MEMORANDUM

Agenda Item No. 8(N)(1)

TO:	Honorable Chairman Jean Monestime and Members, Board of County Commissioners	**DATE:**	March 8, 2016
FROM:	Abigail Price-Williams County Attorney	**SUBJECT:**	Resolution approving execution by the County Mayor of a covenant for maintenance of landscaping within the public rights-of-way between Miami-Dade County and the Town of Medley along NW 74 Street from NW 87 Avenue to State Road 826; and authorizing the County Mayor to exercise the provisions contained therein

The accompanying resolution was prepared by the Transportation and Public Works Department and placed on the agenda at the request of Prime Sponsor Commissioner Jose "Pepe" Diaz.

Abigail Price-Williams
County Attorney

APW/cp

Memorandum

MIAMI-DADE COUNTY

Date: March 8, 2016

To: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Subject: Covenant for Maintenance of Landscaping Within The Public Rights-of-Way Between Miami-Dade County and the Town of Medley to Provide for the Maintenance and Preservation of Landscaping and Irrigation Improvements By the Town Along NW 74 Street from NW 87 Avenue to SR 826

Recommendation

It is recommended that the Board of County Commissioners (Board) approve the attached Resolution authorizing the execution of a Covenant for Maintenance of Landscaping within the Public Rights-of-Way between Miami-Dade County (County) and the Town of Medley (Town) to provide for the maintenance and preservation of landscaping and irrigation improvements by the Town in medians along NW 74 Street from NW 87 Avenue to SR 826.

Scope

The project is located in Commissioner Jose "Pepe" Diaz's District 12.

Fiscal Impact/Funding Source

There is no fiscal impact to the County. The County will be installing the landscaping and irrigation improvements through the on-going roadway construction project awarded by the Board on February 3, 2015 through Resolution R-106-15. The project is being funded by Charter County Transportation Sales Surtax Bond proceeds and is to be fully reimbursed by the Florida Department of Transportation (FDOT). The County will save the costs associated with the maintenance and preservation of the landscaping improvements.

Track Record/Monitor

The project will be assigned to Bassam Moubayed, CFM, Chief of Public Works and Waste Management Department's (PWWM) Construction Division, who will oversee inspections conducted by PWWM staff to enforce compliance with covenant plans and specifications.

Background

On November 5, 2013, the Board approved a Local Agency Program (LAP) Agreement under Resolution R-873-13 with FDOT for the construction of NW 74 Street from NW 87 Avenue to SR 826. The County is providing upfront funding for the project, with the full amount to be reimbursed by FDOT through the LAP Agreement. The Town has requested that this project include the installation of enhanced landscaping in the medians within the project limits. The County agreed to include enhanced landscaping and irrigation systems provided that the Town assumes responsibility to maintain and preserve these improvements.

This Covenant for Maintenance of Landscaping obligates the Town to maintain, repair and/or replace, as necessary, the irrigation system, sod and all landscaping in the medians. In the event that the Town does not comply with these requirements, it will be sent a written notice and given 30 calendar days to make corrections. Failure to address any deficiencies

will result in the County making the necessary corrections and the Town will be invoiced for the County's costs.

On October 7, 2013, the Medley Town Council adopted Resolution No. C-1162 authorizing the Town Mayor to execute a Covenant for Maintenance of Landscaping with the County (attached).

Alina T. Hudak
Deputy Mayor

MEMORANDUM

(Revised)

TO: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

DATE: March 8, 2016

FROM: Abigail Price-Williams
County Attorney

SUBJECT: Agenda Item No. 8(N)(1)

Please note any items checked.

_____	"3-Day Rule" for committees applicable if raised
_____	6 weeks required between first reading and public hearing
_____	4 weeks notification to municipal officials required prior to public hearing
_____	Decreases revenues or increases expenditures without balancing budget
_____	Budget required
_____	Statement of fiscal impact required
_____	Statement of social equity required
_____	Ordinance creating a new board requires detailed County Mayor's report for public hearing
✓	No committee review
_____	Applicable legislation requires more than a majority vote (i.e., 2/3's ____, 3/5's ____, unanimous _____) to approve
_____	Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(N)(1)
3-8-16

RESOLUTION NO. _____

RESOLUTION APPROVING EXECUTION BY THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE OF A COVENANT FOR MAINTENANCE OF LANDSCAPING WITHIN THE PUBLIC RIGHTS-OF-WAY BETWEEN MIAMI-DADE COUNTY AND THE TOWN OF MEDLEY ALONG NW 74 STREET FROM NW 87 AVENUE TO STATE ROAD 826; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXERCISE THE PROVISIONS CONTAINED THEREIN

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference; and

WHEREAS, both the Town of Medley and Miami-Dade County wish to facilitate the maintenance and preservation of landscaping improvements to be installed along NW 74 Street from NW 87 Avenue to State Road 826,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves the Covenant for Maintenance of Landscaping Within the Public Rights-of-Way between Miami-Dade County and the Town of Medley, in substantially the form attached hereto and made a part hereof; authorizing the County Mayor or County Mayor's designee to execute same for and on behalf of Miami-Dade County and to exercise the provisions contained therein, and pursuant to Resolution No. 974-09, this Board (a) directs the County Mayor or the County Mayor's designee to record the covenant in the Public Records of Miami-Dade County and to provide a recorded copy of such document to the Clerk of the Board within thirty (30) of executor of said instrument and (b) directs the Clerk of the Board to attach and permanently store a recorded copy of said instrument together with this resolution.

The foregoing resolution was offered by Commissioner , who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Jean Monestime, Chairman
Esteban L. Bovo, Jr., Vice Chairman

Bruno A. Barreiro	Daniella Levine Cava
Jose "Pepe" Diaz	Audrey M. Edmonson
Sally A. Heyman	Barbara J. Jordan
Dennis C. Moss	Rebeca Sosa
Sen. Javier D. Souto	Xavier L. Suarez
Juan C. Zapata	

The Chairperson thereupon declared the resolution duly passed and adopted this 8th day of March, 2016. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By:_____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Debra Herman

COVENANT FOR MAINTENANCE OF LANDSCAPING WITHIN RIGHT-OF-WAY
BETWEEN
THE TOWN OF MEDLEY
AND
MIAMI-DADE COUNTY

THIS COVENANT FOR MAINTENANCE OF LANDSCAPING WITHIN RIGHT-OF-WAY (the "Covenant") is made and entered into this ____ day of _____, 20__, by and between MIAMI-DADE COUNTY, a political subdivision of the State of Florida, through its Public Works and Waste Management Department (the "County"), and the TOWN OF MEDLEY, a municipal corporation of the State of Florida located in Miami-Dade County (the "Town").

RECITALS

WHEREAS, the County plans to install the landscaping and irrigation system in the medians and in the retention swale areas on the north and south sides of NW 74 Street as depicted on the landscape plans designed by Atkins North America, Inc., attached hereto as Exhibit "A" (the "Landscape Work") within the right-of-way of NW 74 Street between NW 87 Avenue and Palmetto Expressway (SR-826) (the "Project Limits"), along with the roadway improvements for NW 74 Street (the "Highway Project"); and

WHEREAS, the County requests that the Town be solely responsible for the maintenance and preservation of the Landscape Work within the Project Limits as further established herein; and

WHEREAS, the Town desires the Highway Project, finds it to be in the best interest of the Town and agrees to provide the required maintenance service in order to ensure the improvements.

COVENANT

NOW, THEREFORE, in consideration of aforementioned recitals, which are true and correct and incorporated herein by reference, and the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. Upon completion of the Landscape Work by the County, and in accordance with Section 9 herein, the Town shall, at its sole cost and expense, maintain, repair and/or replace, as may be necessary, the irrigation system, the sod and all landscaping, in a like or similar manner as that installed by the County, in the medians and retention swale areas within the Project Limits. The maintenance by the Town shall include, but not be limited to, the following:

    a) Mow, cut and/or trim and edge the grass or turf in accordance with, as of the date of this Covenant, the latest edition of the State of Florida

"Guide for Roadside Mowing" and "Maintenance Rating Program";

b) Properly prune all plants, which include plant and tree trimmings, in accordance with, as of the date of this Covenant, the latest edition of the State of Florida "Maintenance Rating Program" and prune, trim and/or edge such parts thereof which may present a visual or other safety hazard for those using or intending to use the right-of-way;

c) Keep plants as free as possible from disease and harmful insects; remove and properly dispose of dead, diseased or otherwise deteriorated plants in their entirety, and otherwise replace those plants that fall below original Landscape Work standards;

d) Properly remove and dispose of all undesirable vegetation including, but not limited to, weeding of plant beds and removal of invasive exotic plant materials;

e) Properly mulch all plant beds;

f) Water and fertilize all plants properly, as may be needed, from time to time;

g) Remove and dispose of all trimmings, roots, branches, litter, and other debris material(s) resulting from the activities described above;

h) Ensure that the irrigation system is fully functional by performing routine and regular observations of irrigation performance; identify damage and/or malfunctions; repair and/or replace broken or missing irrigation equipment components; and adjust spray heads to eliminate overspray of water onto paved areas. All costs associated with water use will be the responsibility of the Town. In the event that the Town shall require a well-water irrigation system, the Town shall be responsible for the maintenance of the pump system and electrical meter.

2. The Town shall be responsible for performing the work described in Section 1 with a frequency of twelve (12) times per year. The work shall include any reasonable additional conditions that the County, or the authority having jurisdiction over the right-of-way, may impose.

3. The Town shall further be responsible for replacing damaged landscape material for reasons other than maintenance, such as natural disasters, storm events, and traffic accidents.

4. If the County, or the authority having jurisdiction over the right-of-way, determines that the Town is not accomplishing or complying with its

responsibilities and/or duties under this Covenant, the County shall provide the Town with a written notice and the opportunity to cure the deficiency, stating any deficiency or deficiencies that require correction. The Town shall have thirty (30) calendar days, from the date of the receipt of the notice, to correct the cited deficiency or deficiencies or commence a cure of the cite deficiency or deficiencies if such is/are of nature which can not be cured within thirty (30) days, which shall be determined in the County's reasonable discretion.

In the event that the Town has not corrected the deficiency or deficiencies for which notice is given or, if the deficiencies are of a nature that cannot be corrected within that time period and the Town does not commence to correct the deficiencies within the time period stipulated, then the County shall maintain, repair, replace or otherwise correct the deficiency or deficiencies, and all direct and actual costs and expenses shall be invoiced to the Town. The Town must pay the invoice in full, within thirty (30) calendar days of the receipt of the invoice by the Town.

Any notices to be provided hereunder shall be in accordance with the provisions of Section 11 herein.

In the event of any default of the Town in the payment of the invoice and/or its failure to comply with its maintenance responsibilities under this Covenant, the County or the authority having jurisdiction over the right-of-way, may, at its election and option, remove the Landscape Work from the medians and retention swales within the Project Limits.

5. It is understood and agreed that all landscaping, irrigation system and sod covered by this Covenant may be removed, relocated, or adjusted, at any time in the future, as found necessary by the County or the authority having jurisdiction over the right-of-way, in order that the adjacent public right of way be widened, altered or otherwise changed and maintained to meet with future criteria or planning by the County or the authority having jurisdiction over the right-of-way. In such an event, the maintenance responsibilities of the Town shall survive any such relocation or adjustments, so long as the landscaping, materials and/or facilities remain with the Project Limits. If any such efforts to widen, alter or change Project Limits result in a continued opportunity for such areas to host landscaping, the County shall endeavor to relocate and/or replace the landscaping, materials and/or facilities

6. Subject to the provisions of 768.28, Florida Statutes, the limitations of which shall be applicable to this Covenant, the Town does hereby agree to indemnify and hold harmless the County, or the authority having jurisdiction over the right-of-way, from any and all damages and/or liability which may arise by virtue of any act or omission of the Town and the result thereof related to the maintenance and preservation of the landscaping and irrigation system within the Project Limits performed pursuant to this Covenant. The Town's indemnification

shall not include any and all damages and/or liability which may arise from or as a result of the County's sole gross negligence or willful misconduct or plans, construction and development of the Highway Project or the Landscape Work, whether performed by the County or a third party on the County's behalf.

7. This Covenant and the rights hereunder may be assigned by the County to the authority having jurisdiction over the right-of way. The provisions and conditions herein stated shall remain in full force and effect until such time as this obligation has been cancelled by instrument filed in the Public Records of Miami-Dade County, Florida by an authorized representative of the County, or by an authorized representative of the authority having jurisdiction over the right-of-way.

8. This Covenant only pertains to the Landscape Work, as herein defined, of NW 74 Street medians and retention swales, as further depicted on the landscape plans, attached as Exhibit "A". It is understood and agreed that this Covenant is not intended to include the State of Florida, Department of Transportation Limited Access Right of Way for SR826.

9. This covenant is subject to termination under any one of the following conditions:

a) By the County, or the authority having jurisdiction over the right-of-way, if the Town fails to perform its duties under Section 1, following thirty (30) days written notice and failure to cure in the manner set forth in Section 4; and

b) If mutually agreed to by the parties, with a six (6) month prior written notice.

10. This Covenant shall become effective upon completion of the roadway construction of and Landscape Work for NW 74 Street, within the Project Limits, and upon issuance by the County to the Town of a written Notice to Proceed letter from the Miami-Dade County Director of Public Works and Waste Management.

11. All notices, requests, demands, consents, approvals and other communications which are required to be served or given hereunder shall be in writing, and hand delivered, or sent by certified U.S. Mail, return receipt requested, postage prepaid, addressed to the party to receive such notices, or at such other address that the authority having jurisdiction over the right-of-way may provide:

To the County:

Miami-Dade County Public Works and Waste Management Director

111 NW First Street, Suite 1610
Miami, FL 33128

To the Town:

The Honorable Roberto Martell
Mayor
Town of Medley
7777 NW 72nd Avenue
Medley, FL 33166

With a Copy to the Town Attorney:

Weiss Serota Helfman Pastoriza Cole & Boniske, P.L.
2525 Ponce De Leon Boulevard
Suite 701
Coral Gables, FL 33134

12. This Covenant is the entire understanding and agreement as relates to the subject matter herein, and may only be modified or amended by written mutual consent of the parties.

13. This Covenant shall be governed by the laws of the State of Florida. Any provision hereof found to be unlawful or unenforceable shall be severable and shall not affect the validity of the remaining portions hereof. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Miami-Dade County, Florida.

14. This Covenant may be signed in one or more counterparts, each of which when executed shall be deemed an original and together shall constitute one and the same instrument.

15. Nothing contained herein shall be construed as creating any rights in the Town to require, mandate, or enforce the installation of all or any part of the Landscape Work, which shall be performed in the County's sole and absolute discretion.

Signed, sealed, executed and acknowledged on _____ day of _____, 20___.

TOWN OF MEDLEY **MIAMI-DADE COUNTY**

By: _____
Roberto Martell, Mayor

By: _____
Name: _____
Title: _____

Attest: _____
Herlina Taboada, Town Clerk

Attest: _____

Legal Review:
Town Attorney

By: _____
Name: _____

County Attorney

By _____
Name: _____

Exhibit " A "

LANDSCAPE PLANS

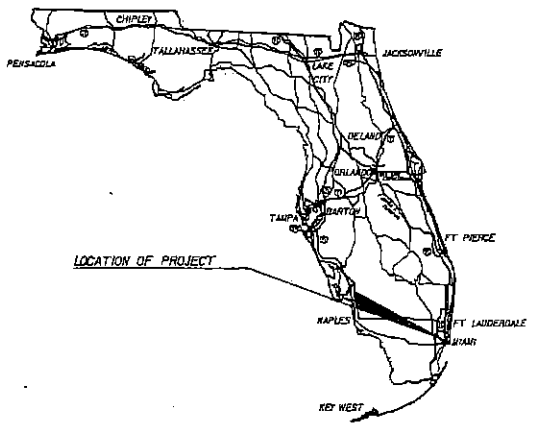
NW 74 STREET FROM NW 87 AVENUE TO SR 826

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 414731-4-52-01
MIAMI-DADE COUNTY
NW 74TH STREET (FUTURE STATE ROAD NO. 934)
FROM NW 87TH AVENUE TO SR 826

LANDSCAPE PLANS



INDEX OF LANDSCAPE PLANS

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LD-5	DISTRICT STANDARD NOTES .
LD-6	DISTRICT STANDARD DETAILS
LD-7 Thru LD-16	LANDSCAPE PLANS
LD-17	IRRIGATION NOTES
LD-18	IRRIGATION DETAILS
LD-19 Thru LD-20	IRRIGATION SPECIFICATIONS
LD-21 Thru LD-30	IRRIGATION PLANS

PLANS PREPARED BY:

ATKINS
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 733-7233
VENDOR NO. 59-0896138
CONTRACT NO. C-8062
CERTIFICATE OF AUTHORIZATION NO. 24

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
STATE OF FLORIDA
11/25/13

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: HARRY L. BELTON, R.L.A.

R.L.A. NO.: 900

KEY SHEET REVISIONS	
DATE	DESCRIPTION

FISCAL YEAR	SHEET NO.
14	LD-1

FDOT PROJECT MANAGER: FDOT PROJECT MANAGER: KIRK HOOSAC; R.L.A.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

USER: 22725 11/25/2013 10:51:12 AM F:\4-Projects\FDOT Dist 6\NW 74th St\4473143201\landscape\keysht01.dgn

24

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-6/LD-20		LD-7/LD-21		LD-8/LD-22		LD-9/LD-23					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	CI	CHRYSOBALANUS ICACO	COCOPLUM	16"HT. x 16"SPR.		30" OC		EA			50		32				82			
		DT	DIANELLIA TASMANICA	FLAX LILY	12"HT. x 12"SPR.		18" OC		EA			110		60				170			
		FMG	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	12"HT. x 12"SPR.		18" OC		EA			125		90				215			
		HN	HAMELIA NODOSA	DWARF FIREBUSH	16"HT. x 16"SPR.		30" OC		EA			50						50			
580-1-2	LARGE	AG	ANNONA GLABRA	POND APPLE	6' OA		SEE PLAN	STANDARD	EA									0			
		AM	ADONIDIA MERRILLII 'A'	ADONIDIA PALM	6' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AM	ADONIDIA MERRILLII 'B'	ADONIDIA PALM	8' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AM	ADONIDIA MERRILLII 'C'	ADONIDIA PALM	10' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	12' OA		SEE PLAN	5 TRUNK MIN., FIELD GROWN	EA									0			
		BA	BULNESIA ARBOREA	VERAWOOD	10'HT x 5'SPR		SEE PLAN	2" CAL	EA									0			
		BB	BUCIDA BUCERAS	BLACK OLIVE	16'HT x 5'SPR		SEE PLAN		EA									0			
		MC	MORELLA CERIFERA	WAX MYRTLE	8'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA									0			
		CES	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	8'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA									0			
		PE	PTYCHOSPERMA ELEGANS 'A'	SOLITAIRE PALM	12' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		PE	PTYCHOSPERMA ELEGANS 'B'	SOLITAIRE PALM	16' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		PE	PTYCHOSPERMA ELEGANS 'C'	SOLITAIRE PALM	20' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		QV	QUERCUS VIRGINIANA	LIVE OAK	16'HT. x 5'SPR		SEE PLAN		EA			1		1				2			
		RR	ROYSTONEA REGIA	ROYAL PALM	20' GW		SEE PLAN		EA									0			
		SP	SABAL PALMETTO 'A'	SABAL PALM	14' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA			1						1			
		SP	SABAL PALMETTO 'B'	SABAL PALM	18' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA			2						2			
		SP	SABAL PALMETTO 'C'	SABAL PALM	22' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA			2						2			
		TH	TABEBUIA HEPTAPHYLLA	PINK TABEBUIA	12'HT x 4'SPR		SEE PLAN		EA									0			
590-70			IRRIGATION SYSTEM						LS									0			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3239 W. Commercial Blvd., Ste. 100
Ft. Lauderdale, FL 33309
(954) 733-7333
Certificate of Authorization No. 24
Harry L. Beltran, R.L.A. No.: 966

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-2

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTRAN LA0966 STATE OF FLORIDA

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-31.001, F.A.C.

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-10/LD-24		LD-11/LD-25		LD-12/LD-26		LD-13/LD-27					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	CI	CHRYSOBALANUS ICACO	COCOPLUM	15"HT. x 15"SPR.		30" OC		EA			155				65		220			
		DT	DIANELLIA TASMANICA	FLAX LILLY	12"HT. x 12"SPR.		18" OC		EA			490		55		-185		730			
		FMG	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	12"HT. x 12"SPR.		18" OC		EA			220		225				445			
		HN	HAMELIA NODOSA	DWARF FIREBUSH	15"HT. x 15"SPR.		30" OC		EA			75				85		160			
580-1-2	LARGE	AG	ANNONA GLABRA	POND APPLE	6' OA		SEE PLAN	STANDARD	EA									0			
		AM	ADONIDIA MERRILLII 'A'	ADONIDIA PALM	6' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AM	ADONIDIA MERRILLII 'B'	ADONIDIA PALM	8' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AM	ADONIDIA MERRILLII 'C'	ADONIDIA PALM	10' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	12' OA		SEE PLAN	5 TRUNK MIN., FIELD GROWN	EA									0			
		BA	BULNESIA ARBOREA	VERAWOOD	10'HT x 5'SPR		SEE PLAN	2" CAL	EA									0			
		BB	BUCIDA BUCERAS	BLACK OLIVE	15'HT x 5'SPR		SEE PLAN		EA									0			
		MC	MORELLA CERIFERA	WAX MYRTLE	8'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA									0			
		CES	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	8'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA									0			
		PE	PTYCHOSPERMA ELEGANS 'A'	SOLITAIRE PALM	12' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA							3		3			
		PE	PTYCHOSPERMA ELEGANS 'B'	SOLITAIRE PALM	15' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA							5		5			
		PE	PTYCHOSPERMA ELEGANS 'C'	SOLITAIRE PALM	20' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA							7		7			
		QV	QUERCUS VIRGINIANA	LIVE OAK	15'HT. x 5'SPR.		SEE PLAN		EA			5				3		8			
		RR	ROYSTONEA REGIA	ROYAL PALM	20' GW		SEE PLAN		EA									0			
		SP	SABAL PALMETTO 'A'	SABAL PALM	14' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		SP	SABAL PALMETTO 'B'	SABAL PALM	18' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		SP	SABAL PALMETTO 'C'	SABAL PALM	22' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA									0			
		TH	TABEBUIA HEPTAPHYLLA	PINK TABEBUIA	12'HT x 4'SPR		SEE PLAN		EA									0			
590-70			IRRIGATION SYSTEM						LS									0			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3430 W. Commercial Blvd., Ste. 100
Ft. Lauderdale, FL 33309
(954) 733-7433
Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-3

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON LA 900 STATE OF FLORIDA

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TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-14/LD-28		LD-15/LD-29		-		-					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
590-1-1	SMALL	CI	CHRYSOBALANUS ICACO	COCOPLUM	15"HT. x 15"SPR.		30" OC		EA												
		DT	DIANELLIA TASMANICA	FLAX LILLY	12"HT. x 12"SPR.		18" OC		EA	220		175						395		697	
		FMG	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	12"HT. x 12"SPR.		18" OC		EA	200								200		1100	
		HN	HAMELIA NODOSA	DWARF FIREBUSH	15"HT. x 15"SPR.		30" OC		EA											660	
																				210	
580-1-2	LARGE	AG	ANNONA GLABRA	POND APPLE	5' OA		SEE PLAN	STANDARD	EA	7								7		7	
		AM	ADONIDIA MERRILLII 'A'	ADONIDIA PALM	6' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	4		4						8		8	
		AM	ADONIDIA MERRILLII 'B'	ADONIDIA PALM	8' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	11		9						20		20	
		AM	ADONIDIA MERRILLII 'C'	ADONIDIA PALM	10' OA		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	5		6						11		11	
		AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	12' OA		SEE PLAN	5 TRUNK MIN., FIELD GROWN	EA	25		8						33		33	
		BA	BULNESIA ARBOREA	VERAWOOD	10'HT x 5'SPR		SEE PLAN	2" CAL	EA	6		3						9		9	
		BB	BUCIDA BUCERAS	BLACK OLIVE	16'HT x 5'SPR		SEE PLAN		EA	12								15		15	
		MC	MORELLA CERIFERA	WAX MYRTLE	8'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA	25		12						37		37	
		CES	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	9'HT x 6'SPR		SEE PLAN	FULL TO GROUND	EA	19								19		19	
		PE	PTYCHOSPERMA ELEGANS 'A'	SOLITAIRE PALM	12' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA											3	
		PE	PTYCHOSPERMA ELEGANS 'B'	SOLITAIRE PALM	16' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA											5	
		PE	PTYCHOSPERMA ELEGANS 'C'	SOLITAIRE PALM	20' GW		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA											7	
		QV	QUERCUS VIRGINIANA	LIVE OAK	16'HT. x 5'SPR.		SEE PLAN		EA											10	
		RR	ROYSTONEA REGIA	ROYAL PALM	20' GW		SEE PLAN		EA	12								12		12	
		SP	SABAL PALMETTO 'A'	SABAL PALM	14' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	5								5		6	
		SP	SABAL PALMETTO 'B'	SABAL PALM	18' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	6								6		8	
		SP	SABAL PALMETTO 'C'	SABAL PALM	22' CT		SEE PLAN	HEIGHTS AS NOTED ON PLAN	EA	6								6		8	
		TH	TABEBUIA HEPTAPHYLLA	PINK TABEBUIA	12'HT x 4'SPR		SEE PLAN		EA	8								8		8	
590-70			IRRIGATION SYSTEM						LS									0		1	

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REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON No. 900 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3330 W. Commercial Blvd., Ste. 100
Ft. Lauderdale, FL 33309
(954) 733-7233
Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-4

USER: zzzzz 11/25/2013 ridesize 24 F:\V-Projects\FDOT Dist 6\MF 74\6 SIGNATURE\Version\Volume1.dgn

LANDSCAPE NOTES

THESE SPECIFICATIONS ARE IN ADDITION TO FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS.

1) CERTIFICATION:
THE LANDSCAPE CONTRACTOR SHALL BE PROPERLY REGISTERED WITH THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY AND BE A CERTIFIED LANDSCAPE CONTRACTOR BY THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION AND BE A CERTIFIED ARBORIST BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. SUBMIT CERTIFICATIONS PRIOR TO THE PRE-CONSTRUCTION MEETING.

2) ITEMIZED COST:
PRIOR TO THE PRE-CONSTRUCTION MEETING, SUBMIT TO THE ENGINEER A UNIT COST BREAKDOWN FOR EVERY ITEM OF WORK INCLUDED FOR THIS PROJECT.

3) PLAN DEVIATIONS:
THE ENGINEER SHALL APPROVE ANY DEVIATIONS FROM THE PLANS THAT MAY AFFECT THE DESIGN INTENT. INSTALL NO MATERIALS THAT WILL BLOCK OR CREATE CONFLICTS WITH SIGNS, BILLBOARDS, LIGHTS, OVERHEAD AND UNDERGROUND UTILITIES, ACCESS WAYS, GATES, FIRE HYDRANTS, FPL RIGHT TREE/RIGHT PLACE SETBACKS, FDOT MAINTENANCE RATING PROGRAM AND ANSI Z-133 UTILITY CLEARANCE REQUIREMENTS. INSTALL TREES, PALMS AND SHRUBS A MINIMUM OF 7 FEET FROM ANY FIRE PROTECTION EQUIPMENT OR DEVICES. IMMEDIATELY NOTIFY THE ENGINEER WHEN ANY OF THESE ISSUES ARE ENCOUNTERED.

4) SOIL BACKFILL MIXTURE:
SOIL BACKFILL FOR THE INSTALLATION OF ALL PLANT MATERIALS SHALL BE A UNIFORM MIXTURE OF 25% PEAT OR DECOMPOSED COMPOST AND 75% EXISTING SITE SOIL, CLEANED FREE OF WEEDS AND ROCKS 1-1/2 INCH OR GREATER. PRIOR TO THE PRE-CONSTRUCTION MEETING, SUBMIT COMPOST MANUFACTURER'S CERTIFIED ANALYSIS TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL PAY TO HAVE COMPOST TESTED IF REQUESTED BY THE ENGINEER.

5) WATERING:
DURING PROJECT INSTALLATION AND THE ESTABLISHMENT PERIOD, KEEP THE SOIL MOISTURE AT ALL PLANTING AREAS AT FIELD CAPACITY. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR SUPPLYING WATER AND PAY FOR ANY FEES ASSOCIATED WITH WATER USE. SOIL MOISTURE LEVEL SHALL BE TAKEN FROM A 4 INCH DEEP EXCAVATION, AT WHICH POINT THE SOIL SHALL HOLD TOGETHER TO FORM A HAND CLUMP, TO BE CONSIDERED AT FIELD CAPACITY.

6) FERTILIZATION:
FOR LARGE AND SMALL PLANTS, APPLY AN 8-10-10 FERTILIZER WITH MICRONUTRIENTS. 100% OF THE (N) NITROGEN AND (K) POTASSIUM SHALL BE IN SLOW RELEASE FORM. APPLY AT A RATE OF 1.5 POUNDS OF ACTUAL FERTILIZER (NOT N) PER 100 SQUARE FEET OF PLANT BED AND 1/2 POUND PER INCH OF TRUNK CALIPER. BEGIN FERTILIZATION AT INSTALLATION AND REPEAT EVERY 3 MONTHS THROUGHOUT THE ESTABLISHMENT PERIOD. FOR RELOCATED MATERIAL, BEGIN FERTILIZATION THREE WEEKS AFTER RELOCATION. PRIOR TO THE PRE-CONSTRUCTION MEETING, SUBMIT FERTILIZER MANUFACTURER'S CERTIFIED ANALYSIS TO THE ENGINEER FOR APPROVAL.

7) PRUNING:
PRUNING SHALL COMPLY WITH ANSI A300 AND THESE PLANS. A CERTIFIED ARBORIST SHALL OVERSEE ALL PRUNING OPERATIONS. TREE, PALM, SHRUB AND ROOT PRUNING IS REQUIRED DURING CONSTRUCTION AND DURING THE ESTABLISHMENT PERIOD:
a. TO REMOVE ALL CROSSING, DEFLECTING AND CIRCLING ROOTS.
b. TO MAINTAIN FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS AND MAST ARM CLEARANCE.
c. TO MAINTAIN INDEX 546 HORIZONTAL AND VERTICAL CLEARANCES WITHIN THE LIMITS OF CLEAR SIGHT.
d. TO MAINTAIN VISIBILITY OF SIGNS.
E. WHERE NOTED IN THESE PLANS.

8) LITTER REMOVAL AND MOWING:
LITTER REMOVAL AND MOWING SHALL BE PERFORMED THROUGHOUT THE ESTABLISHMENT PERIOD. THIS INCLUDES SOD AREAS, BOTH NEW AND EXISTING.

ENVIRONMENTAL NOTES

1) THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE PROJECT ENGINEER AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE.

2) ALL LANDSCAPE IS DESIGNATED TO REMAIN UNLESS OTHERWISE NOTED IN PLANS. ALL LANDSCAPE WITHIN 5 FEET OF CONSTRUCTION ACTIVITIES SHALL BE PROTECTED AS PER DESIGN STANDARDS INDEX 544. COST OF TREE PROTECTION TO BE INCLUDED IN THE RELATED PAY ITEM.

3) CONTRACTOR SHALL NOT STAGE OR OPERATE EQUIPMENT WITHIN THE DRIPLINE OF TREES.

4) ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES. COST TO BE INCLUDED IN THE RELATED BID ITEM.

5) UNIDENTIFIED AREAS OF CONTAMINATION:
a. WHEN ENCOUNTERING OR EXPOSING ANY ABNORMAL CONDITION INDICATING THE PRESENCE OF A HAZARDOUS OR TOXIC WASTE, OR CONTAMINANTS, CEASE OPERATIONS IMMEDIATELY IN THE VICINITY AND NOTIFY THE PROJECT ENGINEER. THE PRESENCE OF TANKS OR BARRELS; DISCOLORED EARTH, METAL, WOOD, GROUND WATER, ETC.; VISIBLE FUMES; ABNORMAL ODORS; EXCESSIVELY HOT EARTH; SMOKE; OR OTHER CONDITIONS THAT APPEAR ABNORMAL MAY INDICATE HAZARDOUS OR TOXIC WASTES OR CONTAMINANTS AND MUST BE TREATED WITH EXTREME CAUTION.

b. MAKE EVERY EFFORT TO MINIMIZE THE SPREAD OF CONTAMINATION INTO UNCONTAMINATED AREAS. IMMEDIATELY PROVIDE FOR THE HEALTH AND SAFETY OF ALL WORKERS AT THE JOB SITE AND MAKE PROVISIONS NECESSARY FOR THE HEALTH AND SAFETY OF THE PUBLIC THAT MAY BE EXPOSED TO ANY POTENTIALLY HAZARDOUS CONDITIONS. PROVISIONS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS OR CODES COVERING HAZARDOUS CONDITIONS AND WILL BE IN A MANNER COMMENSURATE WITH THE GRAVITY OF THE CONDITIONS.

c. THE PROJECT ENGINEER AND/OR PRIME CONTRACTOR WILL COORDINATE AND MOBILIZE A QUALIFIED CONTAMINATION ASSESSMENT/REMEDIATION (CAR) CONTRACTOR. QUALIFICATIONS OF SUCH CAR CONTRACTOR SHALL INCLUDE: EXPERIENCE AND PERSONNEL TO PREPARE CONTAMINATION ASSESSMENT PLANS, CONDUCT CONTAMINATION ASSESSMENTS, PREPARE SITE ASSESSMENT REPORTS, IMPLEMENT REMEDIAL ACTION PLANS, RISK BASED CORRECTIVE ACTIONS OR ANY OTHER TYPE OF ENVIRONMENTAL ASSESSMENT OR REMEDIAL ACTIVITIES AS NECESSARY.

d. ALL THE WORK PERFORMED BY THE CAR CONTRACTOR SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS. THIS IS TO INCLUDE OCCUPATIONAL EXPOSURE TO CONTAMINATED SOILS, GROUNDWATER, WASTES AND ATMOSPHERE DURING THE CONSTRUCTION OF ALL FEATURES INCLUDED IN THE CONSTRUCTION PLANS. IN ADDITION, THE CAR CONTRACTOR MUST BE STAFFED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND HOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES.

e. THE PROJECT ENGINEER WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT VI CONTAMINATION IMPACT COORDINATOR (DCIC) AT (305) 470-5228 AFTER ENCOUNTERING THE UNIDENTIFIED AREAS OF CONTAMINATION. PRELIMINARY INVESTIGATION BY THE CAR CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE.

f. FOLLOWING COMPLETION OF THE PROJECT, THE CAR CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF ALL REPORTS SUBMITTED TO REGULATORY AGENCIES, WASTE MATERIAL PROFILES, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE PROJECT ENGINEER AND THE FDOT DCIC.

PAY ITEM NOTES

101-1 MOBILIZATION
INCLUDES TEMPORARY REMOVAL AND RESTORATION OF EXISTING GUARDRAIL OR CHAIN LINK FENCE AS MAY BE REQUIRED TO GAIN ACCESS TO WORK AREAS.

110-1-1 CLEARING AND GRUBBING
A. INCLUDES REMOVAL OF ALL VINES, NATIVE AND NON NATIVE, FROM WITHIN THE PROJECT LIMITS, INCLUDING FROM FENCES AND WALLS
B. INCLUDES REMOVAL OF ALL CATEGORY I INVASIVE PLANT SPECIES.

580-1-2 SMALL PLANTS
A. INCLUDES SOIL BACKFILL MIXTURE.
B. INCLUDES FERTILIZER AND ITS APPLICATIONS FOR THE ESTABLISHMENT PERIOD.
C. INCLUDES WATER AND ITS APPLICATIONS FOR THE ESTABLISHMENT PERIOD.

580-1-2 LARGE PLANTS
A. INCLUDES SOIL BACKFILL MIXTURE.
B. INCLUDES FERTILIZER AND ITS APPLICATIONS FOR THE ESTABLISHMENT PERIOD.
C. INCLUDES WATER AND ITS APPLICATIONS FOR THE ESTABLISHMENT PERIOD.
D. INCLUDES TREE, PALM AND SHRUB PRUNING WHERE MAY BE NOTED IN THE PLANS.
E. INCLUDES USE OF NON-NURSERY BASED PLANT STOCK AS MAY BE REQUIRED.

580-70 IRRIGATION
INCLUDES THE COST OF FURNISHING AND INSTALLING THE COST OF THE LOAD CENTER FOR THE PUMP (INCLUDING CONDUITS, CONDUCTERS, AND ALL MATERIALS) AND INCLUDES THE COST FOR SPECIALTY ENGINEER TO INSPECT IT AND PROVIDE SIGNED AND SEALED REPORTS.

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON 900 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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(954) 733-7433
Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No. 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

DISTRICT STANDARD NOTES

SHEET NO. LD-5

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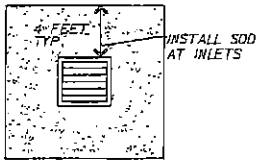
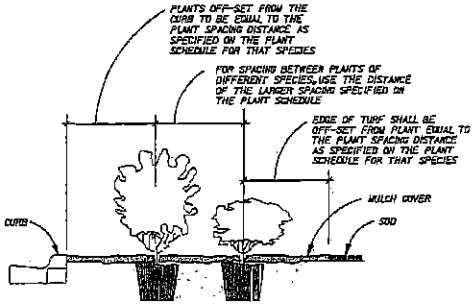


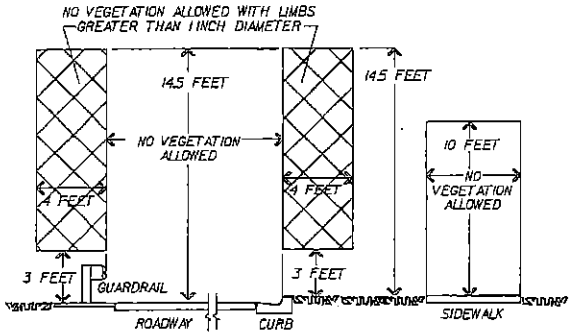
SOD INSTALLATION AT INLETS

N.T.S.



SHRUB SPACING DETAIL

N.T.S.



MAINTENANCE RATING PROGRAM REQUIREMENTS

N.T.S.

SUMMARY OF LITTER REMOVAL AND MOWING DURING CONSTRUCTION

CONST. PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL PAY ITEM 107-1			MOWING PAY ITEM 107-2			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)	
1	180	45	4	1.8	7.2	4	1.8	7.2	
			TOTAL	P	7.2	TOTAL	P	7.2	
				F			F		

SUMMARY OF LITTER REMOVAL AND MOWING DURING ESTABLISHMENT PERIOD

CONST. PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL PAY ITEM 107-1			MOWING PAY ITEM 107-2			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)	
1	365	45	8	1.8	14.4	8	1.8	14.4	
			TOTAL	P	14.4	TOTAL	P	14.4	
				F			F		

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON LA 900 STATE OF FLORIDA 11/25/12

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

DISTRICT STANDARD DETAILS

SHEET NO. LD-6

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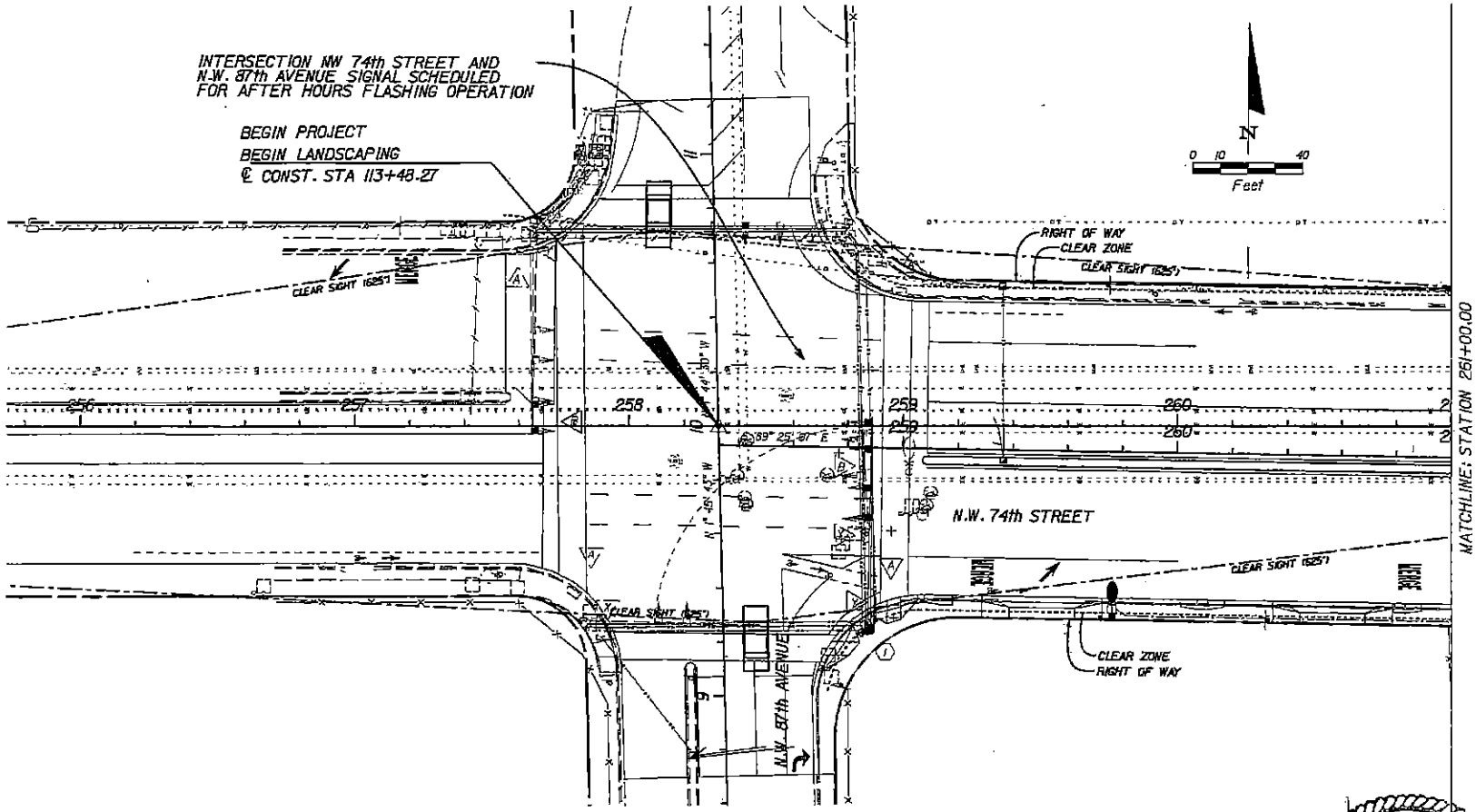

REGISTERED LANDSCAPE ARCHITECT
LA 900
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3230 W. Commercial Blvd., Ste. 100
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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No. 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

LANDSCAPE PLANS

SHEET NO.
LD-7

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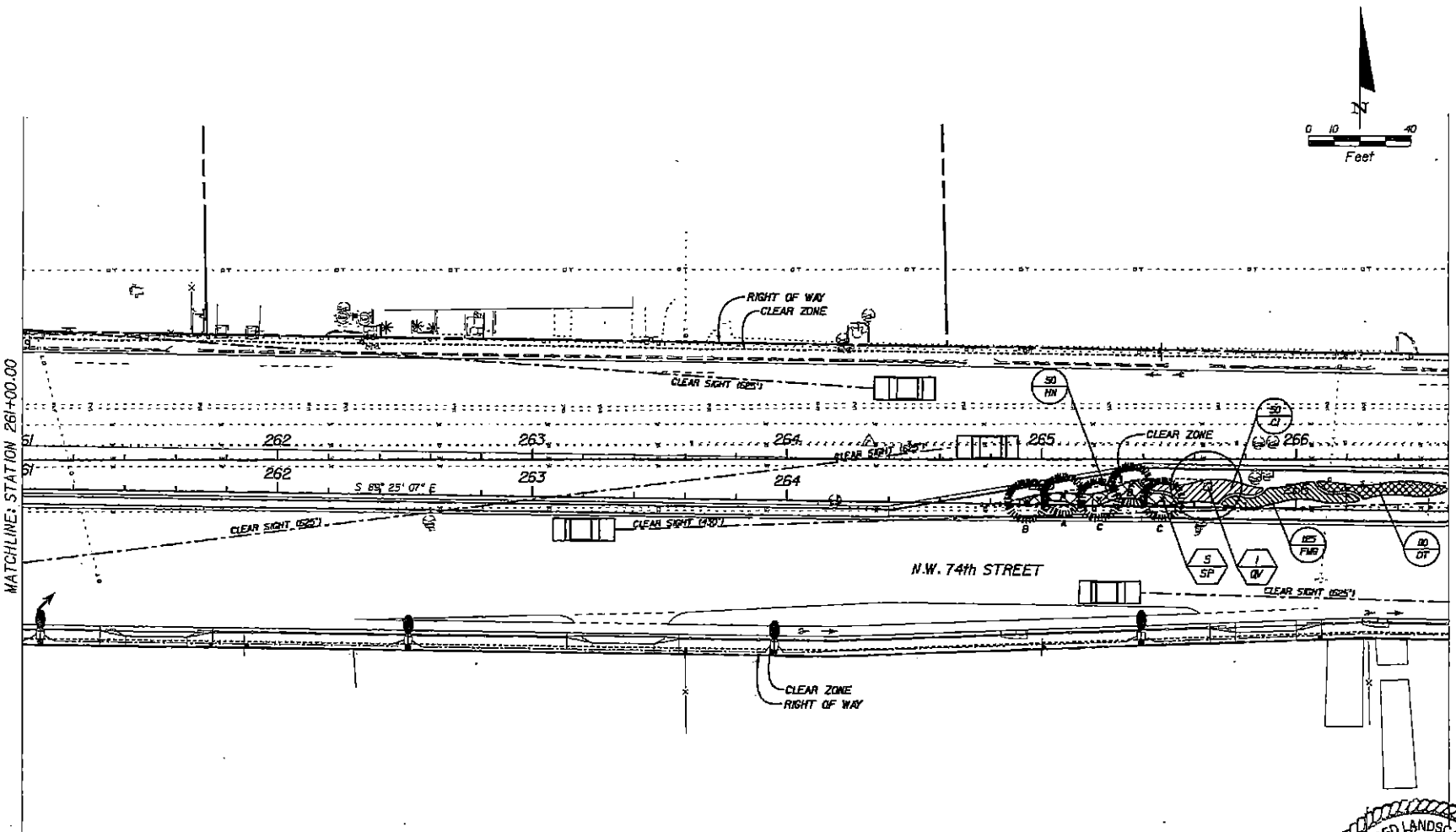

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

LANDSCAPE PLANS

LD-8

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
900
STATE OF FLORIDA

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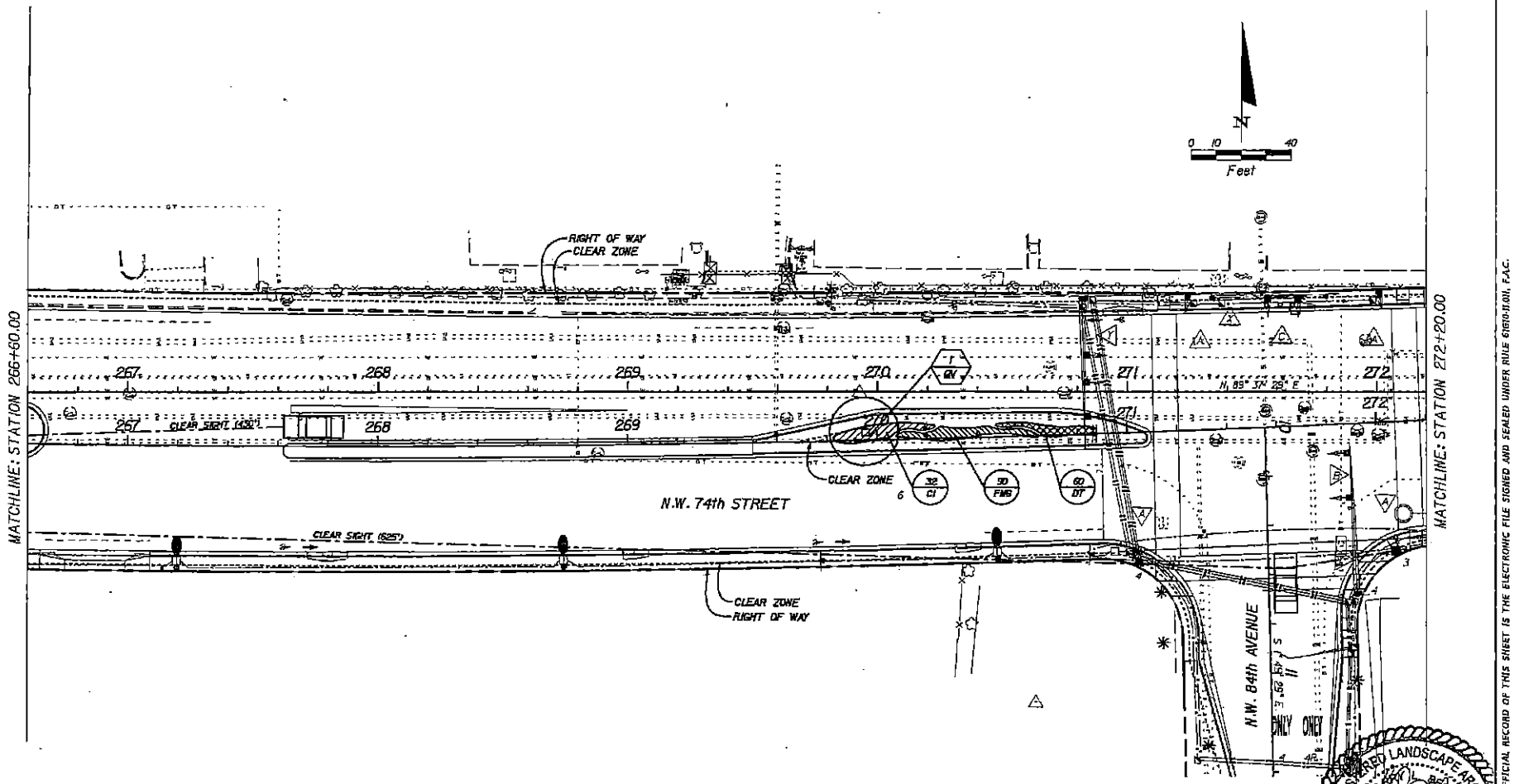

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3330 W. Commercial Blvd., Ste. 100
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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

LANDSCAPE PLANS

SHEET NO. LD-9

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
STATE OF FLORIDA

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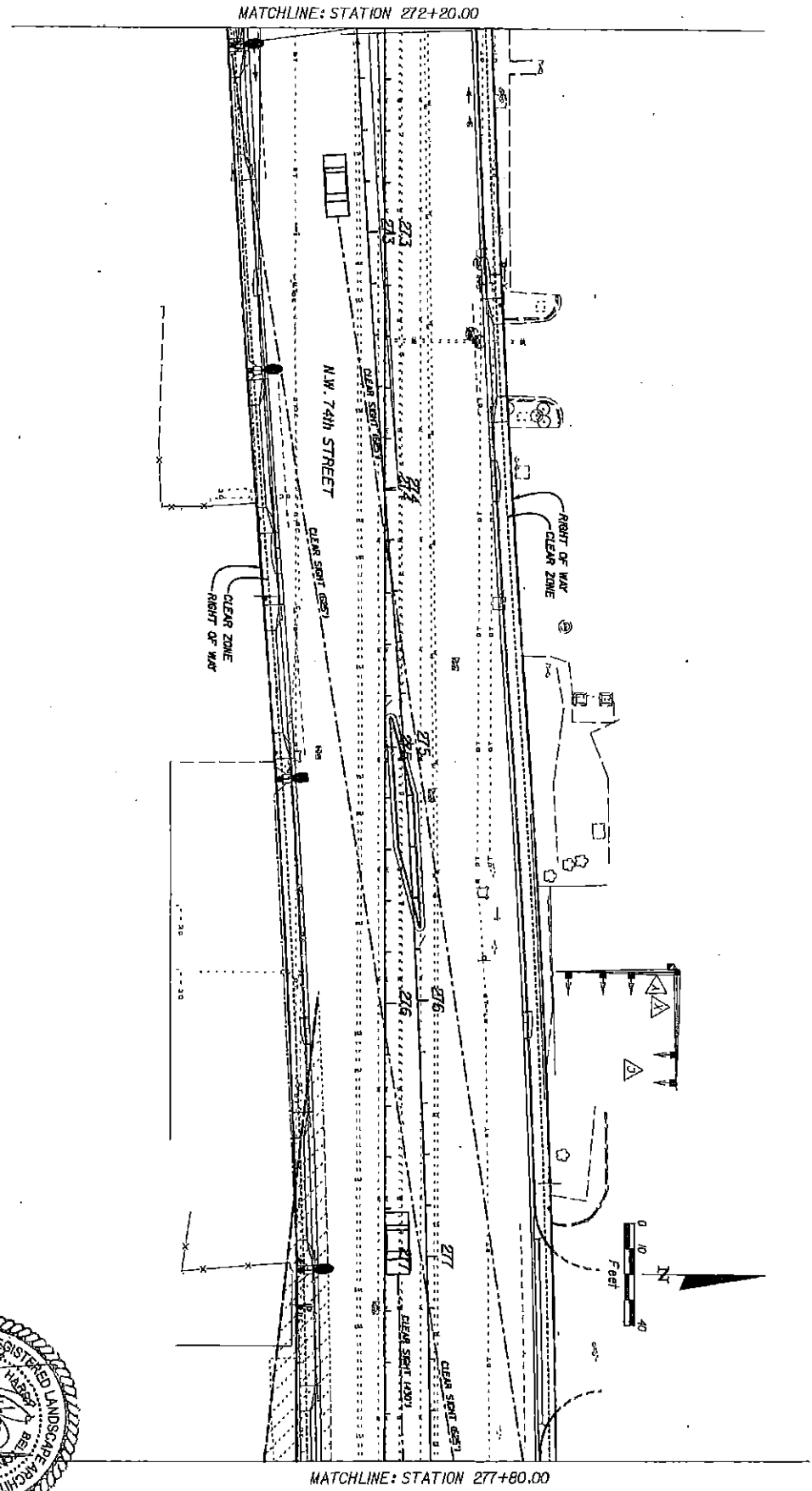

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3330 W. Commercial Blvd., Ste. 100
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(954) 733-7233
Certificate of Authorization No. 24
Harry L. Bolton, R.L.A. No. 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

LANDSCAPE PLANS

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
STATE OF FLORIDA

SHEET NO.
LD-10

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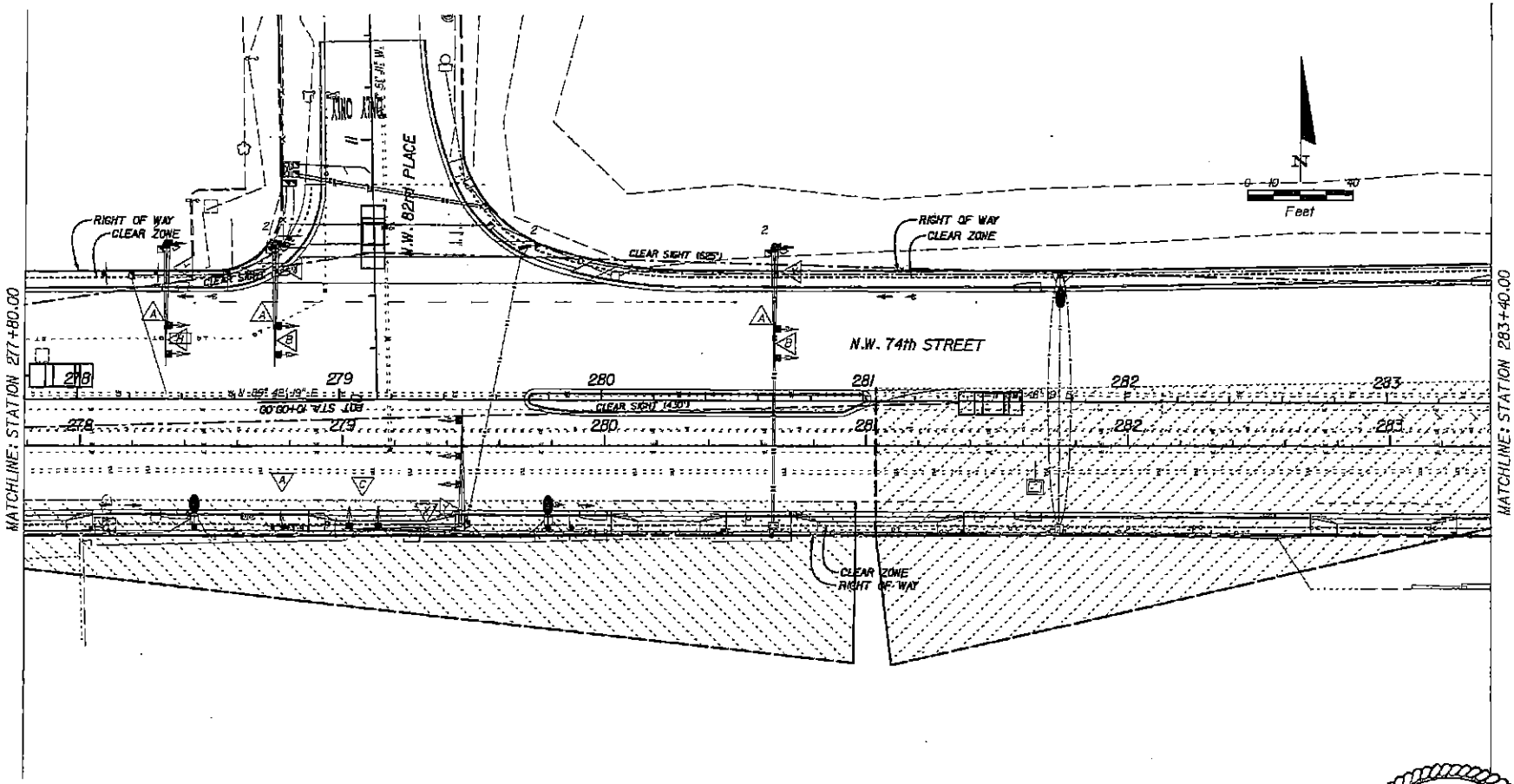

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REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
3730 W. Commercial Blvd., Ste. 100
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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

LANDSCAPE PLANS

SHEET NO.
LD-11

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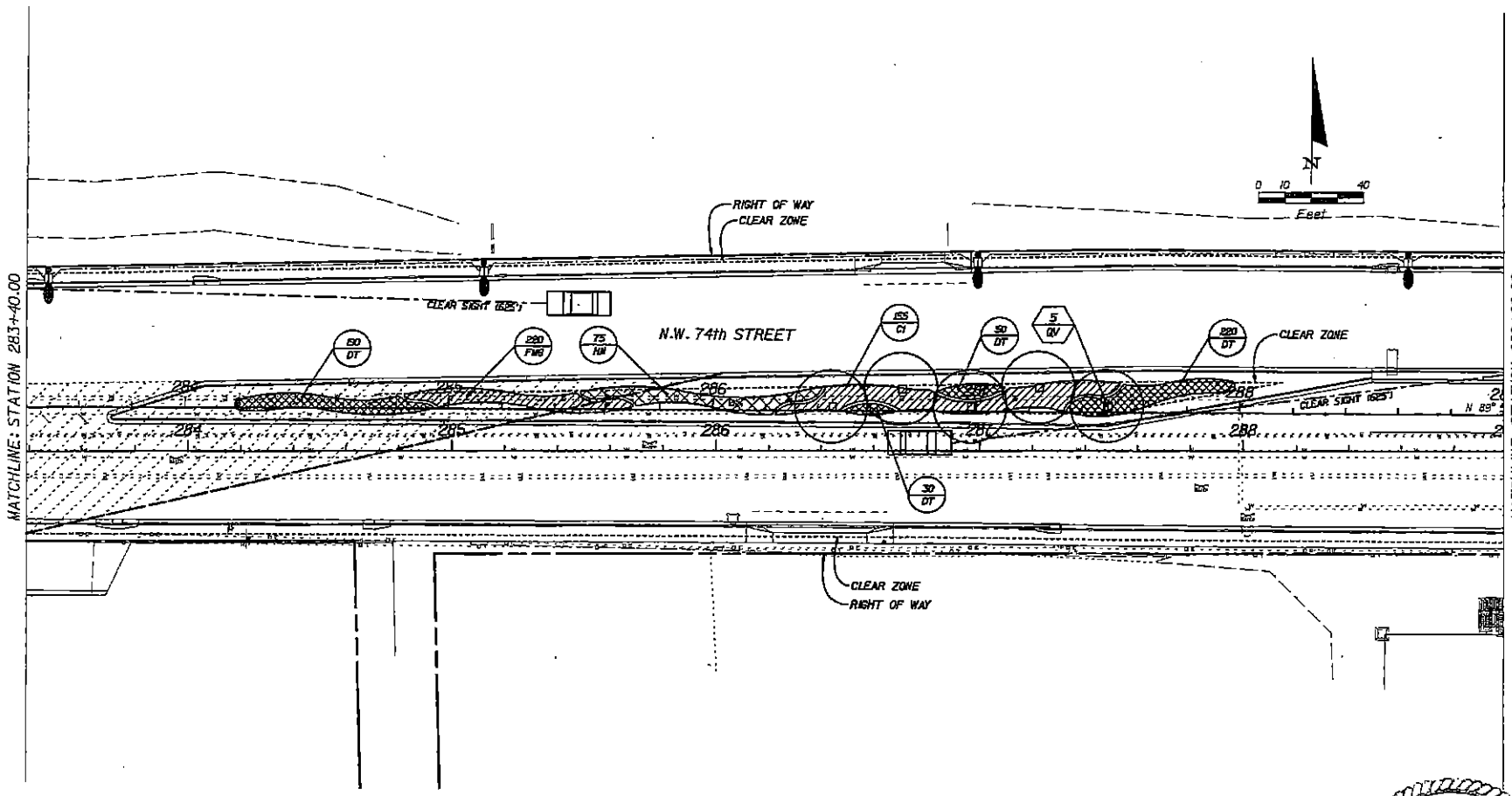

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC
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Certificate of Authorization No. 24
Harry L. Belton, R.L.A. No.: 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
STATE OF FLORIDA

LANDSCAPE PLANS

SHEET NO. LD-12

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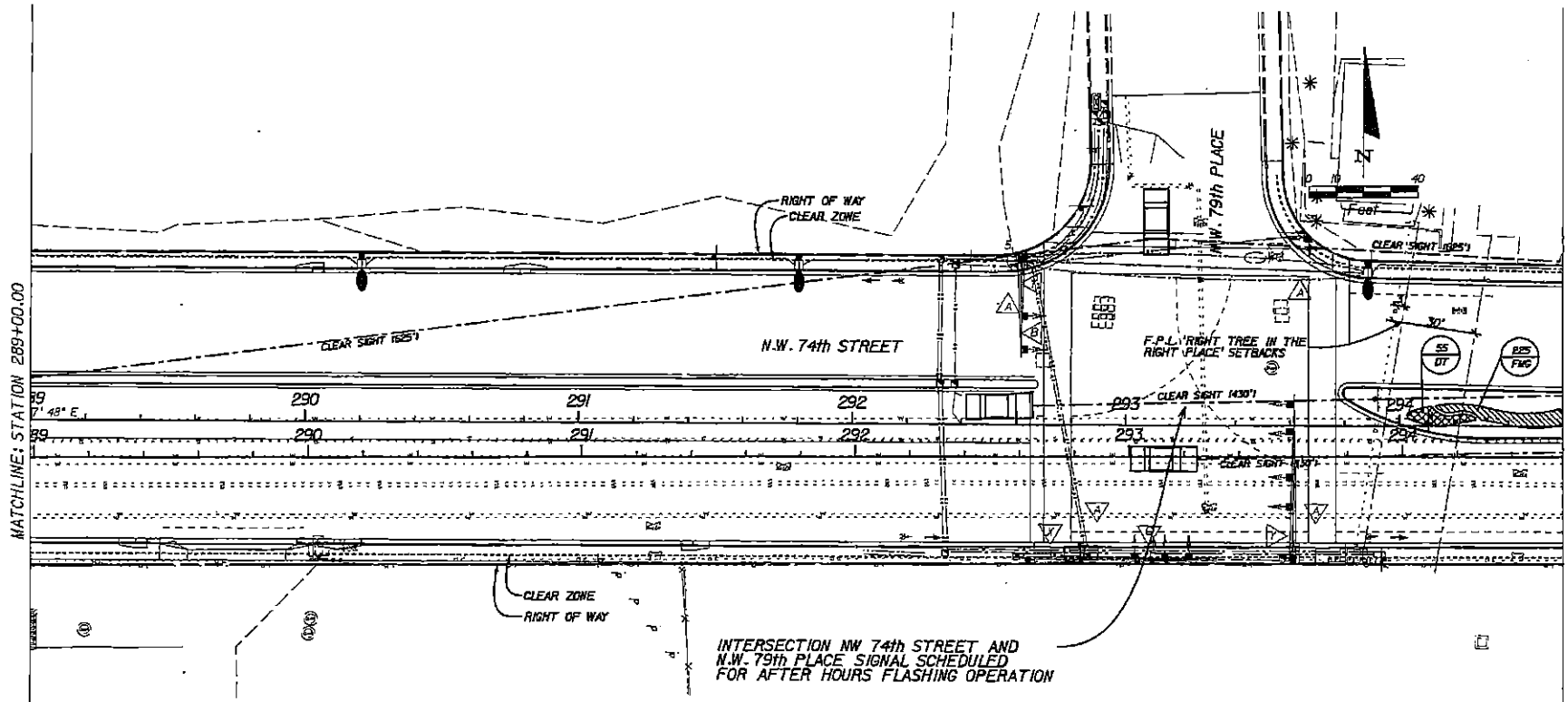

REGISTERED LANDSCAPE ARCHITECT HARRY L. BALTON LA 900 STATE OF FLORIDA

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DEPARTMENT OF TRANSPORTATION

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LANDSCAPE PLANS

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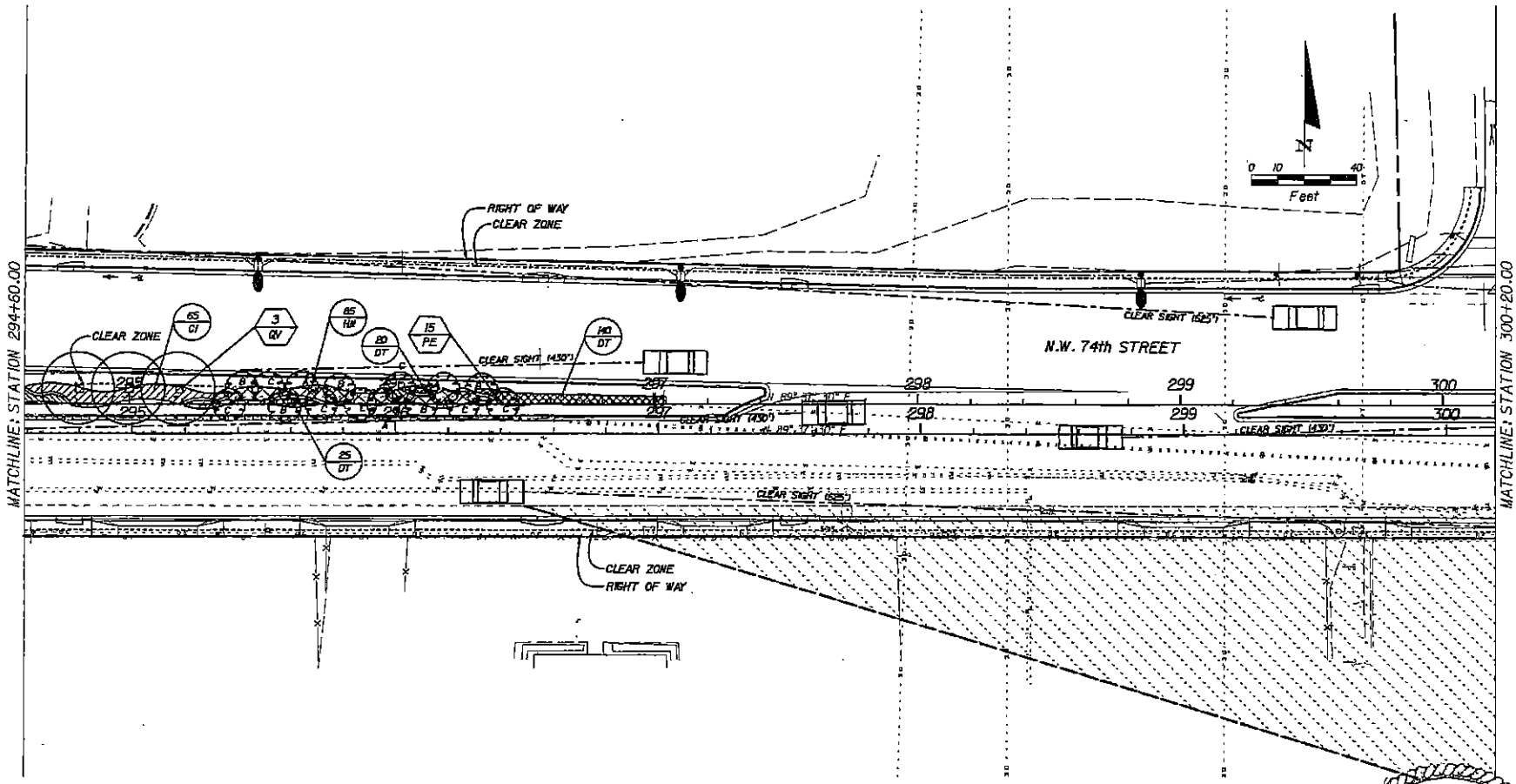

REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LA 900
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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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LANDSCAPE PLANS

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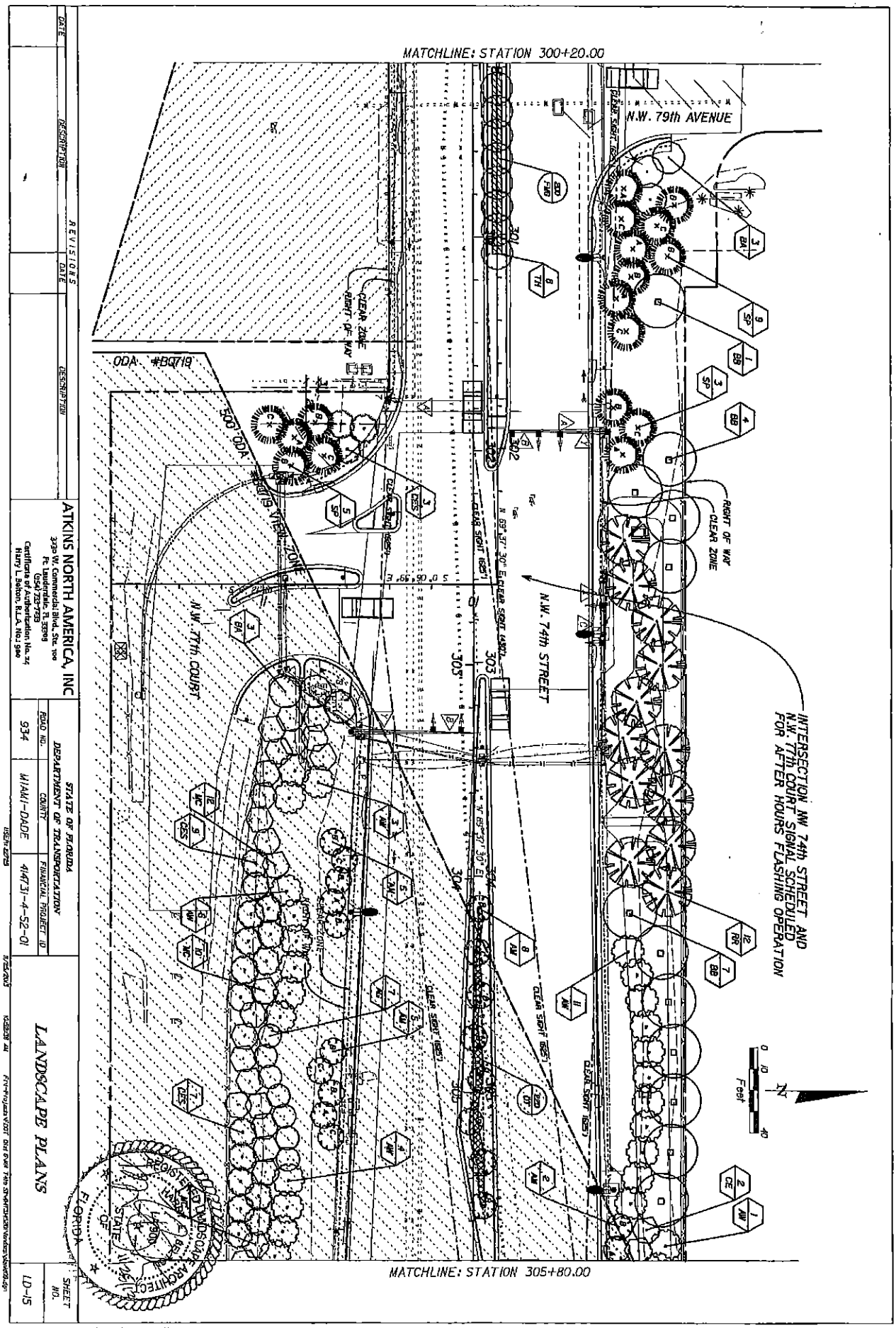

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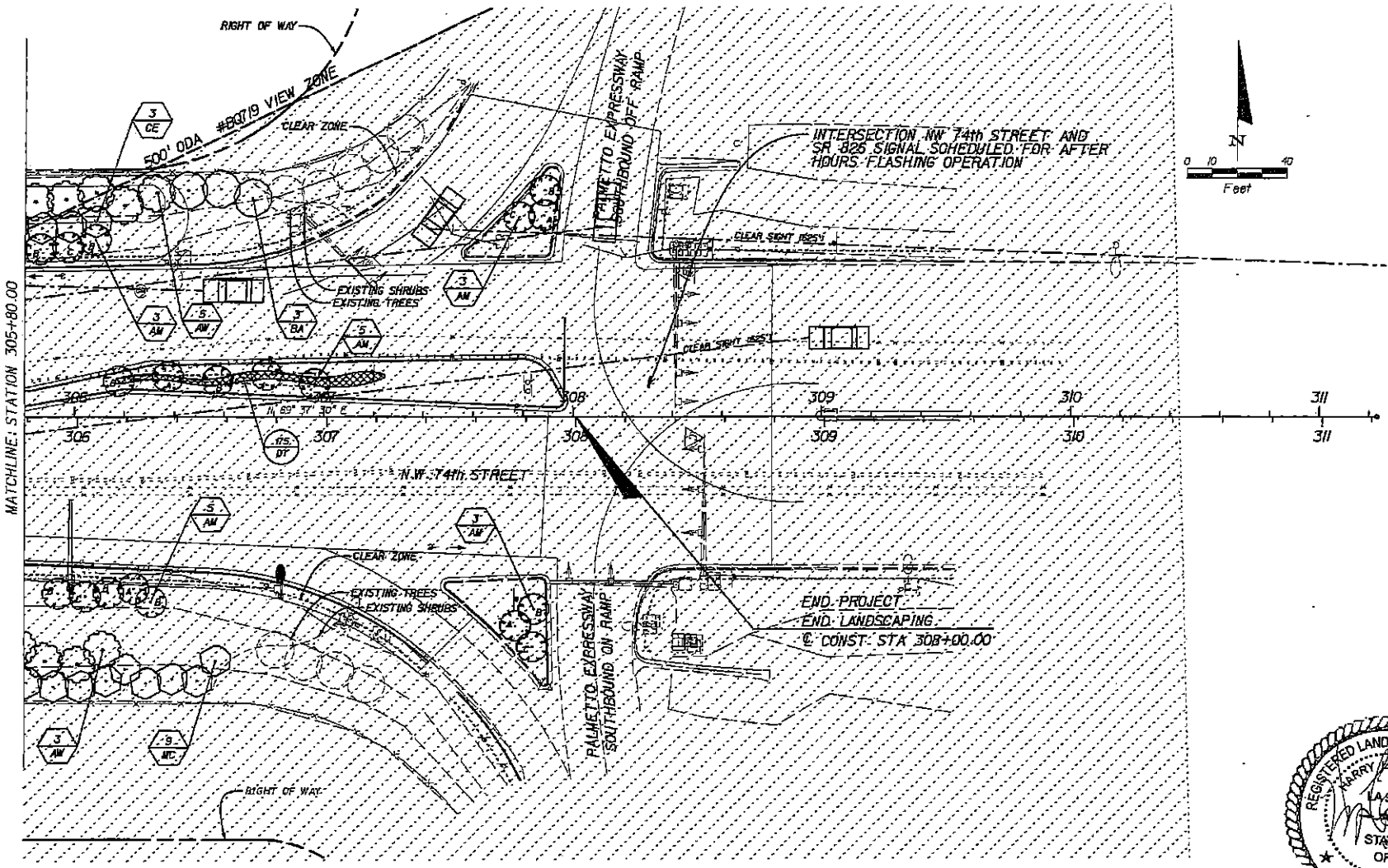

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STATE OF FLORIDA
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LANDSCAPE PLANS

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IRRIGATION NOTES

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.

2. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. THE IRRIGATION PLANS ARE TO BE USED AS A GUIDE ONLY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA, EXCEPT WHERE OTHERWISE NOTED IN THE IRRIGATION PLANS. ALL IRRIGATION LINES INSTALLED OUTSIDE OF PERVIOUS AREAS ARE SHOWN WITH IRRIGATION SLEEVING.

3. THE IRRIGATION DESIGN IS BASED ON THE REQUIREMENTS OF THE PROPOSED LANDSCAPE DESIGN AND/ OR EXISTING LANDSCAPE AND IRRIGATION DESIGNS AND ON-SITE FEATURES. THE CONTRACTOR SHALL REFER TO PROPOSED LANDSCAPE PLANS AND BE FAMILIAR WITH THE SITE PRIOR TO BIDDING THE PROJECT. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN AND EXISTING SITE FEATURES IN PREPARATION OF IRRIGATION HEAD LOCATIONS AND PIPING LAYOUT PRIOR TO CONDUCTING INSTALLATION.

4. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM (PAY ITEM No. 580-70) IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.

5. THE CONTRACTOR SHALL BE AWARE OF THE IRRIGATION WATER SOURCE, IT'S LOCATION, AND THE TYPE OF WATER THAT IS PROVIDED FOR THE PURPOSE OF IRRIGATING THE PROJECT. COMPONENTS OF THE IRRIGATION SYSTEM SHALL USE THE CORRECT COLOR-CODED EQUIPMENT AND MEET THE NECESSARY FUNCTIONAL REQUIREMENTS OF THE WATER TYPE PROVIDED BY THE PROPOSED WATER SOURCE.

6. ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT OF WAY.

7. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW AND FURNISHED TO THE OWNER DIRECT OR THROUGH THE CONTRACTOR BY THE MANUFACTURER OR AN AUTHORIZED DEALER, EXCEPT AS SPECIFIED IN THE PLANS.

8. TWO FULL BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 811, AND THE UTILITY OWNERS AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.

9. THE TOWN OF WEDLEY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION. THE TOWN OF WEDLEY MAINTENANCE DEPARTMENT SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.

10. ALL IRRIGATION COMPONENTS AND THIER INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.

11. NEW IRRIGATION SLEEVES SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. ALL SLEEVES SHALL BE HDPE AND TAPED CLOSED AT BOTH ENDS WITH VISUAL MARKERS AT THE SURFACE.

12. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE OF MEDIANS AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.

13. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE, AT THE WORKING PRESSURE, WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. THE TEST SHALL MONITOR THE PRESSURE GAUGES FOR TWO FULL AND CONTINUOUS HOURS. THE TEST MUST RESULT IN NO PRESSURE LOSS. EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.

14. ZONE LINE PIPING SHALL BE PVC CLASS 200 IPS PLASTIC PIPE OR APPROVED EQUAL.

15. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, AND SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. ALL ELECTRICAL CONNECTORS SHALL BE IRRIGATION GRADE, AND WATERPROOF. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.

16. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. THE BOTTOM OF EACH BOX SHALL BE LINED WITH GRAVEL TO A MINIMUM DEPTH OF 6". ALL PRESSURE GAUGES SHALL HAVE A 2" PLASTIC FACE AND READ FROM 0 TO 60 PSI.

17. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEMS SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.

18. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.

19. THE IRRIGATION SYSTEM SHALL BE INSTALLED AND MAINTAINED TO MINIMIZE THE AMOUNT OF UNDESIRABLE OVERSPRAY ONTO SIDEWALKS, ROADWAYS, WALLS, AND BUILDINGS.

20. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
- CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
- A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
- AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR THE PUMP AND WELL REQUIRED FOR THE PROPOSED IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE MINIMUM WELL REQUIREMENTS NECESSARY TO MEET THE DEMANDS OF THE PROPOSED IRRIGATION SYSTEMS. THE FINALIZED WELL AND PUMP LOCATIONS SHALL BE IN CLOSE PROXIMITY TO THE LOCATION PROVIDED IN THE IRRIGATION PLANS AND SHALL BE APPROVED BY THE MAINTAINING AGENCY PRIOR TO CONSTRUCTION.

22. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FILED. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.

23. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

24. INCLUDE INSTALLATION OF 'TRACE WIRE'

SUMMARY OF IRRIGATION PLAN - KEY MATERIAL LIST

DESCRIPTION	UNITS	TOTALS ORIG	TOTALS FINAL
IRRIGATION LINES			
2-1/2" MAIN	LF	4075	
6" SLEEVE	LF	275	
2" LATERAL LINE	LF	35	
1½" LATERAL LINE	LF	25	
1¼" LATERAL LINE	LF	270	
1" LATERAL LINE	LF	1525	
¾" LATERAL LINE	LF	2935	
3" SLEEVE	LF	530	
IRRIGATION VALVES			
RAIN BIRD: 150-PESB, 1-1/2" ELECTRIC CONTROL VALVE	EA	12	
VALVE BOX: VB-STD	EA	12	
IRRIGATION PUMP			
CENTRIFUGAL PUMP SYSTEM (INCLUDING ALL ITEMS ILLUSTRATED IN DETAIL)	EA	1	
IRRIGATION SPRAY BODIES			
RAIN BIRD: 1806-PRS, 6" POP-UP SPRAY HEAD	EA	347	

THE QUANTITIES SHOWN ARE APPROXIMATE. SOME QUANTITIES WILL VARY BY METHOD OF INSTALLATION. ALL METHODOLOGY WILL BE WITH THE APPROVAL OF THE PROJECT ENGINEER.

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON JR. LA 900 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

IRRIGATION NOTES

SHEET NO. LD-17

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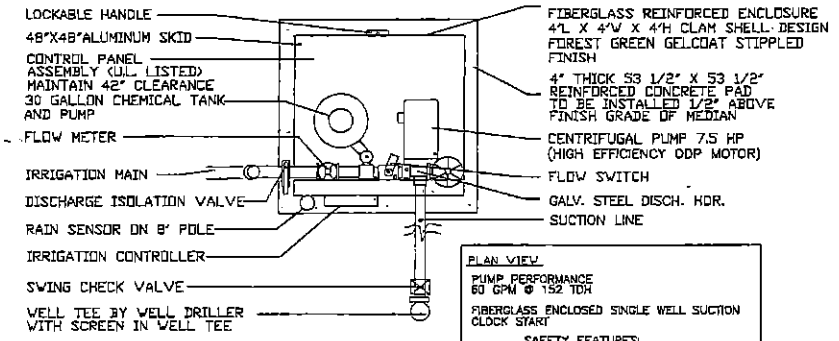


PLAN VIEW

PUMP PERFORMANCE
60 GPM @ 152 TDH

FIBERGLASS ENCLOSED SINGLE WELL SUCTION CLOCK START

SAFETY FEATURES:
CLOCK START
-TRANSIENT SURGE
-LOSS OF PRIME
-NO FLOW

HOOVER PUMPING MODEL:
HCP-7.5CS-230/3-CE-12.M.W.Z
Pompano Beach, Florida, Tel: 954-971-7358

NOTE: SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TO THE WELL TEE. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE

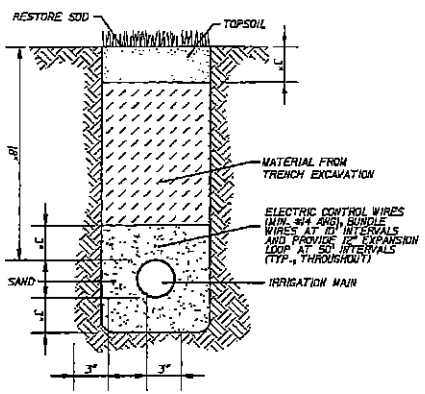
MAXIMUM VERTICAL LIFT FROM WELL PUMPING LEVEL TO PUMP PAD ELEVATION IS 10'

PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEMS

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
__ PRESSURE CONTROL VALVE
X IRRIGATION CONTROLLER RAIN BIRD ESP-LXME MODULAR, 12 STATIONS, RAIN SENSOR ON 8' POLE
__ PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

CENTRIFUGAL PUMP SYSTEM DETAIL

NOT TO SCALE



TRENCHING DETAIL

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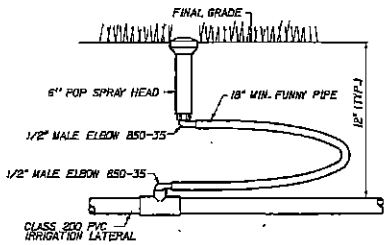
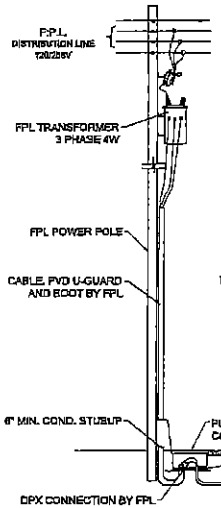


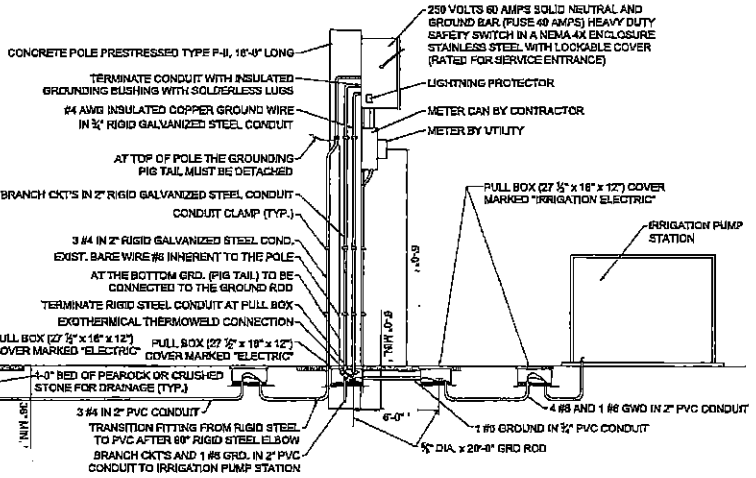
SPRAY HEAD INSTALLATION

NOT TO SCALE



SERVICE POINT NOTES:

1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
2. THE ENCLOSURE DOOR SHALL BE LOCKABLE BY PADLOCK AND FOUR KEYS PROVIDED TO THE MAINTAINING AGENCY.
3. A 600V LIGHTNING PROTECTOR SHALL BE WIRED INSIDE THE ENCLOSURE.
4. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
5. CONTRACTOR SHALL COORDINATE WITH F.P.L. ENGINEERS FOR THE INSTALLATION OF THE F.P.L. METER WHICH INCLUDES A FEE OF 165.00 DOLLARS. (THIS FEE SHALL BE INCLUDED IN BID ITEM)
6. PULLBOX SHALL BE CONCRETE OR POLYMER REINFORCED BY HEAVY WEAVE FIBERGLASS WITH POLYMER HEAVY DUTY TRAFFIC COVER.
7. ALL CONDUCTOR SHALL BE TYPE USE/RHH-RHW. OTHER TYPE OF CONDUCTOR IS NOT ALLOWED, EXCEPT GROUND WIRE WHICH SHALL BE TYPE THW OR THWN-2



SERVICE POINT DETAIL

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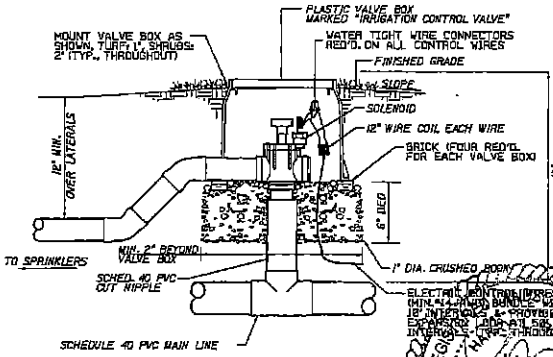
COORDINATE WORK WITH FLORIDA POWER & LIGHT



VALVE INSTALLATION

NOT TO SCALE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

IRRIGATION DETAILS

SHEET NO. LD-18

REGISTERED LANDSCAPE ARCHITECT LA 900 STATE OF FLORIDA

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IRRIGATION PIPING AND ACCESSORIES SPECIFICATIONS

PART 1 GENERAL

1.01 WORK INCLUDED
A. The work included in this Section consists of furnishing all labor, equipment and materials and in performing all operations necessary for the construction or installation of all piping, controllers, valves, valve boxes, heads, well, pump and appurtenances for the irrigation system, complete and ready for operation as shown on the Drawings and specified herein.

1.02 QUALITY ASSURANCE
A. Design Requirements: Cover on pipe shall be 18-inches for main lines, 12-inches for branches, except as otherwise indicated on the Drawings. Pipe Inspection: The Contractor shall obtain from the pipe manufacturers a certificate of inspection to the effect that the pipe and fittings supplied for this Contract have been inspected at the plant and that they meet the requirements of these specifications.

B. All pipe and fittings shall be subjected to visual inspection at time of delivery, also just before they are lowered into the trench to be laid, and joints or fittings that do not conform to these specifications will be rejected and must be removed immediately by the Contractor. Products may be rejected when, in the opinion of the Owner, the methods of manufacture fail to secure uniform results, or where the materials used are such as to produce inferior pipe or fittings.

1.03 SUBMITTALS
A. Shop Drawings: the following shop or data drawings shall be submitted for approval:
1. All PVC Pipe and Test Certificates of PVC Pipe
2. Electrical Wiring and Connections
3. All Irrigation Heads and Nozzles
4. All Valves and Valve Boxes
5. All Irrigation Controllers
6. Centrifugal Pump System (Including All Illustrated Details)
7. Irrigation Well

PART 2 PRODUCTS

2.01 MATERIALS
A. Polyvinyl Chloride Pipe and Fittings:
1. Pipe:
a. Polyvinyl Chloride (PVC) plastic pipe 2-inches and larger in diameter shall conform to the requirements of ASTM Designation D 1785, Schedule 40 pipe for a minimum pressure rating of 200 psi at 73.4 F. All PVC pipe shall bear the approval seal of the National Sanitation Foundation (NSF) for potable water pipe.

b. Polyvinyl chloride smaller than 2-inches shall conform to the requirements of ASTM Designation D 2241, Class 200 pipe with a minimum pressure rating of 200 psi at 73.4 for unthreaded pipe. Schedule 80 pipe shall be provided for threaded connections.

2. Fittings:
a. PVC pipe fittings 2-inches and larger shall be furnished by the manufacturer of the pipe with, which they are used and conform to the requirements of ASTM Designation D 2467. All PVC pipe fittings shall bear the approval seal of the National Sanitation Foundation (NSF) for potable water pipe.

b. Fittings for PVC pipe smaller than 2-inches shall be Schedule 40 PVC with solvent weld joints and conform to the requirements of ASTM Designation D 2467 and D 2464 respectively.

3. Joints:
a. PVC pipe 2-inches and larger shall have provisions for expansion and contraction provided in the joints. All joints, except solvent weld and threaded joints, shall be a rubber ring push-on type joint.
b. Joints in PVC pipe smaller than 2-inches shall be solvent welded in accordance with the recommendations of the pipe manufacturer using the solvent welding compound furnished with the pipe.

4. Conduit: PVC - Schedule 40 with Underwriters' Laboratories label.

5. Sleeving: PVC Schedule 80 or HDPE with Underwriters' Laboratories label.

B. Galvanized Steel Pipe: Galvanized steel pipe for pipe casings shall be Schedule 40 and conform to the requirements of ASTM Designation A 120.

C. Automatic Sprinkler Valves: The automatic sprinkler valves shall be electrically operated from a controller unit. The valves shall be Rain Bird model #150-PESB or approved equal.

D. Valve Enclosures: General: All enclosures shall be placed on a 6-inch bed of pearock or crushed rock for drainage. Valve enclosures shall be Rain Bird model series VB-STD or approved equal.

E. Controller: The automatic sprinkler valves shall be electrically operated from an automatic controller unit. The controller shall be as included in Section F below.

F. Single Centrifugal Pump System Clock Start:
1. General
a. To provide a complete prefabricated skid mounted clock start centrifugal pump system from a sole source company, herein after referred to as the "manufacturer", whose primary business is the manufacture of prefabricated pump systems. The manufacturer will manufacture, flow test, install and warrant the system to meet all specified operating requirements described below and in the system detail. The system shall be a Model HCF-7.5CS-230/3-C,P-12,M,W,Z as manufactured by Hoover Pumping Systems of Pompano Beach, Florida USA 954-971-7350 specified below and shown on the plan details. This specification describes the general components and minimal operating requirements and shall not be construed as a manufacturing guide or complete list of required system components and appurtenances.

b. The contractor shall submit seven (7) complete copies of the shop drawings to the designer for approval, prior to system order placement. The submittal shall contain cut sheets for all system components. To be considered an equal, the contractor must submit the following 12 days prior to bid opening: manufacturer brochure showing prefabricated pump systems manufacturing is the primary business of the manufacturer or division proposed to manufacture the system, written specifications, dimensioned layout detail, electrical schematic, product sheets for all main components, Underwriters Laboratories, Inc. 508A "Industrial Control Panels" and QCZJ "Packaged Pumping Systems" manufacturer's certification numbers, list of 6 projects with similar operating systems with contact name and phone number of person responsible for system operation, manufacturer's insurance certificate for general liability showing minimum coverage of $1 million, and written certification from the manufacturer stating the proposed system meets all requirements described in this specification, the detail and the bid documents.
If the data submitted is determined to be an equal by the designer the bidder will be notified prior to the bid date.

2. Components - Specific

a. Fiberglass Enclosure: The pump station shall be protected by a fiberglass enclosure with chemical and ultraviolet resistant open mold resin with exterior finish that is uniform in forest green color and texture, reinforced with fiberglass and stiffeners for rigidity. The enclosure shall open clear of the equipment for ease of service with the aid of gas filled struts, a corrosion resistant stainless steel hinge and latching lockable handle. The enclosure shall be of dimensions adequate to contain the pump system mounted on the skid as shown on the system detail.

b. Mounting Assembly: The pump station shall be mounted on a prefabricated aluminum or hot dipped galvanized skid. Fedestals shall be provided to mount the pump motor and control panel assemblies. The entire station shall be installed on a reinforced concrete slab sized as noted on the system detail.

c. Pump and Motor: The pump shall be a single-stage end-suction centrifugal type, with the liquid end mounted directly to the motor enclosure to allow rear pull out of the entire motor. A pressure sensor for loss of prime protection shall be mounted into the pump volute.

The system will be designed for operation at 3,450 RPM. The pump driving motor shall be of the squirrel cage induction type. The motor shall be suitable for full voltage starting at 60 Hz. The motor enclosure shall be totally open drip proof.

The main motor shall be rated at 7.5 HP at 60 Hz. Motor will not exceed 10HP when only single phase electric service is available.

d. Pump Station Performance: The required pump performance with a maximum of 12 ft. of suction lift is as follows: a) discharge pressure of 60 psi, b) maximum required flow of 60 GPM, and c) minimum required flow of 25 GPM.

Pump Motor Loads

Load	Horsepower	Amps	Service Factor
Pump#1	7.5	Based on voltage/phase	1.15
Control Panel	N/A	4	N/A

e. Irrigation Pump Control Panel: The control panel assembly shall be Underwriters Laboratories listed in accordance with section 508A for "enclosed industrial control panels." All control devices and electronic auto-sensory circuitry shall be housed in a self-contained weather-resistant NEMA 4 or 4X control cabinet. An electrical schematic shall be permanently mounted inside the cabinet. The control cabinet shall contain the following protection and control equipment:

Operation
The station operates as a clock start, clock reinforcment system. System features include Loss of Prime and No Flow protection. The system is equipped with "Loss Of Prime" and "No Flow" indicator lights, and a "Hand-Off/Reset-Auto" selector switch. The self-diagnostic control panel assembly includes LED status indication lights for power failure, no flow, loss of prime, and pump run. Pump clock start relay, and auxiliary contacts are provided.

Clock Start
The pump starts when the irrigation controller (clock) begins a watering sequence.

Clock Reinforcment
The pump shuts off when the clock completes a watering sequence.

Loss of Prime Protection
If the pressure in the pump volute falls below 20 PSI for 45 seconds during pump operation, the pump will shut off and the "Loss of Prime" light will turn on. The system will remain off until manually reset with the H-O-A selector switch.

No Flow Protection
If no flow is detected for 60 seconds during pump operation, the pump will shut off and the "No Flow" light will turn on. The pump will remain off for 12 minutes and then will restart. The "No Flow" light will remain on until manually reset with the H-O-A selector switch to notify the irrigation maintenance personnel of potential field valve failure.

Hand Off / Reset Auto Switch
The station is equipped with an H-O-A selector switch, which operates as follows:

Position	Function
Hand	- Manual pump start. This position overrides all protective features and start controls.
Off / Reset	- Pump will not run. This position resets all alarms.
Auto	- Pump will start automatically. In this position, all start controls and protective features are active.

Protection Equipment
- Front operated main power disconnect
- Time delayed motor starter fuses for motor short circuit protection
- Full voltage class 10 IEC motor starter
- Metal oxide varistors (MOV) for transient voltage suppression per phase
- Fused control circuitry with blown fuse lighted indicator for each circuit

f. Penetration Standard Requirements: All control panel penetrations shall be performed by a licensed electrician to minimum NEMA 4X requirements, and compliant with International Electrotechnical Commissions (IEC) IP56 rating under its IP code, to protect against dust ingression and against any harmful effects from water projected in powerful jets from any direction and protection against corrosion.

g. Discharge Pipe Manifold: The pipe discharge manifold shall be constructed of galvanized steel pipe with galvanized roll groove fittings. A flow-switch, pressure gauge and hose bib will be provided on the station discharge. A water type butterfly valve will be provided at pump station discharge.

h. Injection System: An adjustable rate positive displacement pump shall be located inside the pump enclosure on or adjacent to the chemical tank connected to the pump system control panel and discharge pipe. The pump will have a pumping capacity of 6 to 30 gallons per day at up to 80 psi. The pump motor will be thermally protected and will stop pumping if the system backpressure exceeds the pump capacity. The tank will be made of polypropylene and have a capacity of 30 gallons with a refill hatch located on a concrete pad.

i. Flowmeter Inline Turbine: The flowmeter shall provide total and rate display with plus or minus 2% accuracy within its rated flow range at 14 to 228 psi. Reed switch provides pulse output. Body is constructed of cast iron with baked powder coating.

j. Suction Line: The minimum size suction line shall be 3" diameter or larger as required for a maximum of 5 feet per second velocity flow. If a reducing fitting is required at the pump suction, an eccentric reducer shall be installed. Any above ground pipe at the pump system exposed to sunlight shall be schedule 40 galvanized steel with galvanized roll groove fittings. Suction pipe and fittings shall be HDPE heat fused.

Well Source: The pump suction line shall run from the pump to the customer supplied well tee with hot dipped galvanized or high density polyethylene HDPE piping. Swing check valve placed at the well tee.

k. Irrigation Controller: A Rain Bird ESP-LXME modular model 12 stations irrigation controller and rain sensor on an 8' pole shall be mounted on the pump system. The controller shall be powered from a fuse block in the pump system control panel. The controller shall activate the pump via a relay in the control panel.

l. Warranties: Prior to shipping, the manufacturer shall flow test the system and submit a certified report to the designer stating the system is within 1% + or - of the specified flow rate and pressure, and meets the operational requirements.

The manufacturer of the pumping station shall warrant all components for a period of one (1) year from date of manufacture.

m. Electrical Supply: The system will be manufactured based on one of the following electrical configurations:

Voltage	Phase	Hertz	Panel Connections
208	1	60	4 Wires (A, B, Neutral, Ground)
230	1	60	4 Wires (A, B, Neutral, Ground)
208	3	60	5 Wires (A, B, C, Neutral, Ground)
230	3	60	4 Wires (A, B, C, Neutral, Ground)
460	3	60	4 Wires (A, B, C, Ground)

Three phase power is required for systems over 10 horsepower.

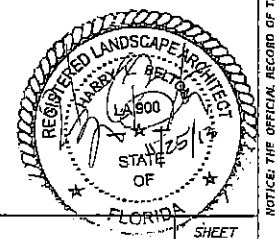
Electrical service calls will be necessary for startup and calibration.

G. Irrigation Well: The well shall include drilling of one 4" irrigation supply well to a depth that provides a constant supply of water adequate for the system (approximately 30 to 40 feet deep). Will include 4"galvanized casing, 4"galvanized tee, a concrete collar around the pipe to meet code specifications, and all other materials required for the complete installation for the well. The upper well terminus will be left 12"above grade.

Construction of the irrigation well shall include all the required permits and cost for those permits.

H. Irrigation Heads: The irrigation heads shall include 6"pop-up 1806-PRS sprinkler and spray nozzles as manufactured by Rain Bird as specified in the drawings. Sprinkler and spray nozzle delivery rate and coverage radius shall match the irrigation design in the drawings.

I. Wire in conformance with applicable building code.



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DATE	DESCRIPTION	DATE	DESCRIPTION	3230 W. Commercial Blvd., Ste. 100 Ft. Lauderdale, FL 33309 (954) 733-7362 Certificate of Authorization No. 24 Harry L. Belton, R.L.A. No.: 900	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-19
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IRRIGATION PIPING AND ACCESSORIES SPECIFICATIONS CONT.

PART 3 EXECUTION

3.01 PREPARATION

A. All pipe and fittings, valves and other material shall be subject to inspection and approval by the Owner after delivery and no broken, cracked, misshapen, or otherwise damaged or unsatisfactory material shall be used. During shipping, delivery and installing pipe, sprinkler equipment and accessories, they shall be handled in such a manner as to ensure a sound undamaged condition. When a defect is discovered, that portion shall not be installed.

B. At threaded joints between PVC and metal pipes, the metal shall contain the socket end and the PVC side the spigot. A metal spigot shall not, under any circumstances be screwed into a PVC socket.

3.02 INSTALLATION

A. Underground Piping:

1. Upon satisfactory excavation of the pipe trench, recesses for the pipe bells, or couplings, shall be excavated by hand digging. When the pipe is laid in the prepared trench, true to line and grade, the pipe barrel shall receive continuous, uniform support and no pressure will be exerted on the pipe joints from the trench bottom.

2. For all underground PVC irrigation supply piping where irrigation lines cross pavements, the lines shall be sleeved with existing or proposed sleeves as shown on the Drawings.

3. The interior of the pipes shall be thoroughly cleaned of all foreign matter before being gently lowered into the trench and shall be kept clean during laying operations by means of plugs or other approved methods. During suspension of work for any reason at any time, a suitable stopper shall be placed in the end of the pipe last laid to prevent mud or other foreign matter form entering the pipe. Lines shall be laid straight and depth of cover shall be maintained uniform with respect to finish grade, whether grading is completed or proposed at time of pipe installation. No abrupt changes in direction or grade will be allowed.

4. The joints of all pipelines shall be made absolutely tight. The particular joint used shall be approved by the Owner prior to installation.

5. Solvent weld joints shall be made in strict, complete compliance with the manufacturer's recommendations.

6. After pipe has been laid, inspected and found satisfactory, sufficient backfill shall be placed along the pipe barrel to hold the pipe securely in place during the conduction of the preliminary hydrostatic test. No backfill shall be placed over the joints until the preliminary test is satisfactorily completed, leaving them exposed to view for the detection of visible leaks.

7. Upon satisfactory completion of the preliminary hydrostatic test, backfilling of the trench shall be completed.

B. Aboveground and Exposed Piping:

1. Aboveground and exposed pipe fittings, valves and accessories shall be installed as shown or indicated on the drawings.

2. Piping shall be cut accurately to measurements established at the job site and shall be worked into place without springing or forcing, properly clearing all equipment access areas and openings. Changes in sizes shall be made with appropriate reducing fittings. Pipe connections shall be made in accordance with the details shown on the drawings and the manufacturer's recommendations. Open ends of pipe lines shall be properly capped or plugged during installation to keep dirt and other foreign material out of the system.

3. Flanged Joints shall be made up by inserting the gasket between the flanges. The threads of the bolts and the faces of the gaskets shall be coated with a suitable lubricant immediately before installation.

C. Valves: Valves shall be carefully inspected during installation; they shall be opened wide and then tightly closed and the various nuts and bolts shall be tested for tightness. Special care shall be taken to prevent any foreign matter from becoming lodged in the valve seat. Valves shall be set plumb at the locations indicated and in accordance with the details shown on the drawings.

D. Sprinkler: All sprinkler heads shall be installed using funny pipe as shown on the drawings. The sprinkler head shall be installed so that the top is slightly above the finished grade level. Back fill around the pipes and sprinkler shall be free of rocks, roots or foreign debris. If finished grade has not been established, the line shall be temporarily capped at the head and a stake marker placed. After the grade has been completed, the sprinkler head shall be set. The Contractor shall coordinate his operations with the various phases of the work.

E. Control Lines: All electric control lines shall be installed in the same trench with the irrigation main in a neat and orderly fashion. They shall be bundled together and taped every ten feet.

F. Pump Stations:

1. Location: The Project Manager for the Owner shall determine with the Contractor the exact location the station is to be installed in before the contractor pours the slab.

2. Contractor Supervision: A knowledgeable Contractor's personnel experienced at installing pump stations will personally supervise the installation from start to finish and be present at all times when the station is being installed in before the contractor pours the slab.

3. Concrete Slab: Pour slab using 2500 psi strength concrete. Pour slab according to the station manufacturer's specifications. The slab will be set level and on compacted earth.

4. Delivery and Downloading: Deliver pumpstation to the site intact with the irrigation controller preinstalled and wired into the station. The Contractor shall assure that the station manufacturer is responsible to deliver and set the station down.

3.03 FIELD QUALITY CONTROL

A. Flushing:

1. All lines shall be flushed prior to any installation of automatic sprinkler valves or sprinkler heads to remove all sand and other foreign matter with the velocity of the flushing water not less than 5-feet per second. Flushing shall be terminated at the direction of the Owner. The Contractor shall dispose of the flushing water without causing a nuisance or property damage.

2. All lines shall be flushed just before testing.

B. Pressure and Leakage Testing:

1. General: All pumps, gauges and measuring devices shall be furnished, installed and operated by the Contractor and all such equipment, devices and their installation shall be approved by the Owner. All pressure and leakage testing shall be done in the presence of a representative of the Engineer as a condition precedent to the approval and acceptance of the system. Pressure and leakage testing shall be performed after installation of the pipe and before the sprinkler heads are installed. The open ends of the pipe shall be provided with temporary caps to permit testing.

2. Pressure Tests for Lines:

a. Pressure piping installed under this Contract shall be subjected to a pressure test after the pipe has been installed and partially back-filled for underground installations. Each pressure test shall be maintained for at least two hours at 90 psi during which time all joints shall be examine for leaks.

b. Before application of test pressure, all air shall be expelled from the pipe. If permanent air vents are not located at all high points, the Contractor shall install corporation cocks or fittings and valves at such points so the air can be expelled as the pipe system is slowly filled with water. After expulsion of air, the corporation cocks, or other blowoff devices shall be closed and the test pressure applied.

c. All exposed pipe, fittings, valves and joints shall be carefully examined for leaks. All cracked, broken, or defective pipe fittings or valves discovered as a consequence of this pressure test shall be removed and replaced with sound material. All leaking, or defective joints shall be removed, repaired, replaced or corrected. After all necessary replacements and corrections, the test shall be repeated until satisfactory to the Owner.

1. Allowable Limits for Leakage of Pressure Piping:

a. The hydrostatic pressure tests shall be performed as here-in-above specified and no installation, or section thereof, will be accepted until the leakage is less than the number of gallons per hours as determined by the formula:

L = SD(P)1/2
133200

In which,

L = Allowable leakage, in gallons per hour
S = Length of pipe being tested in feet
D = Nominal pipe diameter, in inches
P = Average test pressure during the test, in psi gauge

b. Water shall be supplied to the line during the test period as required to maintain the test pressure as specified. The quantity used, which shall be compared to the above allowable quantity, shall be measured by pumping form the calibrated container.

c. Where leakage exceeds the allowable limit, as specified herein-before, the defective pipe or joints shall be located and repaired. If the defective portions cannot be located, the Contractor shall remove and reconstruct as much of the work as is necessary in order to conform to the specified limits. No additional payment will be made for the correction of defective work, or to damage to other parts of the work resulting from such corrective work.

C. Balancing and Adjustment: The Contractor shall set the irrigation time/controllers in the order of sequence by zones, as provided by the Engineer, and balance and adjust the various components of the sprinkler system so the overall operation of the system is most efficient. This includes a synchronization of the controllers, part circle sprinkler heads, and individual station adjustments on the controllers.

3.04 OPERATION AND MAINTENANCE MANUALS

A. The Contractor shall prepare and deliver to the Owner's Engineer within ten (10) calendar days prior to completion of construction a minimum of three (3) hard cover binders with three rings containing the following information:

1. Index sheets stating the Contractor's address and business telephone numbers, list of equipment with name(s) and address(es) of local manufacturer's representative(s).

2. Catalog and parts sheet on every material and equipment installed under this contract.

3. Complete operating and maintenance instruction on all major equipment.

4. Provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner at the conclusion of the project that this service has been rendered.

REGISTERED LANDSCAPE ARCHITECT HARRY L. BELTON LA 900 STATE OF FLORIDA 2/5/15

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ATKINS NORTH AMERICA, INC 3230 W. Commercial Blvd., Ste. 100 Ft. Lauderdale, FL 33309 (954) 733-7233 Certificate of Authorization No. 24 Harry L. Belton, R.L.A. No.: 900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION SPECIFICATIONS	SHEET NO.
	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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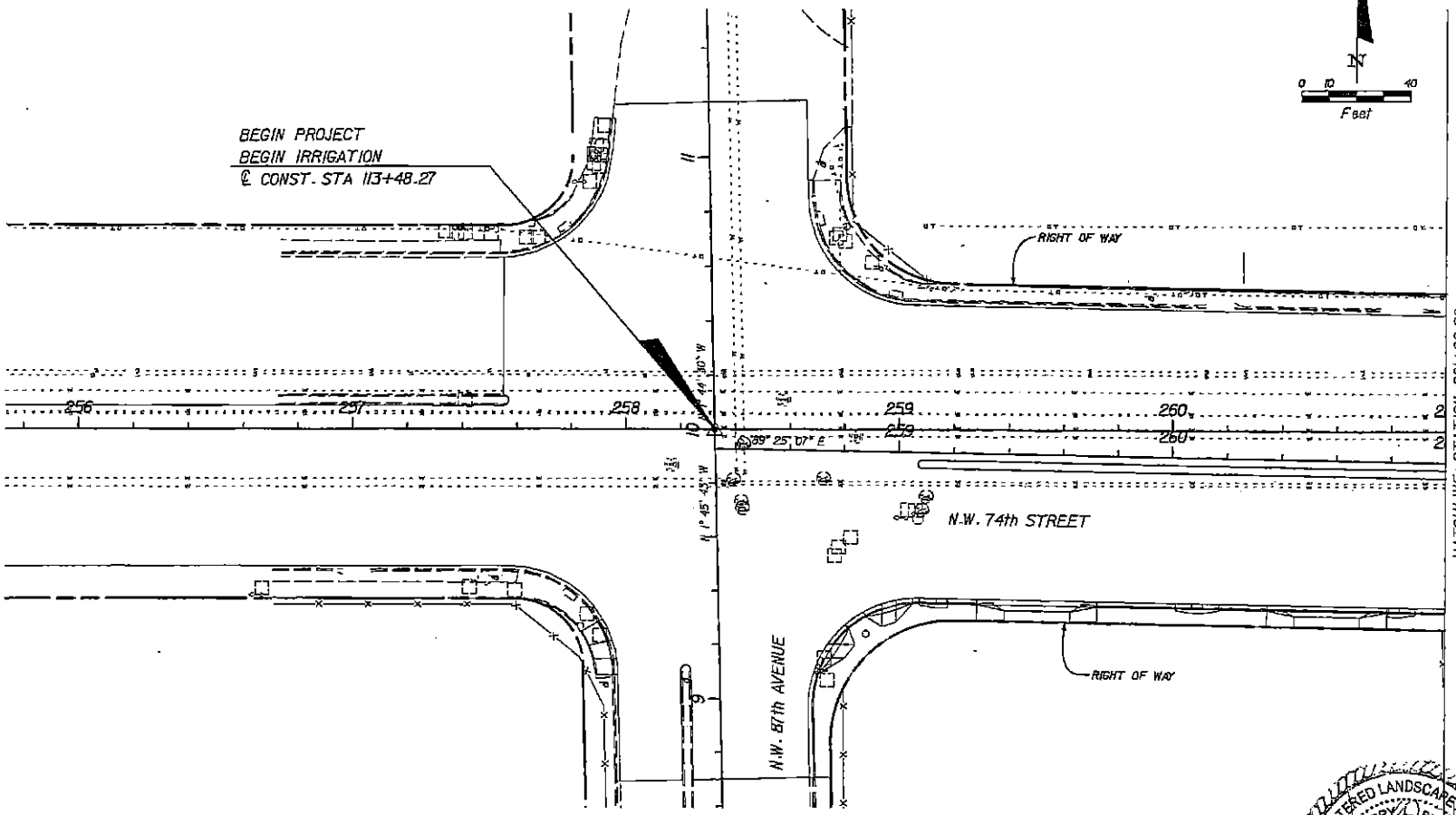

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934	MIAMI-DADE	414731-4-52-01

IRRIGATION PLANS

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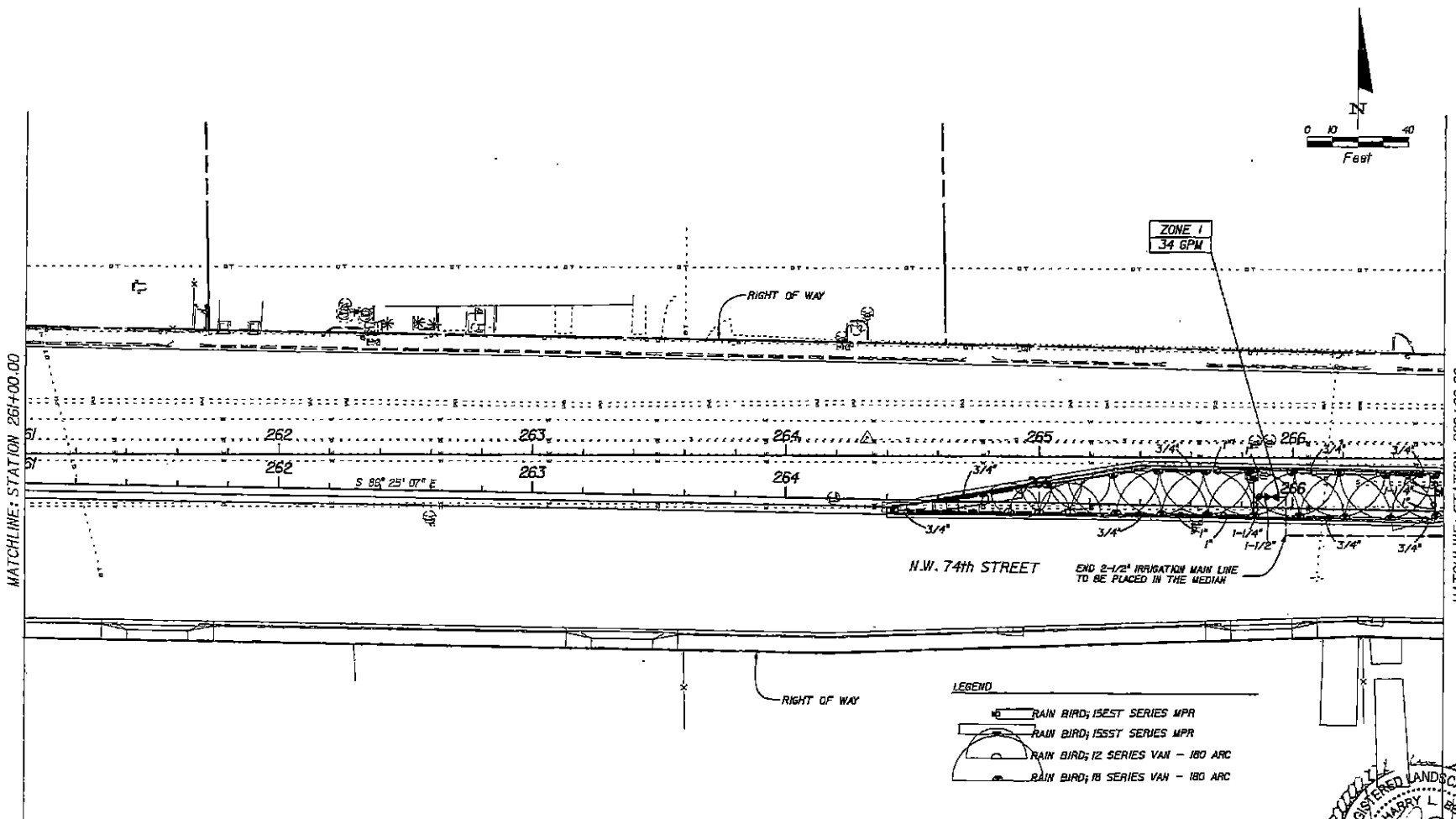

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IRRIGATION PLANS

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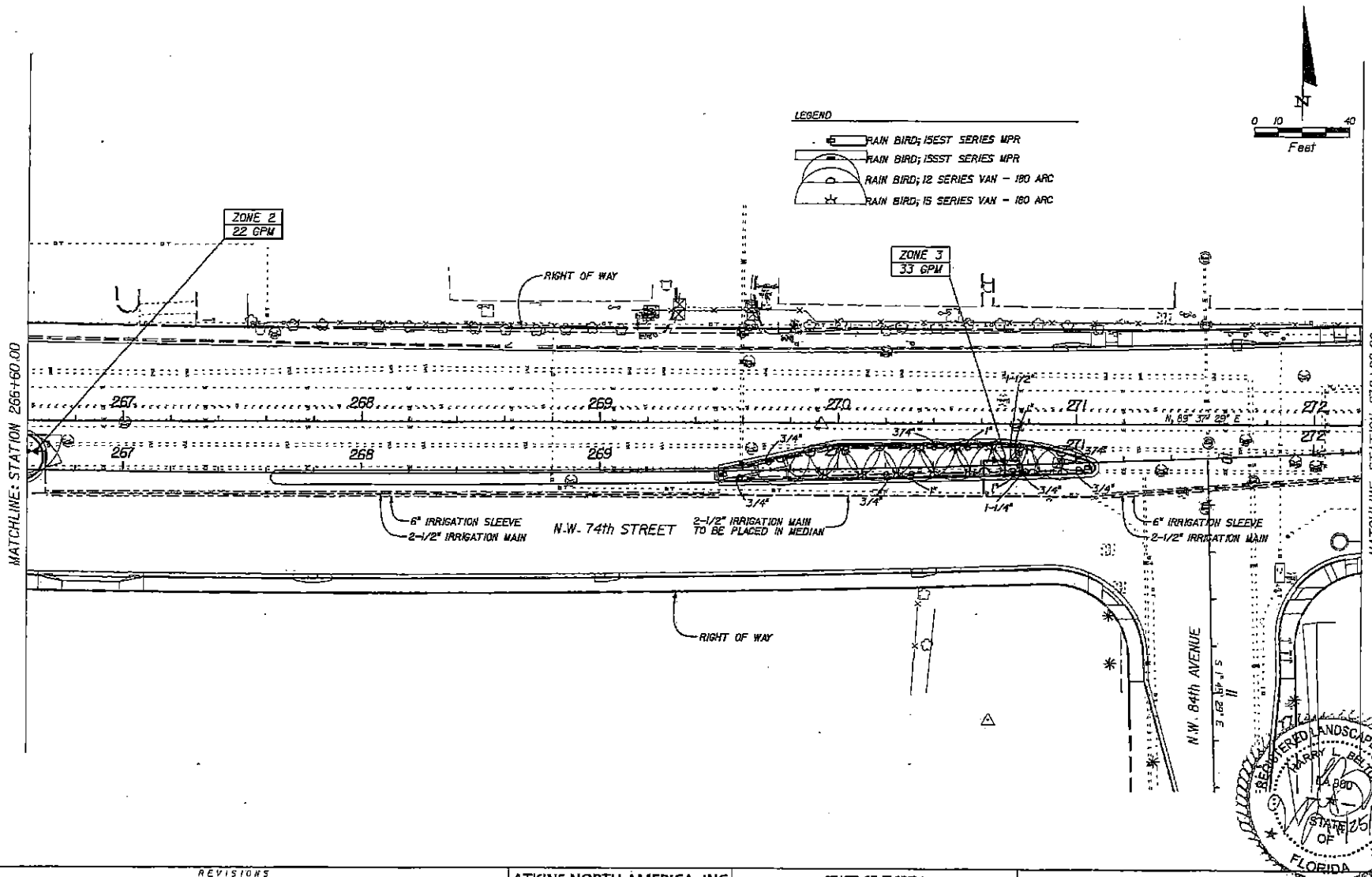

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IRRIGATION PLANS

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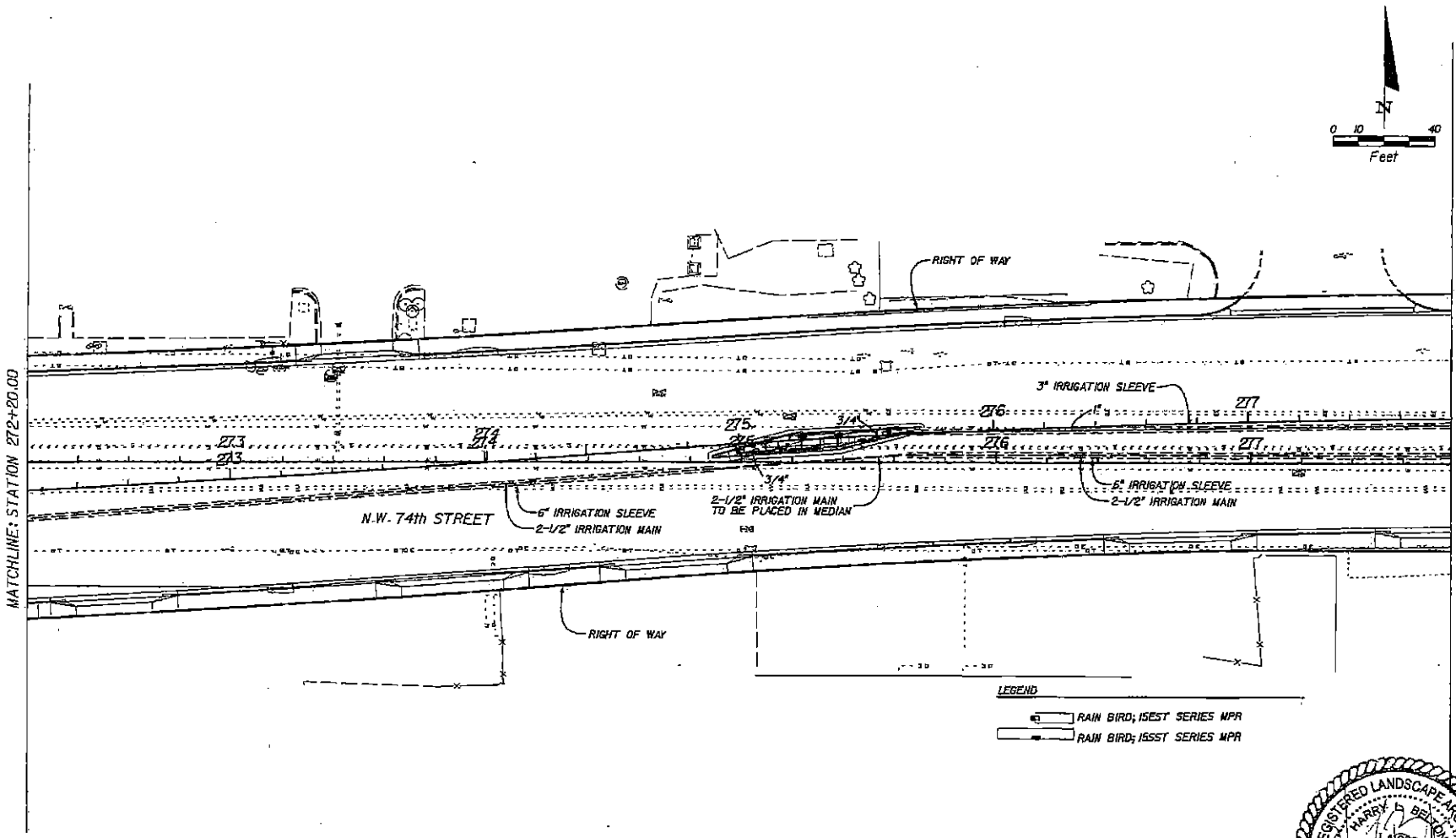

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IRRIGATION PLANS

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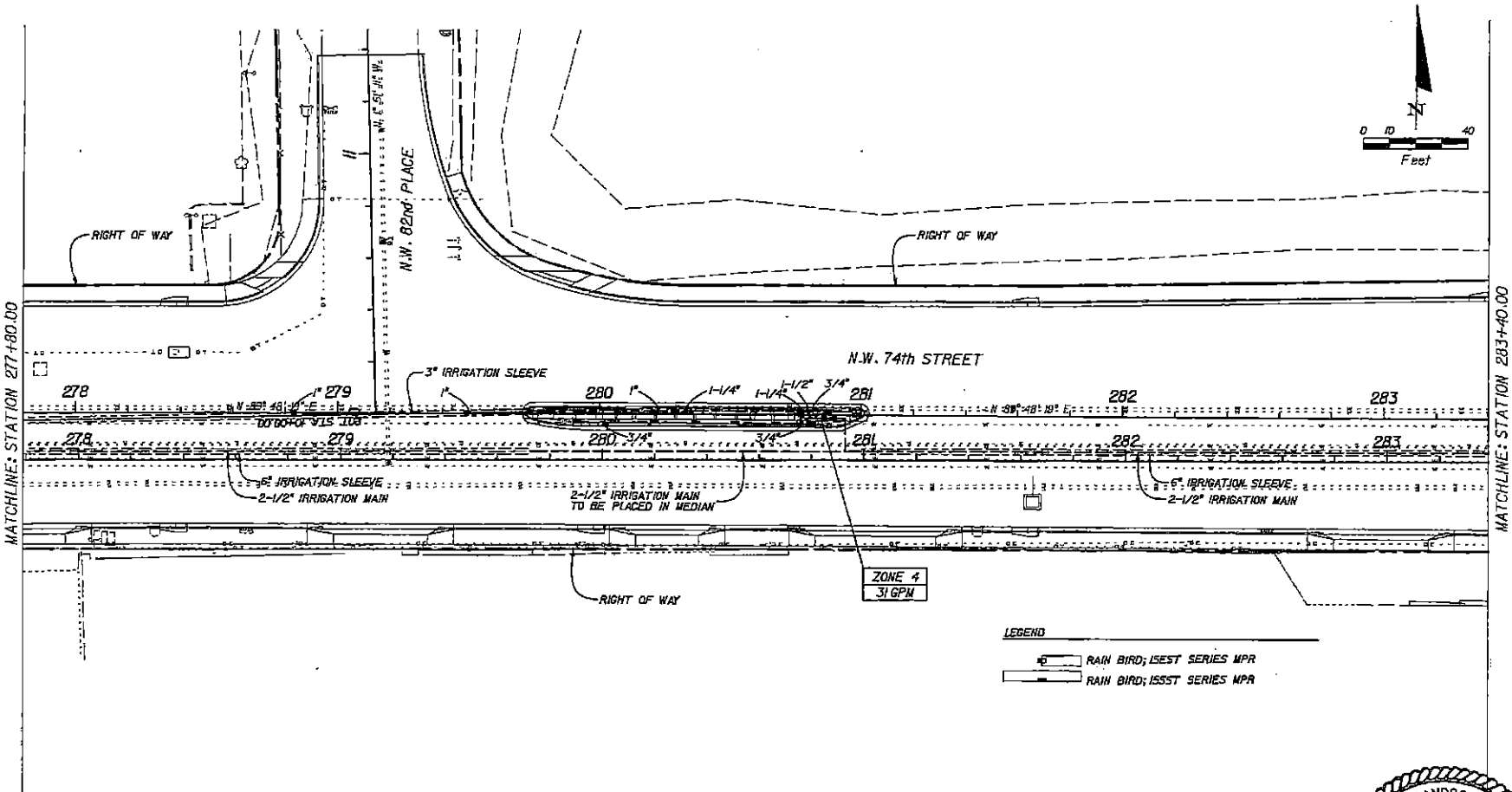

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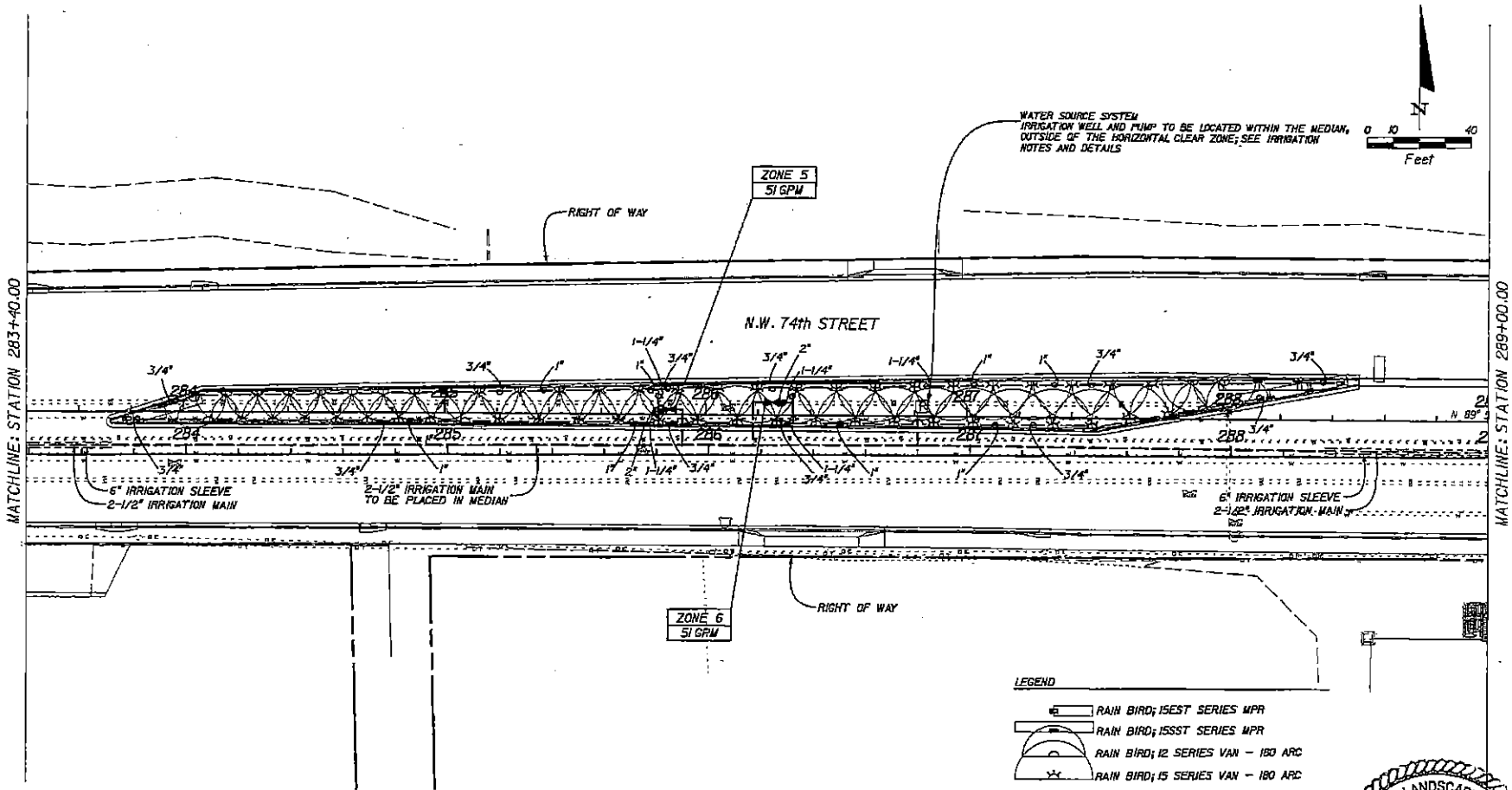

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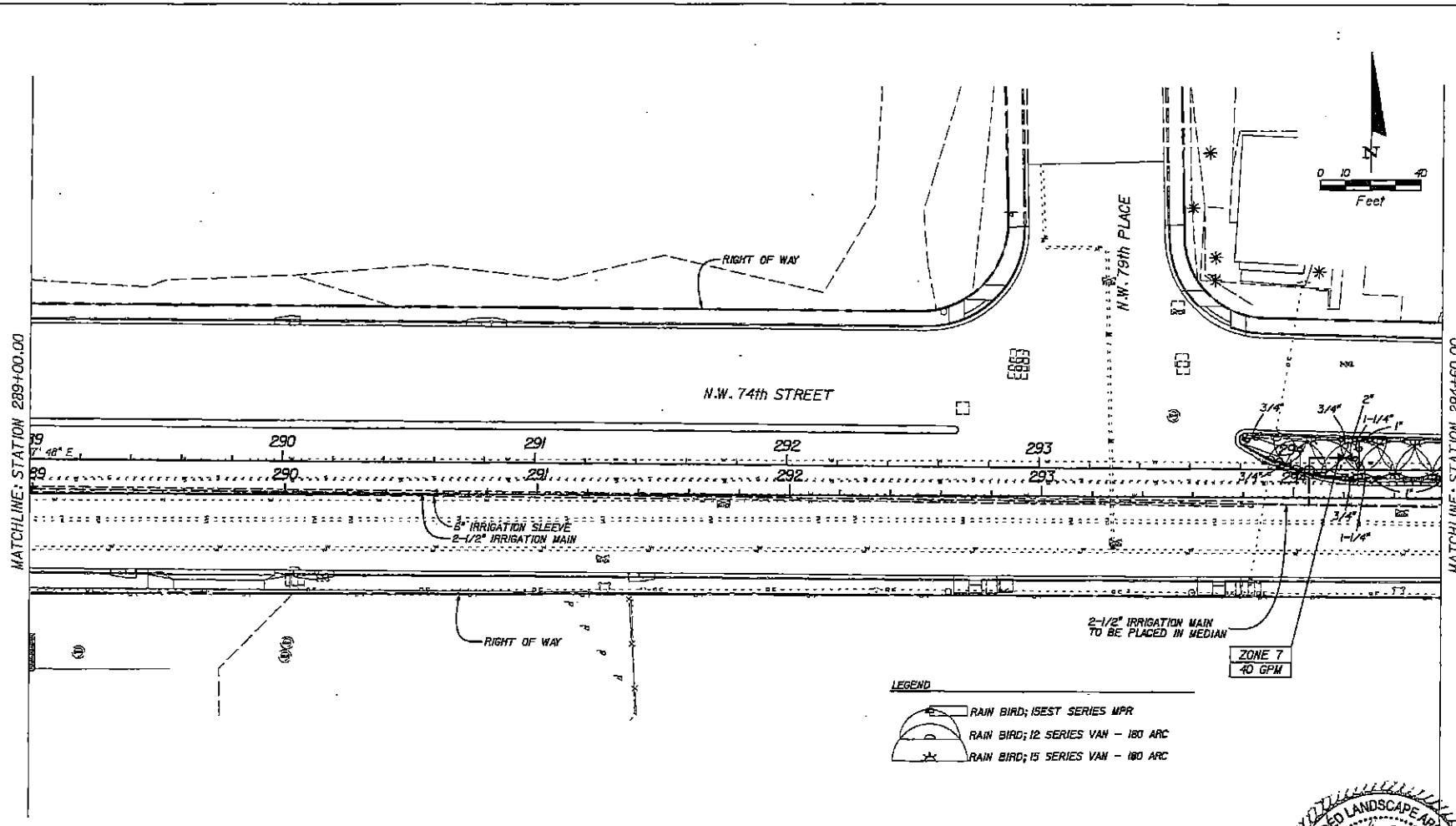

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IRRIGATION PLANS

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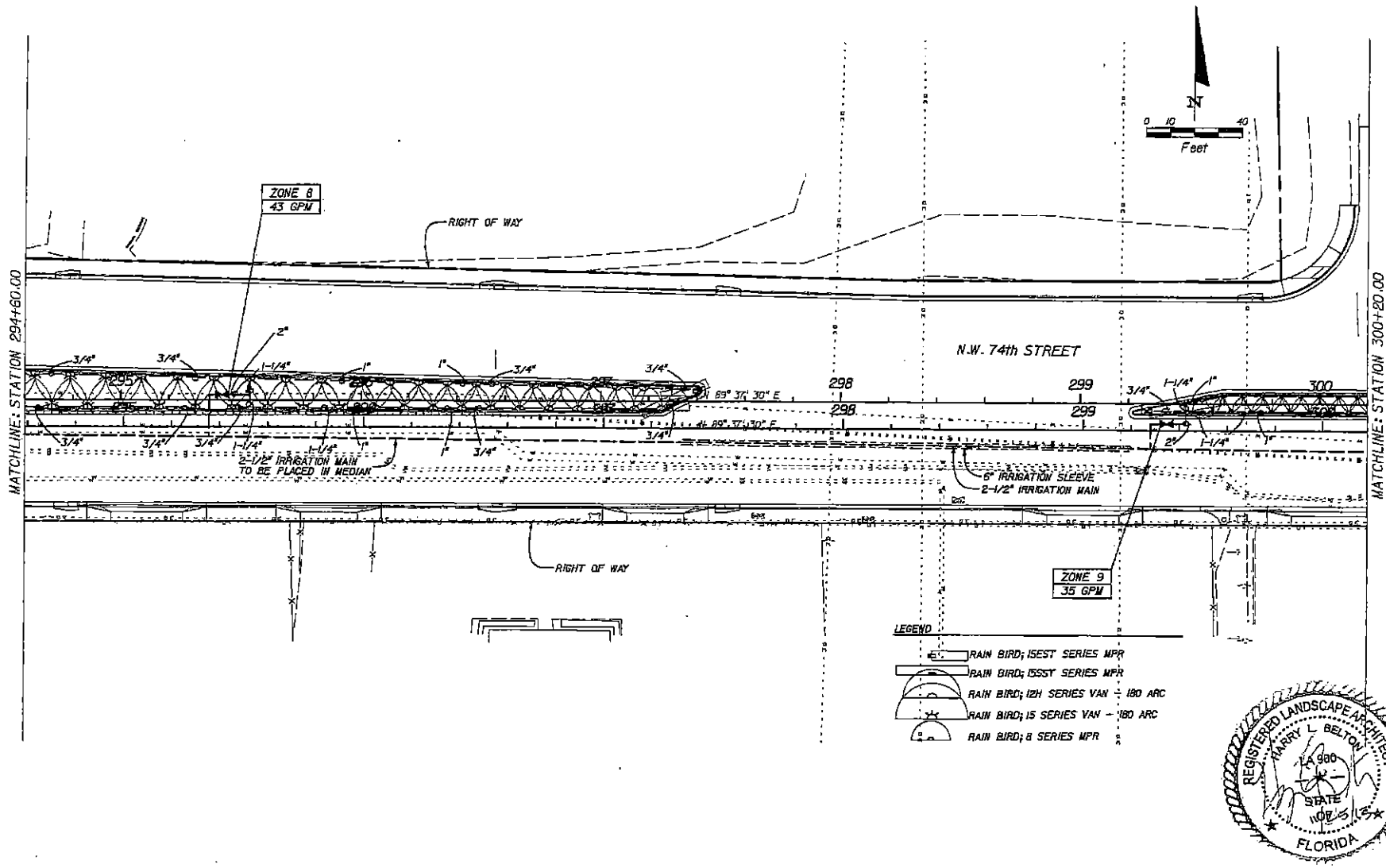

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IRRIGATION PLANS

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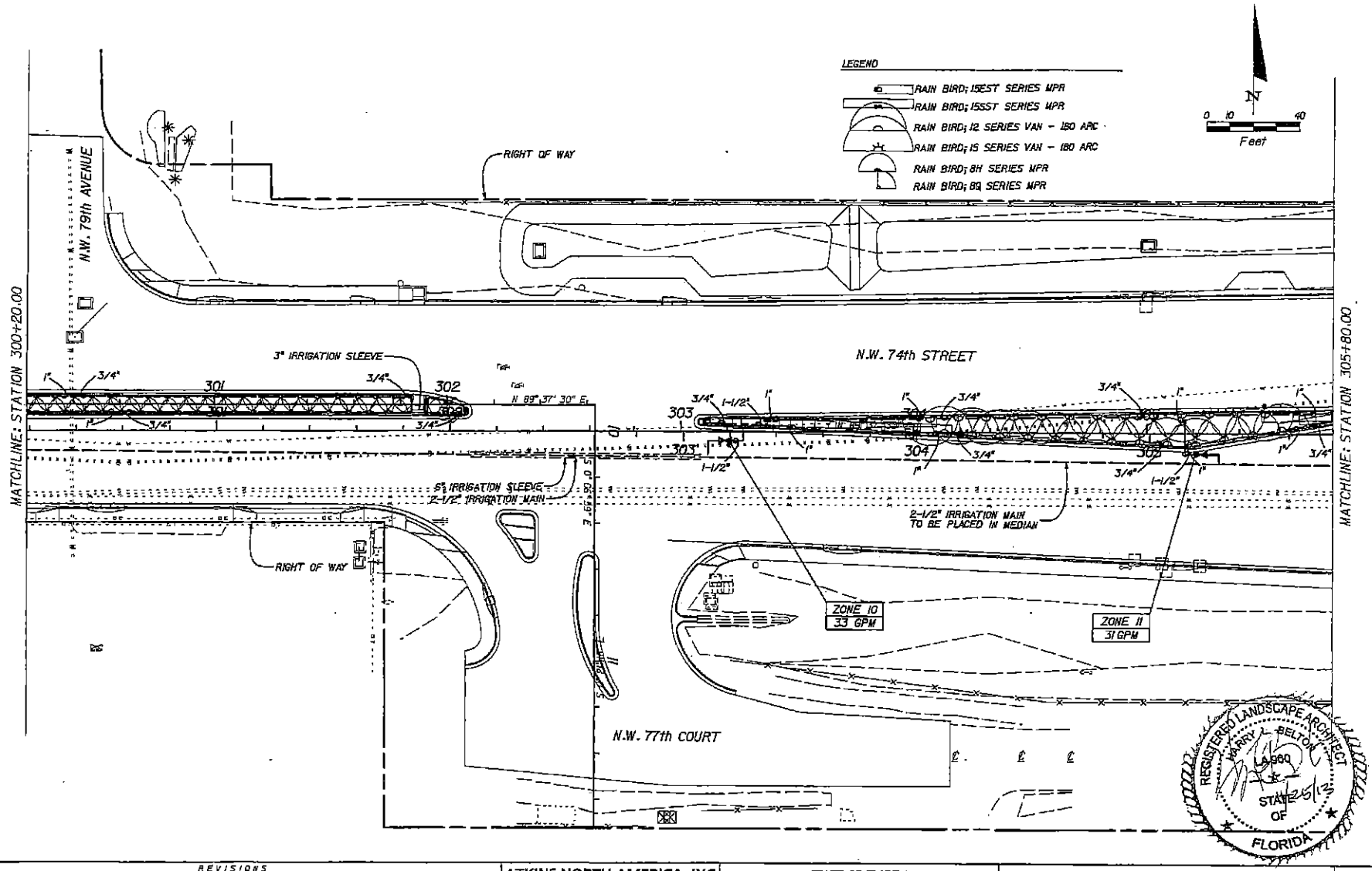

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934	MIAMI-DADE	414731-4-52-01

IRRIGATION PLANS

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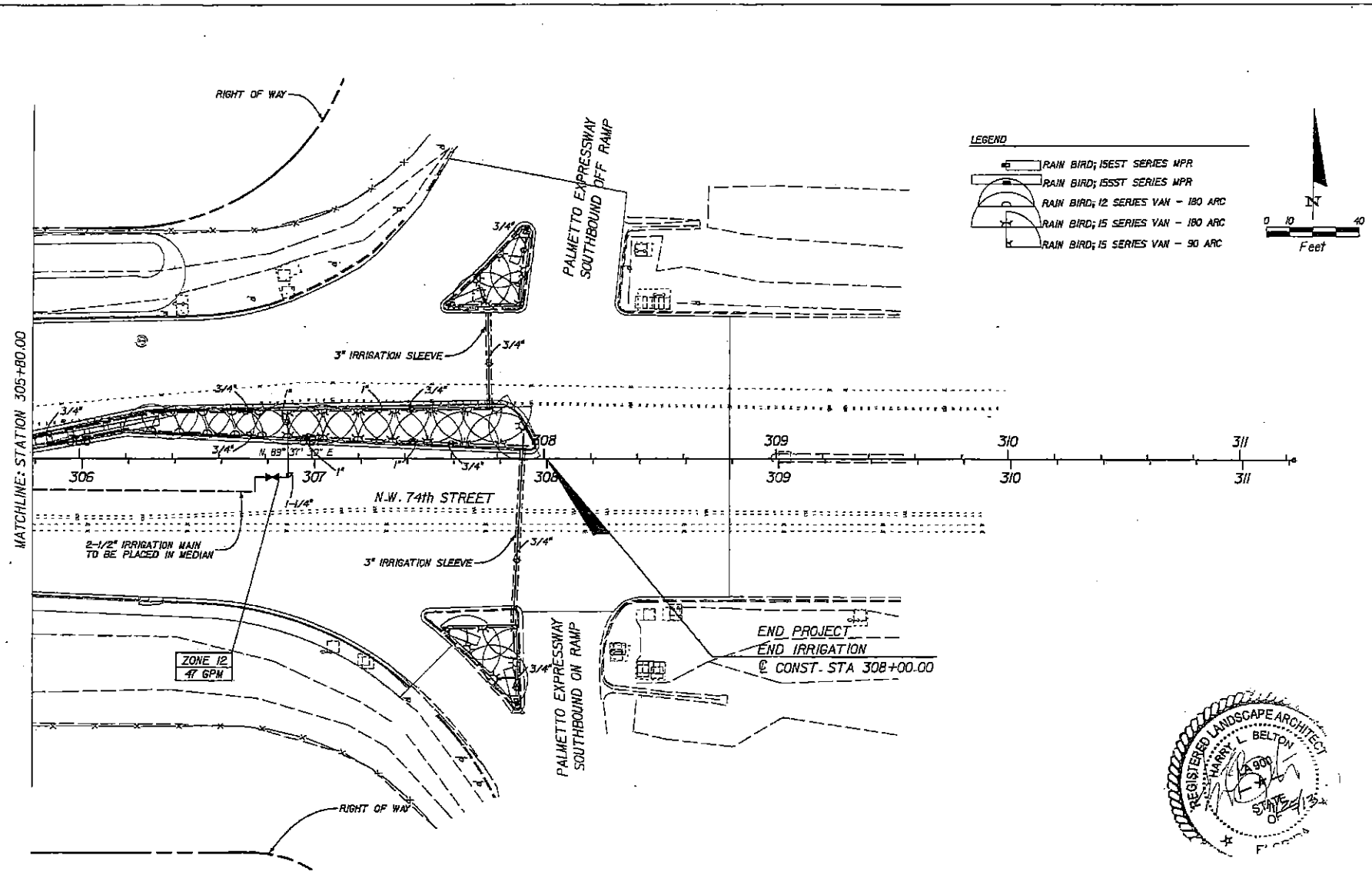

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(954) 733-7733
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Harry L. Belton, R.L.A. No.: 900

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
934	MIAMI-DADE	414731-4-52-01

IRRIGATION PLANS

SHEET NO.
LD-30

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RESOLUTION C-1162

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF MEDLEY, FLORIDA, APPROVING A COVENANT BY AND BETWEEN THE TOWN OF MEDLEY AND MIAMI-DADE COUNTY FOR LANDSCAPE MAINTENANCE WITHIN THE RIGHT-OF-WAY OF N.W. 74 STREET; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Miami-Dade County (the "County") plans to install the landscaping and irrigation system (the "Landscape Work") in the medians and in the retention swale areas on the north and south sides of N.W. 74 Street between N.W. 87 Avenue and the Palmetto Expressway (SR-826) (the "Project Limits"), along with the roadway improvements for N.W. 74 Street (the "Highway Project"); and

WHEREAS, the County requests that the Town of Medley (the "Town") be solely responsible for the maintenance and preservation of the Landscape Work within the Project Limits, as further established in the proposed Covenant for Maintenance of Landscaping Within Right of Way Between the County and the Town (the "Covenant") attached hereto as Exhibit "A"; and

WHEREAS, the Town Council desires the Highway Project, and finds it to be in the best interest of the Town to enter into the Covenant in order to accomplish the Highway Project.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF MEDLEY, FLORIDA, AS FOLLOWS:

Section 1. Recitals Adopted. Each of the above-stated recitals are hereby adopted, confirmed and incorporated herein.

Section 2. **Approval of Covenant.** The Covenant, attached as Exhibit "A" to this Resolution, is approved in substantively the form attached, subject to minor changes/modifications by the Town Attorney.

Section 3. **Implementation of Covenant.** The Town Mayor is hereby authorized to execute the Covenant, once approved by the Town Attorney, and take any and all necessary action to implement the purposes of this Resolution and terms of the Covenant.

Section 4. **Effective Date.** This Resolution shall be effective immediately upon adoption.

PASSED AND ADOPTED this 7th day of October, 2013.

ROBERTO MARTELL, MAYOR

ATTEST:

HERLINA TABOADA, TOWN CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

INTERIM TOWN ATTORNEY

SUMMARY OF THE VOTE

Mayor Roberto Martell	yes
Vice-Mayor Griselia DiGiacomo	yes
Councilperson Jack Morrow	yes
Councilperson Susana Guasch	yes
Councilperson Edgar Ayala	yes