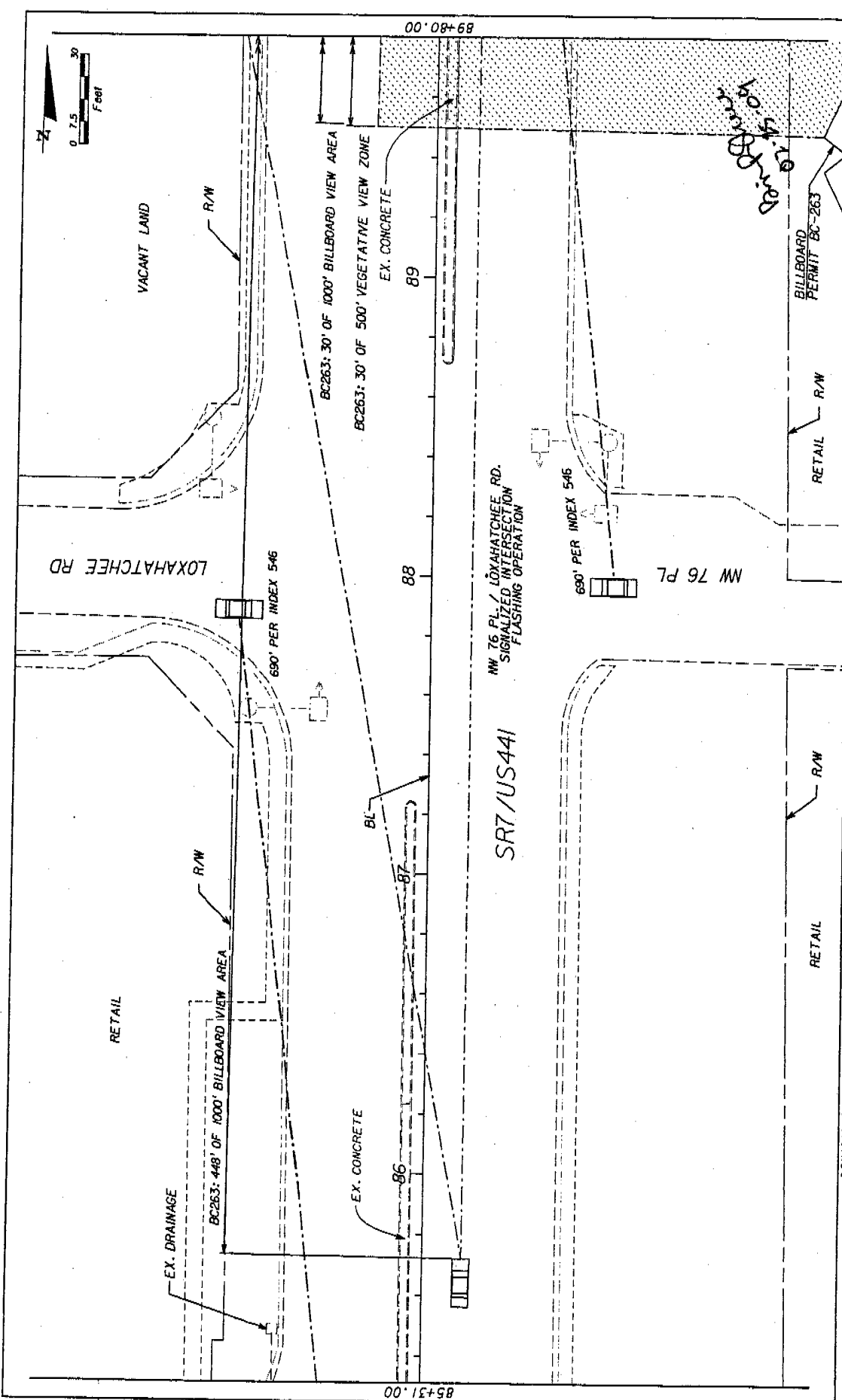
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PROJECT: 07-00239

DATE: 02/08/08

PROJECT: SR7/US441

SCALE: AS SHOWN



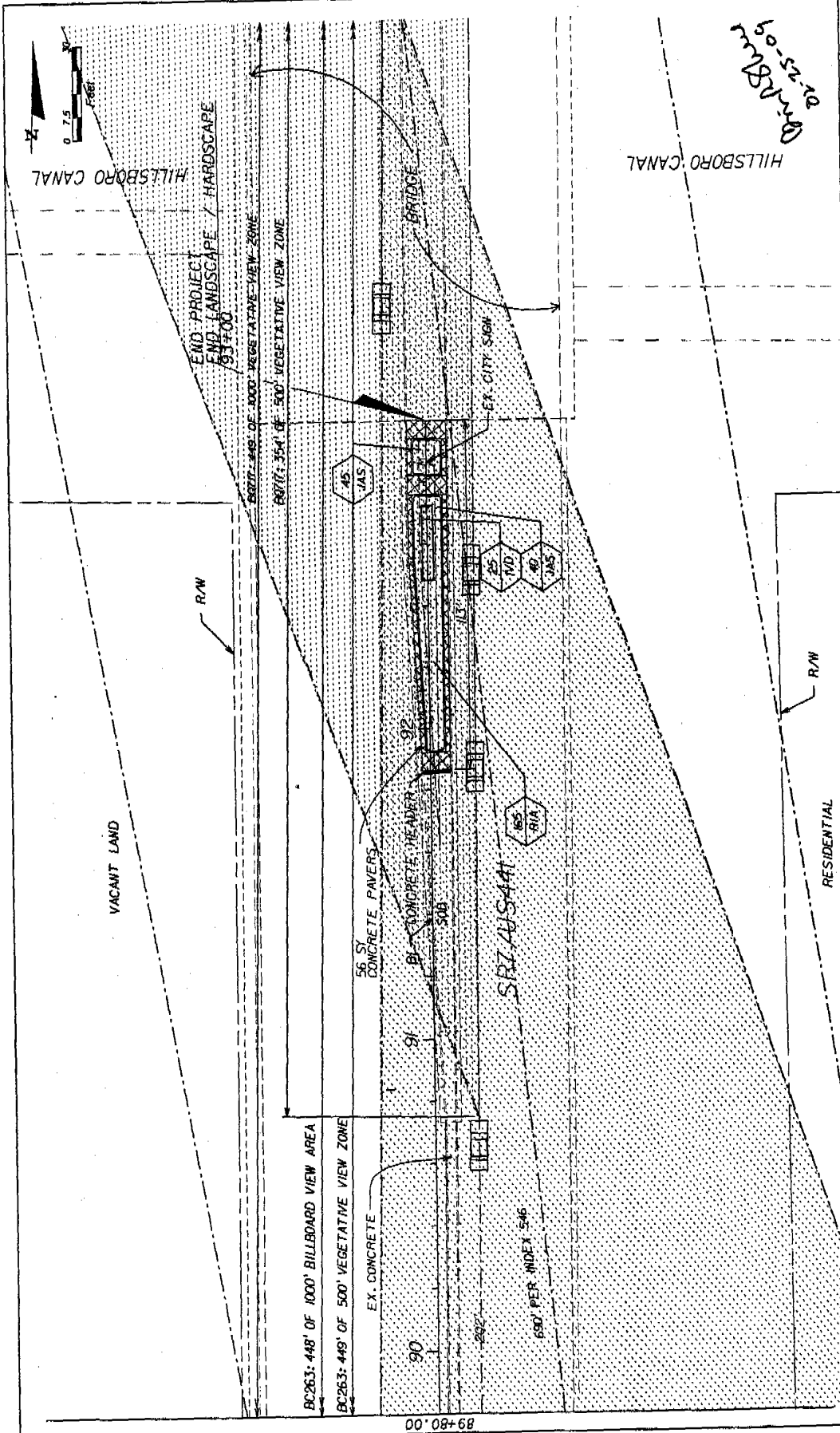
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MILLER LEGG
 1001 North Douglas Street, Suite 100, Pompano Beach, FL 33069
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CITY OF COCONUT CREEK
 ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239
 BILLBOARD PERMIT BC-263

SHEET NO. LD-51

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LANDSCAPE / HARDSCAPE PLAN



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D.M. Brown

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG		CITY OF COCONUT CREEK	
10000 N. Hayden Road, Suite 200, Phoenix, AZ 85028 602-954-1000 Fax: 602-954-8661 www.millerlegg.com Div. of Land, 11000000000, U.S. of Survey, 11/11/08/09		VALLEY LEIS PROJECT #	
7	BROWARD	07-00239	

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IRRIGATION GENERAL NOTES and SPECIFICATIONS

The system has been designed to conform with the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed according to all applicable laws, rules, regulations and conventions. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a **CERTIFIED IRRIGATION CONTRACTOR** by the Irrigation Association. The certification shall be current and in good standing.

THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to, the providing of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage leads to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain sensor. The rain sensor shall be installed to prevent activation of rain sensor by adjacent heads. All watering procedures shall conform to local codes, as well as this project's regional Water Management District restrictions and regulations. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item. These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix T and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition.

Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation Contractor shall repair or replace all items damaged by their work. Irrigation Contractor shall coordinate their work with other Contractors for the location and installation of pipe sleeves and laterals under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)

The P.O.C.'s are new Hoover Pumping Stations (Pump A Model HCF-10FD-230/3-A-E-16,M,W and Pump B Model HCF-10FD-230/3-A-E-12,M,W) utilizing proposed wells. Each P.O.C. must be capable of delivering a minimum of 80 GPM at 175 TDH. Contractor shall verify these minimum conditions can be met prior to the begin irrigation system installation.

If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the Contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PITE

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a 1/8"-24" away from either the back of curb, front of walk, back of walk, or other hardcape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project properties boundary.

Pipe sizes shall conform to those shown on the plans. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged / rejected pipe shall be removed from the site at the time of said rejection.

All pipes are to always be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, pavers, and walls, the pipes must be sleeved using High Density Polyethylene (HDPE) under existing roadways and sidewalks where directional bore is utilized and 50-40 PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

Mainline shall be Class 200 gasketed 1/2" mig PVC with Harco ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: slow-drying, heavy duty cement and bristled (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 271 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

ELECTRICAL POWER SUPPLY

Electrical supply and phone line for pumps and controllers to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, sets available power supplies for required electrical components as set forth in the irrigation plans.

All electrical to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for the controllers shall be 120 volts. Power for Pumps A & B shall be 208 volts Phase 3.

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tap and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DPR/DER connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sizes, numbered and colored as follows:

- #12 white for common
- #12 spare black common
- #14 red for hot wires
- #14 spare yellow hot wire

SPARE WIRES

Run spare wires into every RCV valve box. Install a minimum of 2 common and 4 hot wires, in all directions, to every RCV connected to its respective controller.

CONTROLLER GROUNDING

Contractor to utilize 4X2X5/8" copper grounding plates, 5/8X1/2" copper clad grounding rods, One Strike CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller location, and test results. Each controller shall be so grounded and tested.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to insure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Sprinkler heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Nozzles shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" 50# 40 PVC nozzles. The nozzles shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other landscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed within planted masses to be less visible and offer protection. Paint all shrub nozzles with flat black or forest green paint, unless irrigation system will be installed from a reuse water system with purple PVC nozzles.

*Wm. D. Davis
12-25-09*

DATE	BY	DESCRIPTION	REVISIONS

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CITY OF COCONUT CREEK	
ROAD NO.	MILLER LEGG PROJECT ID
7	07-00239
COUNTY	BRONXWAD

IRRIGATION NOTES	
SHEET NO.	LD-53

IRRIGATION GENERAL NOTES AND SPECIFICATIONS (CONTINUED)

Locate valves prior to excavation. Insure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

VALVES

Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

VALVE BOXES

Valve boxes shall be standard unless otherwise noted to be traffic rated boxes.

Using 3" high number stencils paint the valve number in white on the lid of each valve box.

EQUIPMENT

Bubblers shall be installed using Sch 80 nipples and shall be placed at the base of trees for low level watering.

All pop-up heads and shrub resets shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replace any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION

Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe set at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

BACK FILL

The Back fill 6" below and 6" above all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to the top of pipe shall be 36" minimum, including at vehicular crossings.

Lateral line depths measured to top of pipe shall be:
18" minimum for 3/4"-3" PVC with a 36" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 36" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2" on each side of every joint (ball fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving. TESTING. Remove all remote control valves and cap using a threaded cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. Gas-leaked piping shall lose no more water than allowed per the Florida State Building Code, Volume II Plumbing, Part VI, Appendix F. Refer to this section for the formula to be used to calculate the maximum allowable water loss during the testing time. If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be filled and visually checked for leaks. Any leaks detected must be repaired. No pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained and that the system works automatically from the controller. This demonstration requires that each zone is turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electronically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur, instead; calculate the required run times.

SUBMITTALS

The contractor must submit for approval, prior to installation, copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system.

Record Drawings - After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeve, and low voltage wiring. Each of these items is to be located using a submeter GPS system. The irrigation contractor must also provide accurate, informative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Include tools to service these products.
1. Sprinkler Units: Five of each unit for each type and size installed, but no fewer than two units.
2. Emitter Units: Five of each unit for each type and size installed, but no fewer than two units.
3. Drip Tube Units: Five of each unit for each type and size installed, but no fewer than two units.

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

- 1. Final walk-thru and correction of all punch list items.
- 2. Completion and acceptance of "as-built" drawings.
- 3. Acceptance of required controller charts and placement inside of controllers.
- 4. Turn over of all required parts and tools as outlined in the project specifications.

GUARANTEE

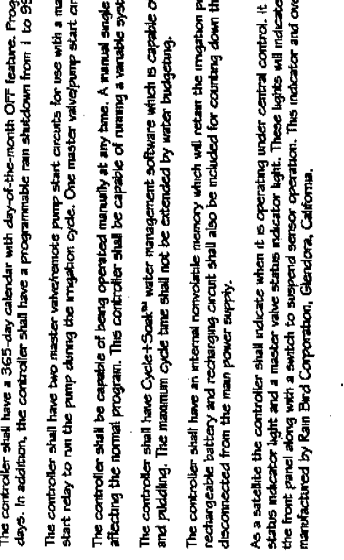
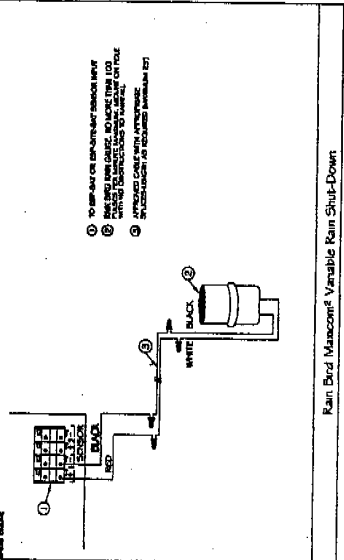
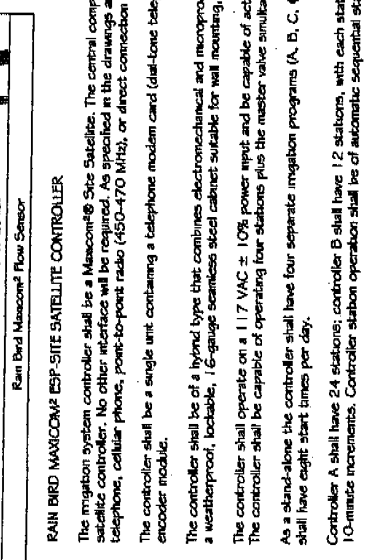
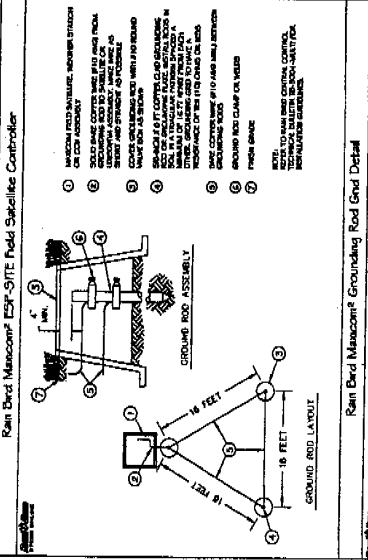
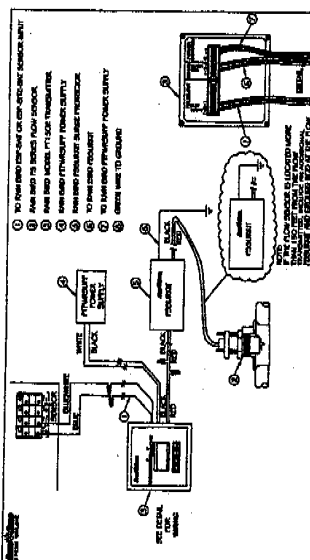
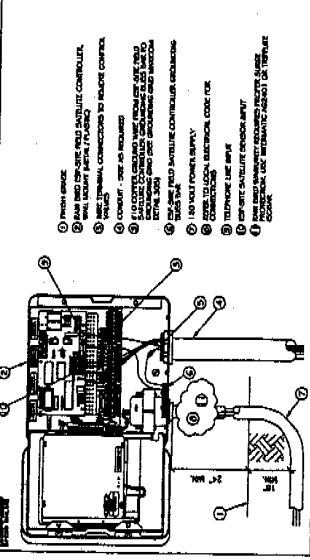
The irrigation systems shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

Handwritten signature and date: [Signature] 8/15/04

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

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 100 West Douglas Blvd. Suite 201, Pompano Beach, FL 33064
 954-781-7000 Fax: 954-781-8641 www.mlegg.com
 One of the MILLER LEGG Companies, Inc. 11466970

CITY OF COCONUT CREEK		PROJECT ID	07-00239
ROAD NO.	7	COUNTY	BROWARD
IRRIIGATION NOTES		SHEET NO.	LD-54



RAIN BIRD MASCOM2 ESP-SITE SATELLITE CONTROLLER

The irrigation system controller shall be a Mascom[®] Site Satellite. The central computer shall be able to send schedule instructions and receive logs of operation directly from the satellite controller. No other interface will be required. As specified in the drawings and associated documents, communication from the central computer shall be via standard dial-tone telephone, cellular phone, point-to-point radio (450-470 MHz), or direct connection serial cable as a communication link to the central computer.

The controller shall be a single unit containing a telephone modem card (dial-tone telephone or cellular telephone) and an RS-232 serial connection card (radio or direct connect), and the controller shall be of a hybrid type that combines electromechanical and microprocessor-based circuitry capable of fully automatic and manual operation. The controller will be housed in a weatherproof, lockable, 1/8-gauge seamless steel cabinet suitable for wall mounting, a plastic NEMA-4 rated wall mount cabinet, or free-standing stainless steel pedestal mounting.

The controller shall operate on a 117 VAC \pm 10% power input and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay. The controller shall be capable of operating four stations plus the master valve simultaneously. Controller output shall be protected against severe electrical surge.

As a stand-alone the controller shall have four separate irrigation programs (A, B, C, D) which can have different start times, watering days, day cycles, and station timing. Each program shall have eight start times per day.

Controller A shall have 24 stations; controller B shall have 12 stations, with each station capable of an operating time of 0 to 2 hours in one-minute increments and 2 to 12 hours in 10-minute increments. Controller station operation shall be of automatic sequential standing to avoid overlapping operation unless programmed to overlap.

The controller shall have a 365-day calendar with day-of-the-month OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles from 1 to 99 days. In addition, the controller shall have a programmable rain shutdown from 1 to 99 days.

The controller shall have two master valve/pump start circuits for use with a master valve to pressure the system when the irrigation cycle starts or to activate a remote pump start relay to run the pump during the irrigation cycle. One master valve/pump start circuit shall be programmable by station; the other shall function at all times.

The controller shall be capable of being operated manually at any time. A manual single station, a group of stations, or a program can be selected to run for the programmed time without affecting the normal program. The controller shall be capable of running a variable system test program without affecting the normal program.

The controller shall have Cycle-T-Save[®] water management software which is capable of operating each station for a maximum cycle time and a minimum soak time to reduce water run-off and plugging. The maximum cycle time shall not be extended by water bogging.

The controller shall have an internal nonvolatile memory which will retain the irrigation program and the programmed date and time for a minimum of 100 years without power. A 9 VDC rechargeable battery and recharging circuit shall also be included for counting down the program-in-progress during a power outage and shall allow programming of the controller when it is disconnected from the main power supply.

As a satellite the controller shall indicate when it is operating under central control. It shall also display which station and claim it is in operation at such time. There shall be a station status indicator light and a master valve status indicator light. These lights will indicate station operation and circuit integrity. An indicator for sensor-stand-alone status will be found on the front panel along with a switch to suspend sensor operation. This indicator and override will work with a sensor wired to the controller's sensor terminals. The controller shall be as manufactured by Rain Bird Corporation, Glendora, California.

RAIN BIRD MASCOM2 ESP-SITE SATELLITE CONTROLLER

The irrigation system controller shall be a Mascom[®] Site Satellite. The central computer shall be able to send schedule instructions and receive logs of operation directly from the satellite controller. No other interface will be required. As specified in the drawings and associated documents, communication from the central computer shall be via standard dial-tone telephone, cellular phone, point-to-point radio (450-470 MHz), or direct connection serial cable as a communication link to the central computer.

The controller shall be a single unit containing a telephone modem card (dial-tone telephone or cellular telephone) and an RS-232 serial connection card (radio or direct connect), and the controller shall be of a hybrid type that combines electromechanical and microprocessor-based circuitry capable of fully automatic and manual operation. The controller will be housed in a weatherproof, lockable, 1/8-gauge seamless steel cabinet suitable for wall mounting, a plastic NEMA-4 rated wall mount cabinet, or free-standing stainless steel pedestal mounting.

The controller shall operate on a 117 VAC \pm 10% power input and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay. The controller shall be capable of operating four stations plus the master valve simultaneously. Controller output shall be protected against severe electrical surge.

As a stand-alone the controller shall have four separate irrigation programs (A, B, C, D) which can have different start times, watering days, day cycles, and station timing. Each program shall have eight start times per day.

Controller A shall have 24 stations; controller B shall have 12 stations, with each station capable of an operating time of 0 to 2 hours in one-minute increments and 2 to 12 hours in 10-minute increments. Controller station operation shall be of automatic sequential standing to avoid overlapping operation unless programmed to overlap.

The controller shall have a 365-day calendar with day-of-the-month OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles from 1 to 99 days. In addition, the controller shall have a programmable rain shutdown from 1 to 99 days.

The controller shall have two master valve/pump start circuits for use with a master valve to pressure the system when the irrigation cycle starts or to activate a remote pump start relay to run the pump during the irrigation cycle. One master valve/pump start circuit shall be programmable by station; the other shall function at all times.

The controller shall be capable of being operated manually at any time. A manual single station, a group of stations, or a program can be selected to run for the programmed time without affecting the normal program. The controller shall be capable of running a variable system test program without affecting the normal program.

The controller shall have Cycle-T-Save[®] water management software which is capable of operating each station for a maximum cycle time and a minimum soak time to reduce water run-off and plugging.

The controller shall have an internal nonvolatile memory which will retain the irrigation program and the programmed date and time for a minimum of 100 years without power. A 9 VDC rechargeable battery and recharging circuit shall also be included for counting down the program-in-progress during a power outage and shall allow programming of the controller when it is disconnected from the main power supply.

As a satellite the controller shall indicate when it is operating under central control. It shall also display which station and claim it is in operation at such time. There shall be a station status indicator light and a master valve status indicator light. These lights will indicate station operation and circuit integrity. An indicator for sensor-stand-alone status will be found on the front panel along with a switch to suspend sensor operation. This indicator and override will work with a sensor wired to the controller's sensor terminals. The controller shall be as manufactured by Rain Bird Corporation, Glendora, California.

Mr. G. J. ...

MILLER LEGG 1000 North ... 554-08-7000 Fax 554-45-8561 www.millerlegg.com Div. of Miller Electric Mfg. Co. (Formerly Miller Electric Mfg. Co.)		CITY OF COCONUT CREEK WILEY LEIS PROJECT ID ROAD NO. 7 BROWARD 07-00239	SHEET NO. LD-55
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

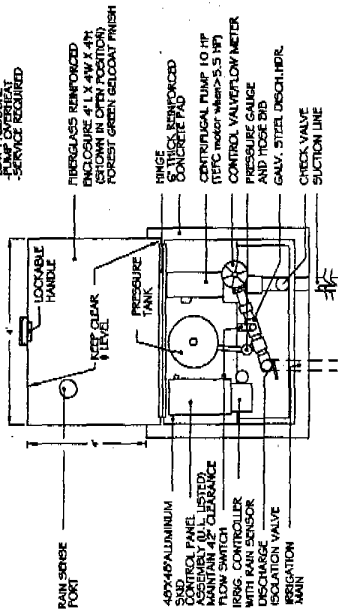
IRRIGATION NOTES & DETAILS

NOTE: SUCTION PIPE AND FITTINGS SHALL BE HOTTE HEAT TREATED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL PIPE GALVANIZED OR GALVANNEED FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF COMPLETING THE WELL IF THE WELL PUMPING ACTION IS GREATER THAN 10" BELOW FINISHED GRADE AFTER 6 HOURS OF CONTINUOUS PUMPING AT 125% OF THE DESIGN FLOW BELOW.

- * OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
- X PRESSURE CONTROL VALVE
- X IRRIGATION CONTROLLER RAIN BIRD ESP-16SIT-W-16 STATIONS, WITH RAIN SENSOR
- X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
- PRESSURE DEMAND
- TRANSIENT SURGE
- LOW PRESSURE
- LOW FLOW
- SERVICE REQUIRED



HOOPER PUMPING MODEL: HCF-10FD-2305-AE-16.M.W
Pompano Beach, Florida, Tel: 954-971-7350

FILE: PMP9654.DWG 11/07

FDOT SR7 COCONUT CREEK PUMP A CENTRIFUGAL PUMP SYSTEM DETAIL

FIBERGLASS ENCLOSED SINGLE WELL SUCTION PRESSURE DEMAND

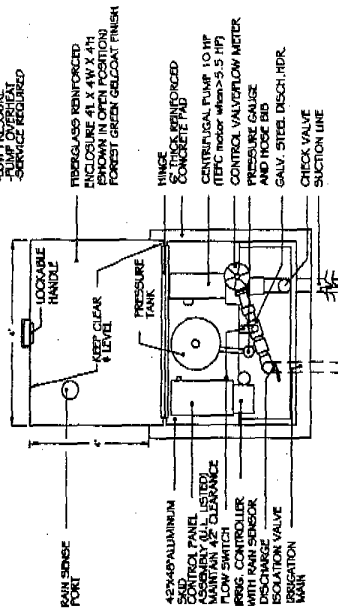
Hoover Pumping Station: Pump A - STA 37+64.17

NOTE: SUCTION PIPE AND FITTINGS SHALL BE HOTTE HEAT TREATED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL PIPE GALVANIZED OR GALVANNEED FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF COMPLETING THE WELL IF THE WELL PUMPING ACTION IS GREATER THAN 10" BELOW FINISHED GRADE AFTER 6 HOURS OF CONTINUOUS PUMPING AT 125% OF THE DESIGN FLOW BELOW.

- * OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
- X PRESSURE CONTROL VALVE
- X IRRIGATION CONTROLLER RAIN BIRD ESP-16SIT-W-12 STATIONS, WITH RAIN SENSOR
- X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
- PRESSURE DEMAND
- TRANSIENT SURGE
- LOW PRESSURE
- LOW FLOW
- SERVICE REQUIRED



HOOPER PUMPING MODEL: HCF-10FD-2305-AE-12.M.W
Pompano Beach, Florida, Tel: 954-971-7350

FILE: PMP9555.DWG 11/07

FDOT SR7 COCONUT CREEK PUMP B CENTRIFUGAL PUMP SYSTEM DETAIL

FIBERGLASS ENCLOSED SINGLE WELL SUCTION PRESSURE DEMAND

Hoover Pumping Station: Pump B - STA 80+61.32

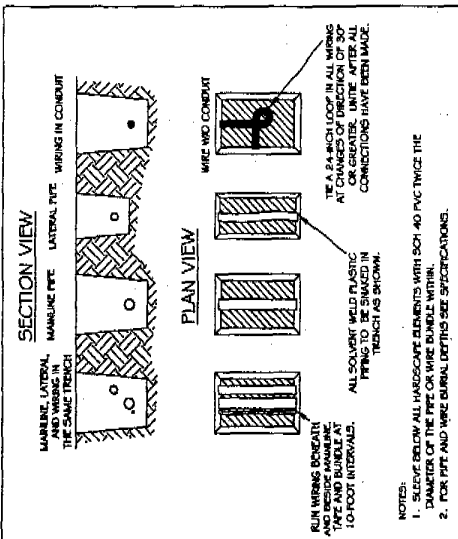
DATE	BY	REVISION	DATE	DESCRIPTION

MILLER LEGG
 1000 W. 10th Street, Pompano Beach, FL 33061
 (954) 971-7350
 Fax: (954) 971-7350
 Co. of Inc. 11/07/05 - J.L. Brennan, Brian S. Smith, L.A. Miller

CITY OF COCONUT CREEK	WELLER LEIS PROJECT ID
7	07-00239
BROWARD	

SHEET NO.	LD-56
IRRIGATION DETAILS	

Handwritten note: being checked



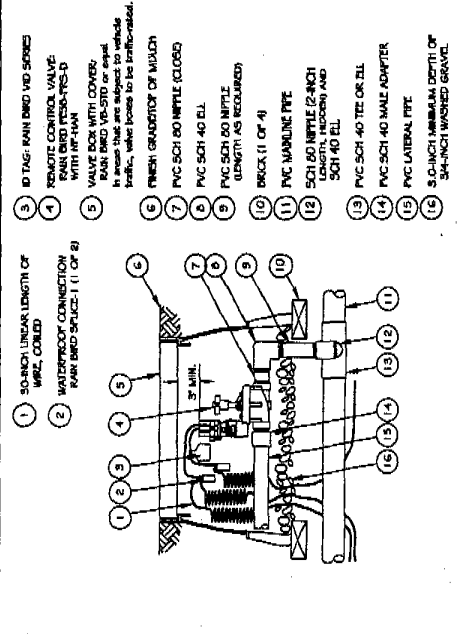
Pipe and Wire Trenching

ELECTRICAL SPECIFICATIONS

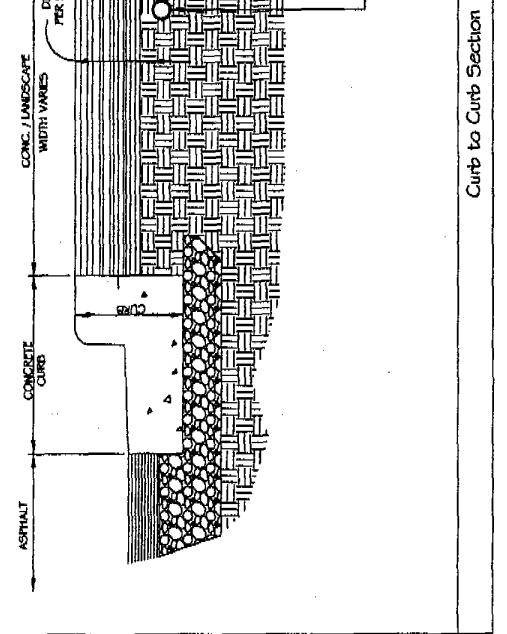
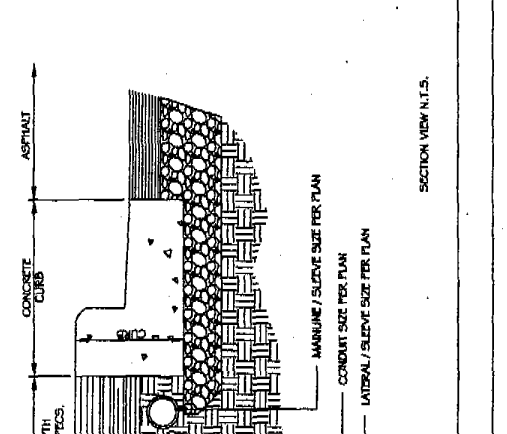
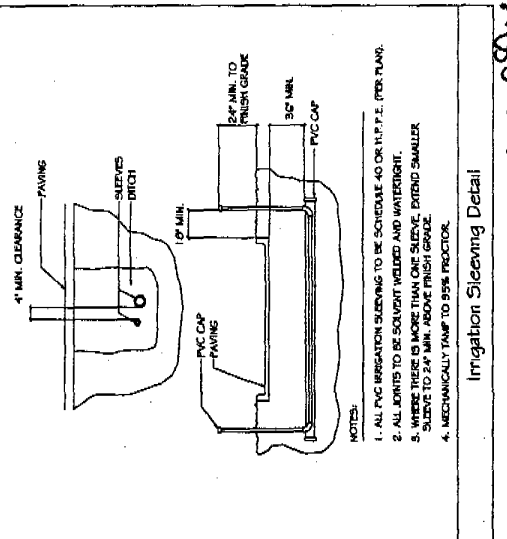
- 24 VAC 50/60 Hz (CYCLES/SEC.) SOLENOID INRUSH CURRENT: 0.41 A (9.24 VA) AT 60 Hz
- HOLDING CURRENT: 0.26 A (6.72 VA) AT 60 Hz
- COIL RESISTANCE: 30-39 OHMS

FEBS SERIES VALVE	150-FEB PSI LOSS	200-FEB PSI LOSS
FLOW GPM		
5	1.7	
10	1.8	
20	2.9	
30	5.6	3.6
40	3.5	3.6
50	3.6	
75	5.4	4.5
100		5.2
125		8.2

Rain Bird FEB-PRS-D Remote Control Valve



Curb to Curb Section



NOTES:

- ALL PVC IRRIGATION SLEEVING TO BE SCHEDULE 40 OR H.P.F.E. (PER PLAN).
- ALL JOINTS TO BE SOLVENT WELDED AND WATER TIGHT.
- WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND SMALLER SLEEVE TO 24\"/>
- MECHANICALLY TAMP TO 95% PROCTOR.

REVISIONS

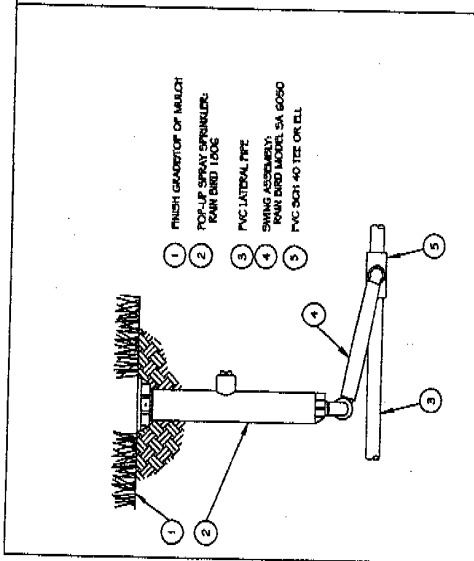
DATE	BY	DESCRIPTION

MILLER LEGG
 4801 North Douglas Blvd., Suite 207, Truckee, Nevada, 89413
 775-445-1800 • Fax: 775-445-1801 • www.millerlegg.com
 On Call 24 Hours: 1-800-855-1234 • E-Mail: Sales@MillerLegg.com

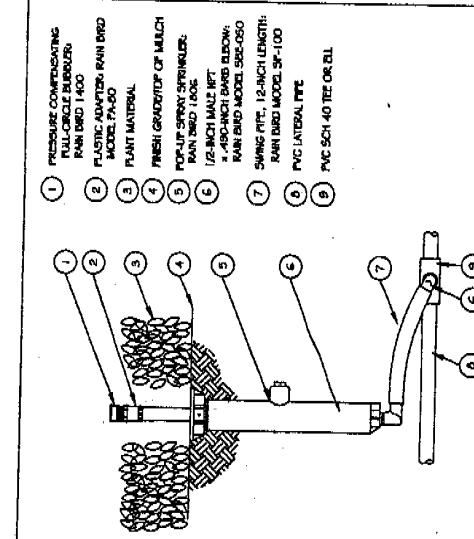
CITY OF COCONUT CREEK
 ROAD NO. 7 COUNTY BROWARD PROJECT ID 07-00239

IRRIGATION DETAILS

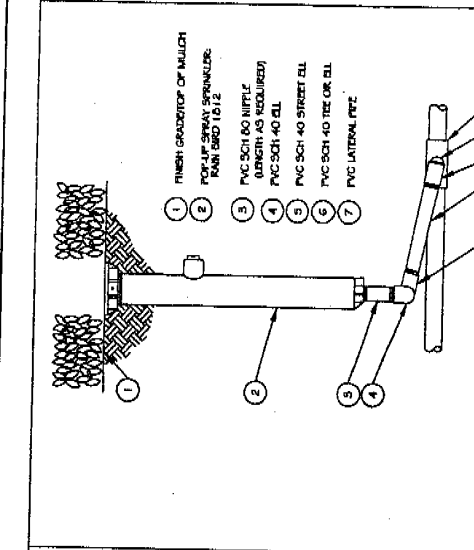
SHEET NO. LD-57



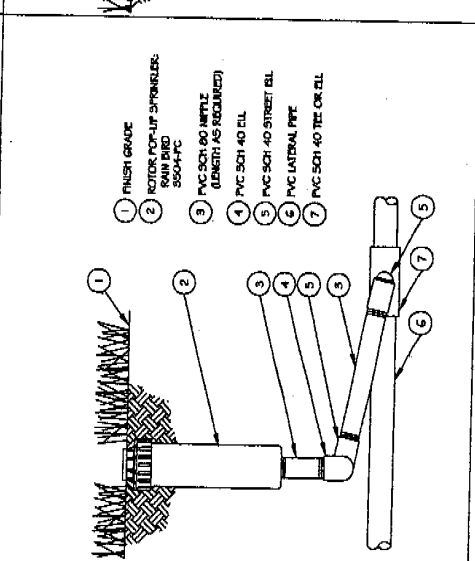
Rain Bird 1806-SAM-PRS-NP Pop-up Spray



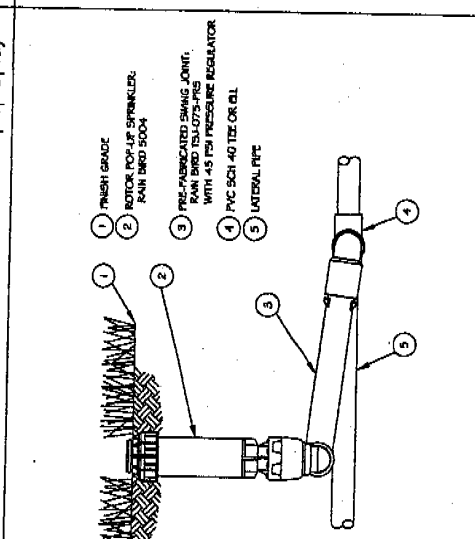
Rain Bird 1806-SAM-PRS-1400 Flood Pop-up Spray



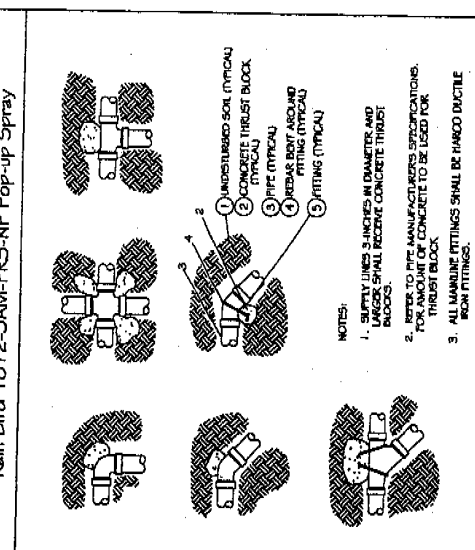
Rain Bird 1812-SAM-PRS-NP Pop-up Spray



Rain Bird 3504-PC-SAM-NP Rotor



Rain Bird 5004-MFR-SAM-NP Rotor



Thrust Block Details

- NOTES:
1. SUFFLY LINES 3 INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
 2. REFER TO PTFE MANUFACTURERS SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.
 3. ALL WELDING FITTINGS SHALL BE HAWK DUCTILE BSN FITTINGS.

Rev. 01/25/09

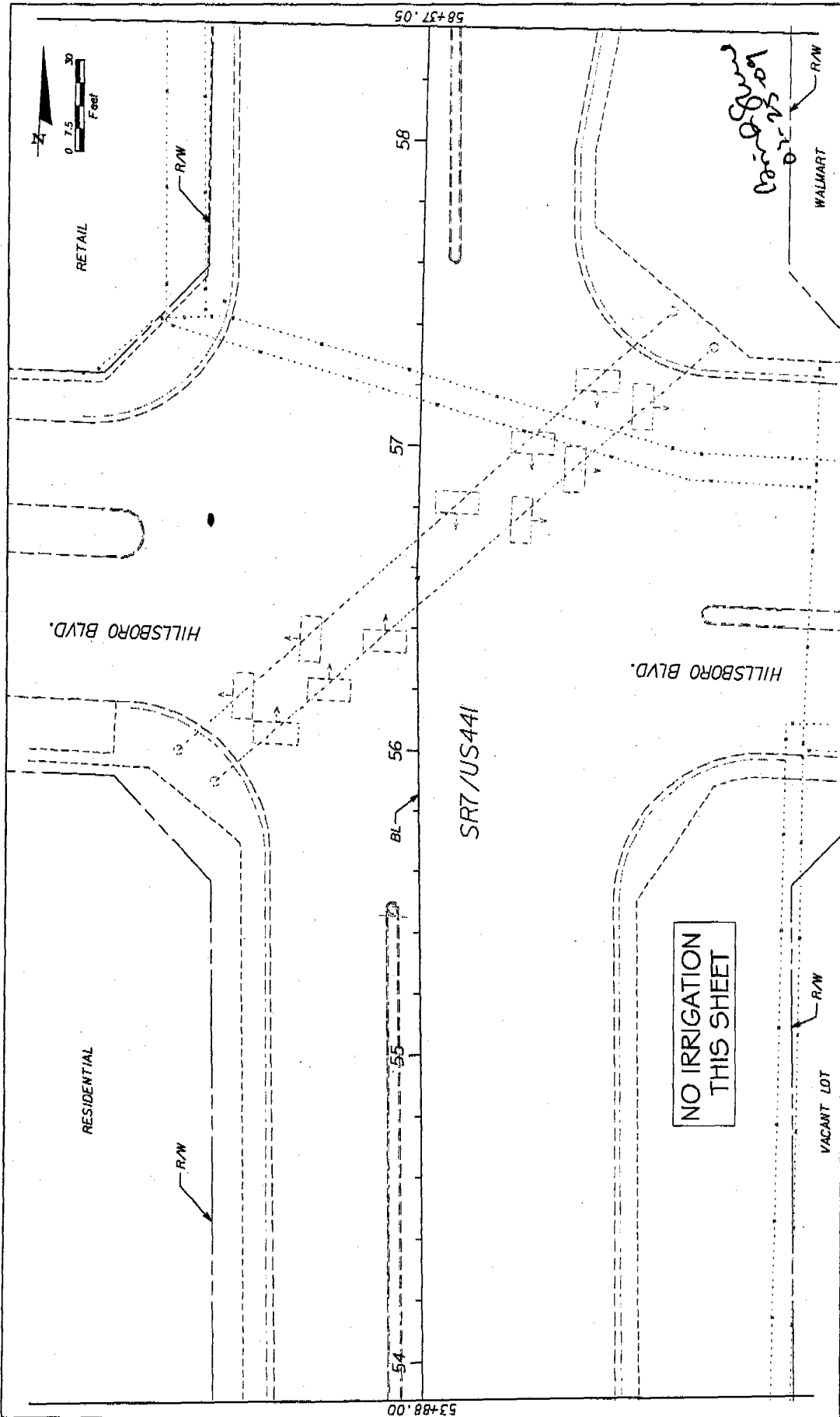
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG
 800 North Orange Ave., Suite 200, Orlando, Florida, 32801
 P.O. Box 200, Inc. 204-436-5651, www.millerlegg.com
 One of the LEADING U.S. Irrigation Manufacturers

CITY OF COCONUT CREEK
 ROAD NO. 7
 COUNTY BROWARD
 MILLER LEGG PROJECT ID: 07-00239

IRRIGATION DETAILS

SHEET NO. LD-58



DATE		REVISIONS	CITY OF COCONUT CREEK		SHEET NO.	
1		DESCRIPTION	7	CITY	07-00239	LD-71
			7	BROWARD		
			MILLER LEGG		IRRIGATION PLAN	
			<small>Professional Engineer No. 20,000, State of Florida, 1984 1440 N.W. 11th St., Ft. Lauderdale, FL 33304 Tel. (305) 555-1111, Fax (305) 555-1112</small>		<small>City of Coconut Creek, 07-00239 City of Broward, 07-00239</small>	

53+88.00 54 55 56 57 58 58+37.05

RESIDENTIAL

HILLSBORO BLVD.

SR7/US441

WALKMART

RETAIL

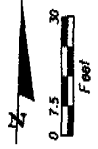
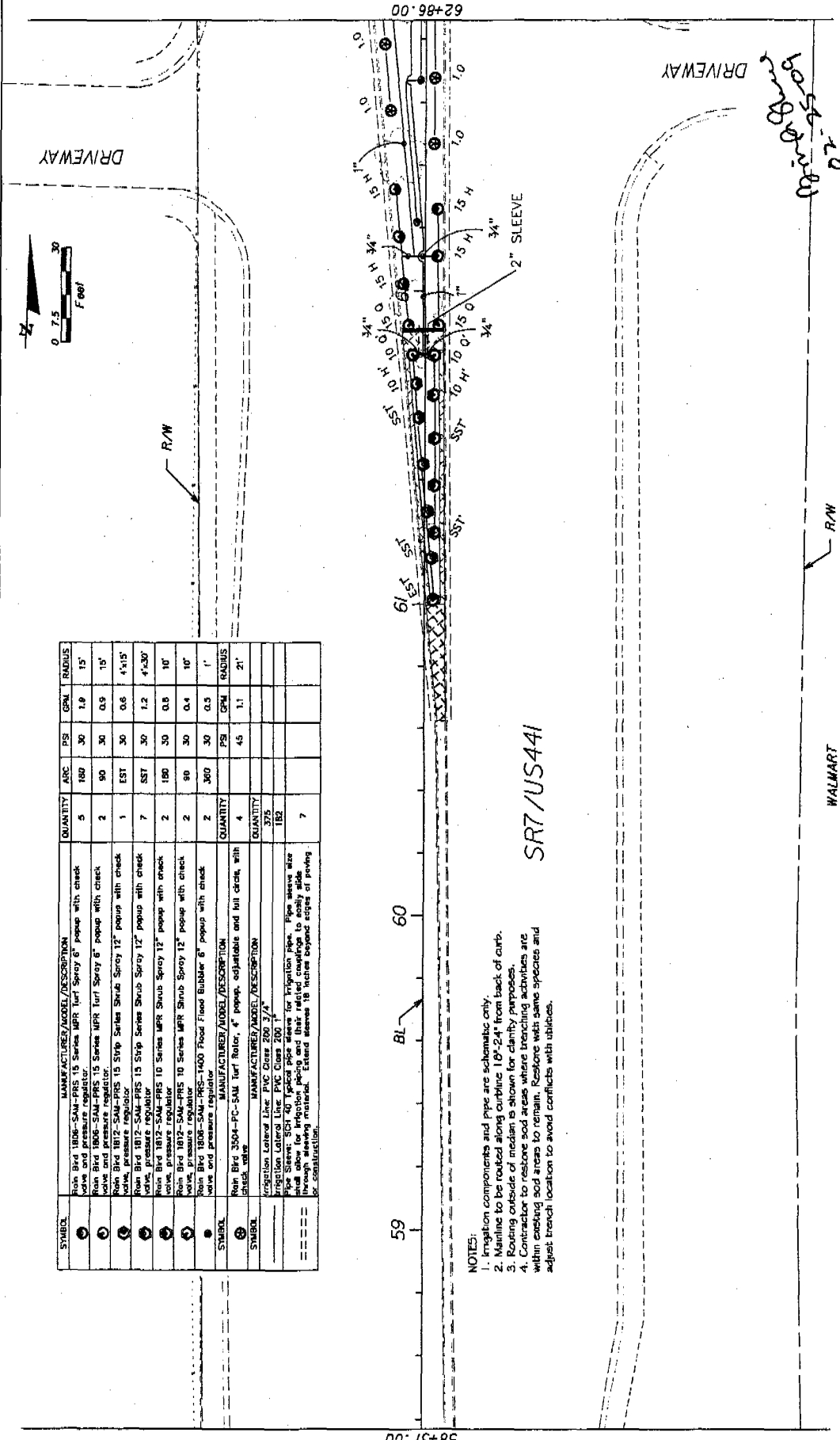
VACANT LOT

NO IRRIGATION THIS SHEET

Paint Square 0-1-13-01

0 7.5 30 Feet

8/28/2008 8:28:49 AM



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	ORL	RADIUS
①	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	5	180	30	1.0	15'
②	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	90	30	0.9	15'
③	Rain Bird 1812-SAM-PRS 15 Series Strip Series Strub Spray 12" pop-up with check valve, pressure regulator.	1	EST	30	0.6	4x15'
④	Rain Bird 1812-SAM-PRS 15 Series Strip Series Strub Spray 12" pop-up with check valve, pressure regulator.	7	SST	30	1.2	4x30'
⑤	Rain Bird 1812-SAM-PRS 10 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	2	180	30	0.8	10'
⑥	Rain Bird 1806-SAM-PRS 10 Series MPR Strub Spray 12" pop-up with check valve, pressure regulator.	2	90	30	0.4	10'
⑦	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" pop-up with check valve and pressure regulator.	2	360	30	0.5	1'
⑧	Rain Bird 3504-PC-SAM Turf Rotar, 4" pop-up, adjustable and full crank, with check valve.	4		45	1.1	21'
⑨	Irrigation Lateral Line: PVC Class 200, 3/4"	375				
⑩	Pipe Sleeve: SCH 40 typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide over existing material. Lateral sleeves to insure proper slope of piping for construction.	182				
⑪		7				

- NOTES:
- Irrigation components and pipe are schematic only.
 - Mainline to be routed along outline 10'-24" from back of curb.
 - Routing outside of median is shown for clarity purposes.
 - Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

SRT/US441

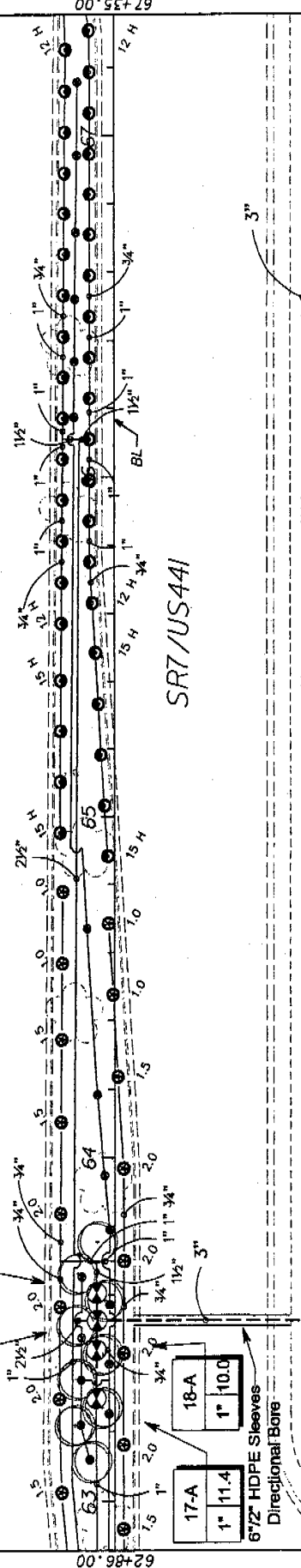
Handwritten note: 07-21-2008

DATE		REVISIONS		DESCRIPTION	
 MILLER LEGG IRRIGATION SYSTEMS, INC. 5040 13th Street, Suite 100 Co. of Lake Umbagog, Lake Umbagog, Vermont 05745			CITY OF COCONUT CREEK ROAD NO. COUNTY 7 BROWARD 07-00239		
IRRIGATION PLAN			SHEET NO. LD-72		

GAS STATION

- NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbside 19'-2.41' from back of curb.
 3. Resting outside of median is shown for clarity purposes.
 4. Contractor to restore soil areas where trenching activities are within existing road areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

SYMBOL	MANUFACTURE/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	DPI	RADIUS
⊙	Rain Bird 1806-SAM-PRS 1/2 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	30	180	30	1.3	17'
⊙	Rain Bird 1806-SAM-PRS 1/2 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	9	180	30	1.9	15'
⊙	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubblers 6" pop-up with check valve and pressure regulator.	18	360	30	0.5	1'
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve.	4		45	1.1	21'
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve.	5		45	1.5	24'
⊙	Rain Bird 3504-PC-SAM Turf Rotor, 4" pop-up, adjustable and full circle, with check valve.	7		45	1.9	27'
⊙	Rain Bird PEB-PRS-0 1" Electric Remote Control Valve with Pressure Regulator.	2				
⊙	Rain Bird PEB-PRS-0 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2				
⊙	Irrigation Lateral Line: PVC Dimes 200 3/4"	1220				
⊙	Irrigation Lateral Line: PVC Dimes 200 1"	261				
⊙	Irrigation Lateral Line: PVC Dimes 200 1 1/2"	19				
⊙	Irrigation Mainline: PVC Dimes 200 2 1/2"	265				
⊙	Irrigation Mainline: PVC Dimes 200 3"	475				
⊙	6" HDPE Directional Bore	47				



Handwritten note: 6" HDPE Directional Bore

DATE		DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
<p style="text-align: center;">MILLER LEGG 180 North Douglas Blvd. Suite 200 - Anaheim, CA 92804 714-938-7800 - Fax: 714-938-8800 - www.mlegg.com Div. of Miller Electric Mfg. Co. - P.O. Box 114 - Appleton, WI 54912</p>						
CITY OF COCONUT CREEK			MILLER LEGG PROJECT ID			
BROWARD COUNTY			07-00239			
7 BROWARD			DATE: 06/25/2008			
BROWARD COUNTY PARK			SHEET NO. LD-73			
IRRIGATION PLAN			DATE: 06/25/2008			



- NOTES:**
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 18'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restores with same species and adjust trench location to avoid conflicts with utilities.

ELECTRICAL / PHONE CONNECTION:

1. Florida Power and Light and AT&T connection location to be determined.
2. Contractor to provide 200 VAC Phase 3 power, coordination with F.P.L., all necessary wire, conduit and hand hole box to meter source.

RETAIN

R/W

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊙	Rain Bird 1804-SAM-PRS-15 Strip Series Turf Spray 8" pop-up with check valve and pressure regulator.	1	EST	30	0.8	4" x 15"
⊙	Rain Bird 1804-SAM-PRS-10 Series MPR Turf Spray 6" pop-up with check valve and pressure regulator.	2	180	30	0.5	10'
⊙	Rain Bird 1804-SAM-PRS-1400 Flood Flood Bubbler 6" pop-up with check valve and pressure regulator.	17	360	30	0.5	1'
⊙	MANUFACTURER/MODEL/DESCRIPTION					
⊙	Rain Bird 3504-PC-SAM Turf Tower, 4" pop-up, adjustable and full circle, with check valve.	38		45	1.1	21'
⊙	MANUFACTURER/MODEL/DESCRIPTION					
⊙	Rain Bird FEB-PRS-0 1" Electric Remote Control Valve with Pressure Regulator.	1				
⊙	Rain Bird FEB-PRS-0 1-1/2" Electric Remote Control Valve with Pressure Regulator.	1				
⊙	Nibco P-619-1w Coated and 1/2" Ring Coat Iron Gate Valve (See Shop) in a Carson 1419 Valve Box.	2				
⊙	Hoover Pumping Station Model: HCF-1090-230/5-AE-12.0LW	1				
⊙	Rain Bird ESP-125AT Satellite Controller - 12 Stations	1				
⊙	Rain Bird Maxcom Rain Gauge	1				
⊙	Irrigation Lateral Line: PVC Class 200 3/4"	1108				
⊙	Irrigation Lateral Line: PVC Class 200 1"	102				
⊙	Irrigation Lateral Line: PVC Class 200 1 1/4"	110				
⊙	Irrigation Lateral Line: PVC Class 200 2"	563				
⊙	Inspection Manhole: 18" Dia. 36" High for irrigation pipe. Pipe sleeve also shall allow for irrigation piping and their related couplings to easily slide through sleeve material. Extend sleeves 18 inches beyond edge of paving for construction.	47				

2 1/2" Conduits Directional Bore

Hoover Pumping Station "B"

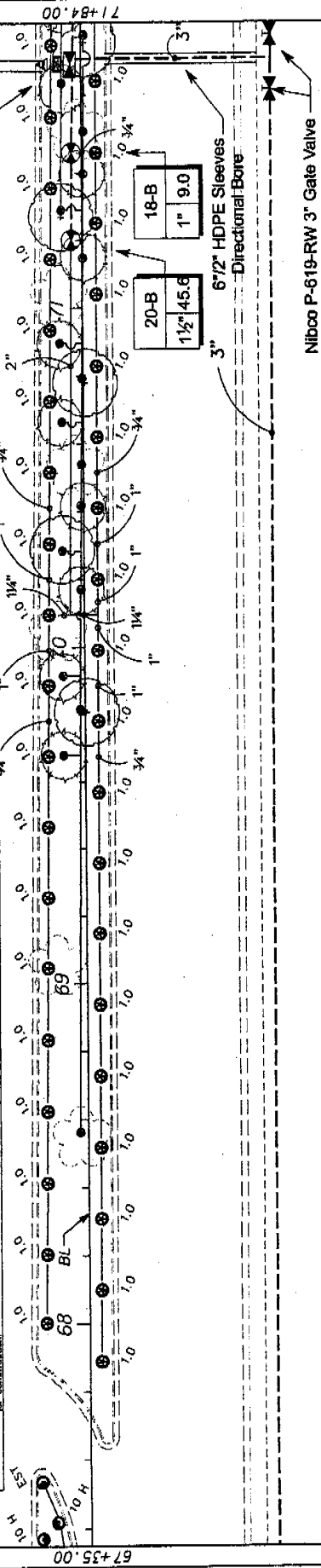
18-B 1" 9.0

20-B 1 1/2" 45.6

3" 6 1/2" HDPE Sleeves Directional Bore

Nibco P-619-RW 3" Gate Valve

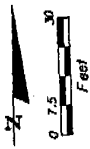
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67+35.00

BROWARD COUNTY PARK R/W

SHEET NO. LD-74	
CITY OF COCONUT CREEK IRRIGATION PLAN	
ROAD NO. 7	COUNTY BROWARD
PROJECT ID 07-002319	DATE 07-002319
MILLER LEGG 1801 North Loop West, Suite 200, Fort Lauderdale, FL 33304 954-587-3000, Fax 954-587-3001, www.millerlegg.com Div. of AEC/CONSTRUCTION, L.A. of Broward, Suite 2, Suite 11, 660779	
DATE	DESCRIPTION
REVISIONS	DATE
BY	DESCRIPTION

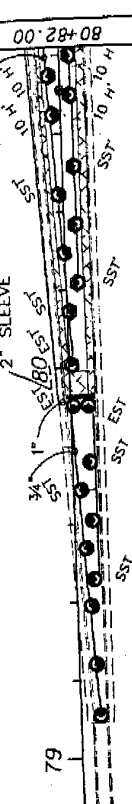


RETAIL

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GRM	RADIUS
①	Peak Bld 1806-SAM-PRS 15 Slip Series Turf Spray 6" pop-up with check valve and pressure regulator.	3	EST	30	0.6	4'x15'
②	Peak Bld 1806-SAM-PRS 15 Slip Series Turf Spray 8" pop-up with check valve and pressure regulator.	10	SST	30	1.2	4'x30'
③	Peak Bld 1812-SAM-PRS 15 Slip Series Sprink Spray 12" pop-up with check valve, pressure regulator.	1	EST	30	0.8	4'x15'
④	Peak Bld 1812-SAM-PRS 15 Slip Series Sprink Spray 12" pop-up with check valve, pressure regulator.	6	SST	30	1.2	4'x30'
⑤	Peak Bld 1812-SAM-PRS 10 Series MPT Sprink Spray 12" pop-up with check valve, pressure regulator.	4	180	30	0.8	10'
⑥	Peak Bld 1806-SAM-PRS 15 Slip Series Turf Spray 6" pop-up with check valve and pressure regulator.	1	360	30	0.5	1'
●	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Injection Lateral Line PVC Dams 200 3/4"	283				
	Injection Lateral Line PVC Dams 200 3/4"	44				
	Injection Lateral Line PVC Dams 200 3/4"	81				
	Injection Lateral Line PVC Dams 200 3/4"	7				

MECCA BLVD.

EX. DRAINAGE



SR7/US441

6 1/2" HDPE Sleeves
Directional Bore

NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along outline 18'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore road areas where trenching activities are within existing road areas to remain. Restore with same species and adjuat trench location to avoid conflicts with utilities.

Handwritten note: 02.25.09
B. J. B...

CITY OF COCONUT CREEK

ROAD NO. 7

PROJECT ID: 07-000239

DATE: 07/29/2008

IRRIGATION PLAN

SHEET NO. 1D-76

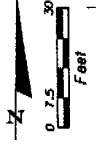
DATE: 07/29/2008

MILLER LEGG

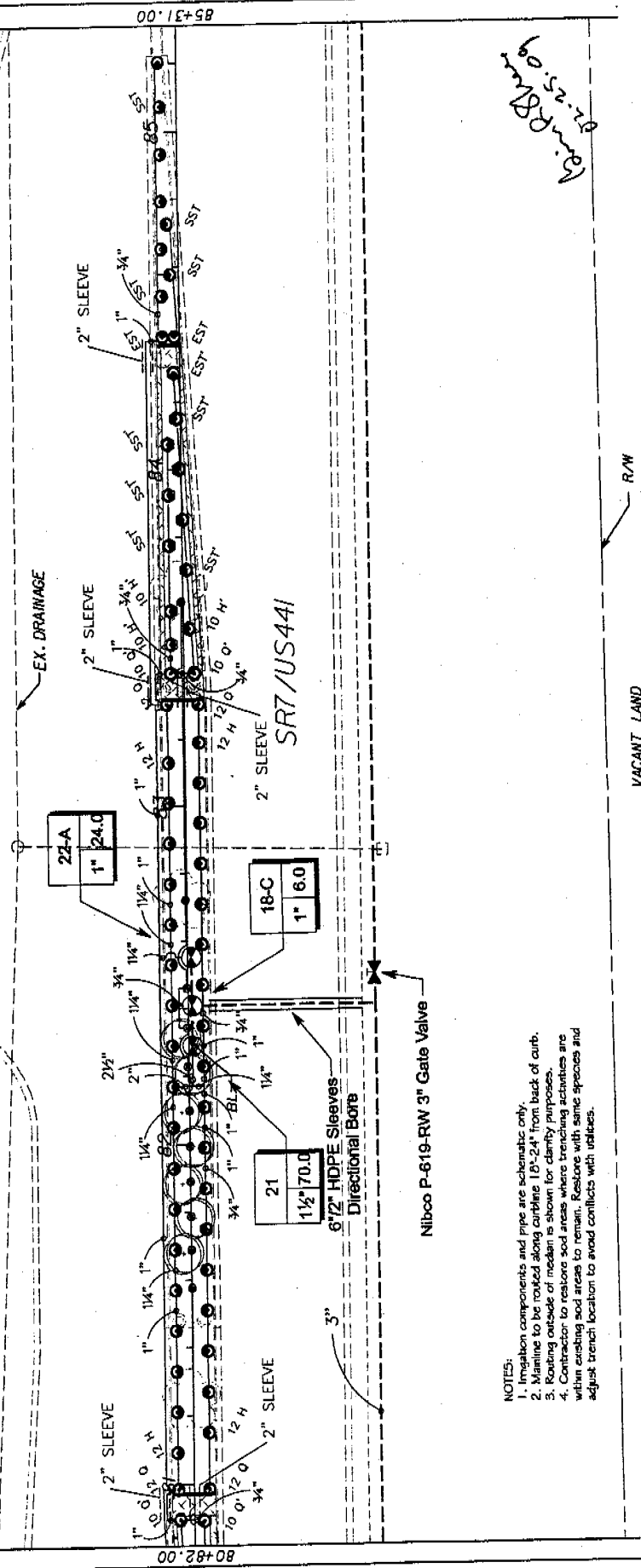
1000 North Douglas Road, Suite 200, Chandler, AZ 85226
 480-981-8800 Fax: 480-981-8801
 Dr. E. B. LEGG, P.E., License No. 13,546

BROWARD COUNTY PARK

DATE: 07/29/2008



SYMBOL	MANUFACTURE/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GPM	RADIUS	SYMBOL	MANUFACTURE/MODEL/DESCRIPTION	QUANTITY
1	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	2	EST	30	0.6	4'x15"	1	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	2
2	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	8	SST	30	1.2	4'x30"	2	Electric Remote Control Valve with Pressure Regulator.	1
3	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	36	180	30	1.3	12'	3	Electric Remote Control Valve with Pressure Regulator.	1
4	Rain Bird 1812-SAM-PRS 12 Series MPR Turf Spray 12" pop up with check valve, pressure regulator.	4	90	30	0.7	12'	4	Nibco P-619-rs Generated 6" Ring Cast Iron Gate Valve (the Stop) in a Regulator.	1
5	Rain Bird 1812-SAM-PRS 12 Series MPR Turf Spray 12" pop up with check valve, pressure regulator.	1	EST	30	0.6	4'x15"	5	Transition Lateral Line: PVC Class 200 1 1/4"	8
6	Rain Bird 1812-SAM-PRS 12 Series MPR Turf Spray 12" pop up with check valve, pressure regulator.	7	SST	30	1.2	4'x30"	6	Transition Lateral Line: PVC Class 200 2"	8
7	Rain Bird 1812-SAM-PRS 12 Series MPR Turf Spray 12" pop up with check valve, pressure regulator.	3	180	30	0.8	10'	7	Transition Lateral Line: PVC Class 200 3"	11
8	Rain Bird 1812-SAM-PRS 12 Series MPR Turf Spray 12" pop up with check valve, pressure regulator.	4	90	30	0.4	10'	8	Transition Lateral Line: PVC Class 200 3"	531
9	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	4	90	30	0.4	10'	9	Transition Lateral Line: PVC Class 200 3"	47
10	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" pop up with check valve and pressure regulator.	11	360	30	0.5	1'	10	3" 40' typical pipe with 1/2" HDPE sleeves for irrigation pipe. Pipe sleeves are installed along the entire length of the mainline. Extend sleeves 18 inches beyond edges of pointing or construction.	50



Handwritten note: 0.5-5.0 ft. R/W

- NOTES:**
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbline 18"-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

VACANT LAND

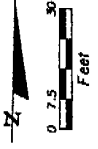
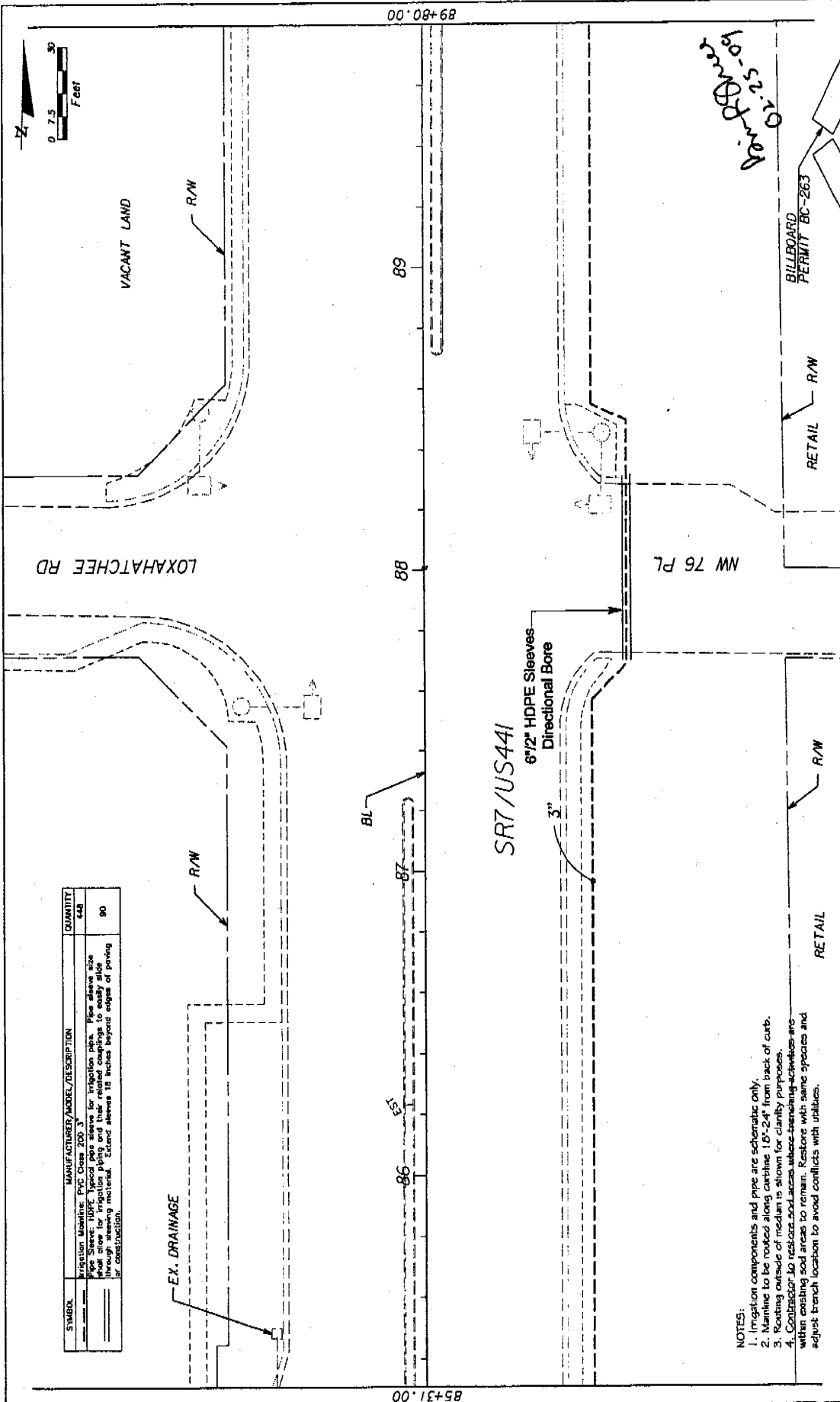
R/W

DATE	REVISION	DATE	DESCRIPTION

MILLER LEGG
1800 Northridge Blvd., Suite 100, Irvine, CA 92614
 P.O. Box 110000, Los Angeles, CA 90011

CITY OF COCONUT CREEK
PROJECT NO. 07-00239
 BROWARD COUNTY

SHEET NO. LD-77



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Irrigation Mastic: PVC Cores 200 3"	448
	6\"/>	

NOTES:
 1. Irrigation components and pipe are schematic only.
 2. Manning to be marked along curbside 10'-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS		CITY OF COCONUT CREEK		SHEET NO.	
DATE	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT ID	NO.
		7	BROWARD	07-00239	LD-78

MILLER LEGG
 200 North Douglas Road, Suite 200, Pompano Beach, FL 33064
 954-65-3001 Fax: 954-65-8861 www.millerlegg.com
 City of Palm Beach Gardens, L.L.C. of Broward, Palm Beach, and St. Johns Counties

IRRIGATION PLAN

Handwritten: Permit 07-00239

BILLBOARD PERMIT BC-263

RETAIL R/W

RETAIL R/W

89+00.00

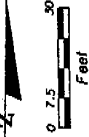
88

87

86

85+31.00

10/29/2008 10:29:20 AM C:\BROW\107-00239-01\DWG\Irrigation_Plan_V0102000.dwg



HILLSBORO CANAL

- NOTES:
1. Irrigation components and pipe are schematic only.
 2. Mainline to be routed along curbside, 18"-24" from back of curb.
 3. Routing outside of median is shown for clarity purposes.
 4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

R/W

END PROJECT
END IRRIGATION
93+00

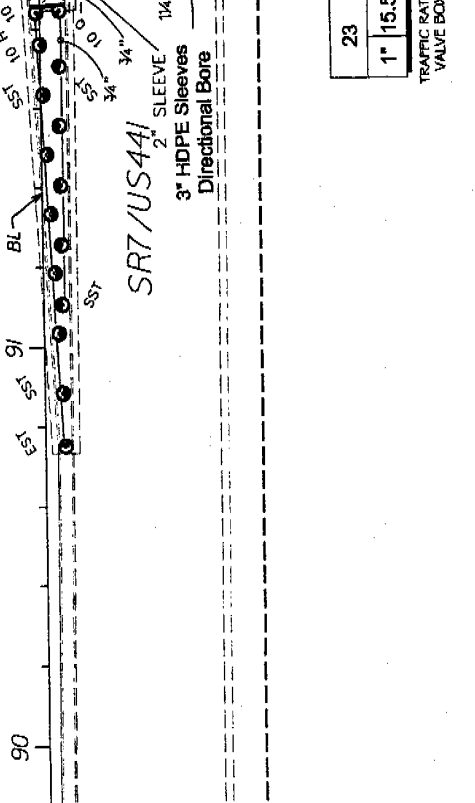
BRIDGE

EX. CITY SIGN

HILLSBORO CANAL

NOV 25 2010

SYMBOL	MANUFACTURE/MODEL/DESCRIPTION	QUANTITY	ARC	PS	GPM	RDMS
④	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4"x15'
④	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	11	SST	30	1.2	4"x30'
④	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 5" popup with check valve and pressure regulator.	1	180	30	0.8	10'
④	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.4	10'
④	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	6	180	30	0.9	15'
④	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	2	90	30	0.3	8'
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	9	180	30	0.8	10'
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	6	90	30	0.4	10'
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	2				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	580				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	63				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	194				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	4				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	47				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	420				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	44				
④	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve and pressure regulator.	20				



RESIDENTIAL

MILLER LEGG
100 North Douglas Street, Suite 210, Chandler, Arizona 85226
PH: 480-948-1111
Fax: 480-948-1111

CITY OF COCONUT CREEK
COUNTY: MILLER LEGG PROJECT ID: 07-00279
ROAD NO.: 7
DIRECTION: FORWARD

IRRIGATION PLAN

SHEET NO. LD-79


PROJECT SPECIFIC GENERAL NOTES:

- Traffic controls shall be in accordance with the current edition of the Florida Department of Transportation (FDOT) Design Standards (600 Series), the Standard Specification for Road and Bridge Construction, and the current Manual on Uniform Traffic Control Devices as minimum criteria.
- Notification of lane closures shall be accompanied 14 working days prior to closure submitting the required lane closure form, sketches, calculations, and other data through the Engineer to the District Traffic Operations Office.
- Traffic disruptions which are not shown by the traffic control plan, but which are necessary to construct the project shall be submitted in writing to the engineer 14 days prior to the commencement of work. Submittal material shall include sketches, calculations and other data required by the Engineer.
- The traffic and travel ways shall not be altered by the Contractor to create a work zone until all labor and material are available for the construction in that area.
- Lane closings shall occur only during non-peak hours. Peak hours are from: 7:00-9:00am and 4:00-6:00pm.
- The regulatory speed shall be 55 mph.
- As approved by the Engineer, the Contractor shall cover work zone signs when conditions no longer warrant their use. Cost of covering and uncovering the signs shall be included in maintenance of traffic.
- Contractor shall remove, relocate or cover any existing or proposed signs that conflict with the traffic control plans. When the conflict no longer exists, the contractor shall restore the signs to their original position. Cost of temporarily removing, relocating, covering and restoring the signs shall be included in maintenance of traffic.
- Uniformed, off-duty law enforcement officers can be used only as approved by the Engineer and use is limited to construction operations for setting and removing traffic control devices, night work, moving operations, or other situations specifically authorized by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic.
- All existing signage shall be maintained in an appropriate location for the duration of the project.
 - The contractor shall maintain a minimum of one lane of traffic at all times for minor side streets. During one lane operation a flag man shall be used. If operation exceeds one work period, contractor shall cover excavation and return two way traffic at the end of each work period.
 - If temporary lane closure causes extended congestion, the contractor shall, at the direction of the Engineer, reopen the closed lane(s) at no additional cost until such time the traffic flow has returned to an acceptable level.
 - Provisions for traffic control plan which are not anticipated in the traffic control plans, but are necessary for project construction shall be submitted to the engineer at least 72 hours prior to using such provisions.
 - A certified maintenance of traffic supervisors shall be available to the project at all times when the contractor is working and shall be on call for emergencies when the Contractor is not working. All work shall cease when MOT Supervisor is not present.
 - Access shall be provided to all places of business and residences whenever construction interferes with the existing means of access. Adequate accommodations for intersecting and crossing traffic shall be provided and maintained by the contractor. No road or street crossings within the project shall be blocked or unduly restricted as determined by the engineer.
- Contractor shall be responsible for the immediate removal of storm water from roadways utilized for maintaining traffic in a manner approved by the Engineer. Cost for removing the water shall be included in maintenance of traffic.
- Arrows provided on details denote direction of traffic only and do not reflect pavement markings unless specifically noted.

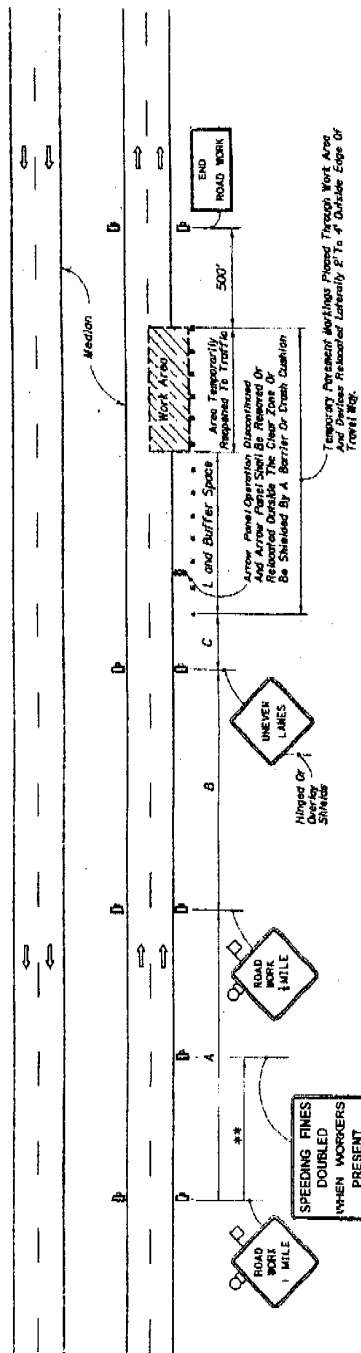
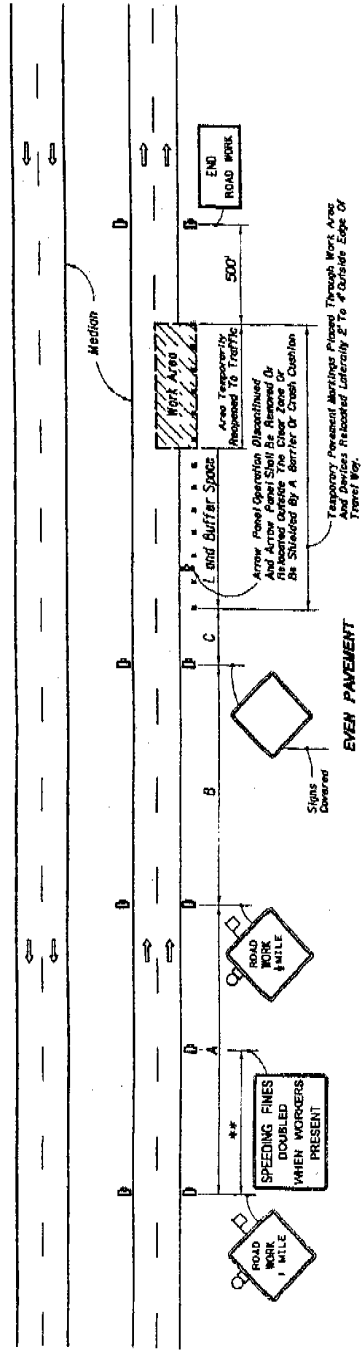
Markings:

- The contractor shall maintain all existing pavement markings during construction. If necessary, Contractor shall submit to the Engineer any modifications or temporary markings to the existing pavement markings during construction. Cost of removal of temporary pavement markings, regardless of method, is included in the related pavement marking maintenance of traffic. Use of black paint to cover existing and/or temporary pavement markings is prohibited.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

 <p>MILLER LEGG 1800 South Loop West, Box 200, Houston, Texas 77058 834-125-1000 Fax: 834-125-1666 www.mlegg.com One of AIAA 190000014, Engineer of Record EES 5, Construction No. 0070</p>		<p>CITY OF COCONO CREEK</p> <p>ROAD NO. 7</p> <p>DEPART BROWARD</p> <p>MILEPOST PROJECT ID 07-00239</p>	<p>TRAFFIC CONTROL NOTES</p>	<p>SHEET NO. LD-80</p>
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DATE: 07/28/2009
DRAWN BY: J. J. [unreadable]



INTERMITTENT WORK STORAGE - LANE REOPENED TO TRAFFIC

10 21 20

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

MILLER LEGG 10000 Highway 101, Houston, Texas 77054 P.O. Box 10000, Houston, Texas 77054 City of Houston, Department of Public Works		CITY OF COCONUT CREEK MILLER LEGG PROJECT ID ROAD NO. 7 COUNTY BROWARD 07-00239	TRAFFIC CONTROL DETAILS	SHEET NO. LD-81
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Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space		Notes (Merge)
	Dist. (ft.)	Length (ft.)	
25	155	125	W ² /L = 60
30	200	160	
35	250	245	L = 60
40	305	320	
45	360	540	L = WS
50	425	600	
55	495	660	L = WS
60	570	720	
65	645	780	L = WS
70	730	840	

When Buffer Space cannot be obtained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12°, use formula for L shown in the notes column.

Where:
W = width of lane in feet
L = width of lateral transition in feet
S = Posted speed limit (mph)

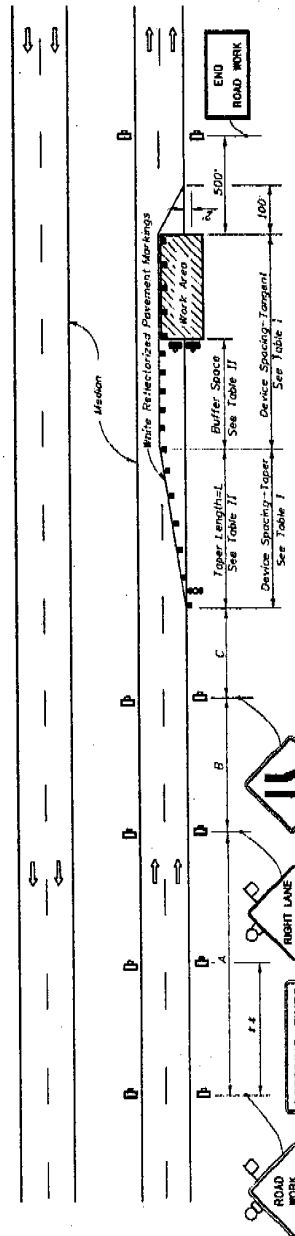


Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)	Cones or Tubular Markers	Signs or Panels of Drums	Signs or Panels of Drums
25	75	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
 - On undivided highways the median signs as shown are to be omitted.
 - When work is performed in the median lane or divided highways, the ends signs substituted for the right lane closed and lane end signs.
- The same applies to undivided highways with the following exceptions:
 1a. Additional barricade cones or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
 2. When work on undivided highways occurs across the centerline so as to encroach on both median bases, the inverted plan is applied to the approach of both roadways.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	250	200	1750
45 mph	300	250	1950
50 mph	350	300	2150
55 mph or greater	400	350	2350

4 The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

5 500 beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

- Work Area
- Sign with 18" x 18" (max.) Orange Flag and Type B Light
- Channeling Device (See Index No. 600)
- Type I Type II Or Type III Barricade Or Vertical Panel Or Drum (With Flashing Light)
- Work Zone Sign
- Advance Warning Arrow Panel

DURATION NOTES

- Temporary white signage may be omitted for work operations less than 3 days.
- Signs, arrow panel and buffer space may be omitted if at the following conditions are met:
 a) Work operations are 60 minutes or less.
 b) No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 c) Vehicles in the work area have high-intensity rotating lights.
 d) Volume and complexity of the roadway has been considered.

CONDITIONS

WHERE ANY VEHICLE EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCHANCE ON THE LANE ADJACENT TO FITTER SHOULDER AND THE AREA 2'-OUTSIDE THE EDGE OF TRAVEL WAY.

REVISIONS

DATE	BY	DESCRIPTION

MILLER LEGG
 180 North Dupont Road, Suite 300, Rock Hill, South Carolina 29730
 803-799-7000 Fax: 803-799-7004
 (See PLAN THROUGHOUT SHEET FOR EXISTING CONDITIONS)

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

SECTION No.(s): 86028000, 86120000,
86100000, 86130000
S.R. No.(s): 834, 810, 7, 814
FM No.(s): 409222-1-74-01
423268-1-58-01
423270-1-58-01
WPI Nos.: 4119110
4110332
RESOLUTION No.: 96-72

EXHIBIT E
MAINTENANCE PLAN(S)

See Attached

MAINTENANCE PLAN

Project Name: State Road 7 – US-441

Project Limits: First median North of SR869 (Sawgrass Expressway) to the Broward/Palm Beach County Line

Maintenance Limits: First median North of SR869 (Sawgrass Expressway) to the Broward/Palm Beach County Line

FM Funding Nos.: 423268-1-58-01 (South) & 423270-1-58-01 (North)

Maintaining Agency: City of Coconut Creek

Landscape, Irrigation and Hardscape Plans

The purpose for the following performance based descriptions of landscape maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner. Plantings shall be maintained to conform to all of the requirements, but not limited to the following: sight visibility, horizontal setbacks, and vertical clearances as set forth by Florida Department of Transportation's governing standards and specifications; FDOT Design Standards (Most Current Date) and Standard Specifications for Road and Bridge Construction (Most Current Date), as amended by contract documents.

1.0 Watering Requirements:

- a. Watering is probably the most critical concern regarding the maintenance of healthy plant material. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil.
- b. Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not to saturate the soil, and should avoid over-spray onto travel lanes. Furthermore, the Agency should maintain the rain sensors (if on an irrigation system), to ensure that they are functioning properly and that the system does shut down when there is sufficient rainfall.
- c. Avoid extremes in watering. Light, frequent watering is ineffective and produces shallow root systems. Excessive watering that keeps the root zones saturated may kill the plant material due to the lack of available air to the root zone. A typical rule of thumb is that turf areas should receive on an average, a minimum of 1" of water per week, with an equal or lesser amount for trees and shrubs, depending on their individual water usage.

2.0 Irrigation:

- a. The system should be checked periodically for proper operation. Ensure there is no overspray onto roadways and sidewalks. All irrigation activities should not be scheduled during the daytime hours (most notably rush hour traffic periods).

3.0 Fertilization/Insecticides/Fungicides:

- a. Due to the poor shallow root soils of the South Florida area, coupled with heavy rainfall during the growing season, available nutrient levels for landscape materials are very low, therefore nutrient amendments are essential. A soil analysis of each planting site should be completed to determine the nutrient levels needed for vigorous plant growth.
- b. Trees, palms, shrubs, groundcovers and turf areas should be fertilized in such a manner and frequency to ensure that the plant material remains healthy, without under or over nourishing them. An integrated plant management program is required to ensure healthy plants, free of disease and pests. Insecticides and fungicides shall be applied as needed to ensure that plants and grass remain pest and disease free.

4.0 Mulching:

- a. Planting beds should be mulched in such a manner as to: prevent weed growth, retain moisture for use by plants, protect soil from erosion and the loss of nutrients, maintain a more uniform soil temperature and maintain a manicured appearance. Mulch should always be kept away from the trunks of trees, shrubs and palms to prevent rotting and susceptibility to disease. No mulch from a native source should be utilized.

5.0 Pruning:

- a. All pruning shall adhere to ANSI A300 standards (and safety criteria adhered to) and shall be overseen by an ISA Certified Arborist. The older fronds on the Royal Palms, if applicable, shall be routinely pruned to insure that fronds do not fall onto any travel lanes. All pruning shall be done with the health and natural growth of the plant materials in mind. Specific pruning heights of the landscape material shall be determined in order to maintain clear site windows and vertical clearances for pedestrian and truck traffic where applicable. Visibility windows must be free of obstructions.
- b. The desired growth habit in landscape planting beds shall be such that shrubs of the same species shall develop into a single mass and be kept separate from adjacent masses of other species.

6.0 Staking and Guying:

- a. All staking material (except for replacements) will be removed at the completion of the one-year warranty period before the City takes over maintenance of the plantings.

7.0 Turf Mowing:

- a. All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a neat and clean appearance.

8.0 Litter Control:

- a. The project site shall remain litter free.

9.0 Weeding/Herbicide:

- a. All planting areas shall be maintained to be as weed free as possible with mechanical and/or chemical weeding. When utilizing herbicide, extreme care should be taken to avoid any overspray onto plant materials. Any damage resulting from overspray will be the applicator's responsibility to restore per approved plan.

10.0 Plant Replacement

- a. Plant replacement shall be the same species and specification as the approved plan. Only plants graded Florida #1 per the Florida Department of Agriculture and Consumers Services, Grades and Standards for Nursery Plants is permitted on FDOT roadways. Should it become necessary to change the species, a general use permit is required from FDOT for approval by the FDOT District Landscape Architect.

11.0 Hardscape:

- a. The hardscape areas located within the medians shall be maintained to be as clean and weed free as possible. Periodic pressure cleaning or similar method is required to maintain a clean surface. Any damage and/or repair should be done in a timely manner to maintain a clean appearance.

12.0 Maintenance Traffic Control:

- a. Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

Website: Series 600 Traffic Control through Work Zones
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.htm>

REFERENCES

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase
<http://webstore.ansi.org/ansidocstore/find.asp?>

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Stock*, available for purchase
<http://www.doacs.state.fl.us/pi/plantinsp/publications.html>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*

<http://www.dot.state.fl.us/rddesign/rd/RTDS/06/544.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*
<http://www.dot.state.fl.us/rddesign/rd/RTDS/06/546.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*
<http://www.dot.state.fl.us/rddesign/rd/RTDS/06/700.pdf>

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. 1 Chapters 2.11.5, Horizontal Clearance to Trees; Table 2.11.9 Horizontal Clearance and Clear Zone; Figure 4.1.2 Clear Zone; and Table 25.4.11.1 Clear Zone Width (feet) and Table 25.4.14.6 (for existing) trees*
<http://www.dot.state.fl.us/rddesign/PPMManual/2007/Volume1/2007Vol1.htm>

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
<http://www.dot.state.fl.us/specificationsoffice/2007BK/580.pdf>

Florida Department of Transportation, *Maintenance Rating Program Handbook*
<http://infonet.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2007Edition.pdf>

Florida Department of Transportation, *Landscape Architecture Website*
<http://www.dot.state.fl.us/emo/beauty/FLA.htm>

International Society of Arboriculture (ISA)
www.isa-arbor.com

Manual on Uniform Traffic Control Devices
<http://www.mutcd.fhwa.dot.gov>

Florida Irrigation Society
<http://www.fisstate.org>

Florida Department of Community Affairs (FCA), *Florida Board of Building Codes & Standards, Florida Accessibility Code for Building Construction*
http://www.dca.state.fl.us/fbc/publications/1_publications.htm

Guide to Roadside Mowing and Guide to Turf Management, available for purchase <http://infonet.dot.state.fl.us/SupportServicesOffice/plist.htm>

END OF SECTION

SECTION No.(s): 86028000, 86120000,
86100000, 86130000
S.R. No.(s): 834, 810, 7, 814
FM No.(s): 409222-1-74-01
423268-1-58-01
423270-1-58-01
WPI Nos.: 4119110
4110332
RESOLUTION No.: 96-72

EXHIBIT F

PENDING AGENCY PROJECT(S) COST ESTIMATE

I. Phase I - State Road 7 (US 441) South Medians

FDOT PARTICIPATION: \$200,000.00
Via Separate Agreement
AGENCY PARTICIPATION: \$200,000.00

II. Phase II- State Road 7 (US 441) North Medians

FDOT PARTICIPATION: \$250,000.00
Via Separate Agreement
AGENCY PARTICIPATION: \$250,000.00

III. TOTAL APPROXIMATE PROJECT COST: \$900,000 .00

All Amounts are approximate



LANDSCAPE PLANS - OPINION OF PROBABLE COST
423268-1-58-01 & 423270-1-58-01 - State Road 7 / US 441

State Road 7 - City of Coconut Creek

Landscape Architect of Record: Brian R. Shore, RLA
RLA# LA-6666770
Date: February 25, 2009

SUMMARY OF LANDSCAPE PLANS - OPINION OF PROBABLE COST

423268-1-58-01 & 423270-1-58-01 - State Road 7 / US 441

SUMMARY OF PROJECT

TOTAL - 101-1 MOBILIZATION	\$38,224.95
TOTAL - 102-1 MAINTENANCE OF TRAFFIC	\$15,289.98
TOTAL - 110-1-1 CLEARING AND GRUBBING	\$15,208.09
TOTAL 347-1 PORTLAND CEMENT CONCRETE-CLASS 1(NONSTRUCTURAL)	\$542.40
TOTAL - 526-1-1 ARCHITECTURAL PAVERS	\$59,490.00
TOTAL - 575-1-1 SOD	\$49,548.00
TOTAL - 580-1-1 LANDSCAPE COMPLETE (SMALL)	\$94,262.72
TOTAL - 580-1-2 LANDSCAPE COMPLETE (LARGE)	\$50,318.78
TOTAL - 590-70 IRRIGATION SYSTEM COMPLETE	\$495,129.00
SUB-TOTAL PROJECT	\$818,013.92
10% Contingency fee	\$81,801.39
2% Permits	
TOTAL PROJECT - OPINION OF PROBABLE COST	\$899,815.32

SUMMARY BY MEDIAN

SUBTOTAL - State Road 7 - Median #1 - City of Coconut Creek	\$140,071.32
SUBTOTAL - State Road 7 - Median #2 - City of Coconut Creek	\$130,771.71
SUBTOTAL - State Road 7 - Median #3 - City of Coconut Creek	\$100,991.77
SUBTOTAL - State Road 7 - Median #4 - City of Coconut Creek	\$94,627.09
SUBTOTAL - State Road 7 - Median #5 - City of Coconut Creek	\$17,291.52
SUBTOTAL - State Road 7 - Median #6 - City of Coconut Creek	\$55,485.02
SUBTOTAL - State Road 7 - Median #7 - City of Coconut Creek	\$79,354.59
SUBTOTAL - State Road 7 - Median #8 - City of Coconut Creek	\$112,073.42
SUBTOTAL - State Road 7 - Median #9 - City of Coconut Creek	\$0.00
SUBTOTAL - State Road 7 - Median #10 - City of Coconut Creek	\$60,318.16
SUBTOTAL - State Road 7 - Median #11 - City of Coconut Creek	\$27,029.33

PLANT MATERIAL - LABOR / PROFIT / OVERHEAD - FACTOR: 1.25

ABBREVIATIONS

cal.	caliper	ht.	height
c.t.	clear trunk	mn.	minimum
c.y.	cubic yards	o.a.h.	overall height
d.b.h.	diameter breast height	o.c.	on center
gal.	gallon	s.f.	square foot
g.w.	gray wood	spr.	spread

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