SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

DISTRICT FOUR (4) AMENDMENT # ONE (1) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND CITY OF COCONUT CREEK LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

This is Amendment Number One to the Agreement dated May 27, 2009, made and entered into this 6th day of August 2009 by and between the State of Florida Department of Transportation hereinafter called the "**DEPARTMENT**" and the City of Coconut Creek, a political subdivision of the State of Florida, hereinafter called the "**AGENCY**".

WHEREAS, the parties entered into the Inclusive Maintenance of Agreement dated May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various State Roads including State Road 7 (US 441) and

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape improvements to be installed on State Road 7 (US 441) in accordance with the above referenced Agreement;

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

1. Pursuant to paragraph 6 of the Inclusive Agreement for State Road 7 (US 441) dated May 27, 2009 the **DEPARTMENT** has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A, on State Road 7 (US 441) from South of State Road 869 (Sawgrass Expressway) (M.P.22.57) to North of State Road 869 (Sawgrass Expressway) (M.P. 23.40) in accordance with the plans attached as Exhibit B.

2. The **AGENCY** shall agree to maintain the landscape improvements in the Inclusive Agreement described above and as provided in accordance with the Maintenance Plan, attached as Exhibit C.

3. The **DEPARTMENT** agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in Exhibit D not to exceed **$88,019.50**.

Except as modified by this amendment, all terms and conditions of the Agreement shall remain in full force and effect.

Exhibits
Exhibit A - PROJECT LOCATION & MAINTENANCE BOUNDARY MAP
Exhibit B - PROJECT PLANS
Exhibit C - MAINTENANCE PLAN
Exhibit D - PROJECT COSTS

In Witness whereof, the parties hereto have executed with this Amendment effective the 6th day August year written and approved.

City of Coconut Creek
a municipal corporation.

BY: _____
Chairperson/Mayor/Director of Parks & Recreation/City Manager/City Engineer/ Director of Public Works

_____ 7/30/09
Asst. City Attorney Date

NANCY A. COUSINS

State of Florida
Department of Transportation

BY: _____
Transportation Development

_____ 8/5/2009
District General Counsel Date

SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

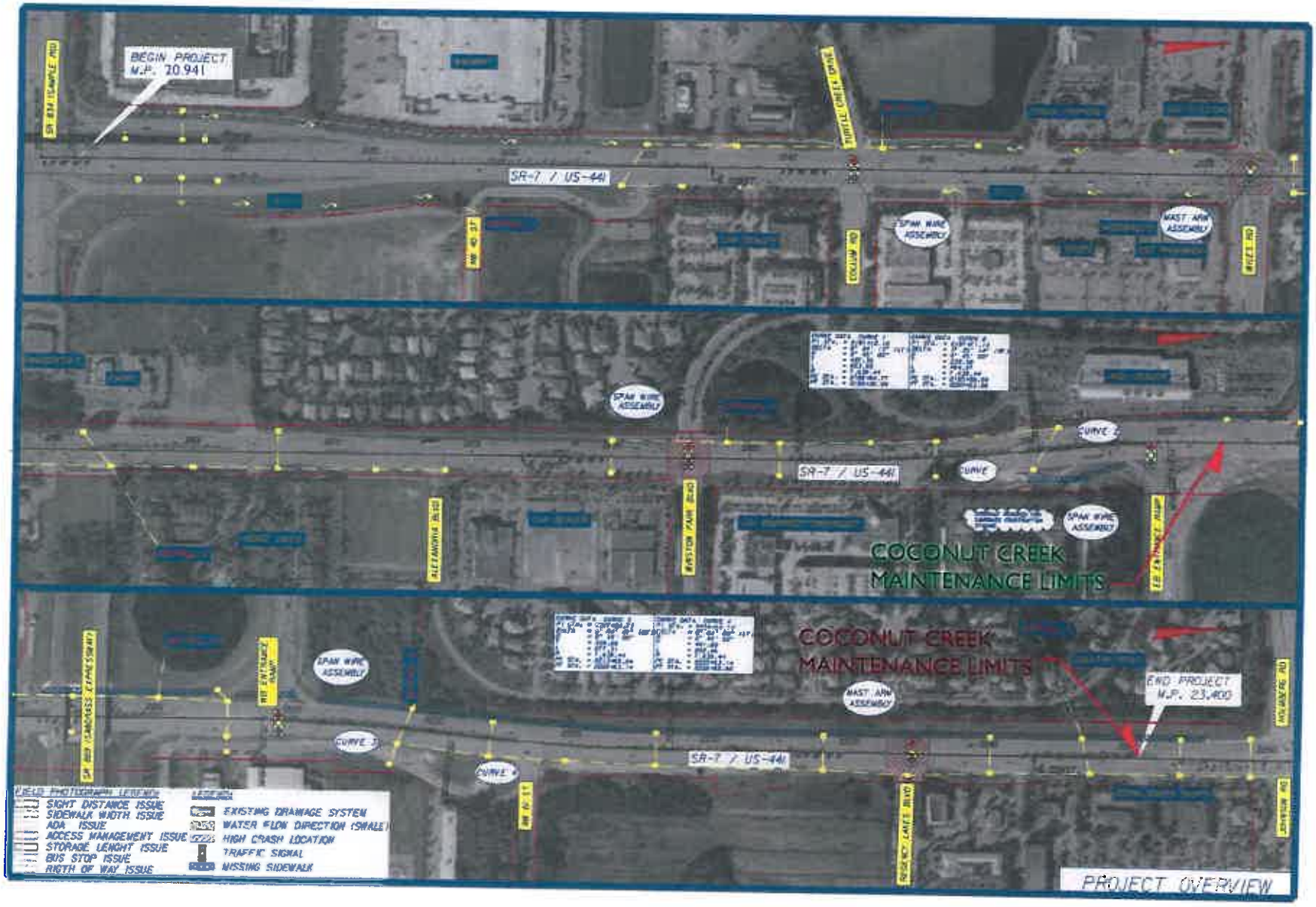
EXHIBIT A

I. PROJECT LOCATION:
State Road 7 (US 441) from State Road 834 (Sample Road) (M.P. 20.941) to North of State Road 869 (Sawgrass Expressway) (M.P.23.40)

II. MAINTENANCE LIMITS:
State Road 7 (US 441) from (M.P. 20.861) (Winston Park/Creekside Drive) to (M.P. 24.591) Broward/Palm Beach County Line)

III. PROJECT MAINTENANCE BOUNDARY MAP:
Please See Attached

COCONUT CREEK MAINTENANCE LIMITS MAP



SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

EXHIBIT B

PROJECT PLANS

The Department agrees to install the Project in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Land Design South
Robert Bentz RLS LA 997

Dated: 4-17-2009

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 421662-1-52-01
(FEDERAL FUNDS)
BROWARD COUNTY (86100)
STATE ROAD NO. 7 (US 441)

LANDSCAPE PLANS

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 THRU LD-5	LANDSCAPE TABULATION OF QUANTITIES
LD-6	LANDSCAPE GENERAL NOTES
LD-7 THRU LD-11	EXISTING CONDITIONS CHARTS
LD-12 THRU LD-31	EXISTING CONDITIONS PLANS
LD-32 THRU LD-45	LANDSCAPE PLANS
LD-46	IRRIGATION KEY SHEET
LD- 47 THRU LD-49	IRRIGATION TABULATION OF QUANTITIES AND IRRIGATION DETAILS
LD-50 THRU LD-63	IRRIGATION PLANS

PLANS PREPARED BY:

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 300
WEST PALM BEACH FL
33409
(561) 478-6201
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

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

APR 17 2009

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: _____

R.L.A. NO.: _____

FISCAL YEAR	SHEET NO.
	LD-1

FDOT PROJECT MANAGER: JOSE THEILER E.I.

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

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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 LD-31 PLAN	LD-31 FINAL	LD-32 PLAN	LD-32 FINAL	LD-33 PLAN	LD-33 FINAL	LD-34 PLAN	LD-34 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	710		175		160		305		1350		5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-2

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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 LD-35 PLAN	LD-35 FINAL	LD-36 PLAN	LD-36 FINAL	LD-37 PLAN	LD-37 FINAL	LD-38 PLAN	LD-38 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,6' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	250		225				975		1450		5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

APR 17 2009

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA1606 ...
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO. LD-3

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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 LD-39 PLAN	LD-39 FINAL	LD-40 PLAN	LD-40 FINAL	LD-41 PLAN	LD-41 FINAL	LD-42 PLAN	LD-42 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF											15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.					225		75		300		300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF											150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF											45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.					225		75		300		300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.					850		150		1000		1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.					250				250		250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.					6		2		8		8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,5' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY	1220		615		145				1835		5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY					385						385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH — 2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501 — ROBERT BENTZ LA REG # 987 — CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES PLANT SCHEDULE

SHEET NO. LD-4

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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 LD-43 PLAN	LD-43 FINAL	LD-44 PLAN	LD-44 FINAL	PLAN	FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
580-1-1	SMALL	ANN	SEASONAL ANNUALS	SEASONAL ANNUALS	10" X 10"	Natural Size	6" O.C.	SEE GENERAL NOTES	SF	15								15		15	
	SMALL	BSS	BOUGAINVILLEA SPECTABILIS 'SANDERIANA'	BOUGAINVILLEA	24"X24"	Natural Size	24" O.C.	SEE GENERAL NOTES	EA.											300	
	SMALL	DUR	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	SF	150								150		150	
	SMALL	FIG	FICUS MICROCARPA 'GREEN ISLAND FICUS'	GREEN ISLAND FICUS	24" X 24"	Natural Size	24" O.C.	SEE GENERAL NOTES	SF	45								45		45	
	SMALL	JAS	JASMINUM VOLUBILE	WAX JASMINE	12" X 12"	Natural Size	18" OC.	SEE GENERAL NOTES	EA.											300	
	SMALL	TRA	TRACHELOSPERMUM ASIATICUM	CONFEDERATE JASMINE	12" X 12"	Natural Size	18" O.C.	SEE GENERAL NOTES	EA.											1000	
	SMALL	ZAM	ZAMIA MARITIMA	CARDBOARD PALM	24" X 24"	Natural Size	36" O.C.	SEE GENERAL NOTES	EA.											250	
580-1-2	LARGE	RO	ROYSTONEA ELATA	FLORIDA ROYAL PALM	10' G.W.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.											8	
	LARGE	IC	ILEX CASSINE	DAHOON HOLLY	B&B,6' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.	1								1		1	
	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	B&B,8' CT. HT.	Natural Size	AS SHOWN ON PLANS	SEE GENERAL NOTES	EA.	4								4		4	
570-1-2			PERFORMANCE SOD	ST. AUGUSTINE				SEE GENERAL NOTES	SY											5080	
526-1-1			CONCRETE PAVER					SEE PLAN SHEETS	SY											385	
570-1			COMPLETE IRRIGATION SYSTEM					SEE IRRIGATION SHEETS	LS											1	

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LAREG #1087
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES
PLANT SCHEDULE

SHEET NO.
LD-5

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GENERAL NOTES

1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND FIELD CHECK ALL DIMENSIONS PRIOR TO ANY LANDSCAPE OR IRRIGATION INSTALLATION. REPORT ANY CONFLICTS AND DISCREPANCIES TO ENGINEER.

2. UNWOVEN GEO-TEXTILE FABRIC WILL BE INSTALLED IN ALL SHRUB BEDS PRIOR TO SHRUB INSTALLATION TO PREVENT WEED GROWTH. EXCAVATION FOR SHRUB INSTALLATION SHALL LEAVE NO SOIL ON THE FABRIC. USE ANCHOR PINS IF NECESSARY TO STABILIZE THE FABRIC. OVERLAPPING SHALL BE NO LESS THAN TWO (2) FEET BETWEEN FABRIC FLAPS.

3. TREES AND PALMS HAVE UNIQUE SYMBOLS IN THE LANDSCAPE PLANS AND ARE THEREFORE QUANTIFIED PER EACH PLANS SHEET. GROUNDCOVERS SHOWN BY HATCHED AREAS AND SHRUBS ARE QUANTIFIED FOR EACH MASS.

4. FERTILIZATION SCHEDULE - FOR TREES AND PALMS, APPLY AN 8-4-12+4 Mg FERTILIZER INCLUDING ALL MICRONUTRIENTS. 100% OF THE (N) NITROGEN, (K) POTASSIUM, AND (Mg) MAGNESIUM SHALL BE IN SLOW RELEASE FORM.APPLY AT A RATE OF 1.5 POUNDS OF ACTUAL FERTILIZER (NOT N) PER 100 SQUARE FEET, EVERY 3 MONTHS. COORDINATE FERTILIZING WITH WATERING SO THAT FERTILIZER IS THOROUGHLY WATERED IN IMMEDIATELY FOLLOWING ITS APPLICATION.PRIOR TO THE PRE-CONSTRUCTION MEETING, SUBMIT MANUFACTURERS CERTIFIED FERTILIZER ANALYSIS ALONG WITH THE FERTILIZATION SCHEDULE TO THE ENGINEER.

5. FERTILIZE ALL SHRUBS WITH A COMPLETE, SLOW-RELEASE BRAND FERTILIZER WITH AN APPROX. RATIO OF 4-2-1. FOLLOW MANUFACTURER'S SPECIFICATIONS FOT APPLICATION. FERTILIZE PALMS WITH SPECIAL PALM FERTILIZER CONTAINING MANGANESE AND MAGNESIUM PER MANUFACTURER'S DIRECTIONS. ALL FERTILIZER SHALL COMPLY WITH SECTION 982.

6. CONTRACTOR SHALL VERIFY SOIL DRAINAGE CONDITIONS OF ALL PLANTING HOLES PRIOR TO PLANTING IN COMPLIANCE WITH FDOT SPECIFICATION SECTION 580-3.3. COST FOR ALL BED PREPARATION, UNSUITABLE SOIL REMOVAL AND ADDITIONAL FINISH SOIL WILL BE INCLUDED IN THE COST WITH SECTION 982.

7. THE TOP TWO FEET OF SOIL IN ALL LANDSCAPE AREAS SHALL CONSIST OF A UNIFORM MIX OF 75% EXISTING SITE SOIL (COMPLIANT WITH INDEX 544 GENERAL NOTE 4) AND 25% ADDED FINISH SOIL, WHICH SHALL BE FRIABLE LOAM TYPICAL OF LOCALLY CULTIVATED TOPSOIL, CONTAINING AT LEAST 5% DECAYED ORGANIC MATTER, A pH LEVEL BETWEEN 6.0 AND 7.0 AND TAKEN FROM WELL-DRAINED ARABLE SITES. SOIL WILL BE IN COMPLIANCE WITH SECTION 987 OF FDOT STANDARD SPECIFICATIONS, AND THE MORE STRINGENT REQUIREMENTS LISTED ABOVE. TOPSOIL FROM AREAS INFESTED WITH NUTGRASS OR TROPICAL SODA APPLE WILL NOT BE ACCEPTED. CONTRACTOR WILL PROVIDE VERIFICATION THAT ADDED SOIL COMPLIES WITH REQUIREMENTS BY SUBMITTAL OF SOIL TEST REPORT AND SOIL SAMPLES.

8. TREAT ALL PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SUBMIT RECEIPTS FOR MATERIALS USED. ALL HERBICIDES TO BE APPLIED BY A FLORIDA LICENSED HERBICIDE APPLICATOR, WITH PROPER CERTIFICATION. CONTRACTOR TO PROVIDE COPIES OF LICENSE DOCUMENTATION.

9. MULCH, IN COMPLIANCE WITH FDOT STANDARD INDEX 544 GENERAL NOTES, WITH CLEAN, INSECT FREE FLORIMULCH OR APPROVED EQUAL. WATER IN WELL TO SECURE IN PLACE.

10. LAY SOD SOLIDLY IN ALL DISTURBED OR INDICATED AREAS WITH CLOSELY ABUTTING JOINTS, ROLL AND FERTILIZE WITH A POLYMER/SULFUR COATED TURF FERTILIZER WITH APPROX. RATIO OF 4-2-1 AND AT LEAST 30% SLOW RELEASE NITROGEN. APPLY AT THE MANUFACTURER'S SPECIFIED RATE. SUBMIT LABEL FOR APPROVAL AND RECEIPTS FOR MATERIAL USED. PIN ALL SODDED SLOPES GREATER THAN 3:1 WITH STEEL U-PINS / SOD STAPLES. PAY ITEM 570-1-2 INCLUDES THE COST FOR FERTILIZER, WATER, AND MOWING NEEDED TO ESTABLISH AND MAINTAIN THE SODDED AREAS.

11. NOTIFY THE ADMINISTRATOR AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS I.E., COMPACTED SOIL/SUBGRADE, POOR DRAINAGE, UTILITY CONFLICTS, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE OR IRRIGATION INSTALLATION.

12. EXISTING LANDSCAPE MATERIAL THAT IS CALLED OUT ON THE LANDSCAPE PLANS TO REMAIN SHALL BE GIVEN TREATMENT TO PROMOTE A CONTINUOUSLY HEALTHY ENVIRONMENT. ANY DAMAGE UPON THE EXISTING LANDSCAPE SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT ON RECORD, AND SHALL BE SUBJECT TO REPLACED. MAINTENANCE OF THE EXISTING MATERIAL SHALL FOLLOW FDOT INDEX NO. 546.

13. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE DISTRICT LANDSCAPE MANAGER.

14. DO NOT MAKE SUBSTITUTIONS OR REVISIONS. ANY REVISIONS OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT, DISTRICT LANDSCAPE MANAGER AND PERMITTING AUTHORITY. REVISIONS MUST BE DOCUMENTED AS REQUIRED BY APPLICABLE STATE, CITY OR COUNTY REGULATIONS.

15. CONTRACTOR SHALL USE FDOT STANDARD INDEX 544 FOR PLANT INSTALLATION. SEE PLANTING DETAILS AS THEY APPLY TO TREES, MULTI-TRUNK TREES, AND PALMS AND SHRUBS.

16. MAINTENANCE OF TRAFFIC-CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL PLANS OF THE ROADWAY PLANS.

17. MAINTAINING AGENCY RESPONSIBLE FOR ROUTINE CLEAN-UP OF FOXTAIL PALM FRONDS TO AVOID SAFETY HAZARD OF FRONDS FALLING INTO TRAFFIC.

18. 580-1-1 SHRUBS LOCATED IN SAFE SIGHT AREAS AS LOCATED ON LANDSCAPE PLANS SHALL BE MAINTAINED AT A MAXIMUM HEIGHT OF 18". OTHERWISE, FOLLOW GUIDELINES SET FORTH IN TABULATION OF QUANTITIES.

19. DESIGN SPEED OF ROADWAY: 45 MPH

20. MAINTAINING AGENCY CONTACT INFORMATION:

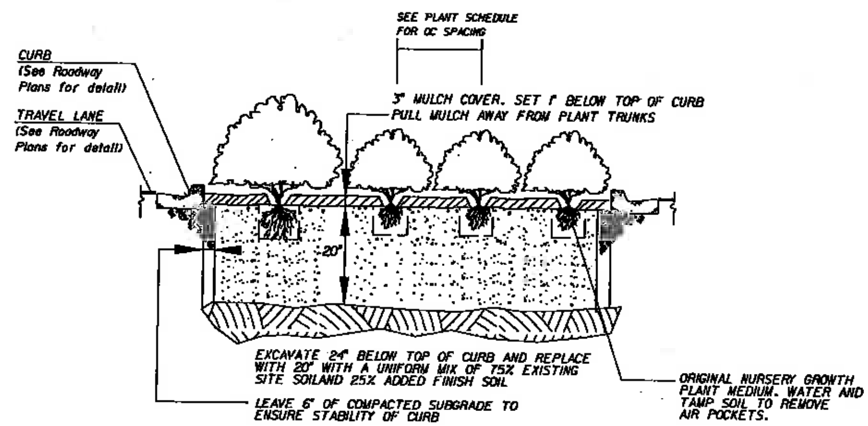
CITY OF CORAL SPRINGS:
Louis J. Goldstein,
(954) 345-2112

CITY OF COCONUT CREEK:
Pam Stanton
(954) 956-1463

PAY ITEM NOTES:

110-1-1 CLEARING AND GRUBBING
THIS PAY ITEM SHALL ALSO INCLUDE THE COST OF THE APPLICATION OF BOTH POST AND PRE EMERGENT HERBICIDE IN ALL AREAS SCHEDULED TO RECEIVE PLANTS/MULCH/SOD AS WELL AS ANY OTHER AREAS LABELED TO APPLY HERBICIDE. REMOVING ALL INVASIVE VINES, INCLUDING BUT NOT LIMITED TO VIRGINIA CREEPER AND ALL VEGETATION LABELED TO REMOVE. PREVENTING THE DISCHARGE OF ANY FOREIGN MATERIAL INTO ANY WATER BODIES IN THE PROJECT.

580-1, 580-2 SMALL/LARGE PLANTS
THESE PAY ITEMS SHALL ALSO INCLUDE THE COST OF EXCAVATION, BACKFILL, DISPOSAL OF EXCESS MATERIAL, TOPSOIL PREPERATION, ESTABLISHMENT, STAKING AND GUYING, SITE CLEAN UP, MAINTENANCE AND ANY OTHER NECESSARY MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION PER PLANS. ANY OTHER REQUIREMENTS NECESSARY FOR FINAL ACCEPTANCE SHALL BE CONSIDERED INCIDENTAL TO THE WORK BEING PERFORMED. THE COST OF GEO-TEXTILE WEED FABRIC, MULCH AND FERTILZER, WATER AND ITS APPLICATION WILL BE INCLUDED IN THE PAY ITEMS FOR SMALL AND LARGE PLANTS.



N.T.S.

MEDIAN PLANTING EXCAVATION DETAIL

APR 17 2009

REVISIONS					
DATE	DESCRIPTION	DATE	DESCRIPTION	LAND DESIGN SOUTH 2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501 ROBERT BENTZ LAREG # 987 CERTIFICATE OF AUTHORIZATION NO: 000206	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	GENERAL NOTES	SHEET NO.
7	BROWARD	421662-1-52-01		LD-6

4/17/2009 10:24 PM \\pl\projects\files\809-809.7\421662\520\landscp\gnnld01.dgn

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Tree #	Botanical Name	Common Name	Native?	DBH(in)/CT(ft)	Action	Notes	Location
1	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
2	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
3	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
4	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
5	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
6	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
7	Delonix regia	Poinciana	N	2.5"	Preserve		In Median
8	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
9	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
10	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
11	Roystonea elata	Royal Palm	Y	11'	Preserve		In Median
12	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
13	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
14	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
15	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
16	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
17	Roystonea elata	Royal Palm	Y	10'	Preserve		In Median
18	Roystonea elata	Royal Palm	Y	12'	Preserve		In Median
19	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
20	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
21	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
22	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
23	Cordia sebestena	Geiger	Y	1.5"	Preserve		In Median
24	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
25	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
26	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
27	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
28	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
29	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
30	Quercus virginiana	Live Oak	Y	8"	Preserve	Double Leader	In Median
31	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
32	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
33	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
34	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
35	Quercus virginiana	Live Oak	Y	9"	Preserve		In Median
36	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
37	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
38	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
39	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
40	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
41	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
42	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
43	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
44	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
45	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
46	Quercus virginiana	Live Oak	Y	8"	Preserve	Scar	In Median
47	Quercus virginiana	Live Oak	Y	10"	Preserve	Scar	In Median
48	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
49	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
50	Quercus virginiana	Live Oak	Y	11"	Preserve		In Median

APR 17 2009

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-7

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51	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
52	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
53	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
54	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
55	Quercus virginiana	Live Oak	Y	7"	Preserve	Scar	In Median
56	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
57	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
58	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
59	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
60	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
61	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
62	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
63	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
64	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
65	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
66	Tabebuia heterophylla	Pink Tabebuia	N	2.5"	Preserve		Roadway Verge
67	Tabebuia heterophylla	Pink Tabebuia	N	5"	Remove	Severly Damaged Tree	Roadway Verge
68	Tabebuia heterophylla	Pink Tabebuia	N	4"	Remove	Scar	Roadway Verge
69	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
70	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
71	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
72	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
73	Sabal palmetto	Sabal Palm	Y	13'	Preserve		In Median
74	Sabal palmetto	Sabal Palm	Y	10	Preserve		In Median
75	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
76	Sabal palmetto	Sabal Palm	Y	14'	Preserve		In Median
77	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
78	Quercus virginiana	Live Oak	Y	8"	Preserve	Scar	In Median
79	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
80	Quercus virginiana	Live Oak	Y	7"	Remove/Relocate		In Median
81	Quercus virginiana	Live Oak	Y	5"	Remove/Relocate		In Median
82	Quercus virginiana	Live Oak	Y	6"	Remove/Relocate		In Median
83	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
84	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
85	Sabal palmetto	Sabal Palm	Y	14'	Remove/Relocate		In Median
86	Sabal palmetto	Sabal Palm	Y	12'	Remove/Relocate		In Median
87	Sabal palmetto	Sabal Palm	Y	11'	Remove/Relocate		In Median
88	Sabal palmetto	Sabal Palm	Y	14'	Remove/Relocate		In Median
89	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
90	Quercus virginiana	Live Oak	Y	6"	Relocate / Remove	TAPER	In Median
91	Quercus virginiana	Live Oak	Y	6"	Relocate / Remove	TAPER	In Median
92	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
93	Tabebuia heterophylla	Pink Tabebuia	N	4"	Preserve		Roadway Verge
94	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve	Severly Damaged Tree	Roadway Verge
95	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
96	Tabebuia heterophylla	Pink Tabebuia	N	5"	Preserve		Roadway Verge
97	Quercus virginiana	Live Oak	Y	5"	Relocate / Remove	TAPER	In Median
98	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove	TAPER	In Median
99	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove	TAPER	In Median
100	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LAREG #907
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-8

4/17/2009 1:02:53 PM

101	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
102	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
103	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
104	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
105	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
106	Sabal palmetto	Sabal Palm	Y	18"	Relocate / Remove		In Median
107	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove		In Median
108	Quercus virginiana	Live Oak	Y	7"	Relocate / Remove		In Median
109	Tabebuia heterophylla	Pink Tabebuia	N	8"	Relocate / Remove	Narrow Median	In Median
110	Tabebuia heterophylla	Pink Tabebuia	N	8"	Preserve		Roadway Verge
111	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve		Roadway Verge
112	Tabebuia heterophylla	Pink Tabebuia	N	7"	Preserve	Severly Damaged Tree	Roadway Verge
113	Tabebuia heterophylla	Pink Tabebuia	N	6"	Preserve		Roadway Verge
114	Quercus virginiana	Live Oak	Y	6"	Preserve		Roadway Verge
115	Quercus virginiana	Live Oak	Y	9"	Relocate / Remove	Poor Canopy Structure	In Median
116	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
117	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
118	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
119	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
120	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
121	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
122	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
123	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
124	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
125	Sabal palmetto	Sabal Palm	Y	18'-20'	Preserve		In Median
126	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
127	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
128	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
129	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
130	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
131	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
132	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
133	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
134	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
135	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
136	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
137	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
138	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
139	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
140	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
141	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
142	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
143	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
144	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
145	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
146	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
147	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
148	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
149	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
150	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA0000977
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-9

4/17/2009 1:02:58 PM

151	Quercus virginiana	Live Oak	Y	1"	Preserve	Gone	In Median
152	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
153	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
154	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
155	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
156	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
157	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
158	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
159	Sabal palmetto	Sabal Palm	Y	14'	Preserve		In Median
160	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
161	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
162	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
163	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
164	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
165	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
166	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
167	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
168	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
169	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
170	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
171	Quercus virginiana	Live Oak	Y	4"	Preserve	One Sided Canopy	In Median
172	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
173	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
174	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
175	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
176	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
177	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
178	Sabal palmetto	Sabal Palm	Y	10	Preserve		In Median
179	Sabal palmetto	Sabal Palm	Y	20'	Preserve		In Median
180	Sabal palmetto	Sabal Palm	Y	18'	Preserve		In Median
181	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
182	Sabal palmetto	Sabal Palm	Y	10'	Preserve		In Median
183	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
184	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
185	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
186	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
187	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
188	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
189	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
190	Sabal palmetto	Sabal Palm	Y	16'	Preserve		In Median
191	Sabal palmetto	Sabal Palm	Y	11'	Preserve		In Median
192	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
193	Sabal palmetto	Sabal Palm	Y	9'	Preserve		In Median
194	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
195	Sabal palmetto	Sabal Palm	Y	7'	Preserve		In Median
196	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
197	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
198	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
199	Sabal palmetto	Sabal Palm	Y	8'	Preserve		In Median
200	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median

APR 27 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 0917
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO.
LD-10

4/17/2009

201	Quercus virginiana	Live Oak	Y	2.5"	Preserve		In Median
202	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
203	Quercus virginiana	Live Oak	Y	4"	Preserve		In Median
204	Quercus virginiana	Live Oak	Y	5"	Preserve		In Median
205	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
206	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
207	Quercus virginiana	Live Oak	Y	7"	Preserve		In Median
208	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
209	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
210	Quercus virginiana	Live Oak	Y	10"	Preserve		In Median
211	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
212	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
213	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
214	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
215	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
216	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
217	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
218	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
219	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
220	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
221	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
222	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
223	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
224	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
225	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
226	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
227	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
228	Sabal palmetto	Sabal Palm	Y	12'	Preserve		In Median
229	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
230	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
231	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
232	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
233	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
234	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
235	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
236	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
237	Quercus virginiana	Live Oak	Y	9"	Preserve	Hat Rack	In Median
238	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
239	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
240	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
241	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
242	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
243	Quercus virginiana	Live Oak	Y	6"	Preserve		In Median
244	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
245	Quercus virginiana	Live Oak	Y	9"	Preserve	Scar	In Median
246	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
247	Quercus virginiana	Live Oak	Y	10"	Preserve		In Median
248	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
249	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
250	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
251	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
252	Quercus virginiana	Live Oak	Y	8"	Preserve		In Median
253	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
254	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
255	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
256	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
257	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
258	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
259	Sabal palmetto	Sabal Palm	Y	12'-18'	Preserve		In Median
260	Ilex x attenuata 'East Palatka'	East Palatka Holly	Y	2"	Preserve		In Median
261	Quercus hemisphaerica	Laurel Oak	Y	4"	Preserve		In Median
262	Quercus hemisphaerica	Laurel Oak	Y	3"	Preserve		In Median
263	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove		In Median
264	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove	Codominant Leaders	In Median
265	Conocarpus erectus var. sericeus	Silver Buttonwood	Y		Relocate / Remove	Codominant Leaders	In Median
266	Coccoloba diversifolia	Pigeon Plum	Y	5"	Preserve	Codominant Leaders	In Median
					Preserve		In Median

APR 17 200

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 105 WEST PALM BEACH FL 33409 (561) 478-6594
ROBERT BENTZ LA REG # 697
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS CHART

SHEET NO. LD-11

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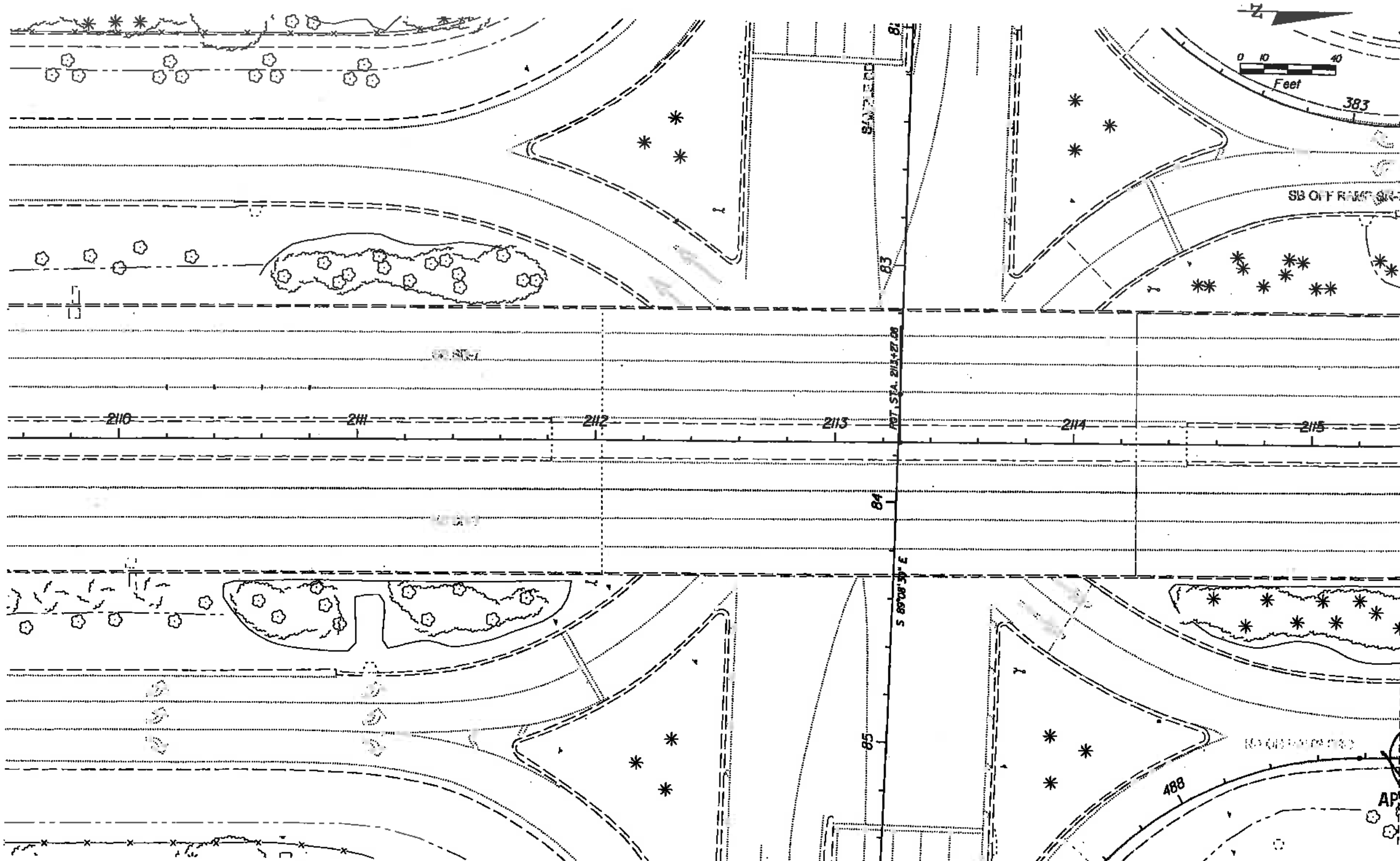

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # ???
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-12

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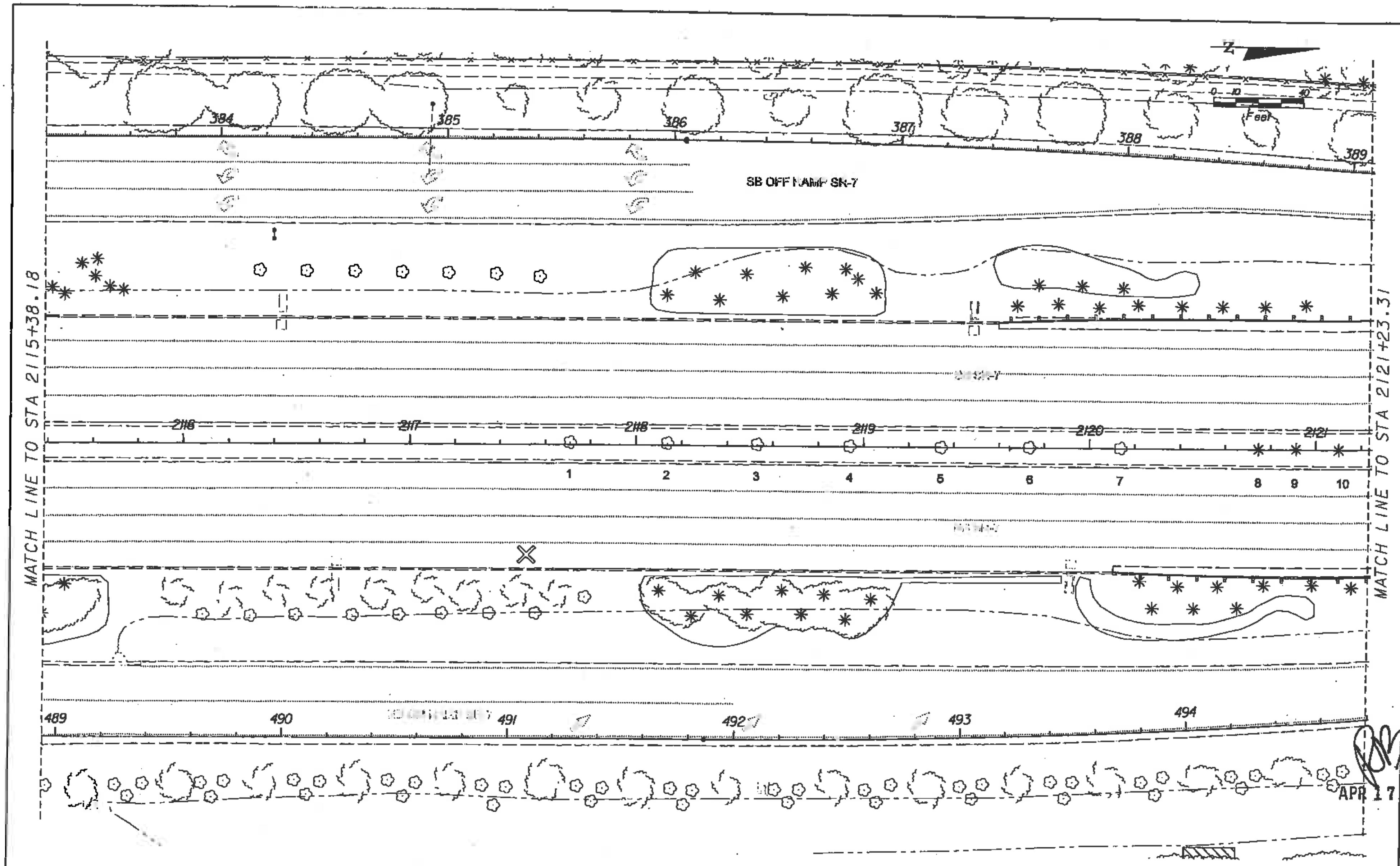

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT LENTZ LA REG # [illegible]
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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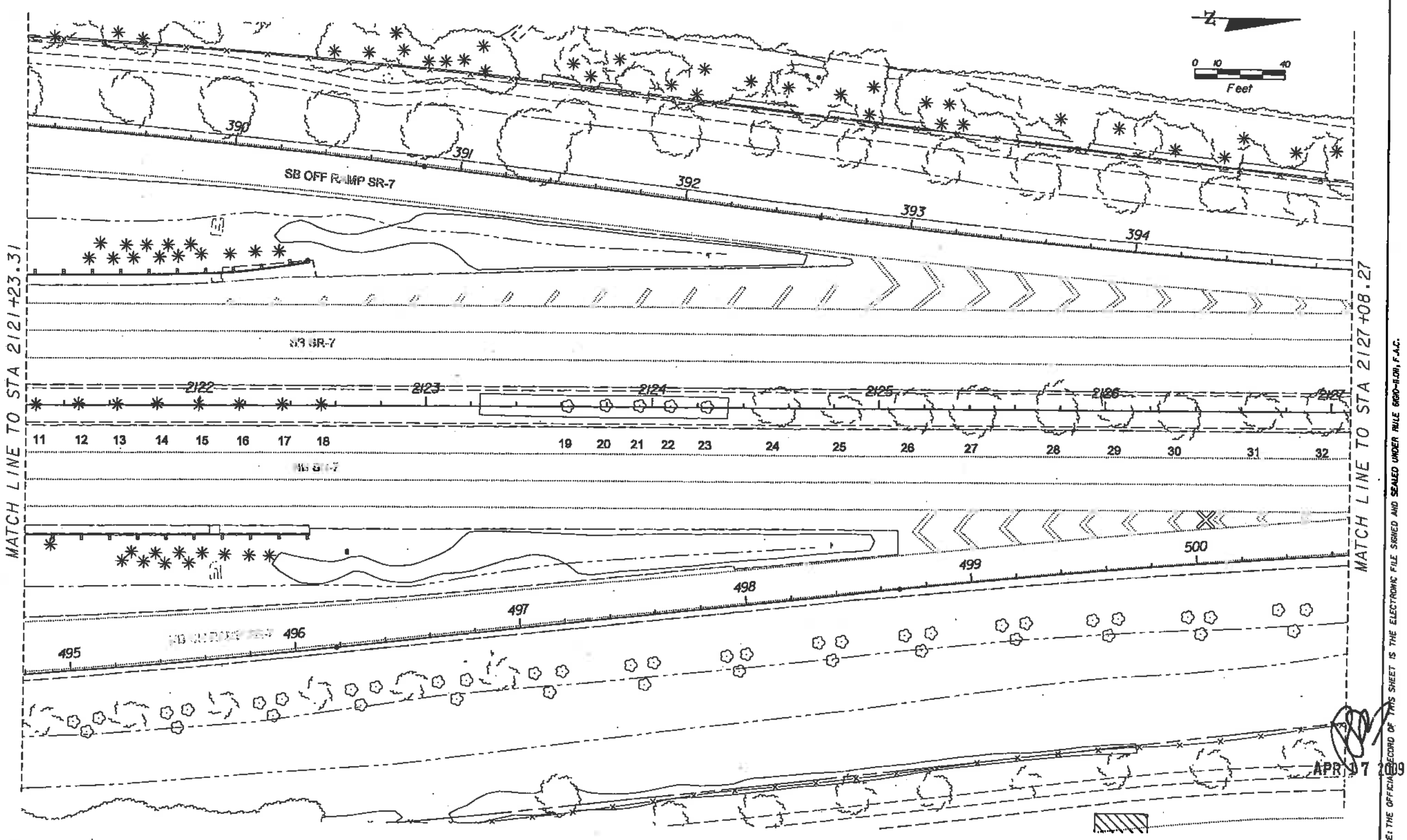

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-14

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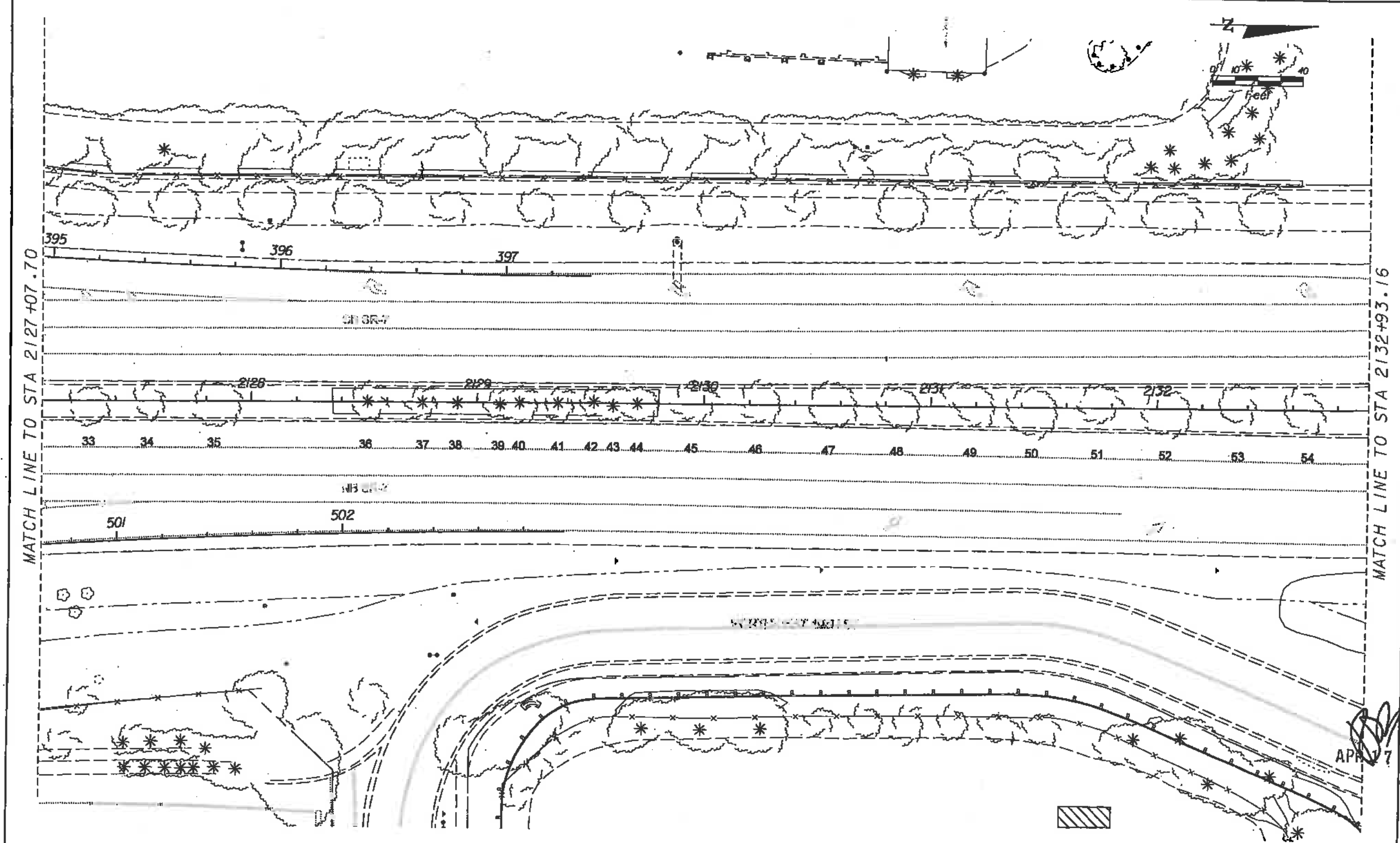

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 917
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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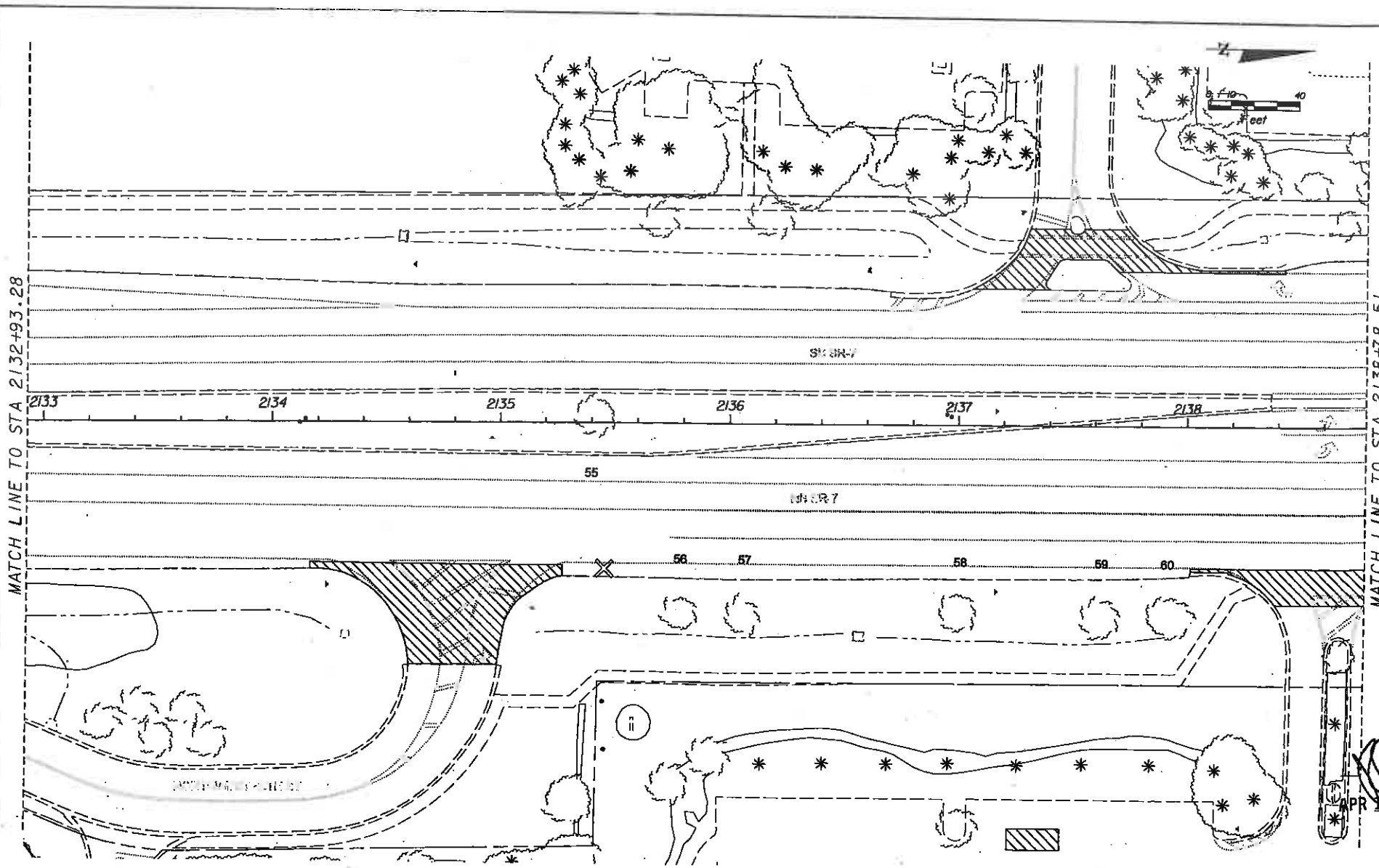

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA REG #1617
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-16

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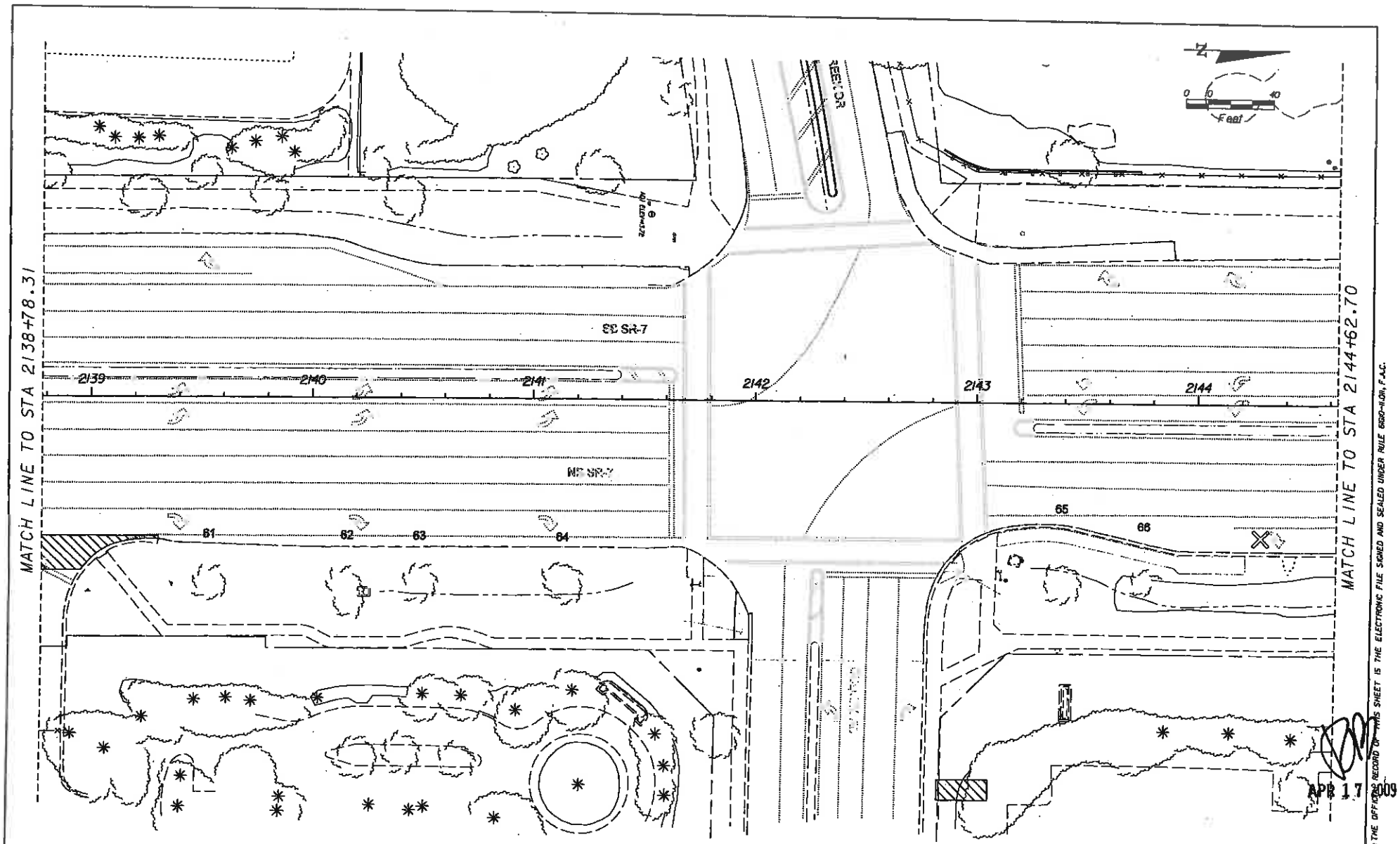

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100, WEST PALM BEACH FL 33409 (561) 478-6501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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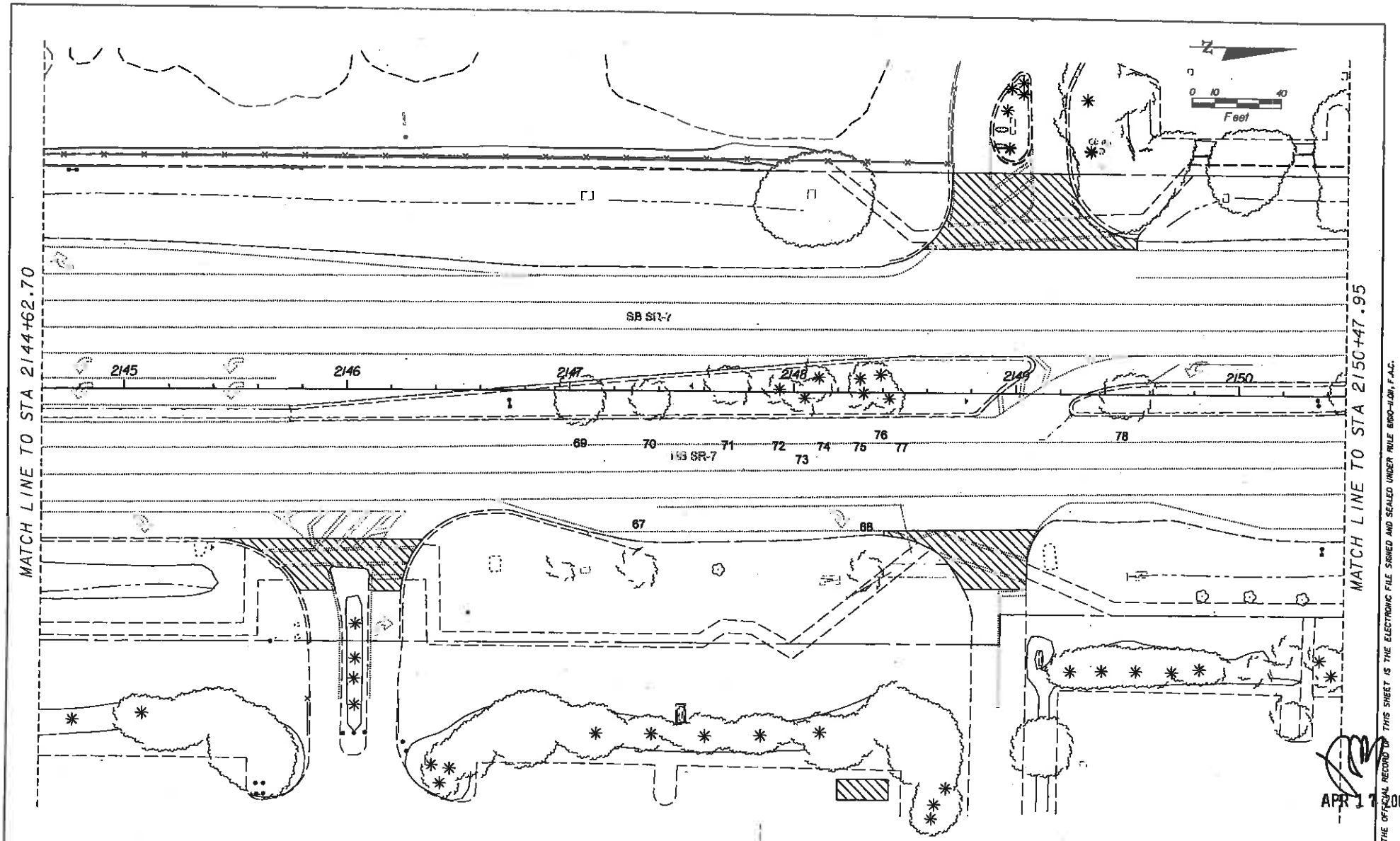

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8301
ROBERT BENTZ LA REG # 6?
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-18

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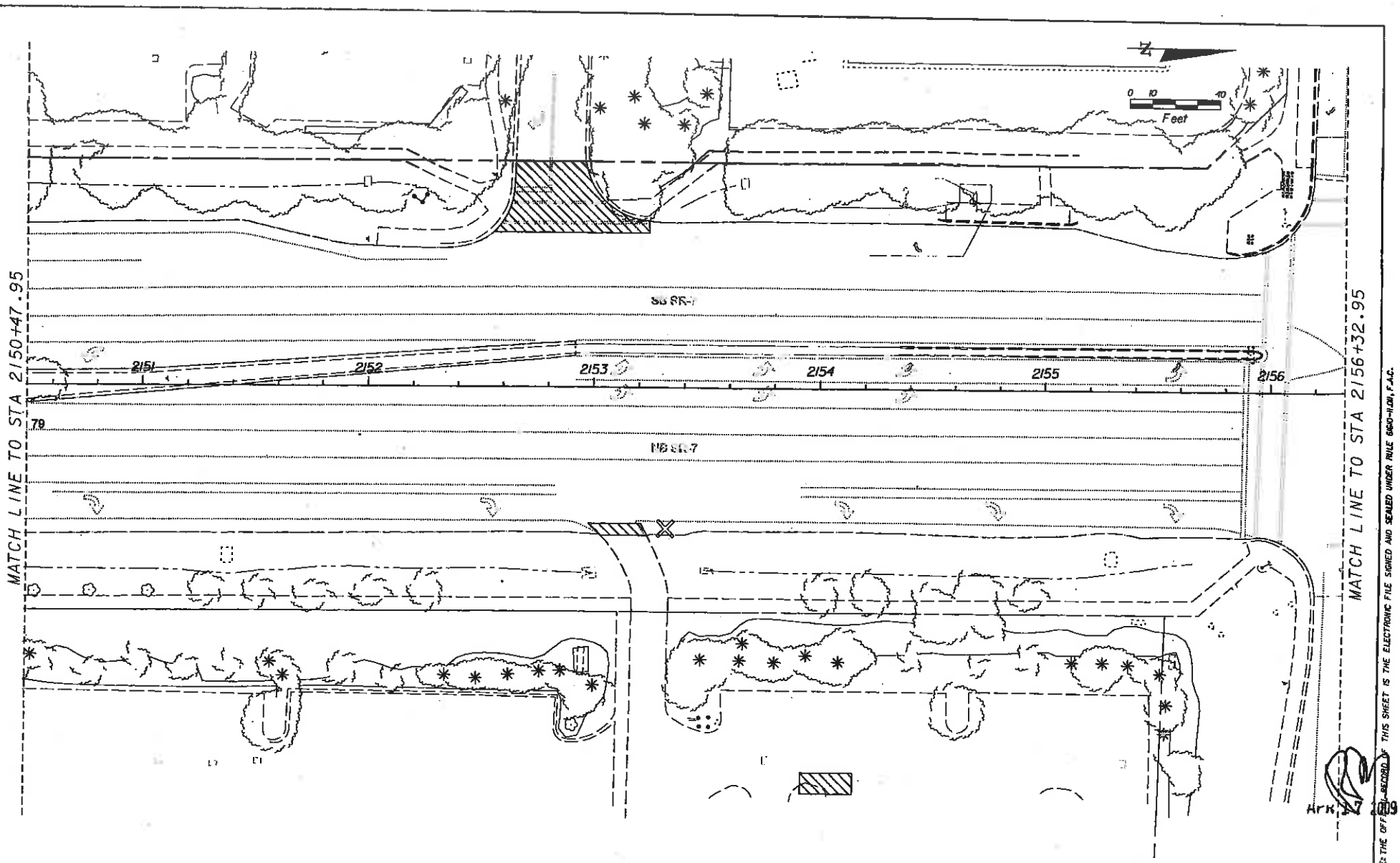

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Apr 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8591
ROBERT BENTZ LA REG # 1127
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-19

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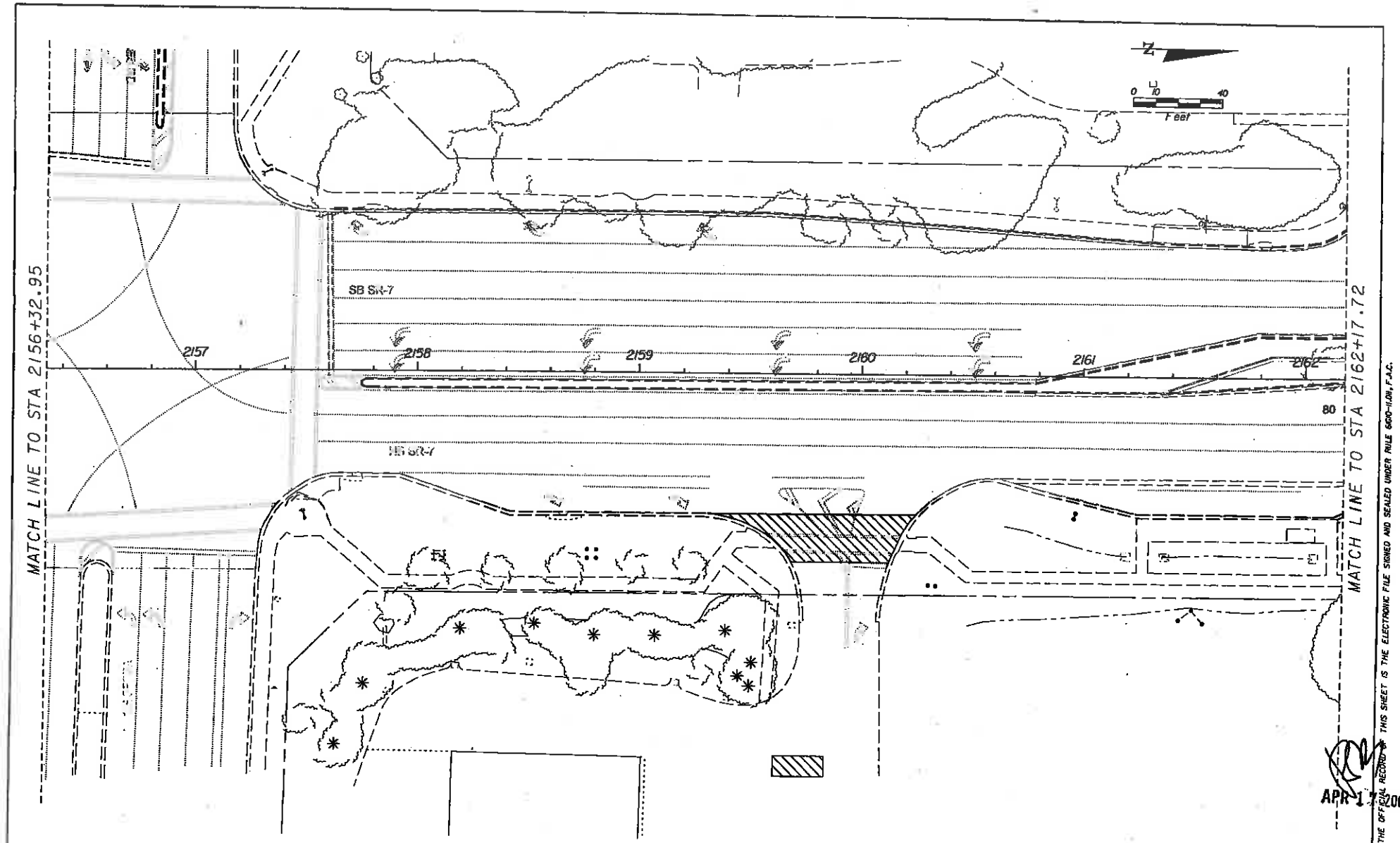

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
CERTIFICATE OF AUTHORIZATION NO: 000206
2101 CENTREPARK WEST DR. SUITE 109 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LA REG # 667

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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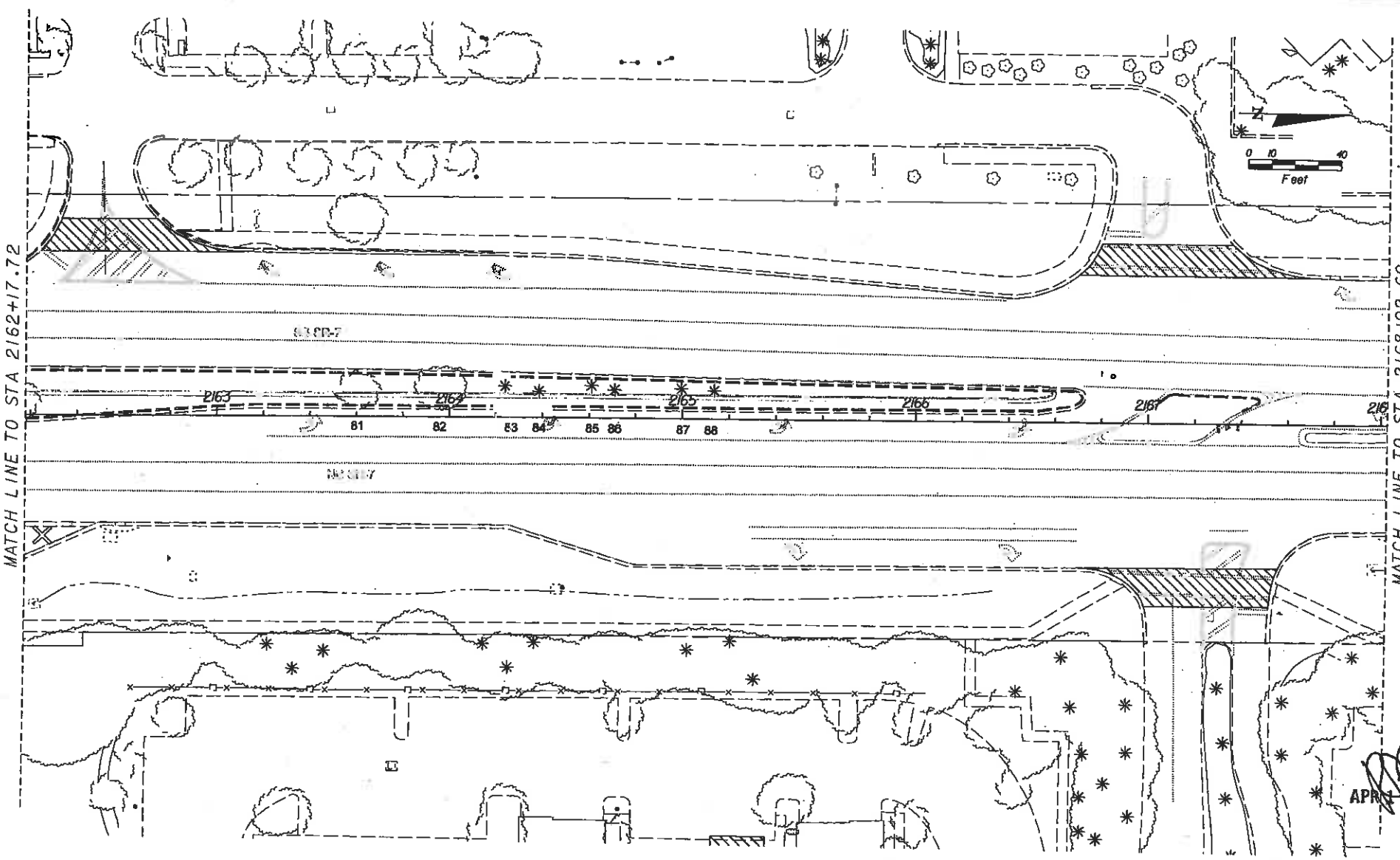

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA REG #1737
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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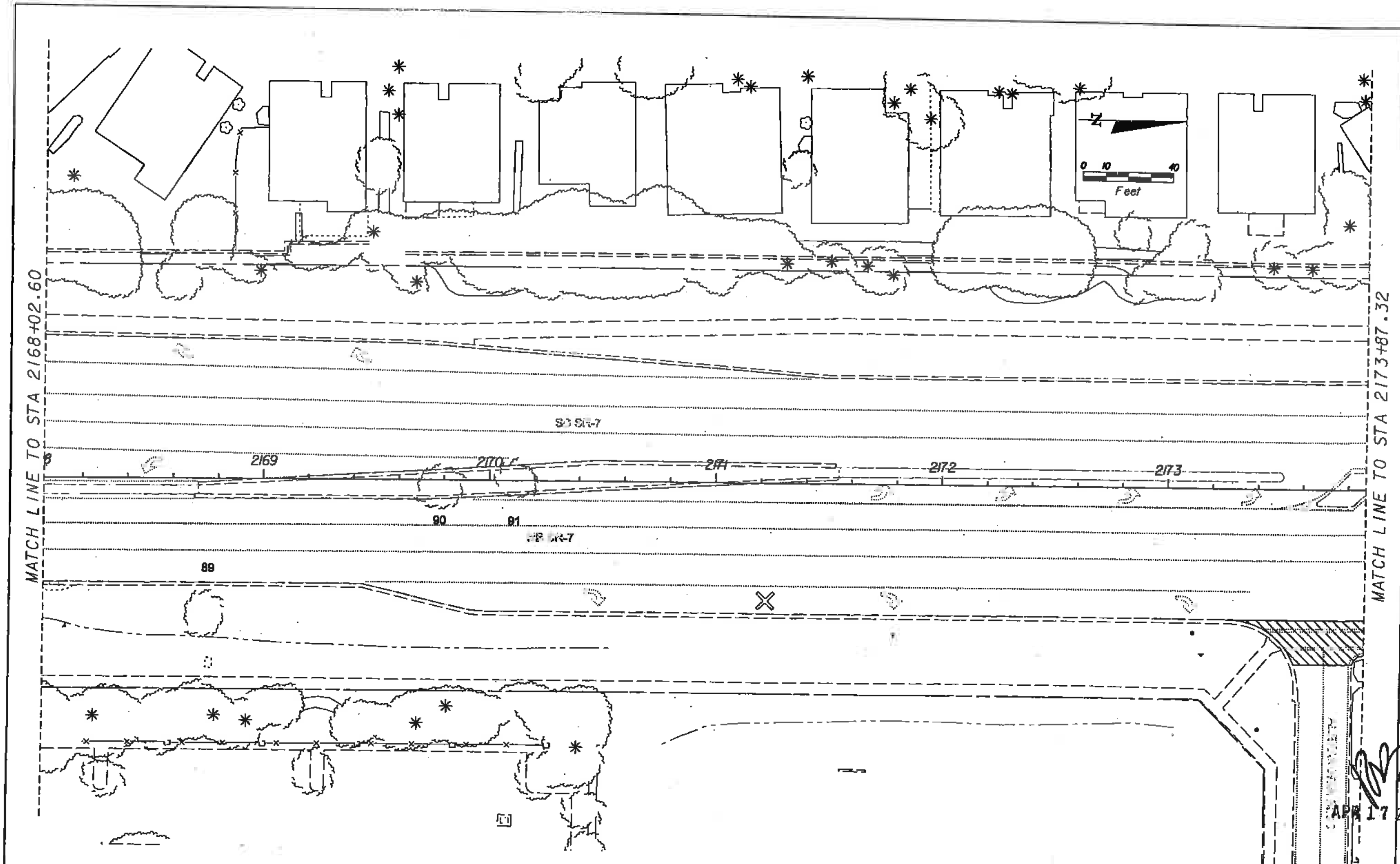

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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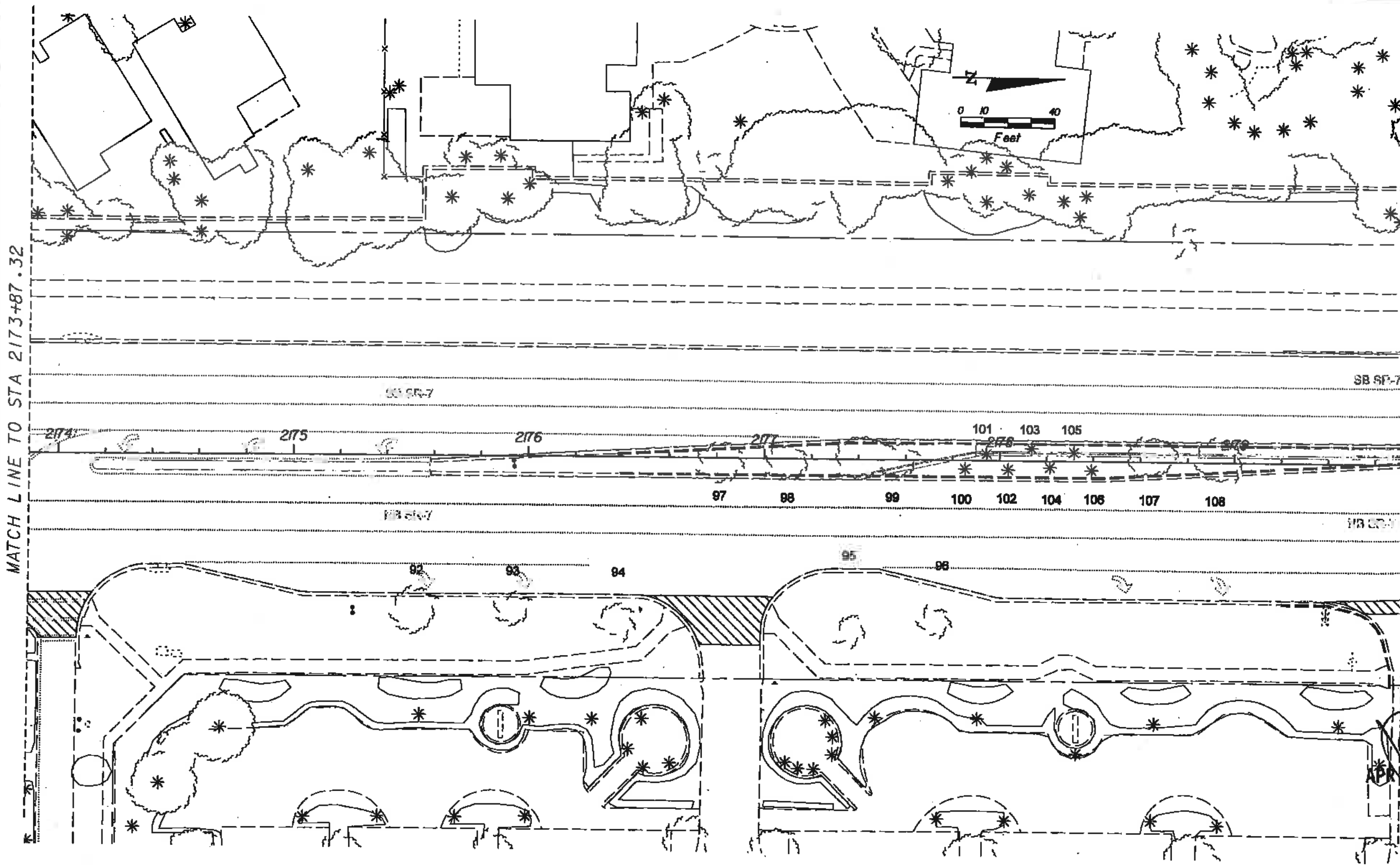

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-23

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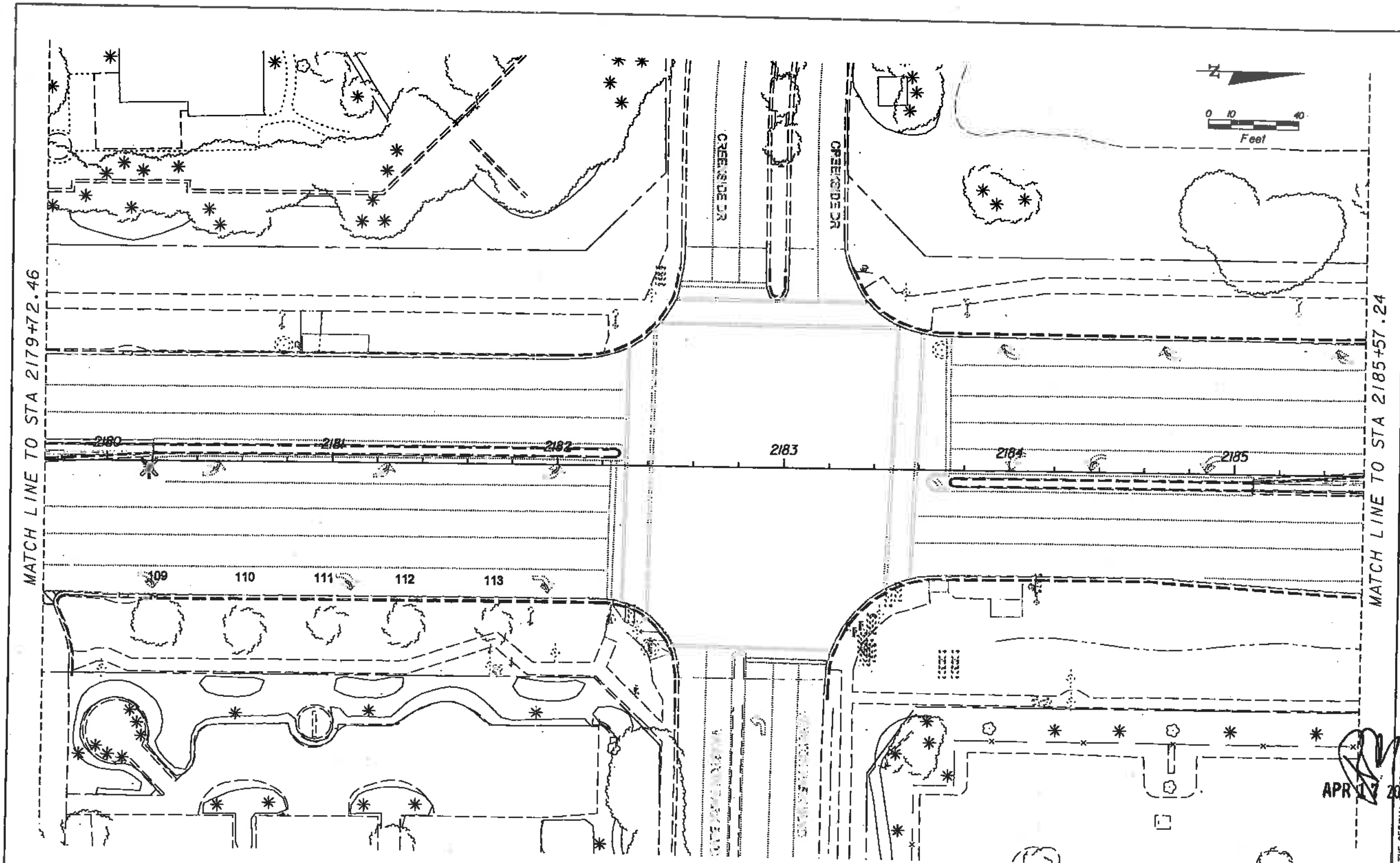

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR, SUITE 100, WEST PALM BEACH FL 33409, (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-24

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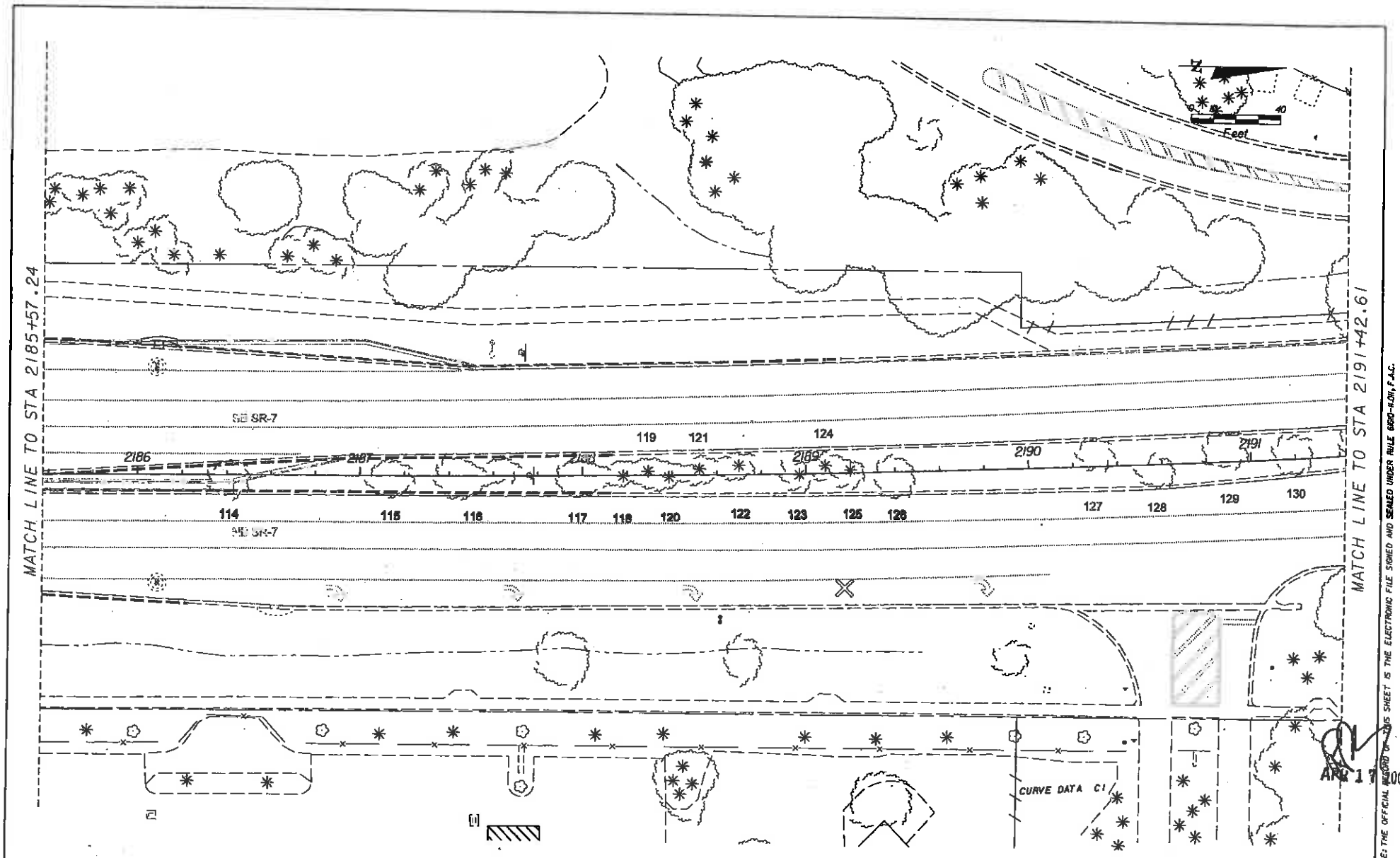

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8691
ROBERT BENTZ LA REG # 2017
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-25

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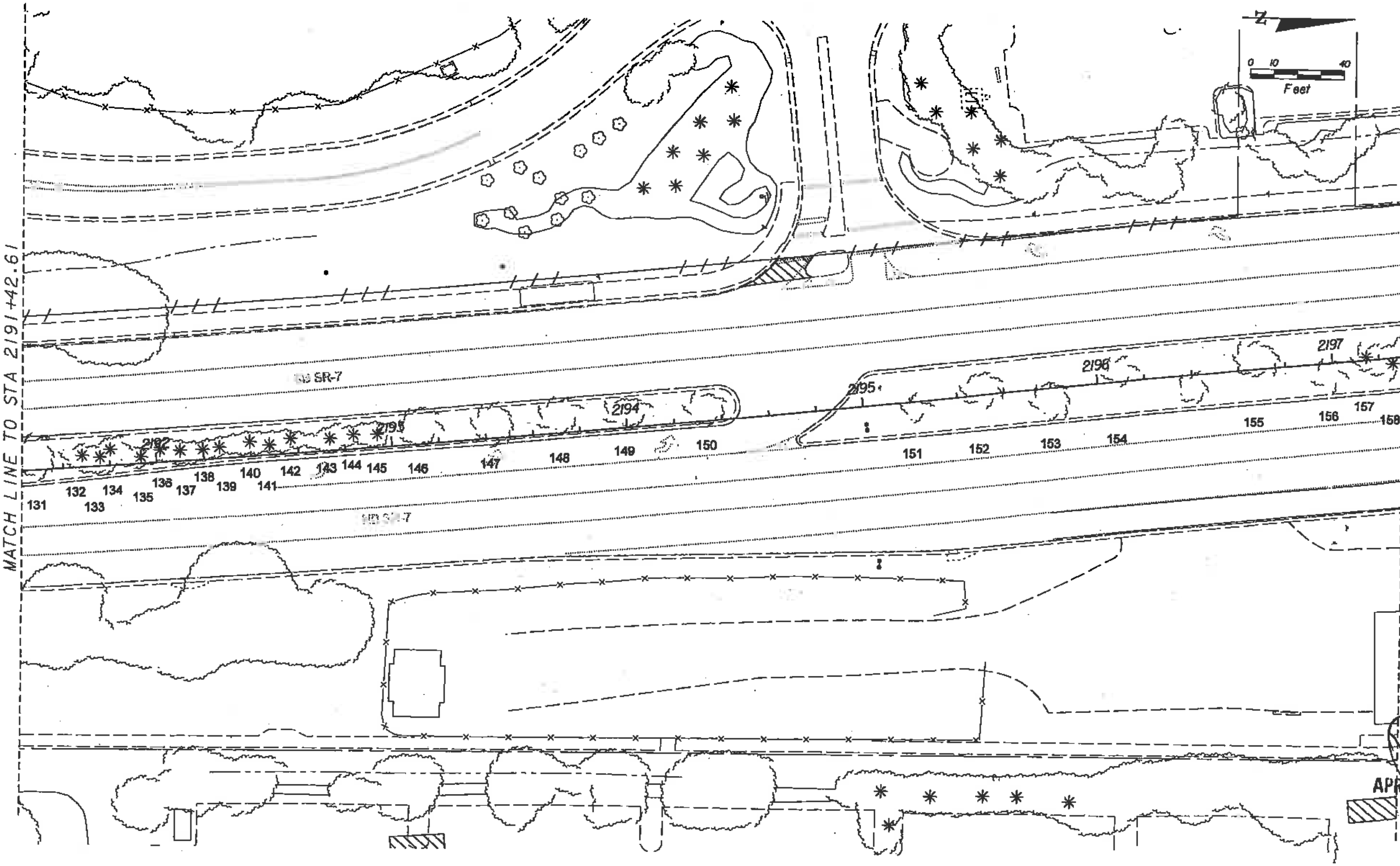

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 0...7
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-26

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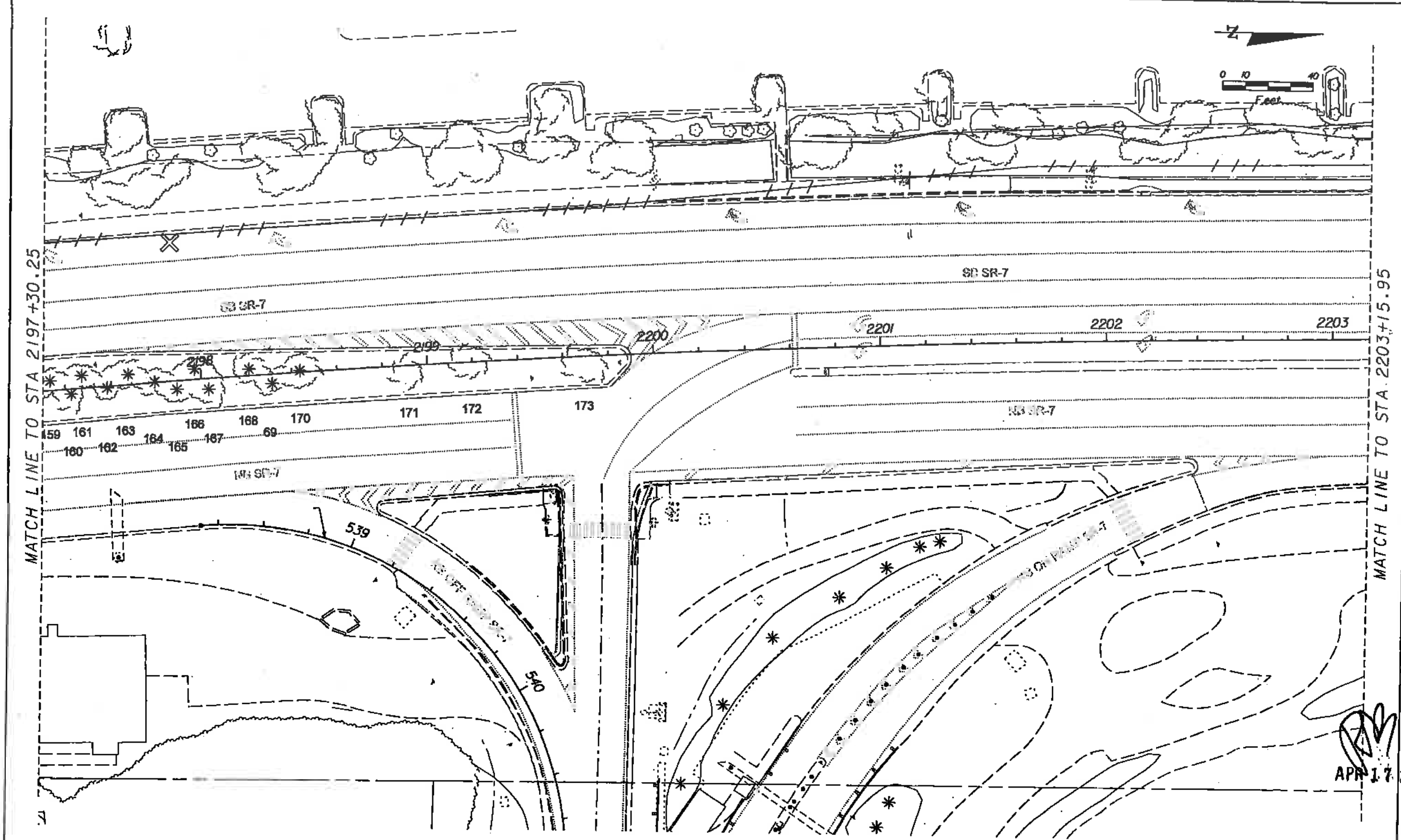

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA RED # 887
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-27

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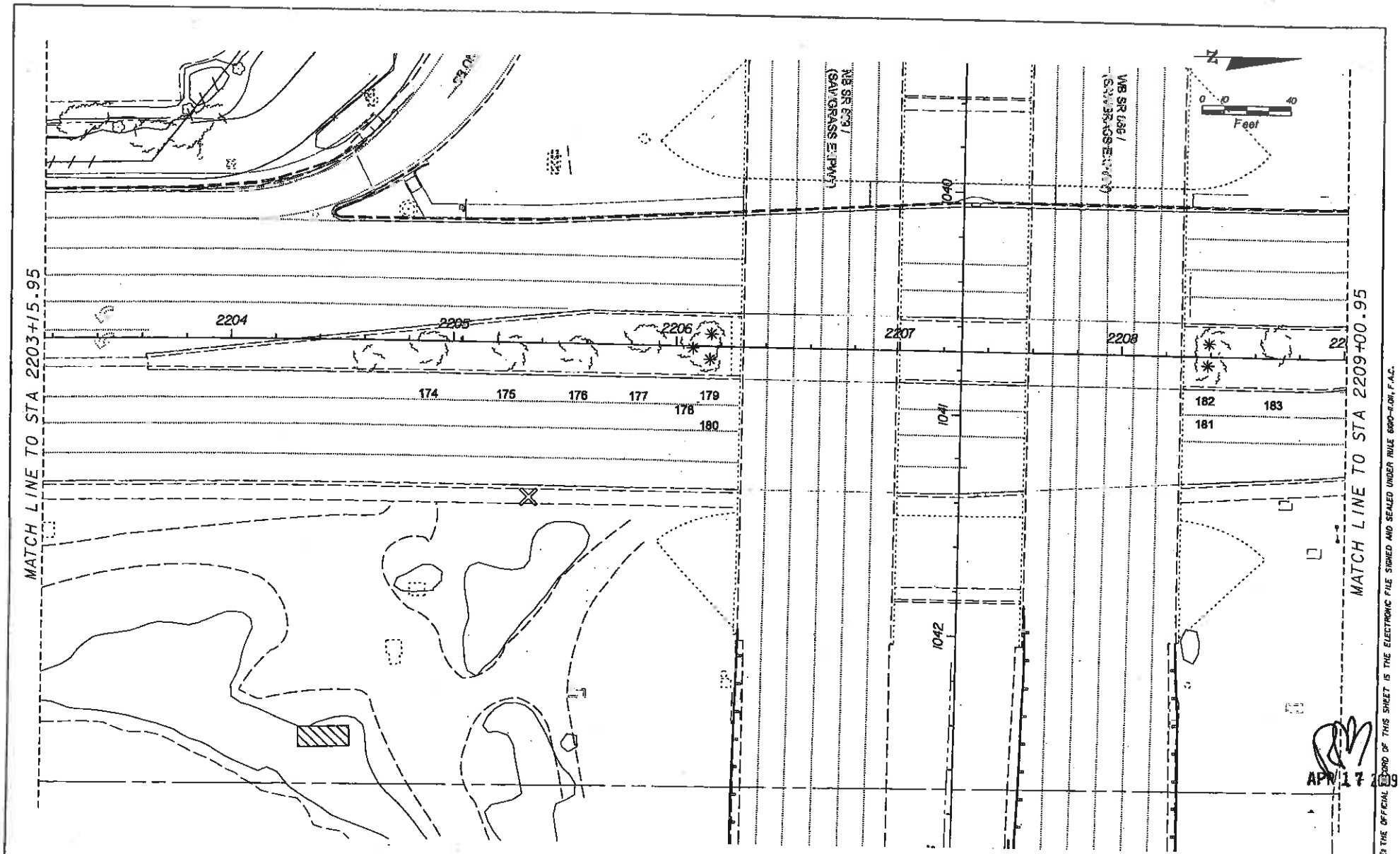

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-6591
ROBERT BENTZ LA REG # 697
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO. LD-28

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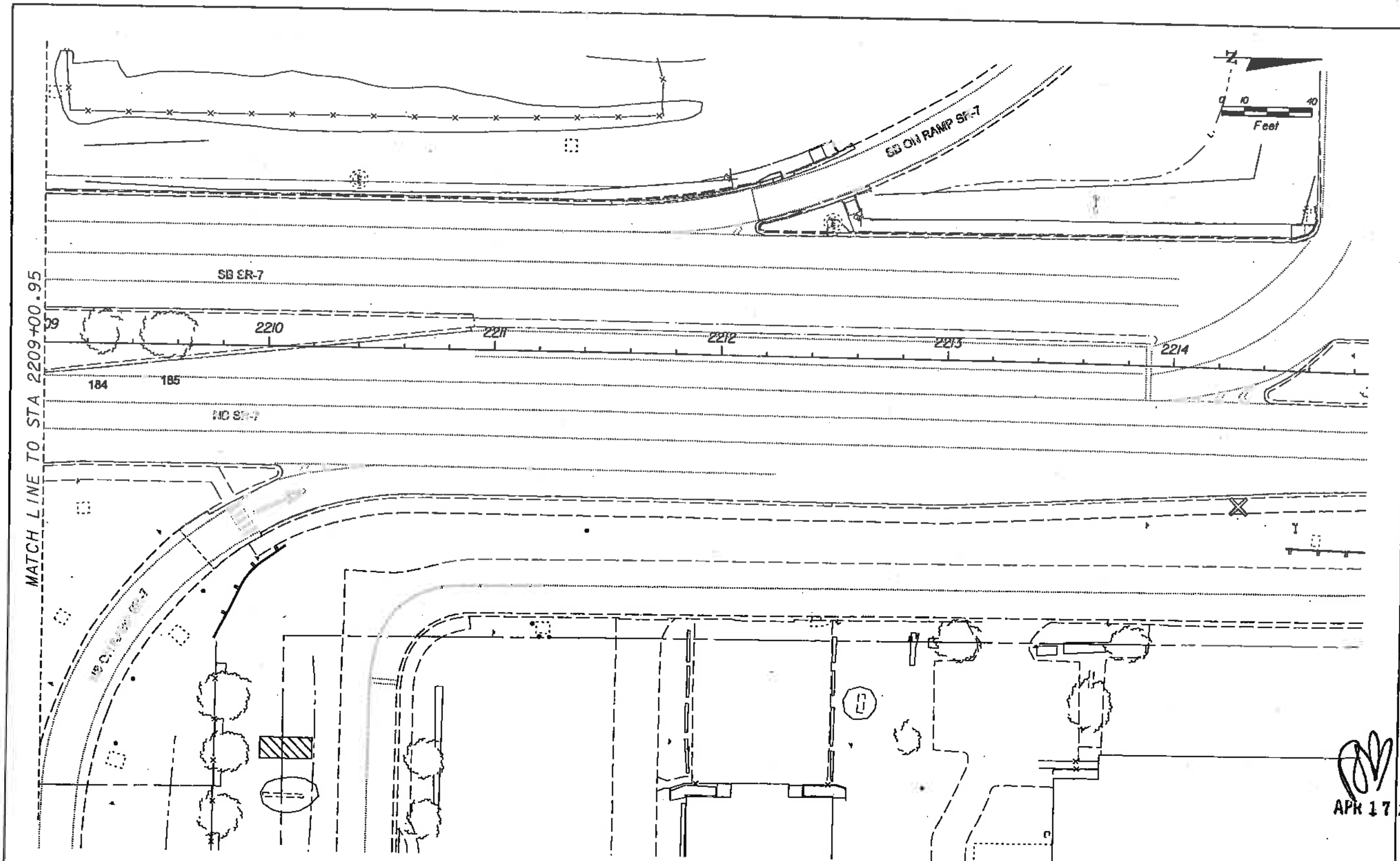

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

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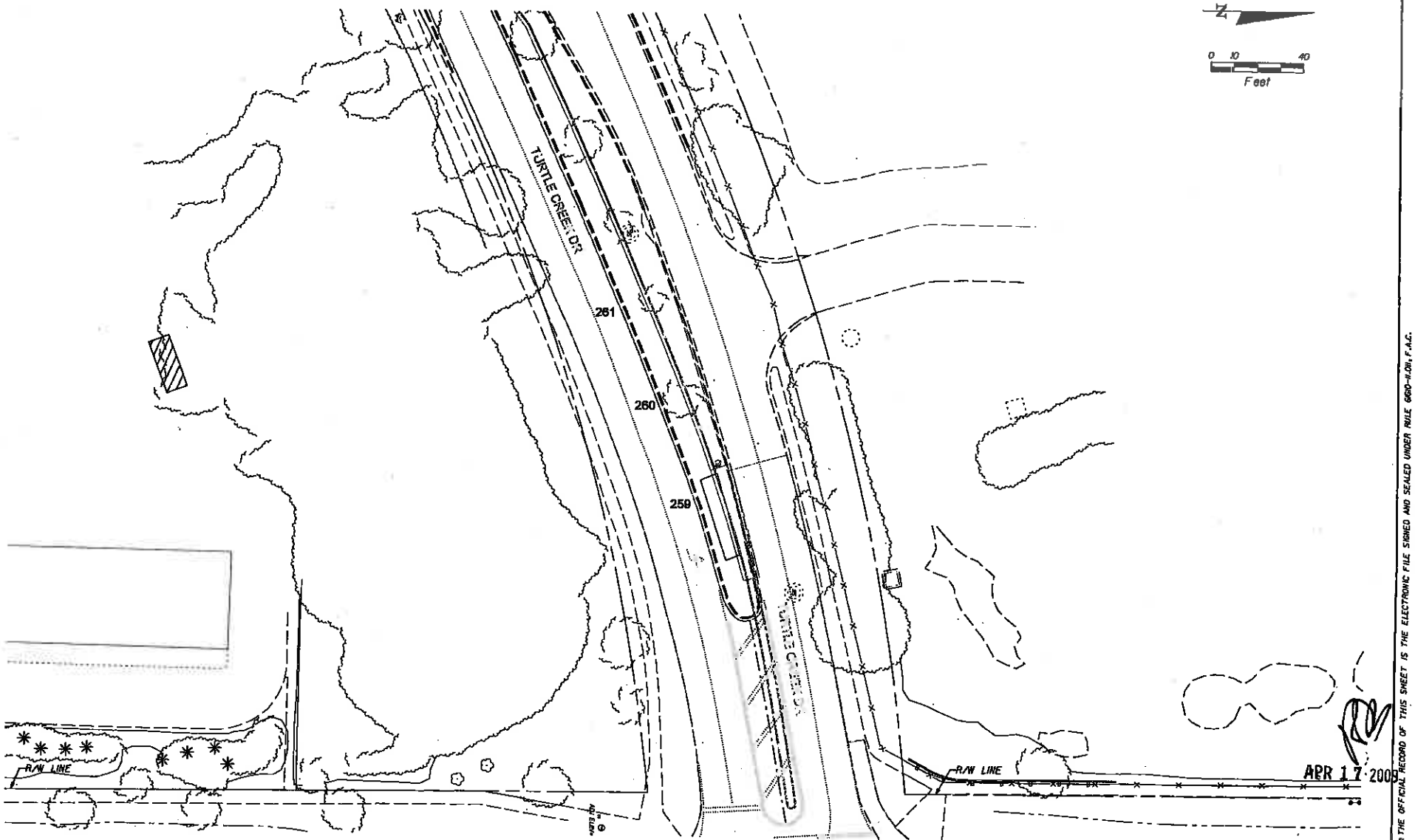

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LAREG # 637
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-30

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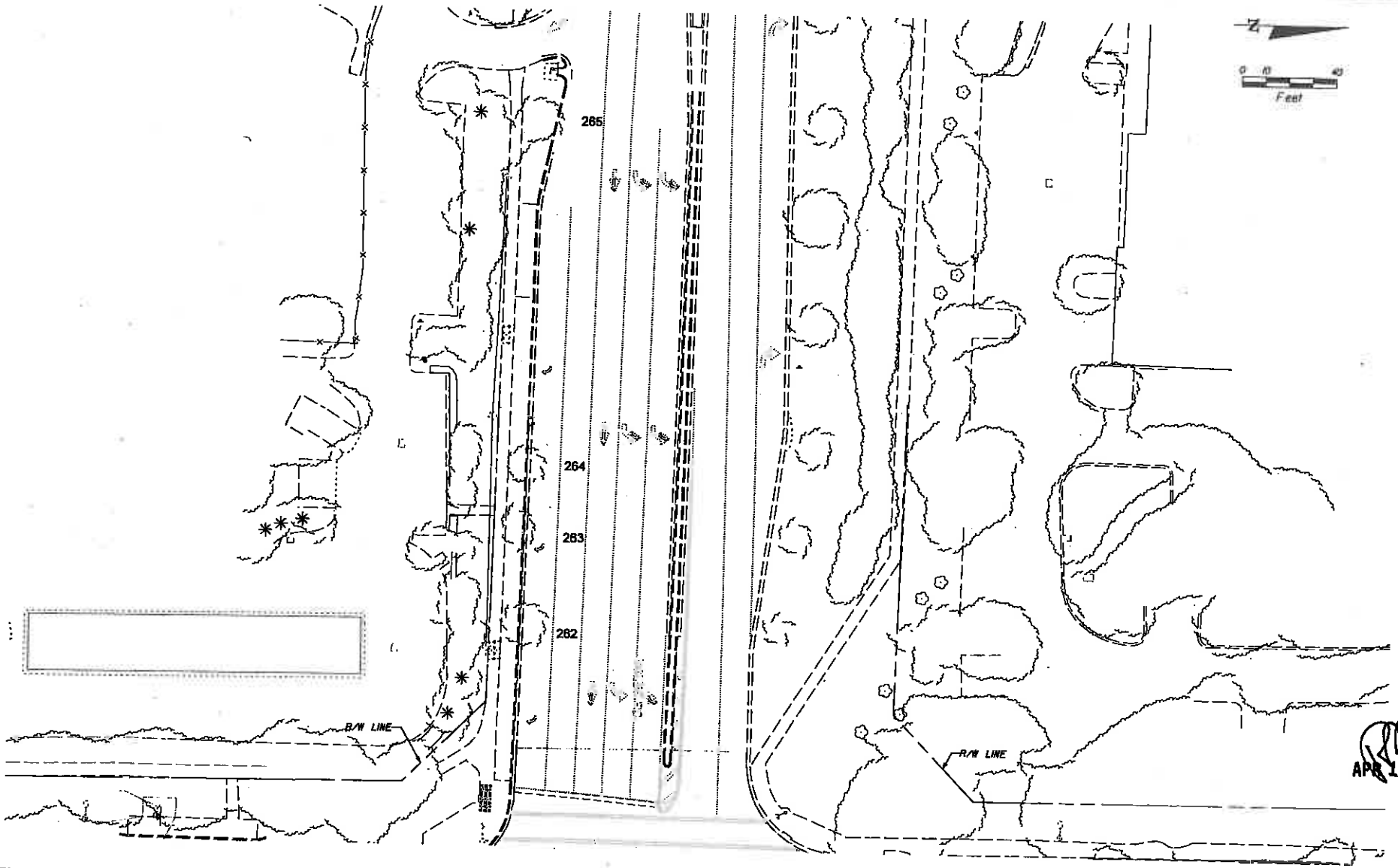

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL.
33409
(561) 478-6591
ROBERT BENTZ LA REG # 807
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

EXISTING CONDITIONS PLAN

SHEET NO.
LD-31

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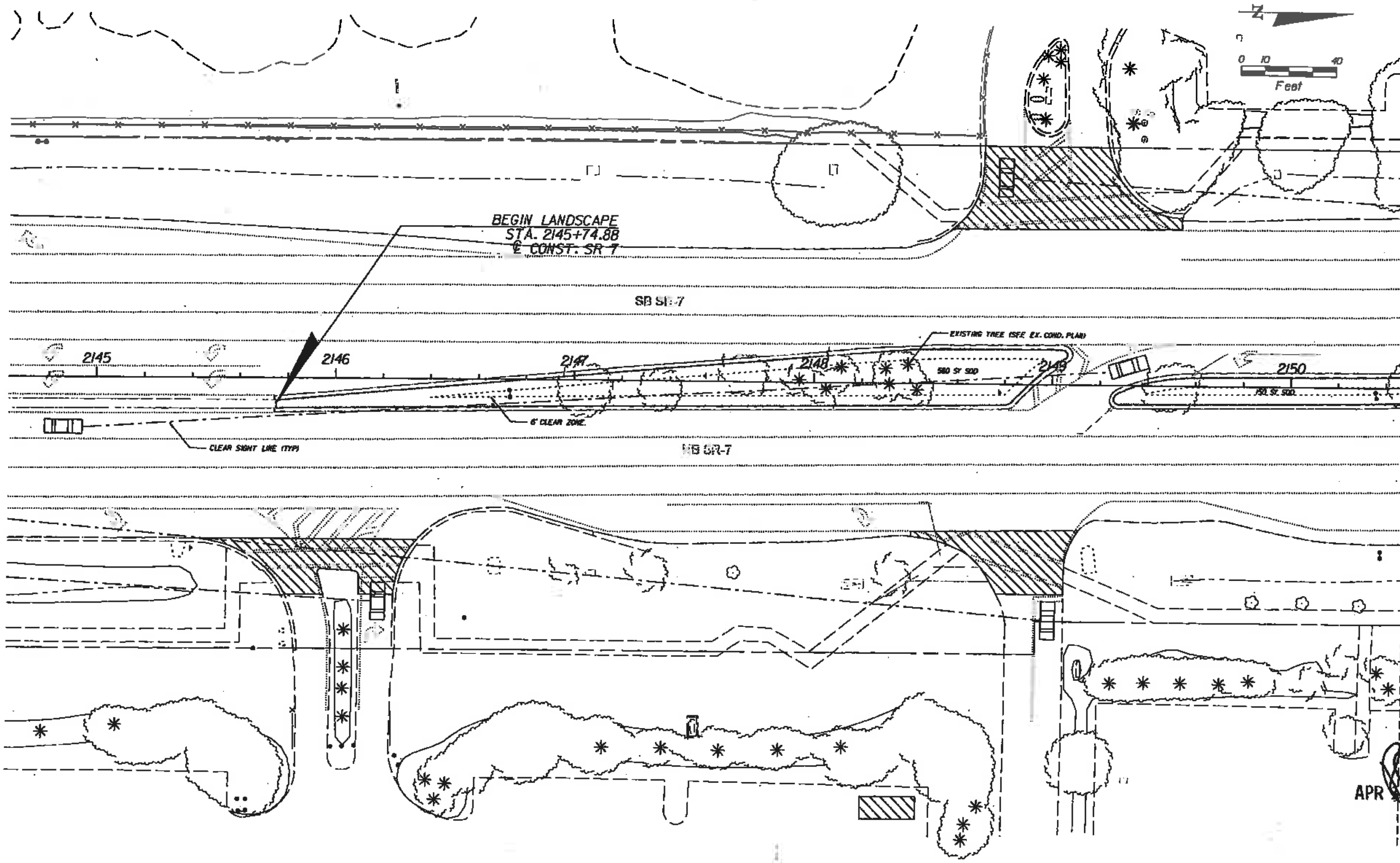

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG #
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-32

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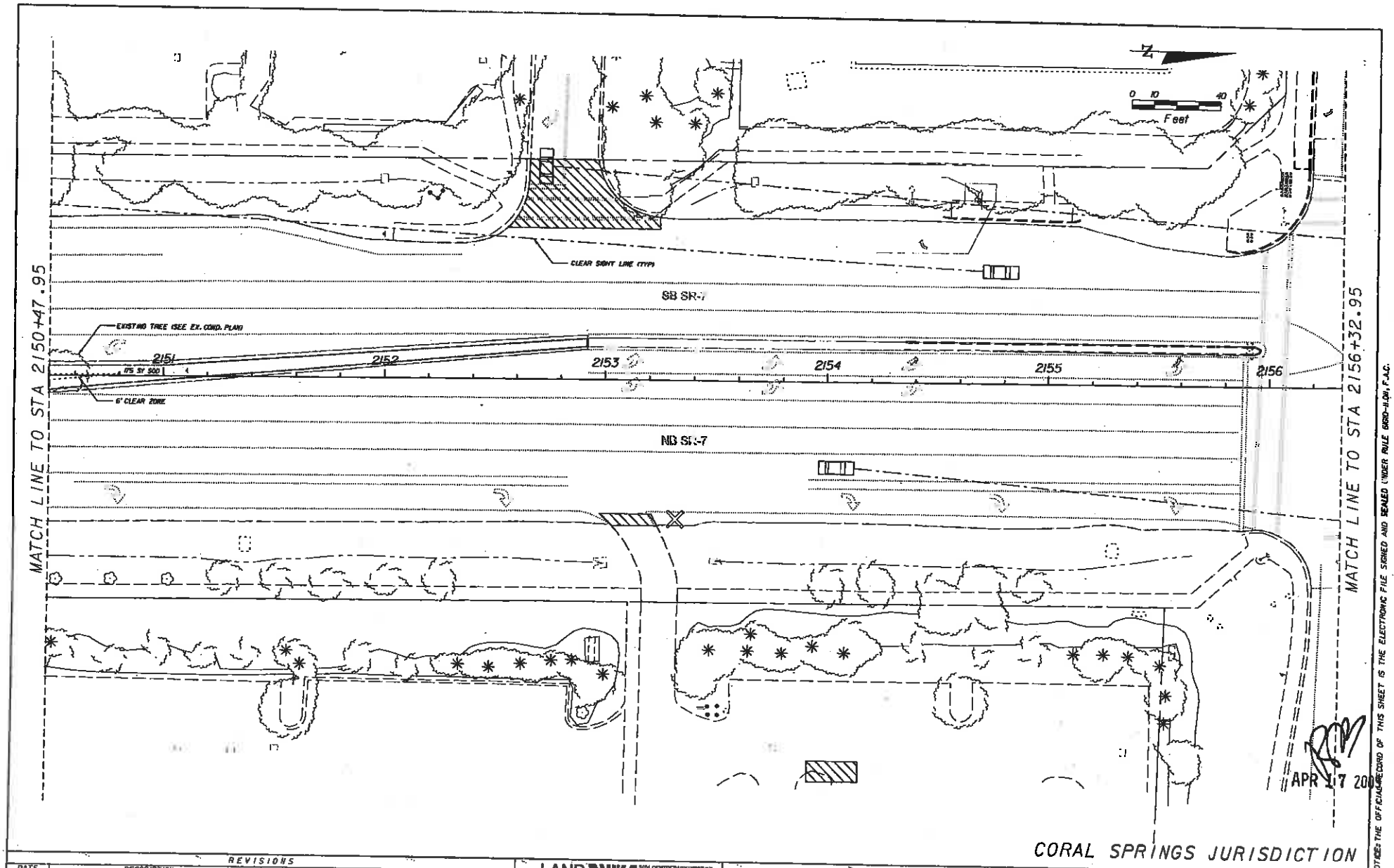

CORAL SPRINGS JURISDICTION

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DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33408 (561) 478-6501
ROBERT BENTZ LA REG # 897
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-33

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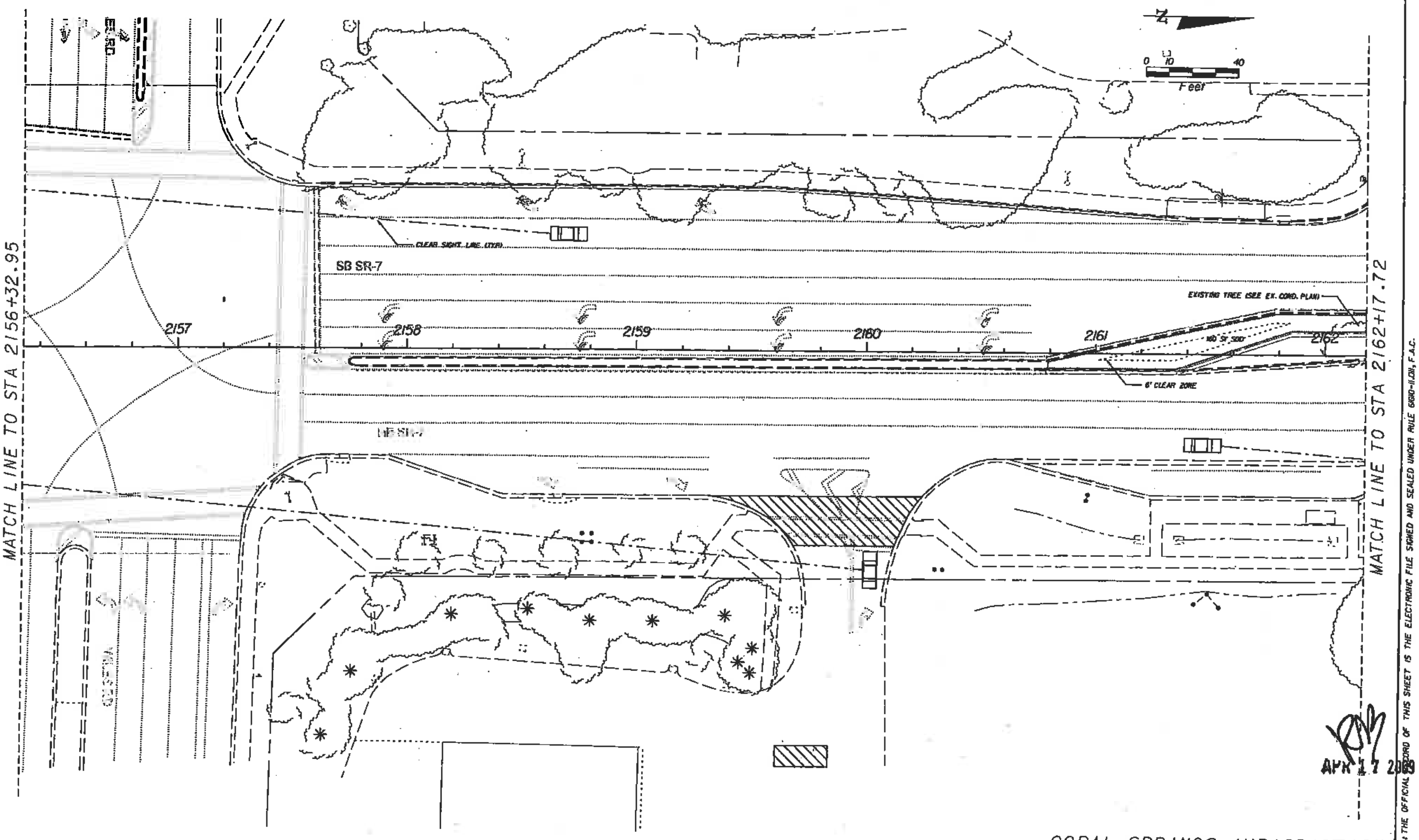

CORAL SPRINGS JURISDICTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-34

4/17/2009

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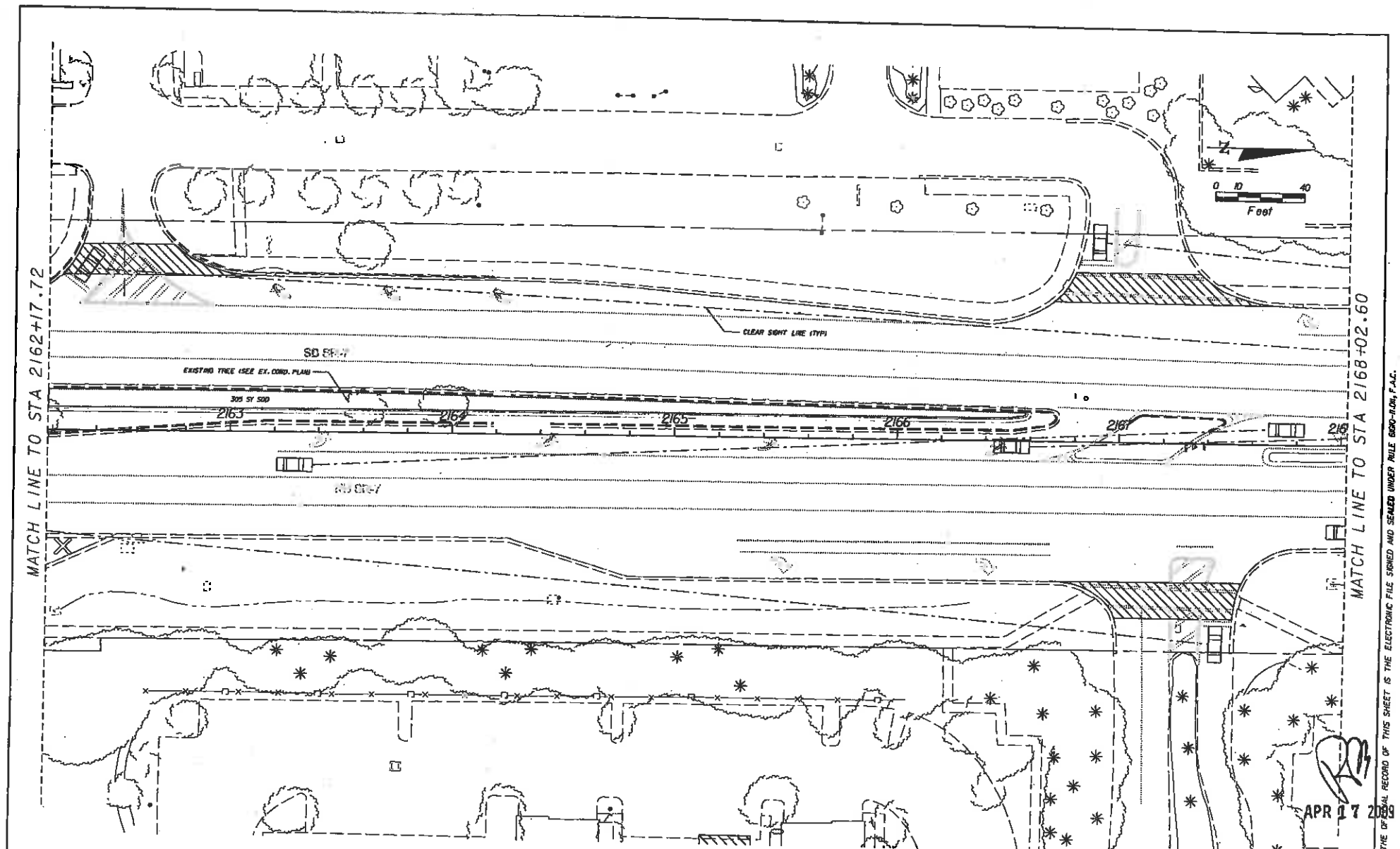

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA REG # 897
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

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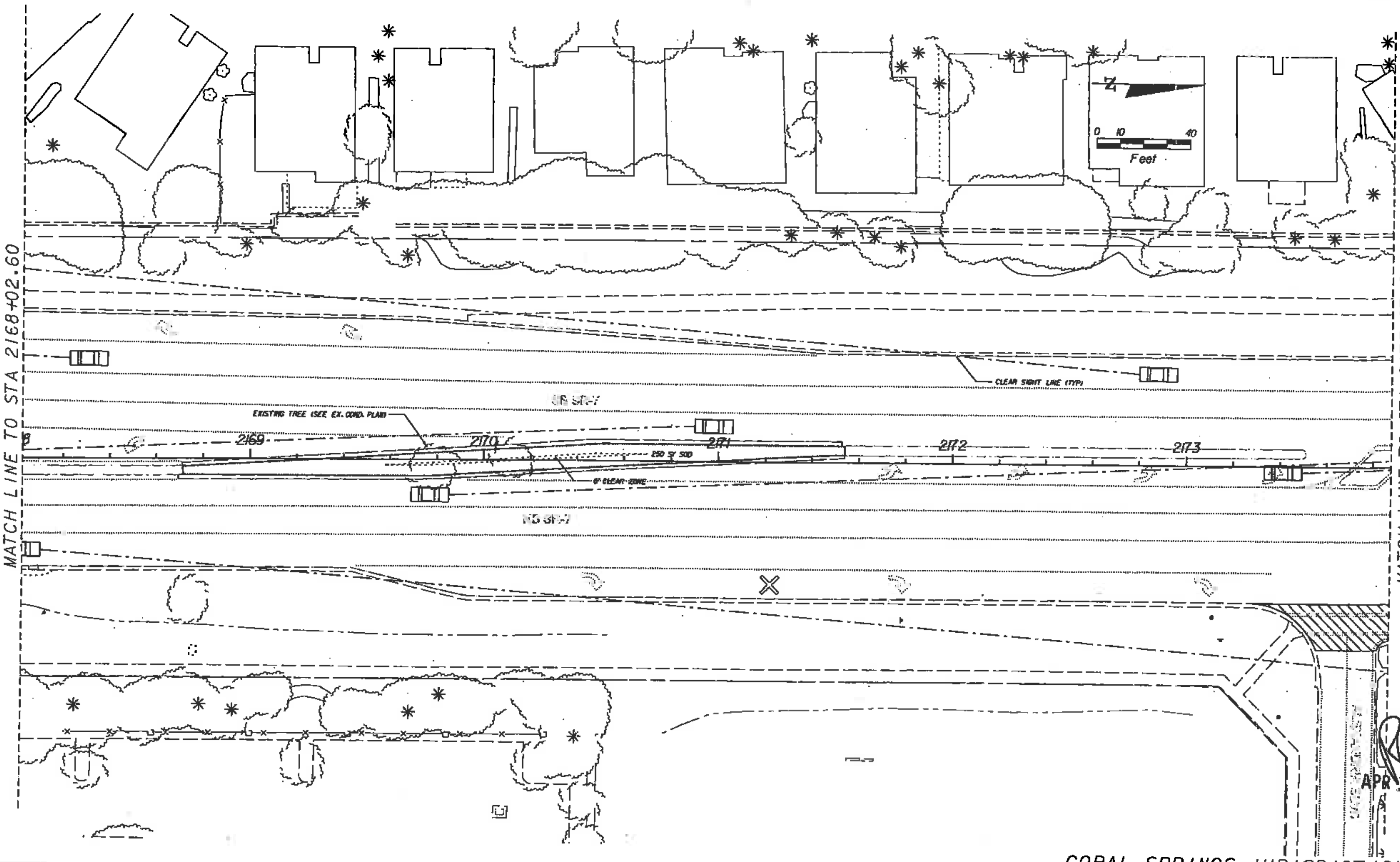

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 1187
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

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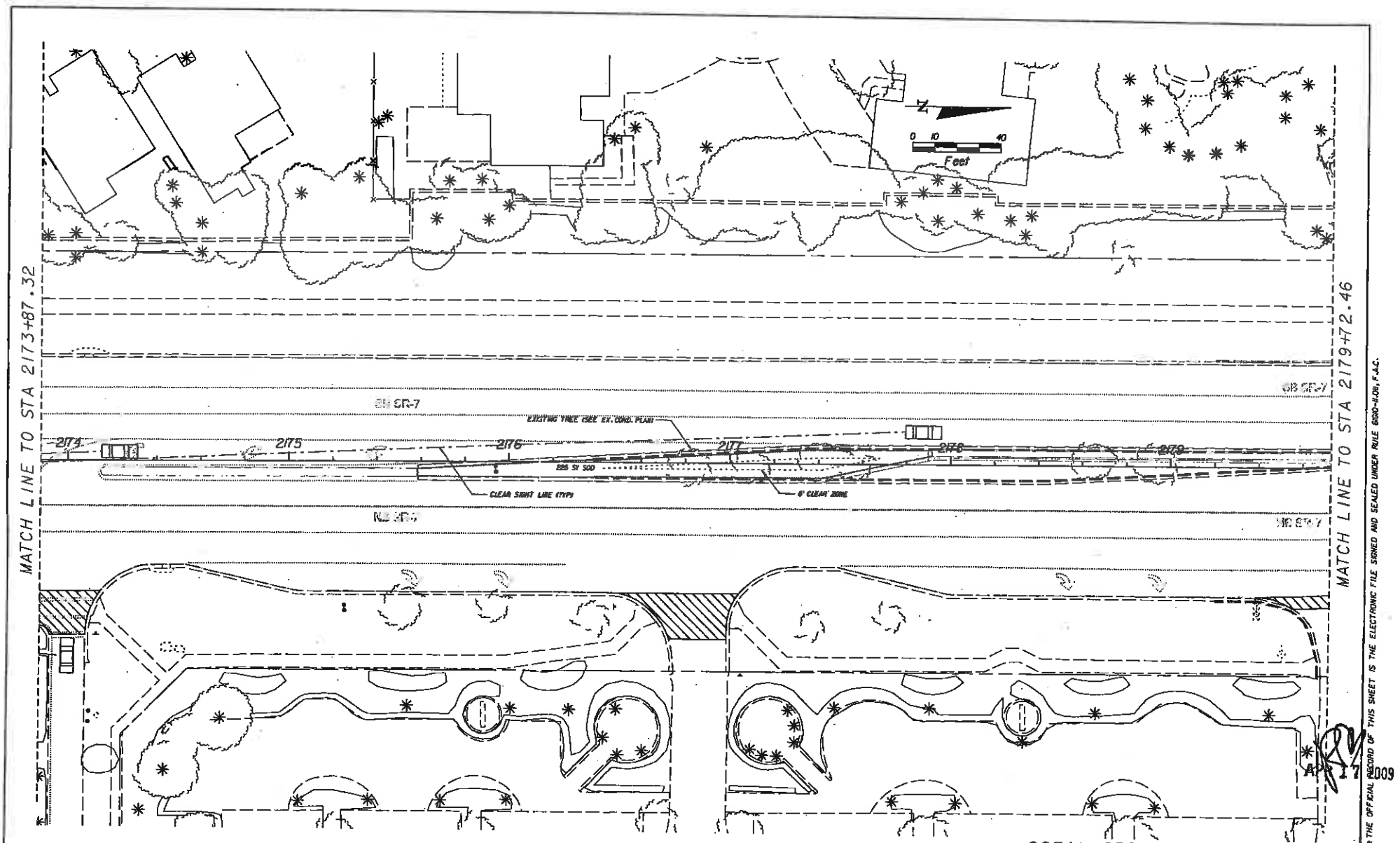

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA REG # 2
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-37

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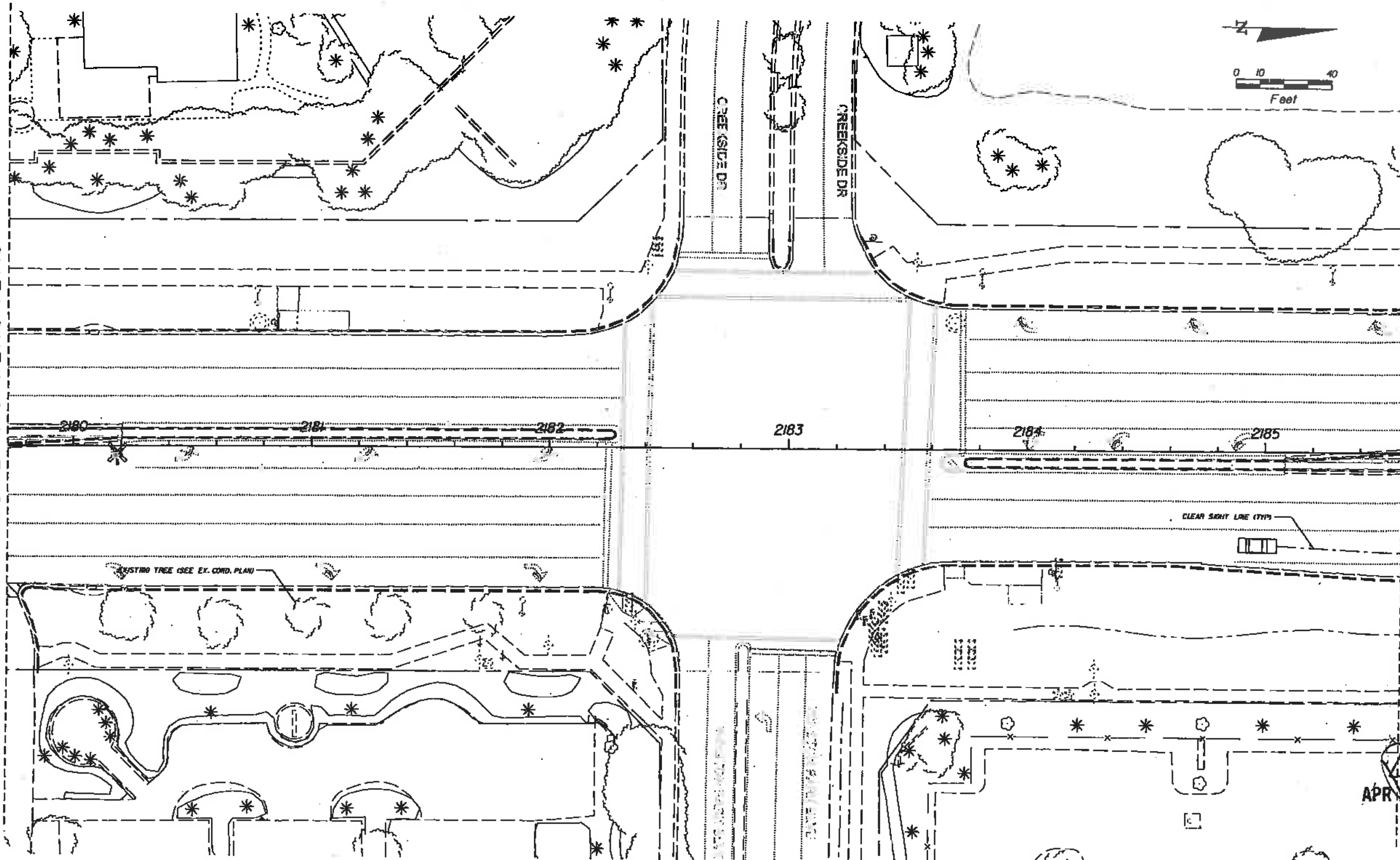

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # LA7
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-38

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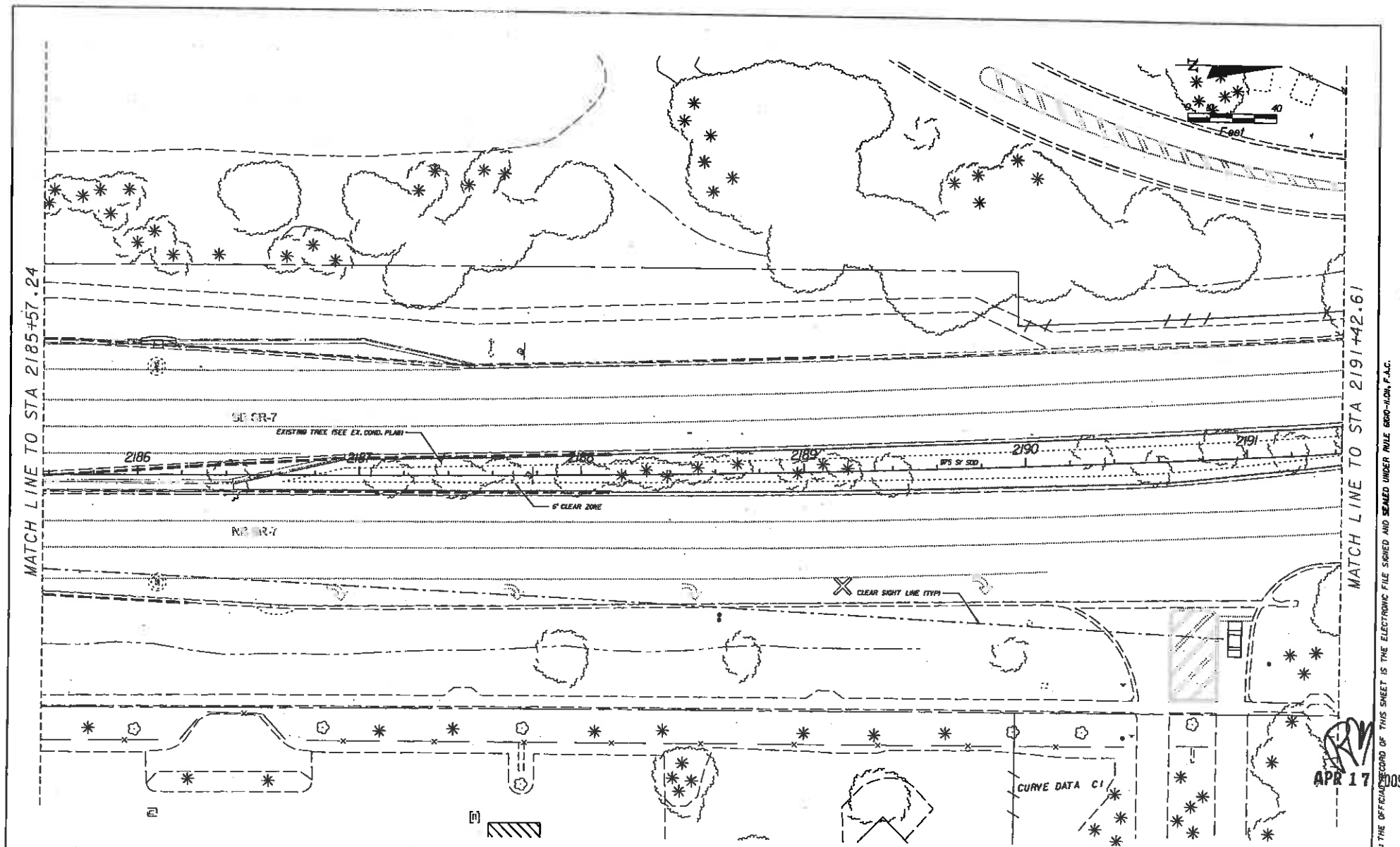

CORAL SPRINGS JURISDICTION

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-6591
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-39

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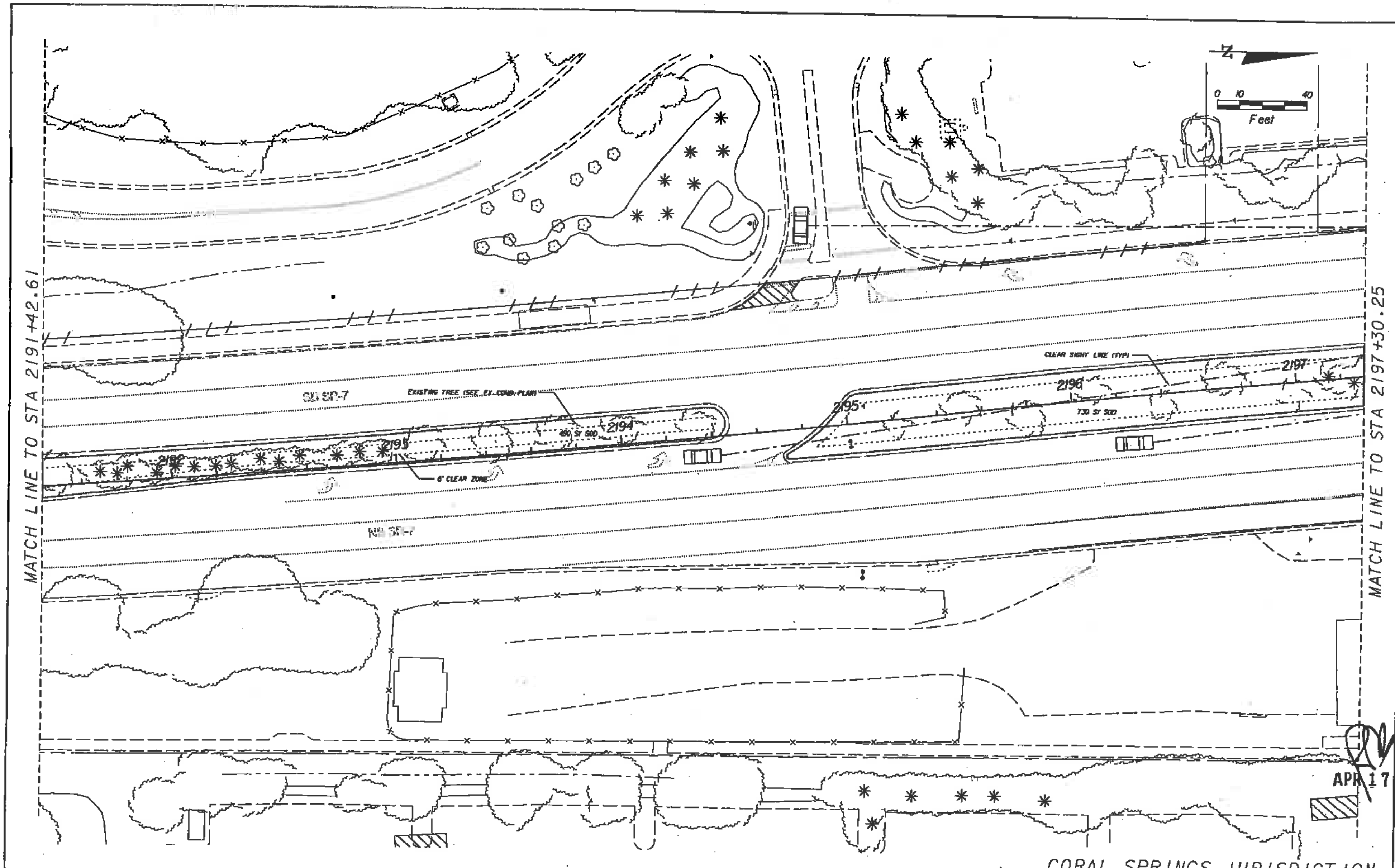

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ, LA REG # 1/7
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-40

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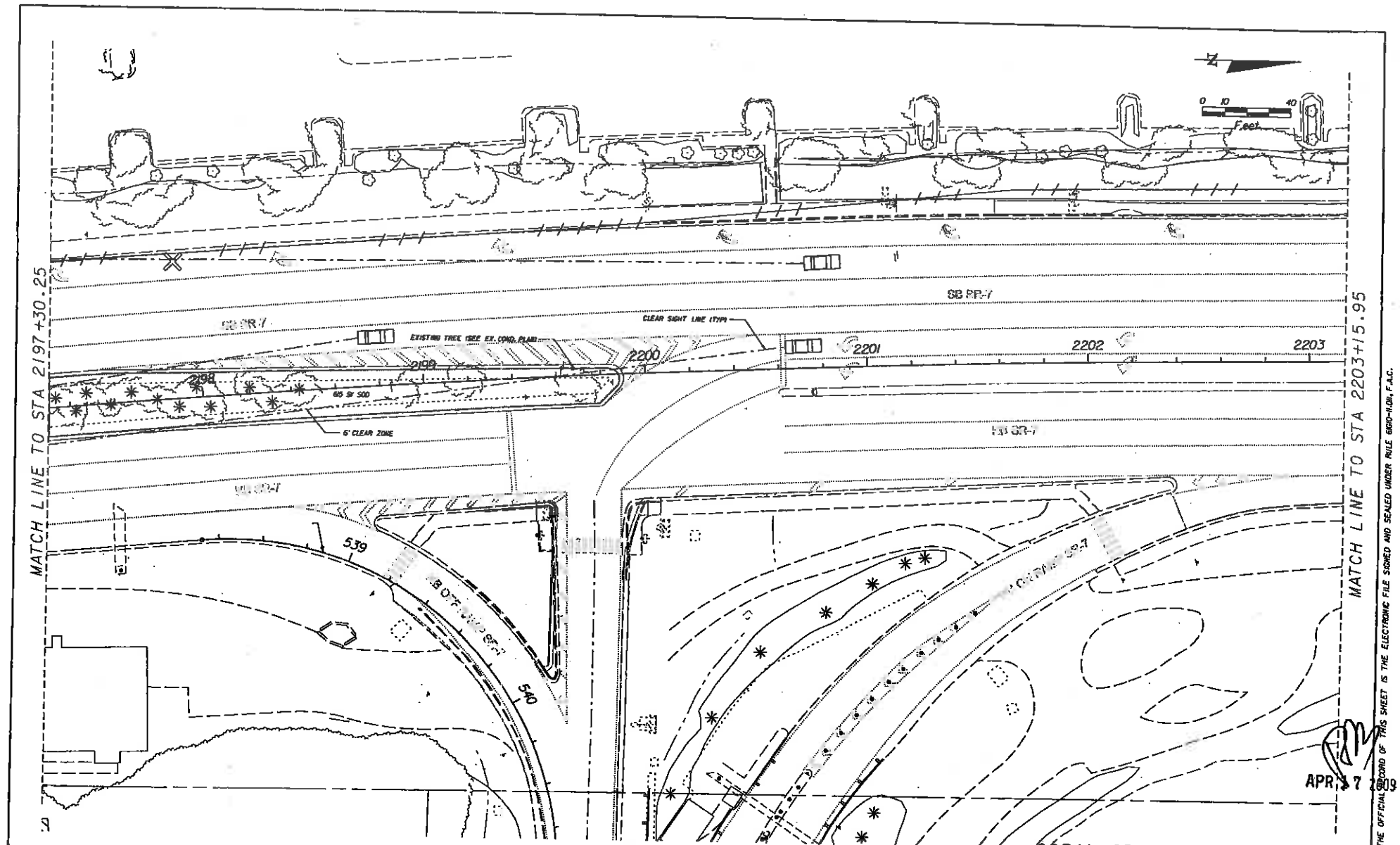

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8501
ROBERT BENTZ LA REG # 907
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-41

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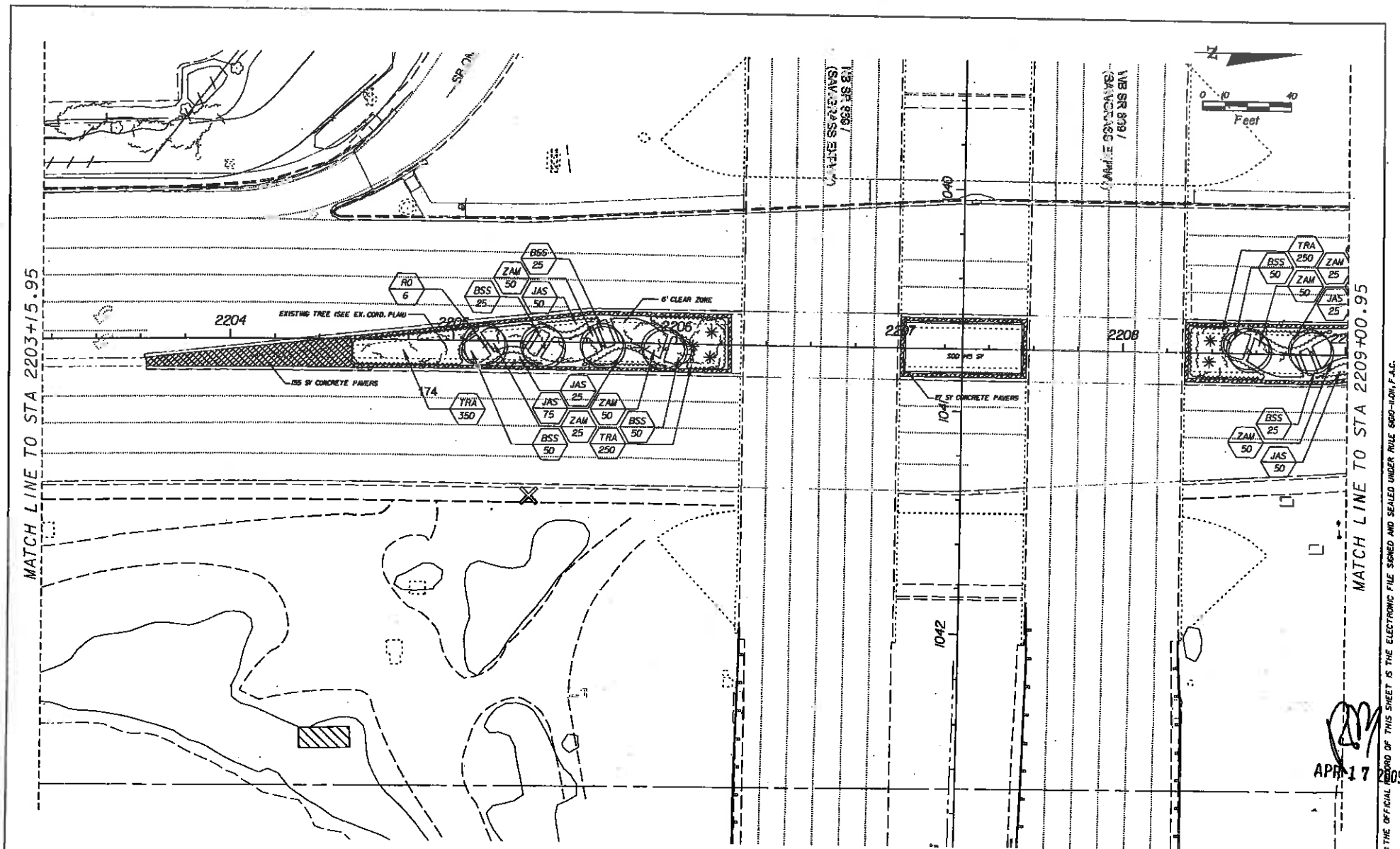

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 697
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-42

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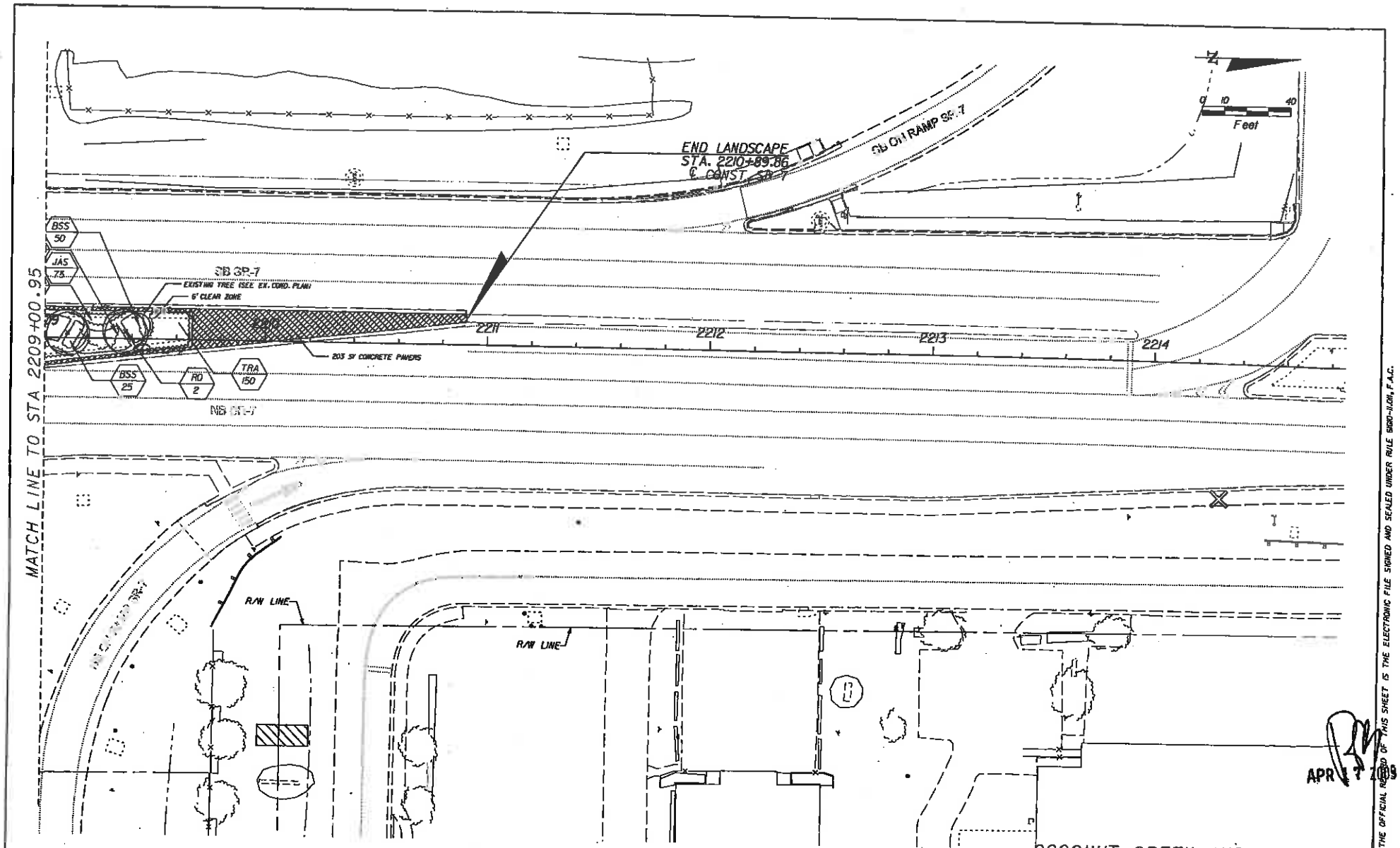

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 476-8501 ROBERT BENTZ LA REG # 9897
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO. LD-43

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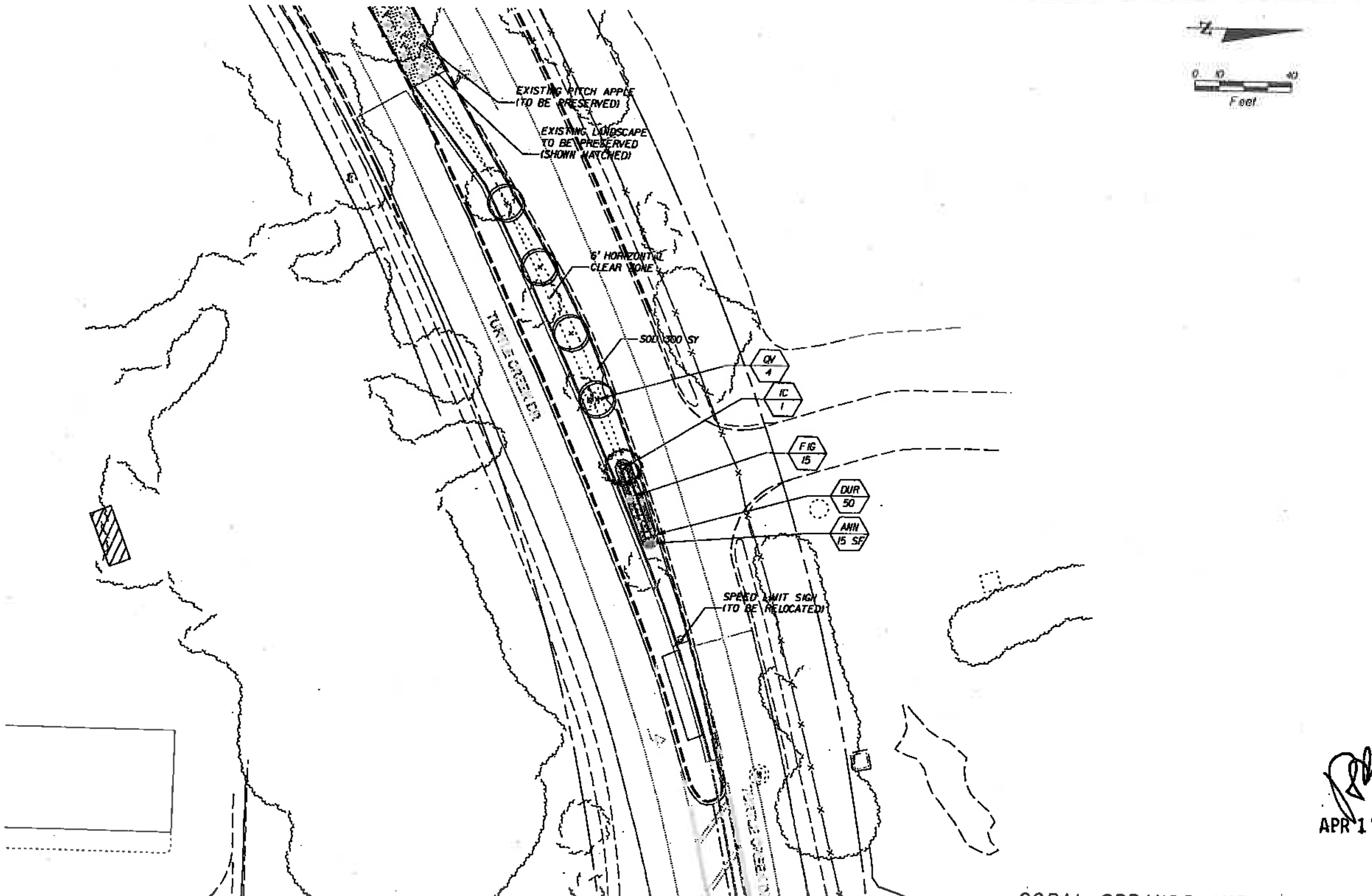

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CORAL SPRINGS JURISDICTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2601 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL 33409
(561) 478-8501
ROBERT BENTZ LA REG # [illegible]
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-44

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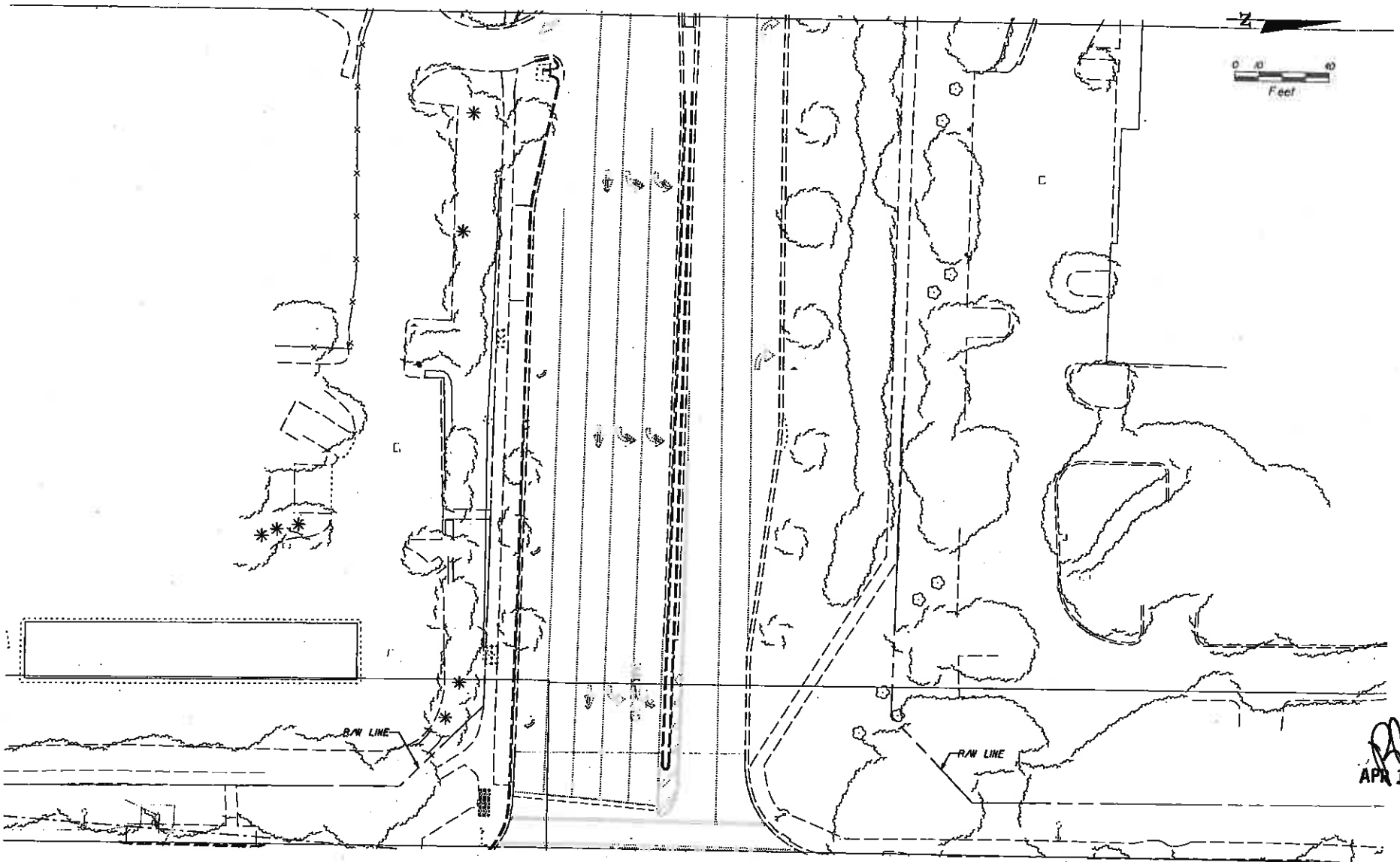

CORAL SPRINGS JURISDICTION

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(901) 478-8501
ROBERT BENTZ LA REG # 627
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

LANDSCAPE PLAN

SHEET NO.
LD-45

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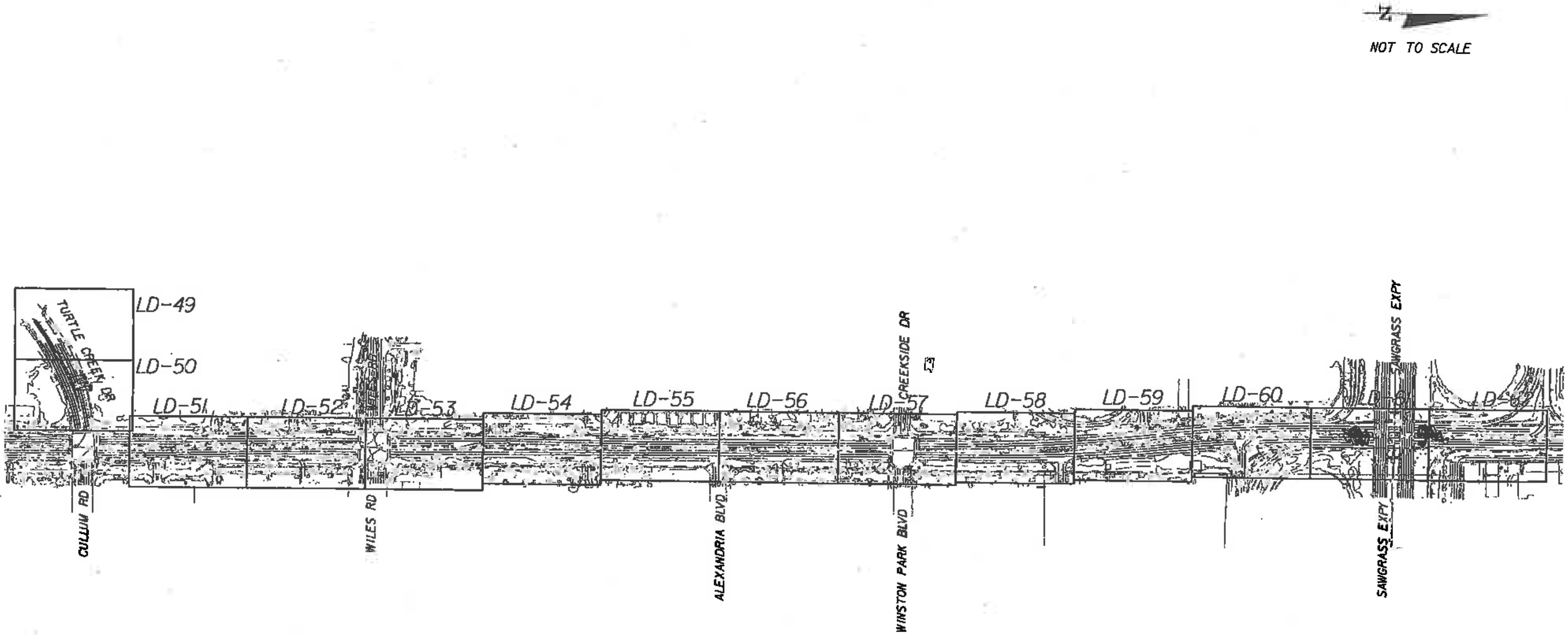


APR 17 2009

DATE	DESCRIPTION	DATE	DESCRIPTION

REVISIONS

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH, FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 1117
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

KEY SHEET
IRRIGATION KEY SHEET

SHEET NO.
LD-46

4/7/2009 mott1

SUMMARY OF PAY ITEMS

PAY ITEM	UNIT	DESCRIPTION
590-70	LS	COMPLETE IRRIGATION SYSTEM

PAY ITEM NOTES:

PAY ITEM NOTES:

590-70 Irrigation System, Complete
This pay item includes the cost of furnishing and installing all pipe, pipe fittings, glue, primer, teflon tape, pipe dope, equipment, back fill, gravel, bricks, wire and wire connectors, valves, pump, well, controller, rain sensor, sprinkler heads and fittings, valve, pedestal, electrical connections, conduits, wiring, repair of curb & gutter & concrete traffic separator, removal and replacement of existing sidewalk at all areas affected, and any other items necessary for the complete installation of a fully functional irrigation system as described in the irrigation plans, notes and details.

GENERAL NOTES:

NOTE 1: Quantities are approximate only and may vary due to field conditions contractor is responsible to verify exact quantities.

NOTE 2: The mainline, where shown on the plans, is for graphic clarity purposes only. Install only in pervious areas of median and shoulders except where clearing is indicated. In median install adjacent to the curb but with enough setback to avoid destabilizing it. In shoulders install adjacent to hardscape but with enough setback to avoid destabilizing it. See Irrigation TSP and details.

NOTE 3: Contractor to coordinate the City of Coral Springs irrigation system installation with the City of Coral Springs. Contact Louis Goldstein (954) 345-282.

Contractor to coordinate the City of Coconut Creek system installation with the City of Coconut Creek. Contact Pam Stanton at (954) 956-1463.

WELL NOTES:

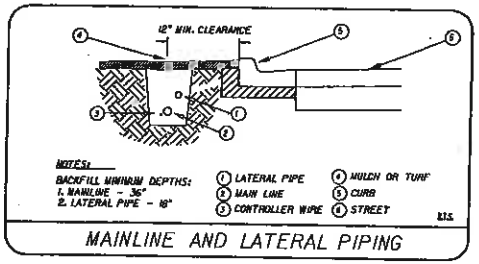
1. CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM 'PER FOOT' COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.

2. AFTER THE WELL IS DRILLED, A STEP TEST MUST BE PERFORMED ON THE WELL TO VERIFY THE WELL CAN PRODUCE THE REQUIRED VOLUME OF WATER (AS SPECIFIED) ON A CONTINUAL BASIS (8 HOURS/DAY). THE RESULTS OF THIS TEST MUST BE APPROVED BY THE OWNER/OWNERS REPRESENTATIVE PRIOR TO THE INSTALLATION OF THE PUMP OR IRRIGATION SYSTEM COMPONENTS. IF THE CONTRACTOR DOES NOT FOLLOW THESE REQUIREMENTS AND THE WELL PROVES TO BE INSUFFICIENT, THE CONTRACTOR BEARS 100% OF THE RESPONSIBILITY AND COSTS TO CORRECT/MODIFY THE SYSTEM TO ACCOMODATE THE EVENTUAL WATER SOURCE.

3. AFTER DRILLING THE WELL, CHECK THE WATER QUALITY TO ENSURE IT IS SUITABLE FOR LANDSCAPE PLANTINGS. USE THE SERVICES OF A REPUTABLE, LICENSED LABORATORY ONLY. IF THE WATER IS DETERMINED SUITABLE CONTINUE IRRIGATION INSTALLATION. IF THE WATER QUALITY IS UNSUITABLE, DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNER'S REPRESENTATIVE.

IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF STAINING IS A CONCERN, A CHEMICAL FEED PUMP SYSTEM SHOULD BE INSTALLED BY THE PUMP SYSTEM MANUFACTURER. CONTACT HOOVER PUMPING SYSTEMS.

4. STATIC SUCTION LIFT FOR THE PUMP STATION CAN NOT EXCEED 10'. IF THIS MAXIMUM IS EXCEEDED, DO NOT PROCEED WITHOUT WRITTEN PERMISSION FROM THE OWNER/OWNER'S REPRESENTATIVE.



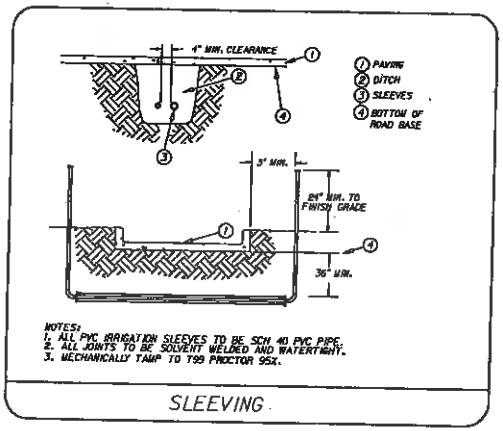
MAINLINE AND LATERAL PIPING

SUMMARY OF IRRIGATION QUANTITIES - CITY OF CORAL SPRINGS

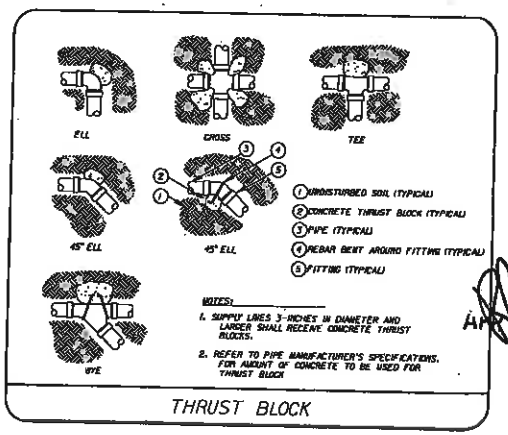
PAY ITEM NO.	SYMBOL KEY	DESCRIPTION	UNIT	QTY
590-70	1.5 | 10 / 4-A	VALVE SIZE GALLONS PER MINUTE (30 PSI CATALOG FLOW) STATION NUMBER AND POC/PUMP LETTER Examples: 1-D — STATION 1, SOURCE IS POC D 3A-F — STATION 3, VALVE A (THERE IS MORE THAN ONE VALVE ON THE STATION), SOURCE IS POC F	-	-
		PUMP STATIONS 'A' & 'B' - IRRIGATION CRAFT 7.5 HP PUMP STATIONS MODEL #HCSJA-7.5HPD-SRTCS-MC WITH RAINBIRD LXM CONTROLLER (PUMP 'A' HAS 8 STATIONS, PUMP STATION 'B' HAS 12 STATIONS), RAIN SENSORS, AND 6" GRAVEL PACKED WELLS	EA	2
		RAINBIRD PEB SERIES REMOTE CONTROL VALVE (SIZED PER PLAN) IN JUMBO RECTANGULAR VALVE BOX WITH BOLT DOWN LID	EA	16
	12F / 12F	RAINBIRD 1806 SAM-PRS SPRAY HEAD WITH MPR NOZZLE (NOZZLE AS INDICATED ON PLANS) NOZZLE RADIUS — UNLABELED HEADS ARE THE SAME NOZZLE PATTERN — RADIUS/PATTERN AS THE NEXT ADJACENT LABELED HEAD	EA	435
		SCH 40 PVC MAINLINE W/ SCH 80 SOLVENT WELD PVC FITTINGS (SIZED PER PLAN)	LF	1687
		3/4" TO 3" CLASS 200 PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS	LF	5447
		4-6" SCH 40 PVC SLEEVE (WHITE) AND 2" SCH 40 PVC SLEEVE (GRAY) AT EACH LOCATION (UNLESS OTHERWISE NOTED) BY CUT AND PATCH METHOD.	LF	48

SUMMARY OF IRRIGATION QUANTITIES - CITY OF COCONUT CREEK

PAY ITEM NO.	SYMBOL KEY	DESCRIPTION	UNIT	QTY
590-70	1.5 | AA / 16	VALVE SIZE GALLONS PER MINUTE (30 PSI CATALOG FLOW) STATION NUMBER AND POC/CONTROLLER LETTER Examples: 1-D — STATION 1, SOURCE IS POC D 3A-F — STATION 3, VALVE A (THERE IS MORE THAN ONE VALVE ON THE STATION), SOURCE IS POC F	-	-
		RAINBIRD PESB-PRS-D SERIES REMOTE CONTROL VALVE (SIZED PER PLAN) IN JUMBO RECTANGULAR VALVE BOX WITH BOLT DOWN LID	EA	3
	12F / 12F	RAINBIRD 1806 SAM-PRS SPRAY HEAD WITH MPR NOZZLE (NOZZLE AS INDICATED ON PLANS) NOZZLE RADIUS — UNLABELED HEADS ARE THE SAME NOZZLE PATTERN — RADIUS/PATTERN AS THE NEXT ADJACENT LABELED HEAD	EA	83
		3" CLASS 200 GASKETED PVC MAINLINE W/ SCH 40 GASKETED PVC FITTINGS	LF	880
		3/4" TO 3" CLASS 200 PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS	LF	1097
		4-6" SCH 40 PVC SLEEVE (WHITE) AND 2" SCH 40 PVC SLEEVE (GRAY) AT EACH LOCATION (UNLESS OTHERWISE NOTED) BY CUT AND PATCH METHOD.	LF	660



SLEEVING



THRUST BLOCK

APR 17 2009

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6591
ROBERT BENTZ LA#6666937
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

TABULATION OF QUANTITIES & IRRIGATION DETAILS

SHEET NO. LD-47

unit]

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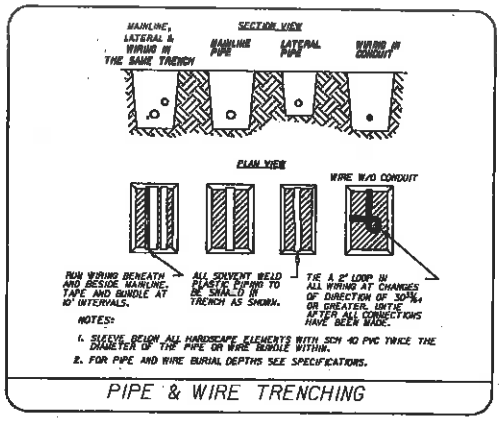
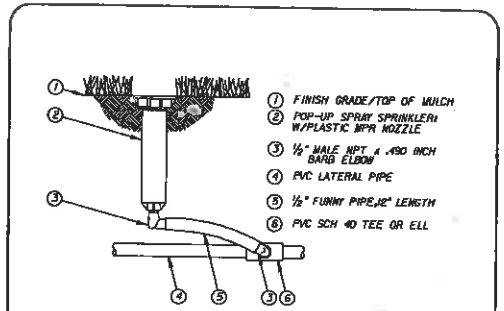
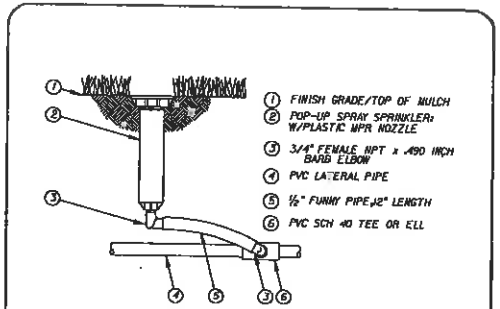


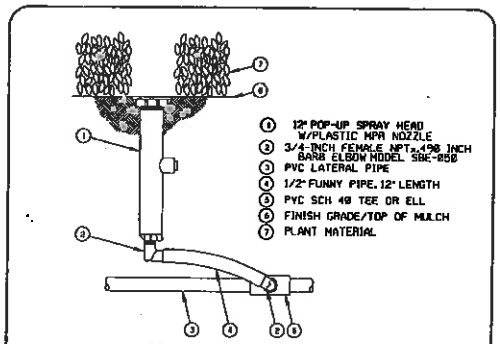
PIPE & WIRE TRENCHING



6" POP-UP SPRAY HEAD-COCONUT CREEK



6" POP-UP SPRAY HEAD- CORAL SPRINGS



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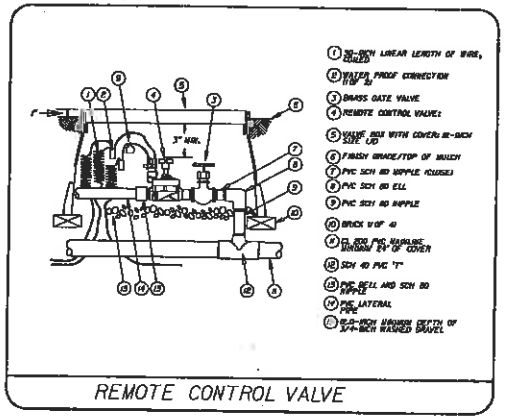
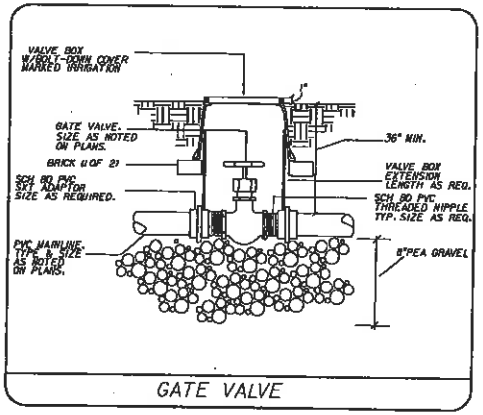


REMOTE CONTROL VALVE



GATE VALVE

APR 17 2008

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2191 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8511
ROBERT BENTZ LA#6667917
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION DETAILS

SHEET NO. LD-48

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Irrigation Pump Station Specification

SR7 Coral Springs • Stations A & B

Broward County, Florida

Tuesday, April 14, 2009

I. Manufacturer and Model
The pump stations for this project shall be manufactured by Irrigation Craft (Ft. Lauderdale, Florida 954-771-9353), model numbers ICSCM-7.5VPD-SR7CSA-MC & ICSCM-7.5VPD-SR7CSB-MC. The pump stations shall be Listed under two Underwriters Laboratories sections as follows:
A. UL 29/64 508A - Enclosed Industrial Control Panel • File Number E208950.
B. UL 29/64 QCZJ - Packaged Pumping System • File Number E143693.

II. General Description
This document describes a skid mounted pumping system including pumps, electrical controls, pipe manifolds, valves, and accessories. The pump station shall be manufactured in a workman like manner with due consideration given to safe operation, convenience of use, maintenance, and future repairs. All intended features shall work properly and reliably. All materials exposed to the weather shall be corrosion resistant and shall not be harmed by spraying water. All components mountings shall be sturdy and solid with sufficient clearance to safely access, operate, and repair without significant disassembly of other components. The station shall be manufactured, tested, then shipped to the site.

III. Components

A. Electrical and Controls

1. ELECTRICAL REQUIREMENTS: The pump station shall be designed to accept Single Phase site power, convert to Three Phase Via the Variable Frequency Drive and utilize Three Phase Submersible Motors. The full load presented to the electrical service shall not exceed 27 amperes @ 230 volt.
2. ELECTRICAL ENCLOSURE: The electrical control enclosure shall be fiberglass, NEMA 4X, with stainless steel hardware, all penetrations made in the panel maintain the NEMA 4X rating.
3. FUSELESS: All circuit protection shall consist of properly sized circuit breakers. There shall be no fuses in the pump station.
4. DISCONNECT SHORT CIRCUIT/GROUND FAULT PROTECTION: The control enclosure shall incorporate a door interlock disconnect preventing the enclosure door from being opened unless the power is first turned off. This disconnect shall be a molded case circuit breaker with a minimum AIR rating of 18,000 amps @ 480 volts AC. If a major short circuit or ground fault occurs in the pump station this disconnect shall open all three power feed circuits to the pump station. After the fault is cleared, the circuit breaker will be reset by first moving the door handle to the OFF position, then back to the ON position. Fuses shall not be used.
5. VARIBLE FREQUENCY DRIVE (VFD) and Phase Conversion: A 15 Horsepower VFD shall be installed and utilized to convert Single Phase 230 volt site power for use with 7.5 Horsepower 3 phase motors. The pump shall be controlled via the Variable Frequency Drive and shall operate at variable speeds supplying system flow and pressure demands. The pump shall start in response to a pressure drop in the irrigation mainline (Pressure Demand). The VFD enclosure and environment shall be maintained as recommended by the manufacturer.
6. PRESSURE DEMAND: The pumps shall be started and retired as required to match the system requirements.
7. OVERLOAD: The pump motor shall be protected against overload by the VFD.
8. SHORT CIRCUIT: The pump motor is protected against SHORT CIRCUIT by a molded case circuit breaker.
9. FLOW SAFETIES: The VFD shall protect the pump against Over/Under Voltage, Motor Over-Current, Short Circuit, Ground Fault, Motor Overheat and No or Low Flow conditions.
10. HAND / OFF / AUTO (HOA) SWITCH PER PUMP: This switch provides HAND, OFF, and AUTO functions as follows:
HAND: HAND position shall manually start the pump.
OFF: OFF position shall prevent the pump from operating.
AUTO: AUTO position shall place the pump in automatic start mode, the pump shall start automatically as required.
11. LOW VOLTAGE CONTROLS, LED LAMPS: All flow and pressure sensors inside and outside the control panel, all pilot lights, and all door mounted hardware shall be powered with less than 30 volts. All pilot lamps shall be mounted on the control panel door exterior and shall use LED lamps rated for 100,000 hours of continuous operation. Incandescent lamps shall not be used.
12. LINE REACTOR: The VFD shall be protected by a properly sized line reactor as recommended by the manufacturer.
13. PRESSURE TRANSDUCER: A 300psi / 17-4ph, stainless steel, 57/64 #npt connection pressure transducer shall be provided. The transducer shall have an operating temperature range of 13• to 185• F. The transducer shall operate on 7vdc to 35vdc supply voltage and provide a 4ma to 20ma output with an accuracy of .5% of full scale.
14. VOLUTE HEAT SENSOR: The heat sensor body is made of one piece brass, incorporates a bimetal non-adjustable thermostat set at 100 F, with 5% accuracy, inserted directly into the pump volute and interfaced with the VFD.

B. Aluminum Skid and Enclosure
Pump station equipment shall be securely mounted on a welded aluminum skid, and enclosed with 59/64 • Thick, Black, Starlight XL, with Grain Finish. Hinged Doors shall provide convenient access to equipment. All doors shall be locked with built in aluminum lock mechanisms. All mounting hardware shall be stainless steel and aluminum with vandal resistant fasteners. The station shall be vented with a squirrel cage fan when the pump is operating.

C. Pump and Motor
The pump shall be a Concentric Flow Diffused Turbine, Cast Iron Bowls, Bronze Impellers, as provided by Irrigation Craft, with the following performance points (no VFI or manifold loss deductions): 0gpm @ 200 Feet of Head, 25gpm @ 188 Feet of Head, 50gpm @ 173 Feet of Head, and 75gpm @ 141 Feet of Head. The pump will be driven by a Three Phase 7.5 horsepower water cooled motor. The pump shall not use the motor service factor at any point on the pump curve.

D. Irrigation Controller(s)
The irrigation controller(s) shall be Rain Bird ESPLXM Modular. Station A shall be fitted with an 8 zone controller, Station B shall be fitted with a 12 zone controller. The controller(s) shall be mounted on a welded, angled support for ease of use. The controller shall be hardwired to the field with #15 stranded wires, numbered and color coded, contained in a UL• listed, UF direct burial jacket. This direct burial cable shall continue just outside the station into a splice box. Field wiring connections shall be made utilizing approved waterproof connections inside this splice box. The rain sensor shall be a Hunter Mini-Clik mounted at eight feet on a galvanized pole and securely fastened to the pump station enclosure(s).

E. Optional Flow Meter
The optional flow meter shall be a Sea Metrics model TX101B Insertion Turbine operated by SeaMetrics model FT420 Flow Computer. The meter shall digitally indicate flow rate, total flow via LCD (liquid crystal display) and shall provide flow information to the pump controller.

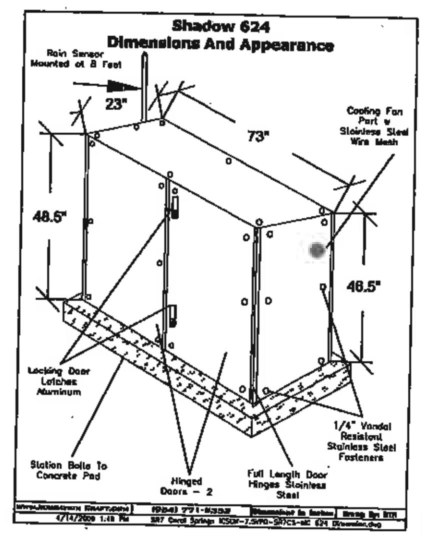
F. Pipe Manifolds
All pipe manifolds shall be constructed of Schedule 40 hot dip galvanized steel, with roll grooved and mechanical fittings. Mechanical joints shall be rigid and include EDPM gaskets specifically designed for vacuum service. The station isolation valve shall be a mechanical butterfly valve.

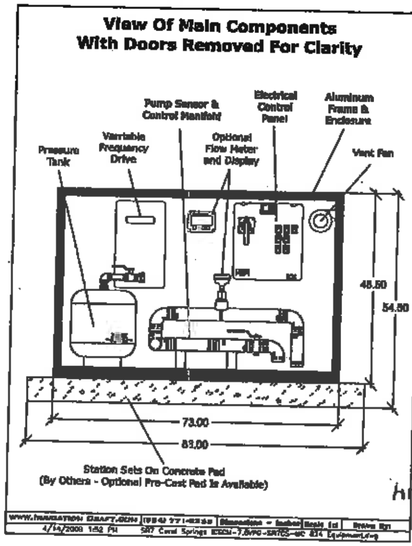
G. Pressure Tank
NSF Approved, ASME 29/64 Code Vessel, 150psi Rating, Captive Air Type, 14-Gallon Capacity, Vinyl Lined.

H. Delivery, Concrete Pad, and Installation
The station manufacturer shall deliver the pump control station with and bolted to a pre-cast concrete pad. The manufacturer shall supply the submersible pump/motor assembled and spliced to 80 feet of jacketed submersible cable, a 6• x 3• fabricated well seal and roll groove galvanized piping to below grade. The station manufacturer shall set the submersible pump/motor in the well of up to 80 feet using 3• Certa-Lok piping and connect the submersible pump discharge from the well to the pump control module input. All exposed piping shall be Roll Groove, Schedule 40 galvanized to below grade. The irrigation contractor shall connect the pump control module discharge to the irrigation mainline. The well driller shall provide a 6• well. The well shall be sand free and properly developed to continuously provide 125% of the specified flow rate with a maximum dynamic drawdown of 30 feet below grade. The site electrician shall install electrical service to the pump control module and from the pump control module to the submersible pump/motor.

I. Start-Up, Site Training, and Operation Manual
Irrigation Craft shall return to the project when the station is completely installed to start and calibrate the pump station. At the owner's request Irrigation Craft shall also return to the site one time to provide on site training to the owner's representative. Irrigation Craft shall provide an operating manual specifically written for the station and will provide on site training for the maintenance personnel. The operation manual shall have the name of the project, the manufacturer's serial number, and the date of delivery on the front cover of the manual.

J. Warrantee
Irrigation Craft warrantees all products to be free of defects for a period of thirteen (13) months from the date of shipment leaving Irrigation Craft facilities. This warrantee covers both labor and materials to replace or correct defective materials except those defects caused by failure to maintain the equipment, vandalism, abuse, and natural disasters including, but not limited to: lightning, high winds, flooding, and hurricane. This warrantee applies to the original purchaser and to the final owner of the equipment. This warrantee excludes all consequential damages arising from use of Irrigation Craft products or services. No other warrantees apply, express or implied.





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PUMP STATIONS
NOTES AND DETAILS

SHEET NO.
LD-49

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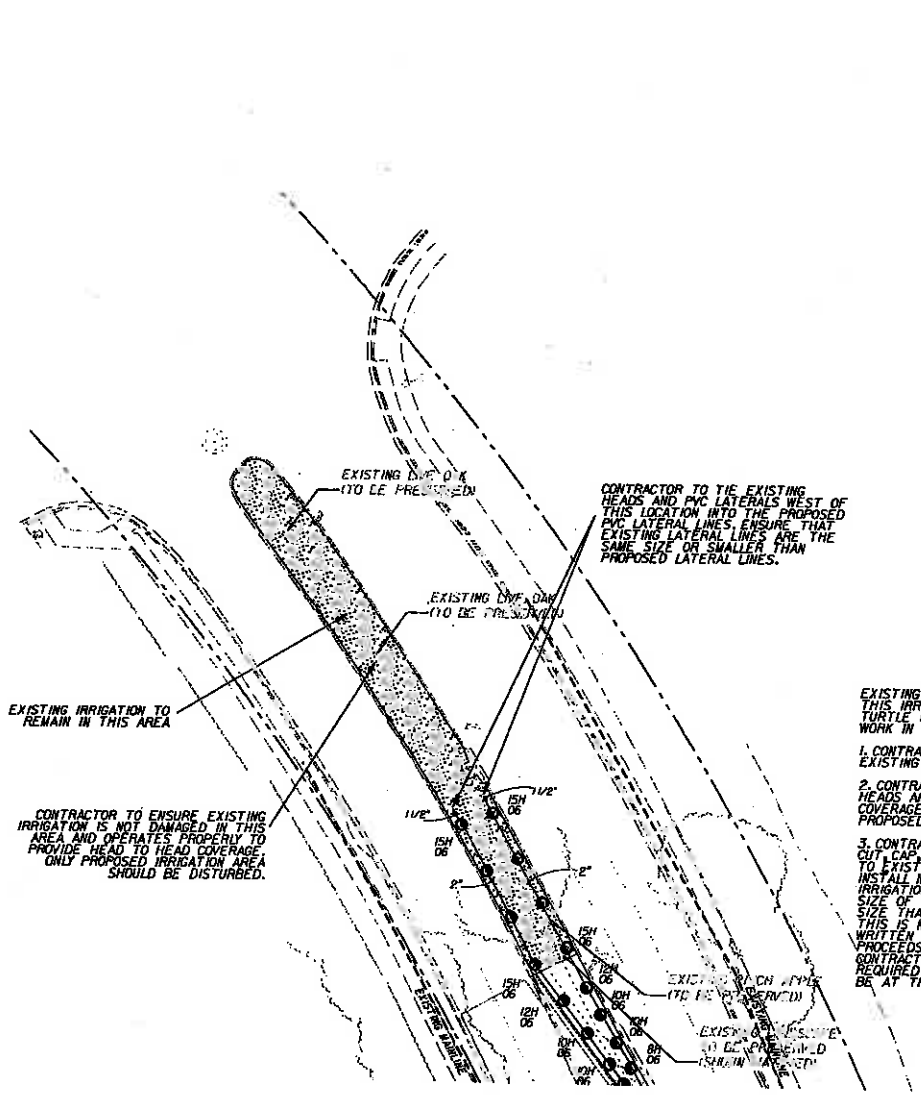

EXISTING IRRIGATION REQUIREMENTS:
THIS IRRIGATION IS PART OF AN IRRIGATION SYSTEM OWNED BY TURTLE RUN. COORDINATE WITH THE OWNER FOR THE IRRIGATION WORK IN THIS MEDIAN.

1. CONTRACTOR TO CUT AND CAP ONLY THOSE PORTIONS OF THE EXISTING IRRIGATION NO LONGER NEEDED DUE TO NEW IRRIGATION.

2. CONTRACTOR TO ADD, ADJUST, MOVE, CHANGE, ETC. SPRINKLER HEADS AND NOZZLES AS REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE WITH A D.U. OF .7 OR GREATER IN AREAS WHERE PROPOSED AND EXISTING IRRIGATION MEET.

3. CONTRACTOR TO FIELD LOCATE EXISTING IRRIGATION, AS REQUIRED. CUT, CAP, AND MARK PRIOR TO SITE DEMOLITION TO PREVENT DAMAGE TO EXISTING IRRIGATION. ONCE NEW HARDSCAPES ARE COMPLETED, INSTALL NEW IRRIGATION AND CONNECT MAINLINES FROM NEW IRRIGATION TO THE EXISTING IRRIGATION LINES, AS INDICATED. THE SIZE OF THE PROPOSED MAINLINE MUST BE EQUAL TO OR LARGER IN SIZE THAN THE EXISTING MAINLINE IT IS TO BE CONNECTED TO. IF THIS IS NOT WHAT IS FOUND, DO NOT PROCEED WITHOUT RECEIVING WRITTEN AUTHORIZATION TO PROCEED. IF THE CONTRACTOR PROCEEDS WITHOUT PRIOR WRITTEN AUTHORIZATION, IT IS AT THE CONTRACTORS RISK. ANY AND ALL COSTS INCURRED, THAT ARE REQUIRED TO PROVIDE A FULLY FUNCTIONAL IRRIGATION SYSTEM, WILL BE AT THE CONTRACTORS EXPENSE.

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APR 17 2009

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-50

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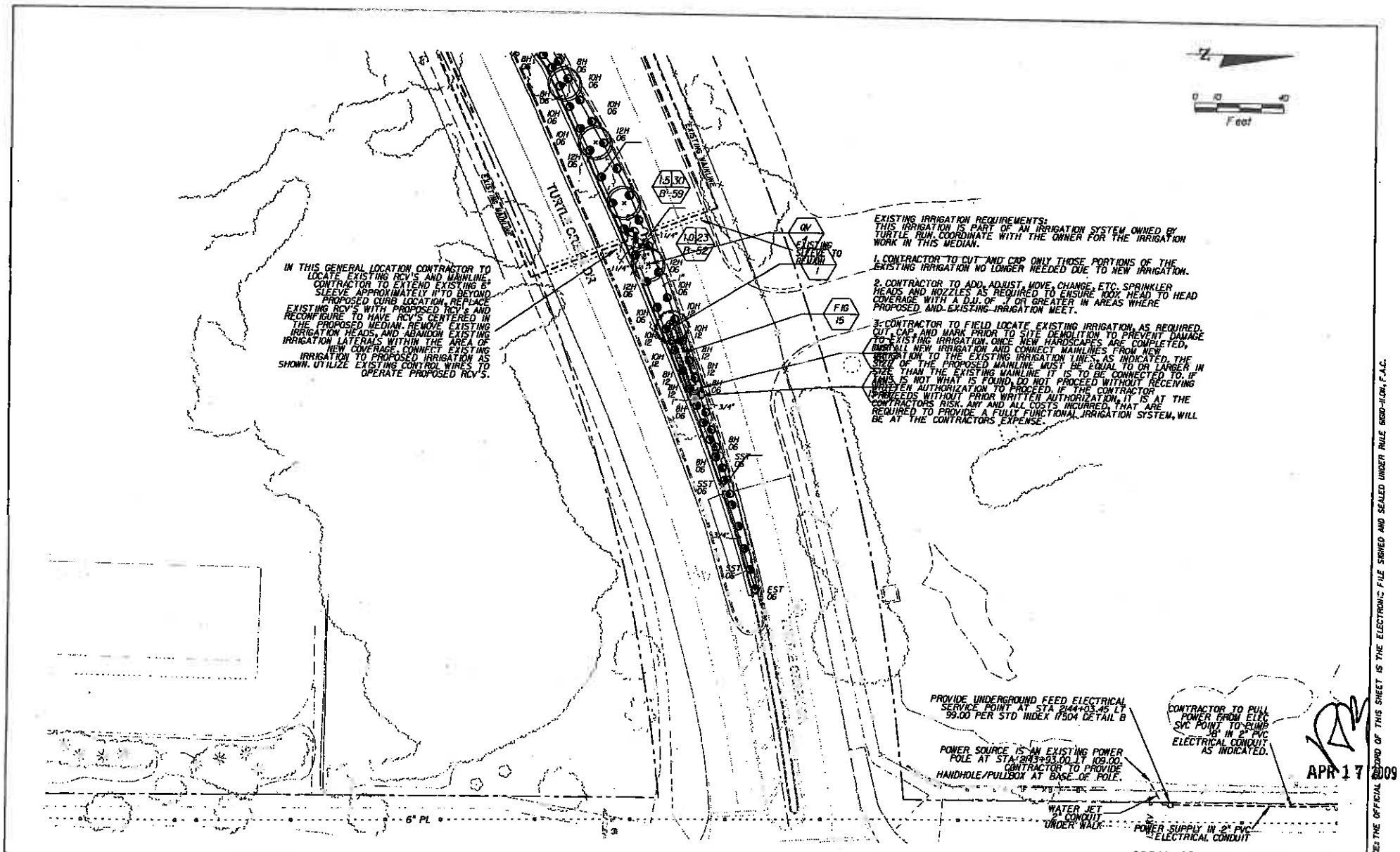

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2181 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-6101
ROBERT BENTZ LARES # 667
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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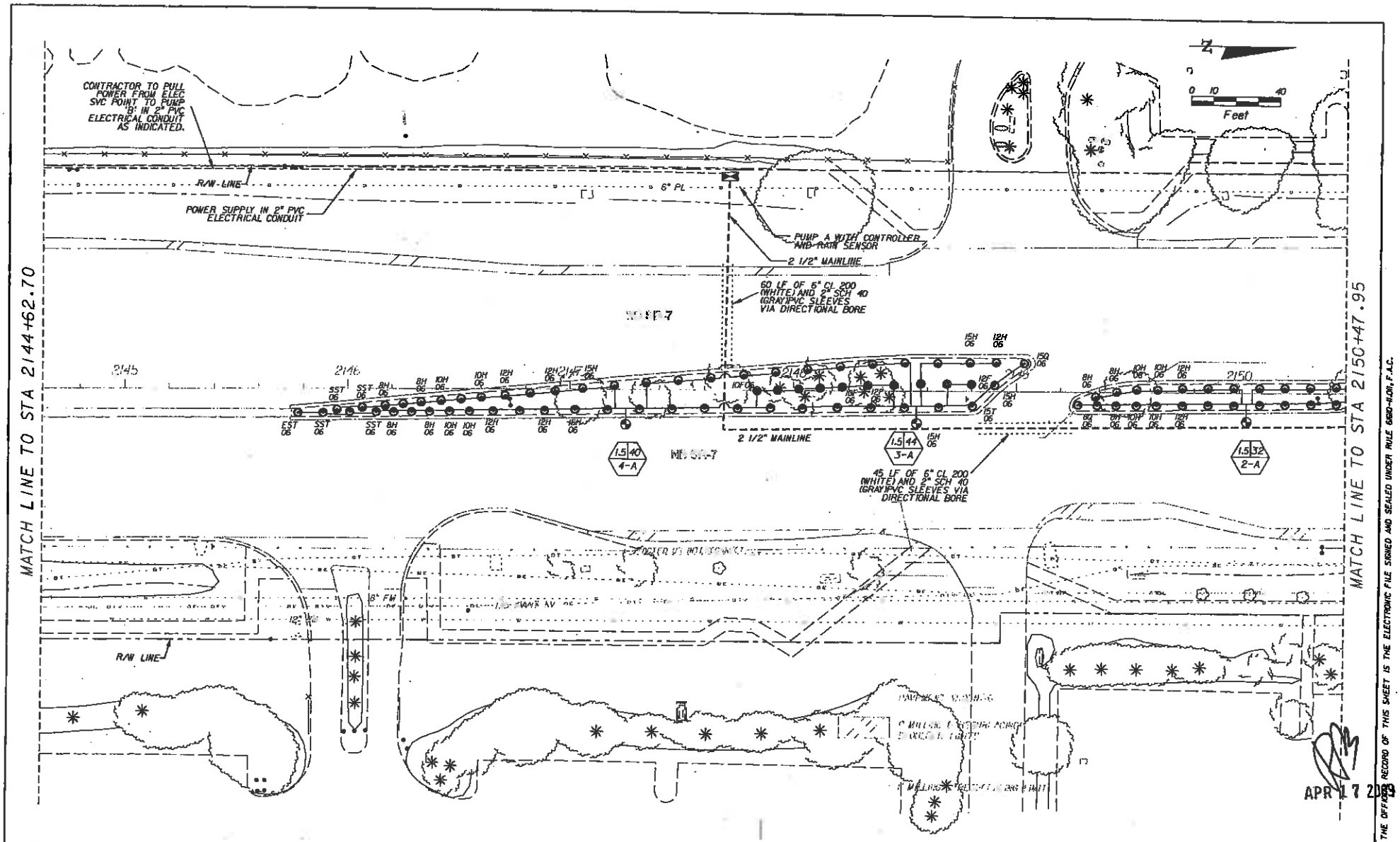

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG #6637
CERTIFICATE OF AUTHORIZATION NO: 000205

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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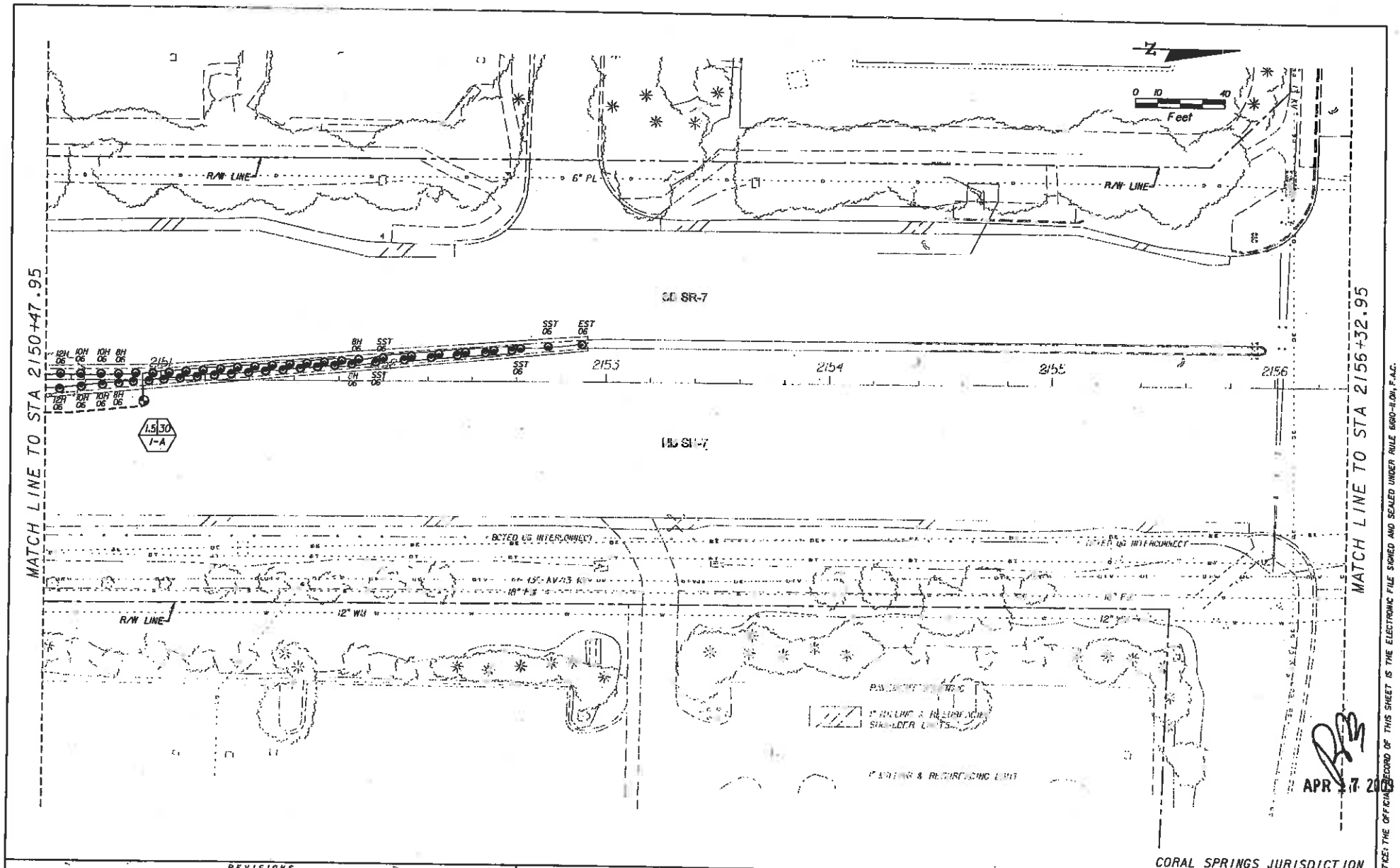

CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8591
ROBERT BENTZ LA REG # 987
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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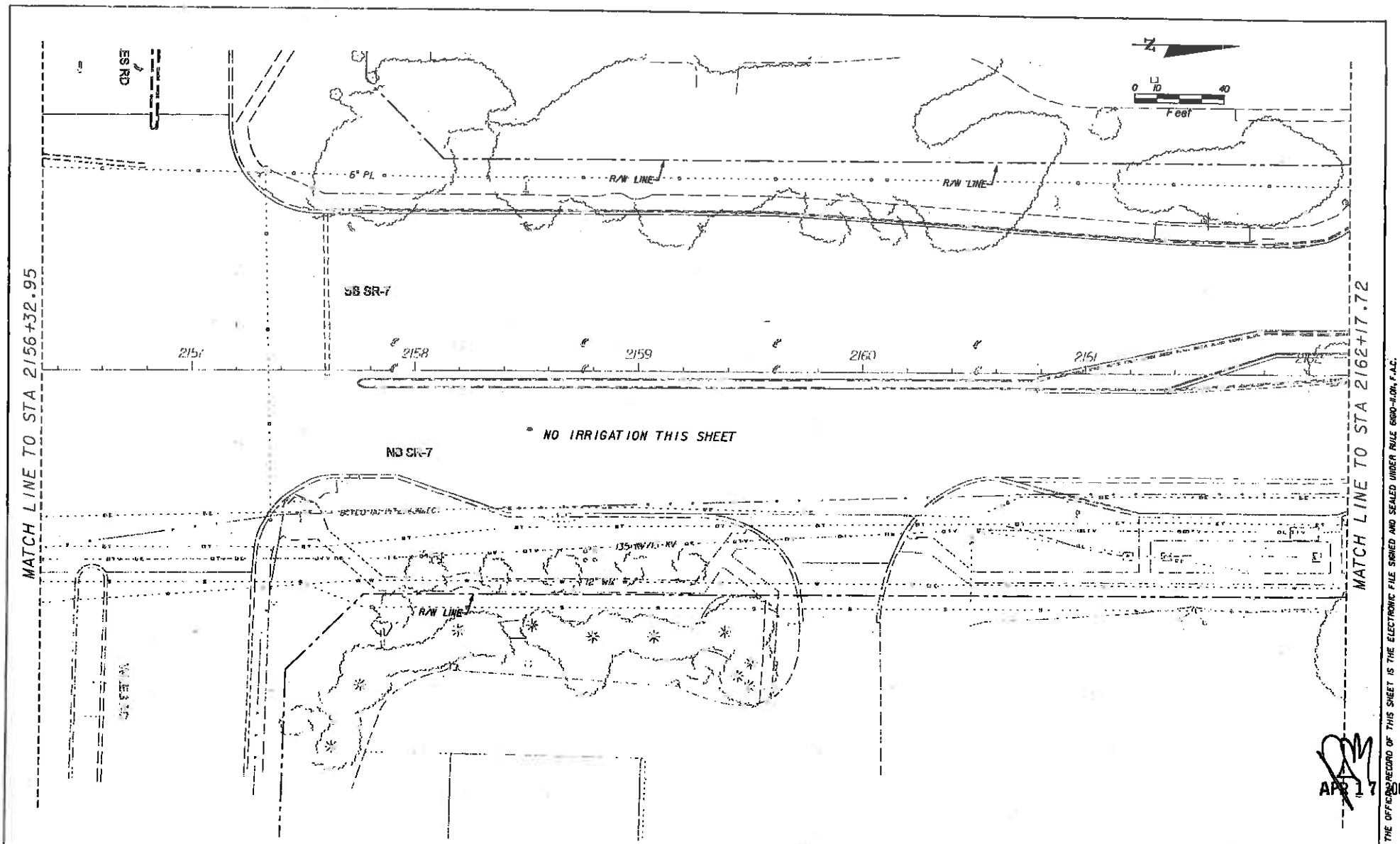

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CORAL SPRINGS JURISDICTION

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-5501
ROBERT BENTZ LA REG # 0007
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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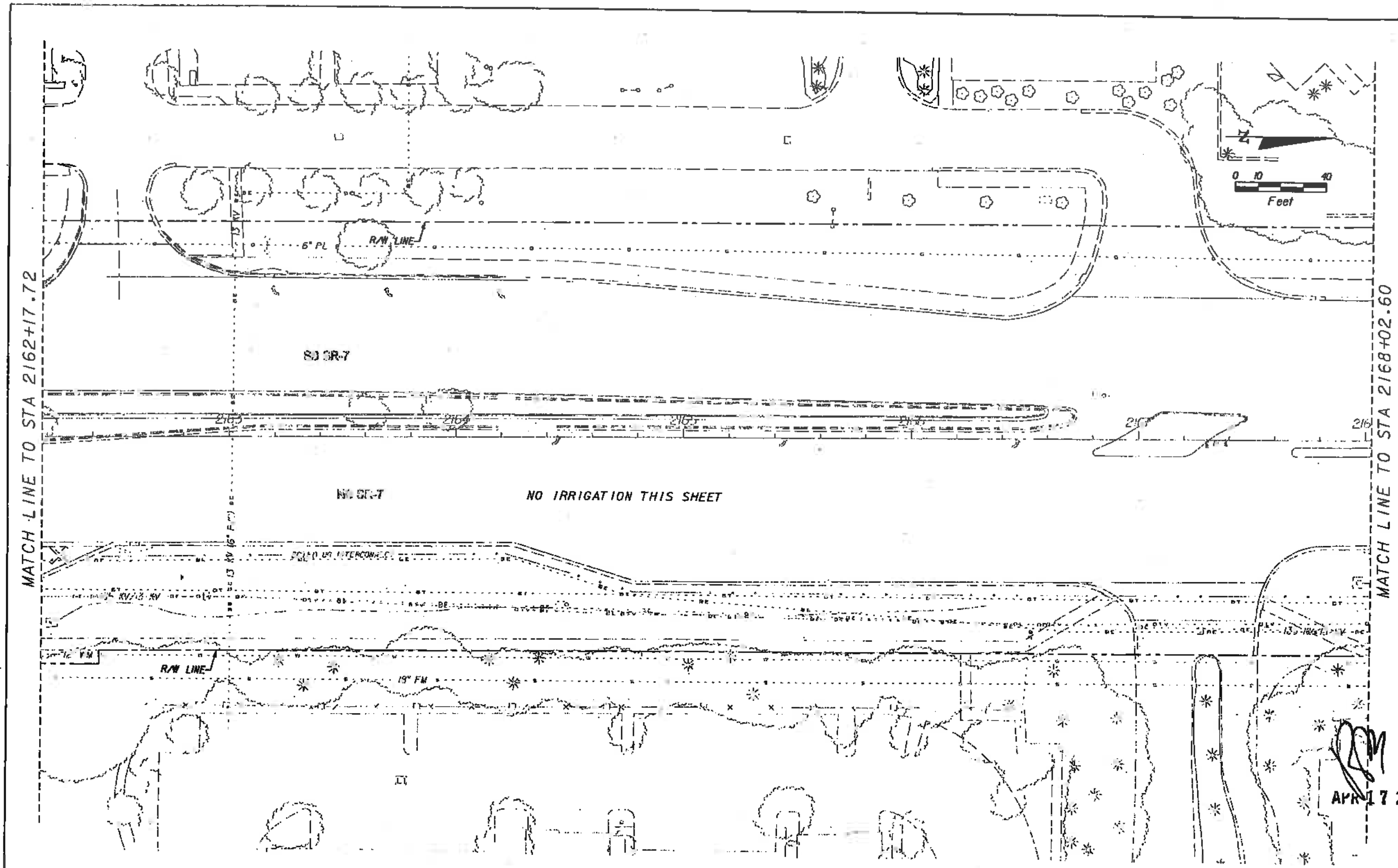

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA RED 0 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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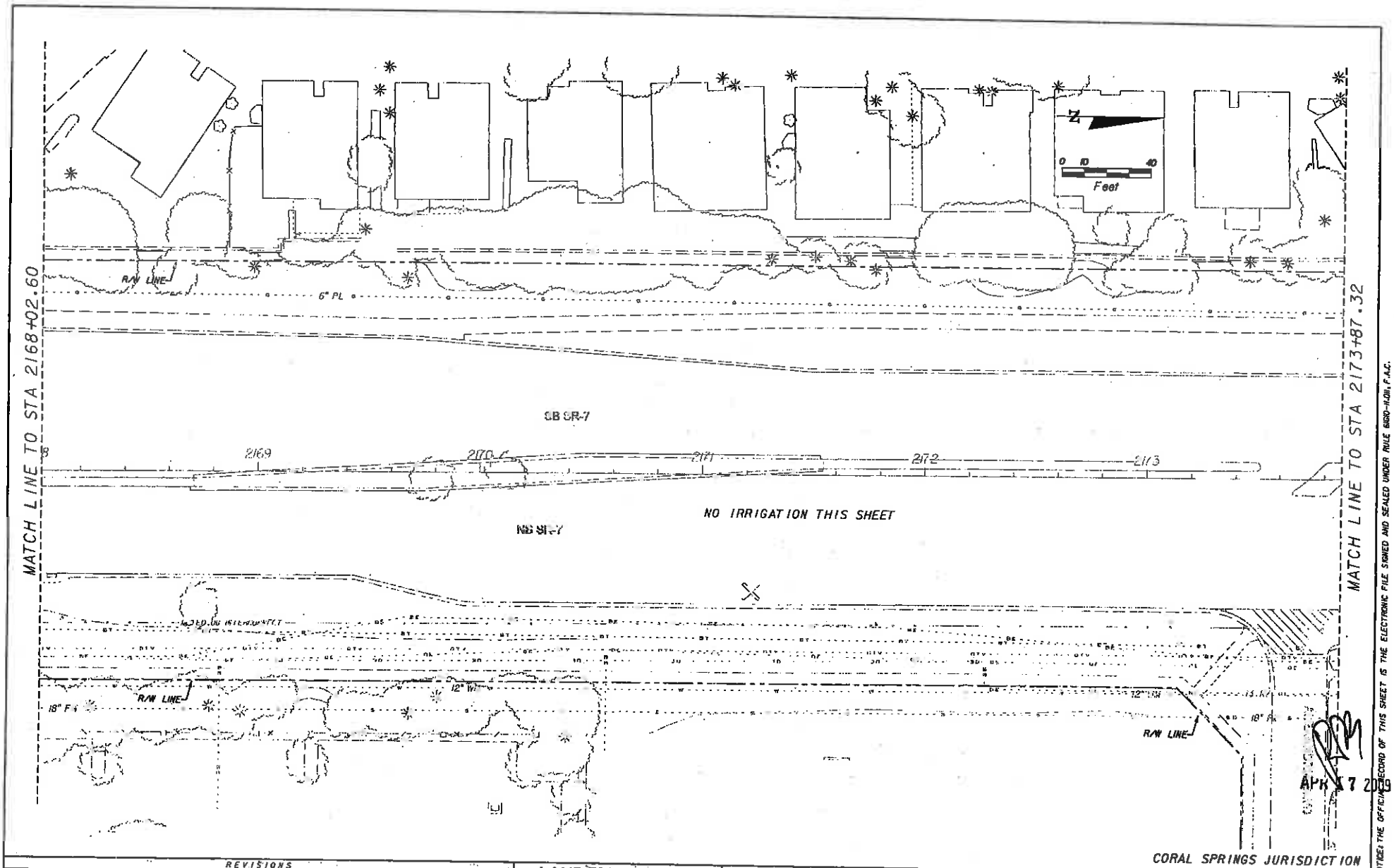

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-5591
ROBERT BENTZ LA REG # 667
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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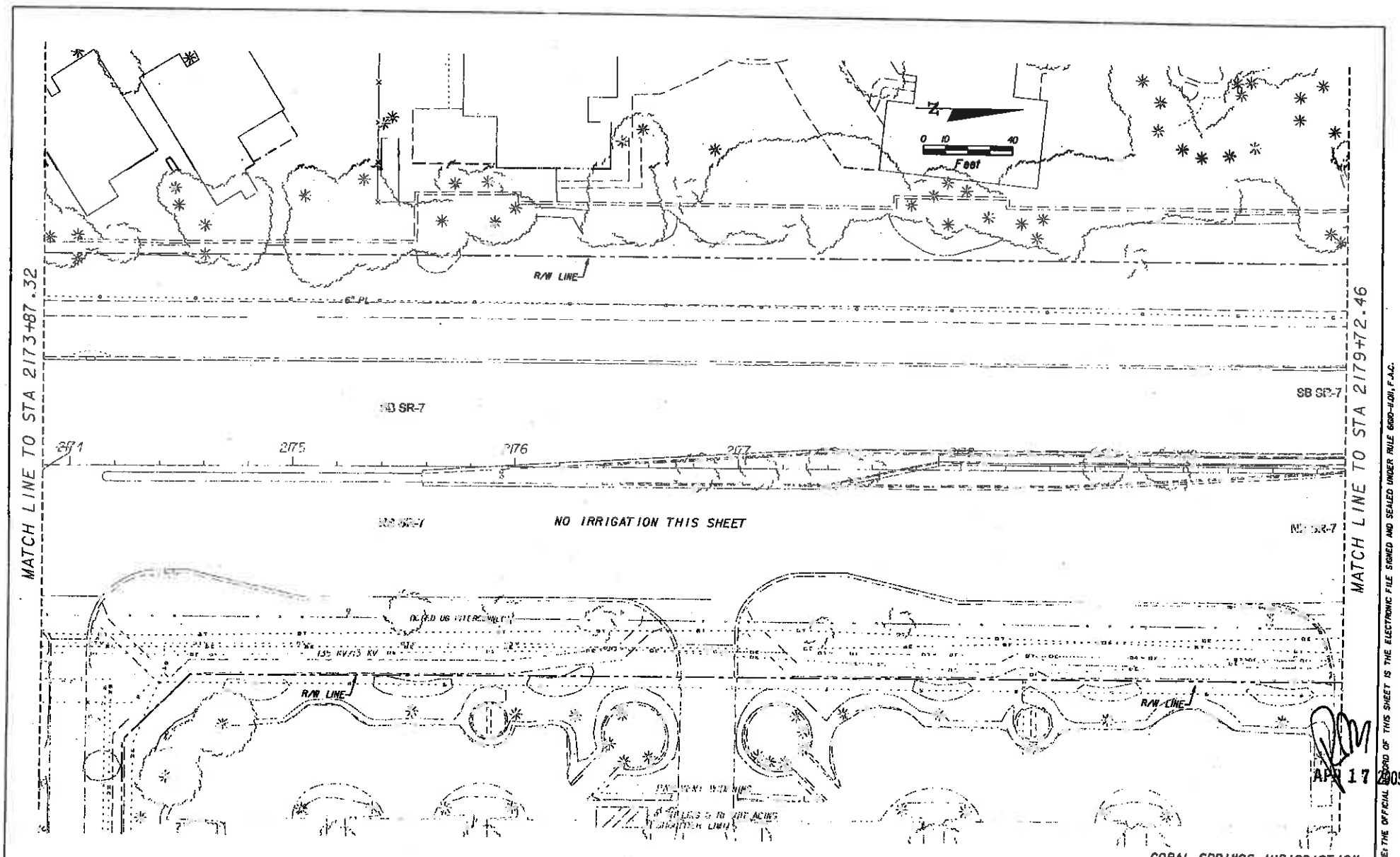

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2161 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561) 478-8601
ROBERT BERTZ LA REG # 907
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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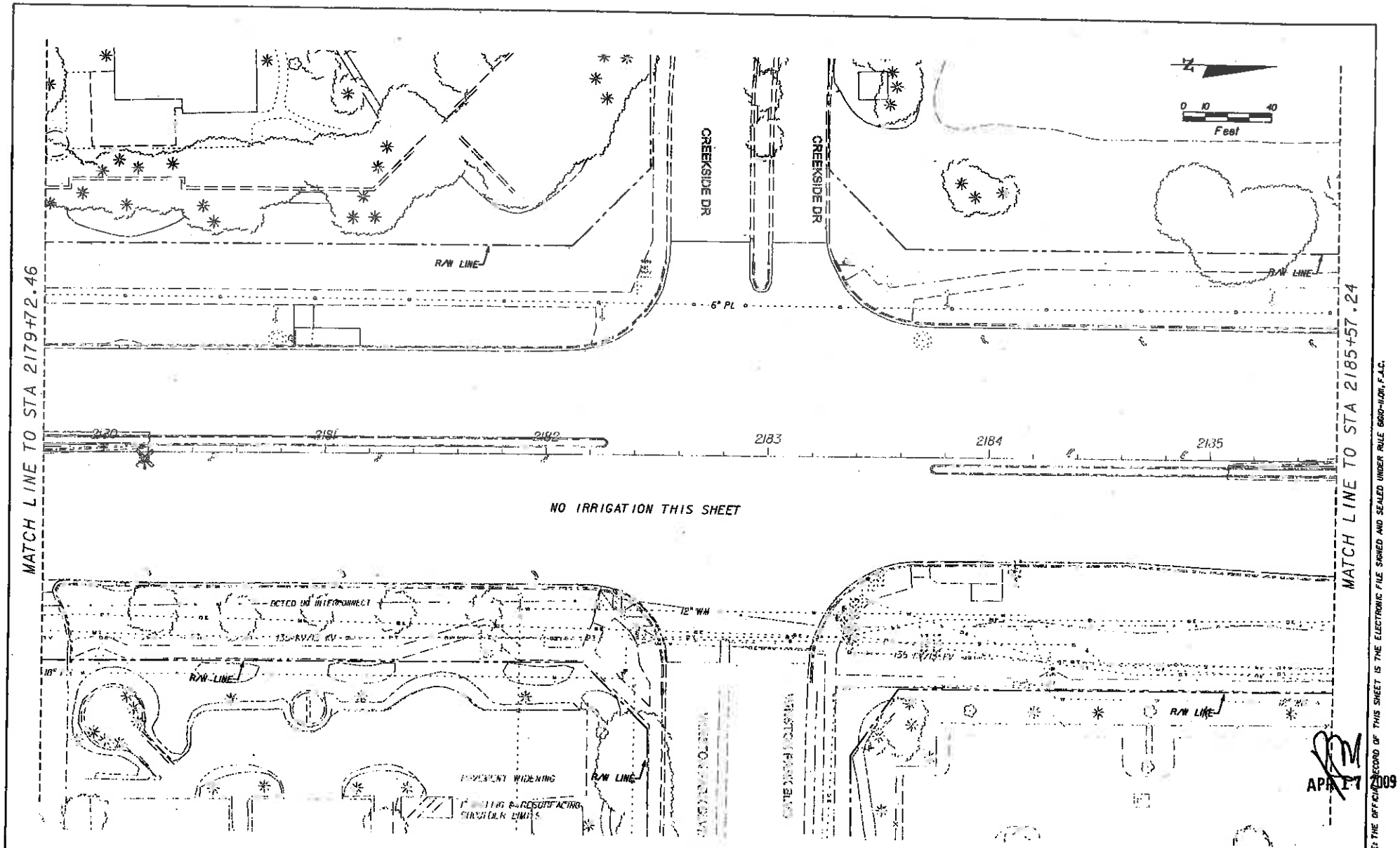

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DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR.
SUITE 100
WEST PALM BEACH FL
33409
(561)478-5301
ROBERT BENTZ LA REG #997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

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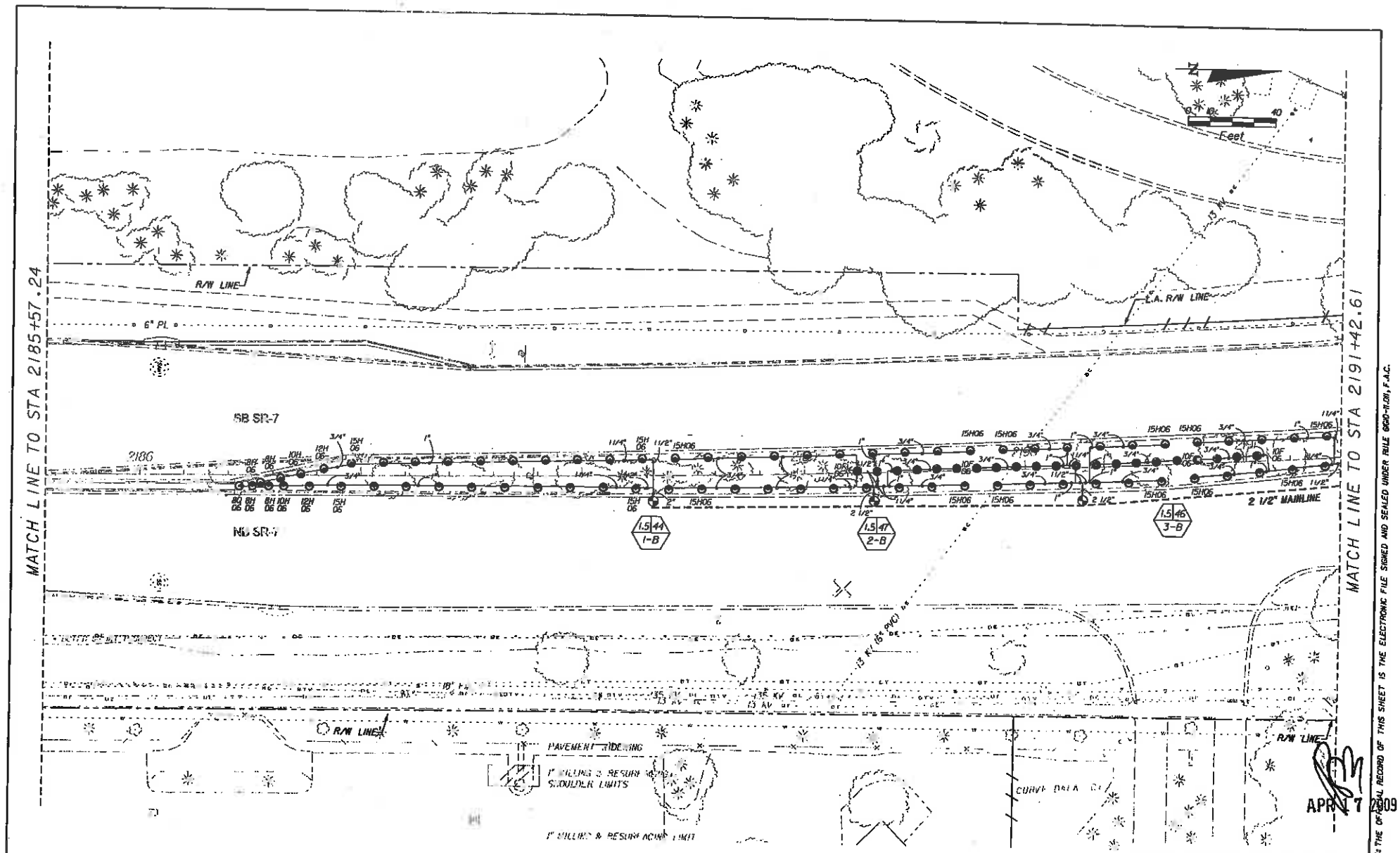

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8004
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-59

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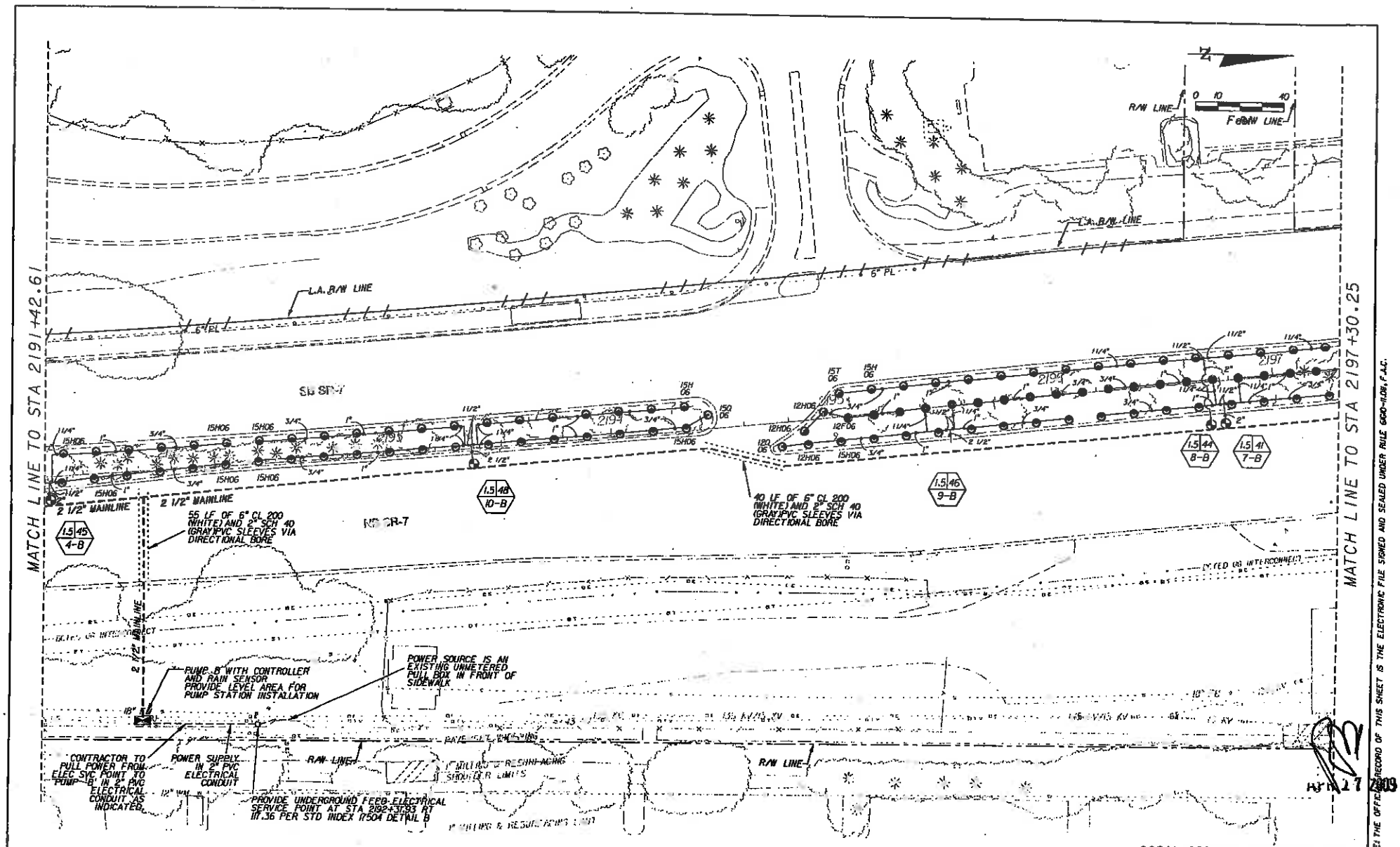

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 110 WEST PALM BEACH FL 33409 (561) 478-6601
ROBERT BENTZ LARES #907
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-60

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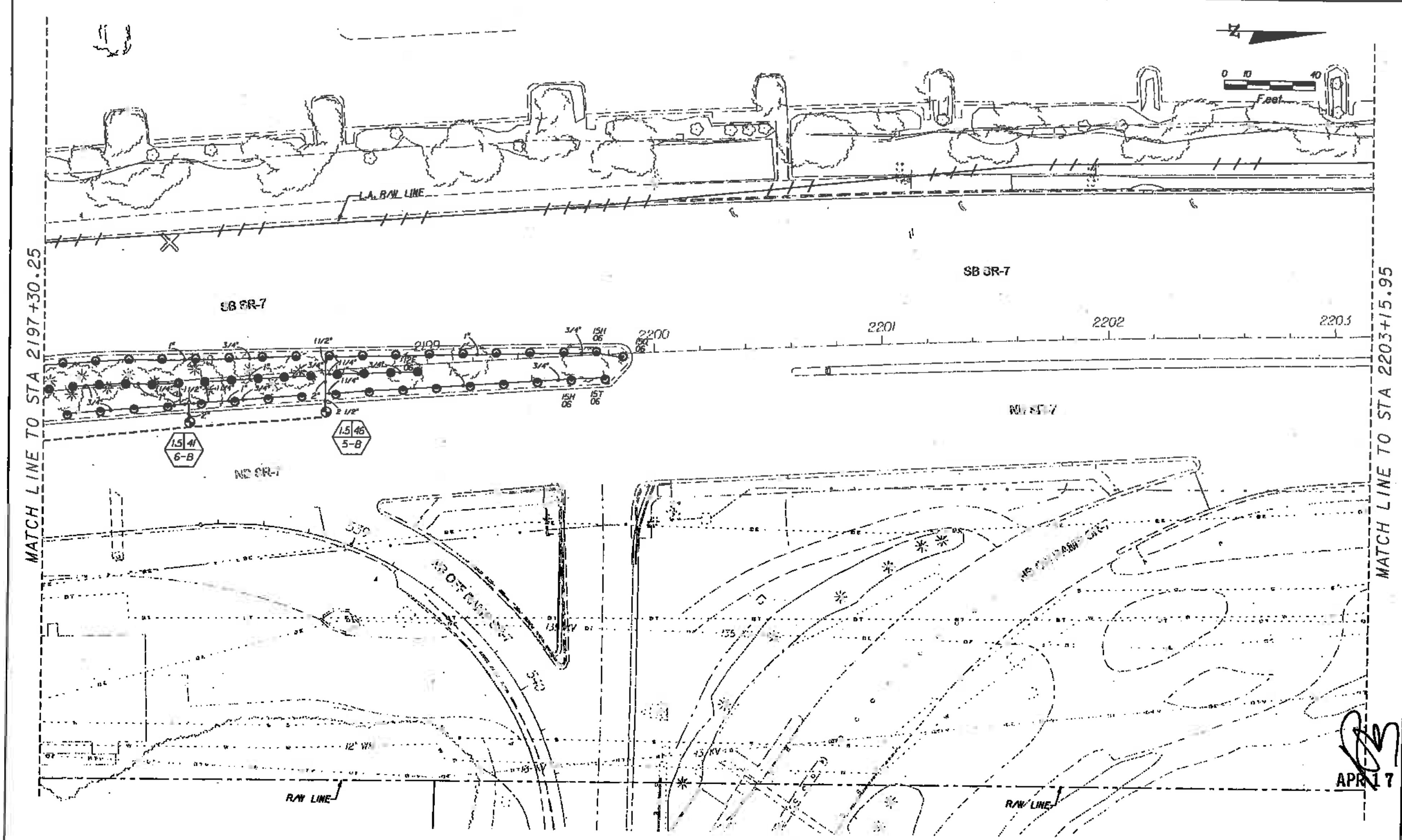

CORAL SPRINGS JURISDICTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-61

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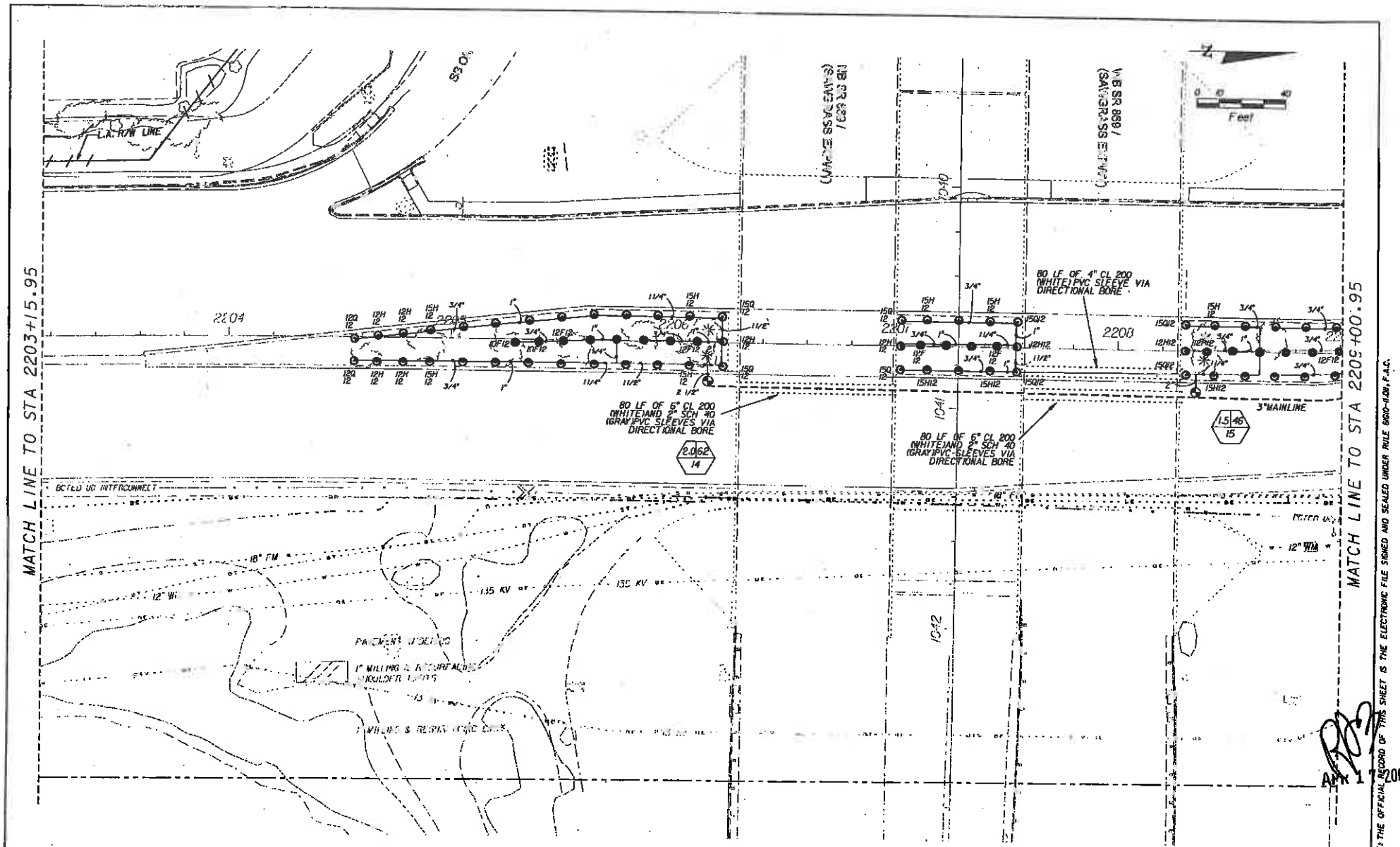

COCONUT CREEK JURISDICTION

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APR 17 2009

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-62

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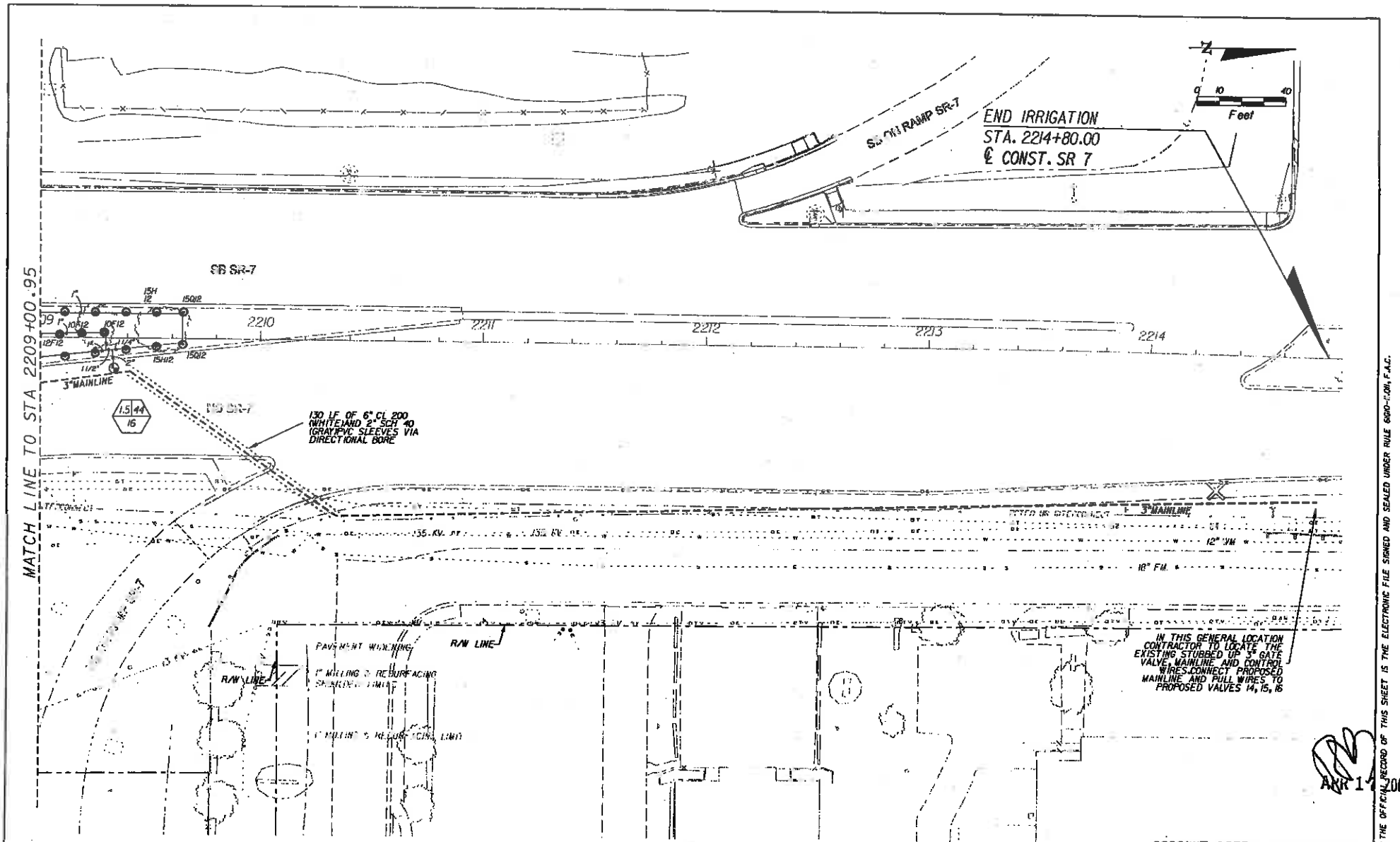

COCONUT CREEK JURISDICTION

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LAND DESIGN SOUTH
2101 CENTREPARK WEST DR. SUITE 100 WEST PALM BEACH FL 33409 (561) 478-8501
ROBERT BENTZ LA REG # 997
CERTIFICATE OF AUTHORIZATION NO: 000206

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
7	BROWARD	421662-1-52-01

IRRIGATION PLAN

SHEET NO. LD-63

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SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

EXHIBIT C

MAINTENANCE PLAN

This Exhibit forms an integral part of the DISTRICT FOUR (4) Amendment to the HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

Dated: 4-17-2009

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s):	**SR 7 (US 441)**
Project Limits:	**SR 832 (Sample Rd.) to North of SR 869 (Sawgrass Expressway)**
FM No(s):	**421662-1-52-01**
Maintaining Agency:	**Coconut Creek**
RLA of Record:	**Robert Bentz**
Date:	**4-17-2009**

I. General Maintenance Requirements and Recommendations:

The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: *FDOT Design Standards, FDOT Plans Preparation Manual Vol. I, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction* as amended by contract documents; and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section is recommendations prepared by the Landscape Architect of Record specific to the attached approved plans.

Watering Requirements:

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

Irrigation System:

The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the

Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

Integrated Plant Management:

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Establishment of an integrated plant management program is encouraged to ensure healthy plants, which are free of disease and pests.

Mulching:

Mulch planting beds in such a manner as to: prevent weed growth; retain moisture to the plants; protect against soil erosion and nutrient loss; maintain a more uniform soil temperature; and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area that aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

Pruning:

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute ANSI A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, and to specific pruning heights maintaining clear visibility for motorists, and vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions and all trees and palms (with particular attention to fronds and fruit) maintained to prevent potential roadway and pedestrian hazards. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants should be noted on the planting plans. (See Specific Requirements and Recommendations per Approved Landscape & Irrigation Design for these guidelines). The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) of the medians are to be maintained at a height in compliance with FDOT Design Standards Index 546, Page 6 of 6, Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards.

Staking and Guying:

All staking materials, except for replacements, are removed by the completion of FDOT warranty period or at one year (whichever comes first). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Design Standards* guidelines (See Index 544). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

Turf Mowing:

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf

efforts: mowing, curb/sidewalk edging, and turf condition must meet *FDOT Maintenance Rating Program* (MRP).

Litter Control:
The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

Weeding/Herbicide:
All planting areas shall be maintained as weed free as practicable enlisting integrated pest management practices in areas specified on the plans and by maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant materials. Any damage resulting from overspray is the applicator's responsibility to restore the plantings to the approved plans.

Plant Replacement:
Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumers Services, Grades and Standards for Nursery Plants* are 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.

Hardscape (Specialty Surfacing):
All specialty pavers and tree grates shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Section 23 14 13 Interlocking Concrete Pavers*, Part 3.05. If the pavers or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

Hardscape (Non-Standard Travelway Surfacing):
It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement, caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right-of-way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the *FDOT Standard Specifications for Road and Bridge Construction*, and the *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System.*

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair, replace of the sign panel, post, and base.

Hardscape (Landscape Accent Lighting)
Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan.

Maintenance of Traffic Control
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

Vegetation Management at Outdoor Advertising (ODA)
To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Website: FDOT Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/Default.aspx

Also, reference the Florida Highway Beautification Program website link for Vegetation Management at ODA signs for the Florida Statutes and Administrative Codes related to Vegetation Management at Outdoor Advertising Signs and Permit Applications for Vegetation Management and Outdoor Advertising Signs determining Mitigation Value of Roadside Vegetation.

Website: FDOT Environmental Management office for Landscape Architects
http://www.dot.state.fl.us/emo/beauty/FLA.shtm

II. Specific Project Site Maintenance Requirements and Recommendations:
The design intent for the Coconut Creek portion of the design was to match the project to the north. There is a portion of the irrigation system that is tied into the project to the north and utilizes their water supply. There should be careful measures taken so that this system doesn't impact the system in place to the north. The hardscape design was also created to match the

REFERENCES

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

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://www.treespecialists.com/pdfs/pruningstandards.pdf

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/08/544.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/08/546.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/08/700.pdf

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I 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/2008/Volume1/zChap02.pdf

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

Florida Department of Transportation, *Maintenance Rating Program Handbook*
http://ombnet.dot.state.fl.us/procedures/bin/850065002.pdf

Florida Department of Transportation, Landscape Architecture Website
http://www.dot.state.fl.us/emo/beauty/beauty.shtm

Interlocking Concrete Pavement Institute (ICPI)
http://www.icpi.org/ http://www.fisstate.org

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

Accessible Sidewalk Videos (ADA)
http://www.access-board.gov/news/sidewalk-videos.htm

SECTION NO: 86100
S.R. NO(S): 7 (US 441)
COUNTY: Broward
FM NO.(S): 421662-1-52-01

EXHIBIT D

PROJECT COST

This Exhibit forms an integral part of the DISTRICT FOUR (4) Amendment to the HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

Dated: 4/17/2009

I. APPROXIMATE PROJECT COST: $ 88,019.50

SR 7 from Sample to Sawgrass-FPID 421662-1-52-01-Coconut Creek Jurisdiction					
Cost Estimate for Landscape Pay Items					
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Trees and Palms					
Roystonea elata-Royal Palm	RO	8	$750.00	$6,000.00	B&B, 10' GW
Trees and Palms Landscape Material Total-				$6,000.00	
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Shrubs					
Bougainvillea 'Sanderiana'	BSS	300	$9.00	$2,700.00	24" x 24", 24" oc.
Jasminum volublie-Wax Jasmine	JAS	300	$9.00	$2,700.00	12" x 12", 18" oc.
Trachelospermum asiaticum-Dwarf Conferdate Jasmine	TRA	1000	$4.00	$4,000.00	12" x 12", 18" oc.
Zamia maritima-Cardboard Palm	ZAM	250	$25.00	$6,250.00	24" x 24", 36" oc.
Shrubs Landscape Material Total-				$15,650.00	
	Symbol	Quantity	Unit Cost	Total Cost	Specification
Groundcovers					
Performance Sod	SOD	145	$0.09	$13.05	St. Augustine Grass
Shrubs Landscape Material Total-				$13.05	
Concrete Pavers		385	$106.62	$41,048.70	
Complete Irrigation System				$25,307.75	1 median tapping into northern system (pump/well)
GRAND TOTAL COST				$88,019.50	
Notes:					
1. This is a Conceptual Cost Estimate. Price reflects current plant prices, availability and specifications.					