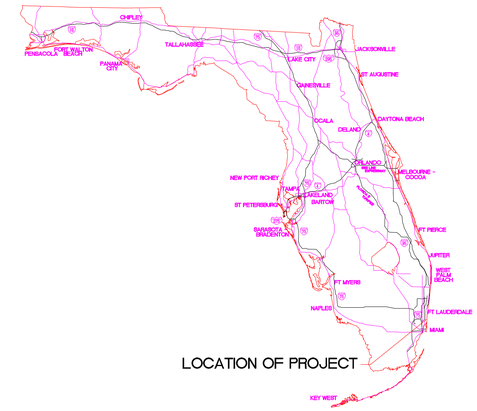
CITY OF MIAMI SPRINGS

ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

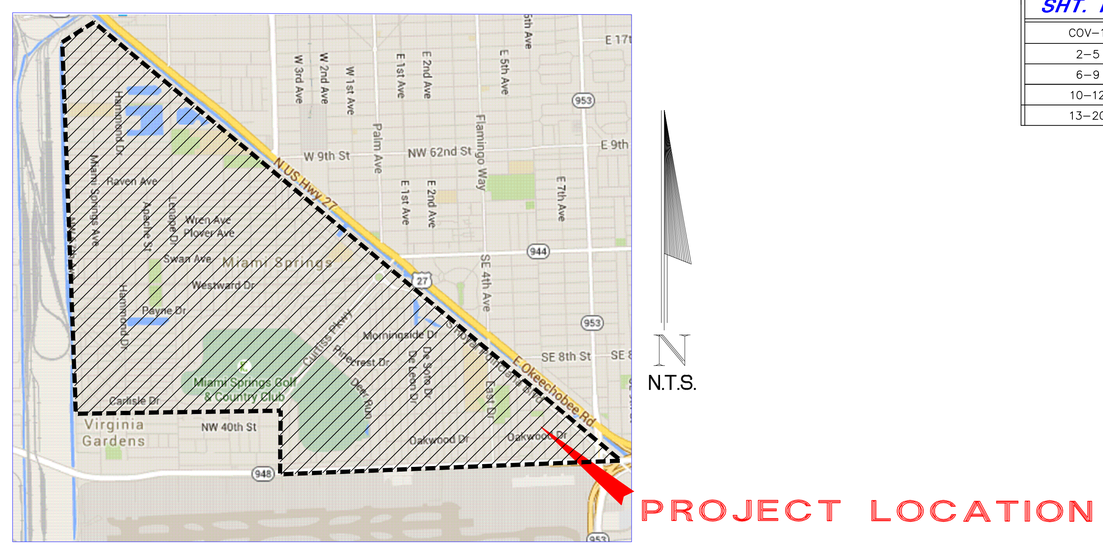


LOCATION OF PROJECT

SHEET INDEX	
SHT. NO.	DESCRIPTION
COV–1	COVER SHEET
2–5	EXISTING RAMPS
6–9	PROPOSED RAMPS
10–12	RAMP AND SIDEWALK DETAILS
13–20	A–TYPICAL INTERSECTIONS

MAYOR: ZAVIER M. GARCIA

CITY MANAGER: RON GARLAND



LOCATION MAP

SECTIONS 18, 13, AND 24, TOWNSHIP 53 SOUTH, RANGE 40 AND 41 EAST

REVISIONS			
NO.	DATE	BY	DESCRIPTION

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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739–6409 TEL.: (954) 739–6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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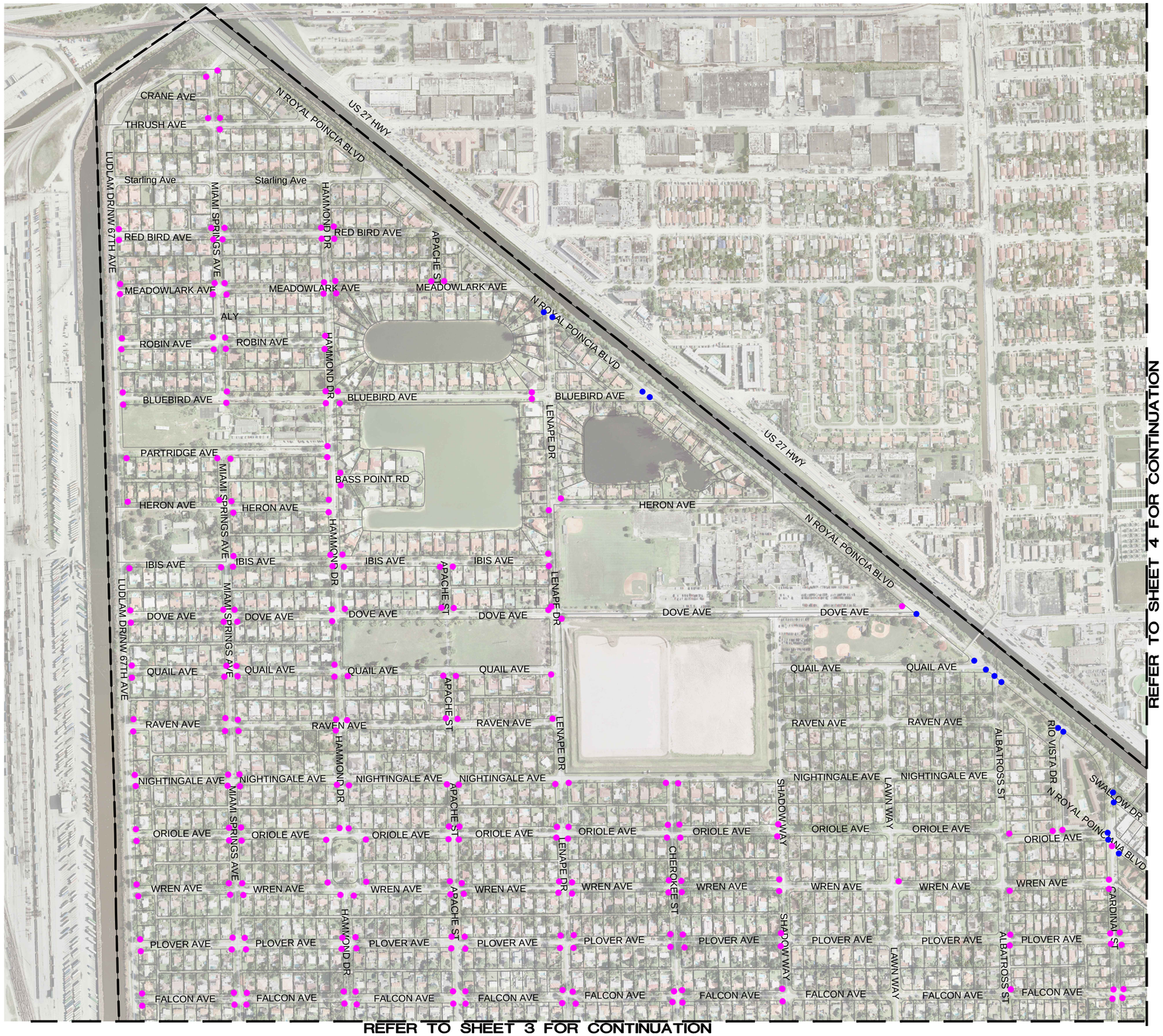
C.T.A. PROJECT NO. 15-0041-001-01
March 9, 2016

SHEET No.
COV–1



REFER TO SHEET 4 FOR CONTINUATION

REFER TO SHEET 3 FOR CONTINUATION

LEGEND:

- MISSING RAMP/ BROKEN RAMP (240)
- RAMP WITH DEFICIENT SLOPE AND WIDTH (0)
- MISSING TRUNCATED DOME (16)

0 350' 700'

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

EXISTING RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 2 OF 20

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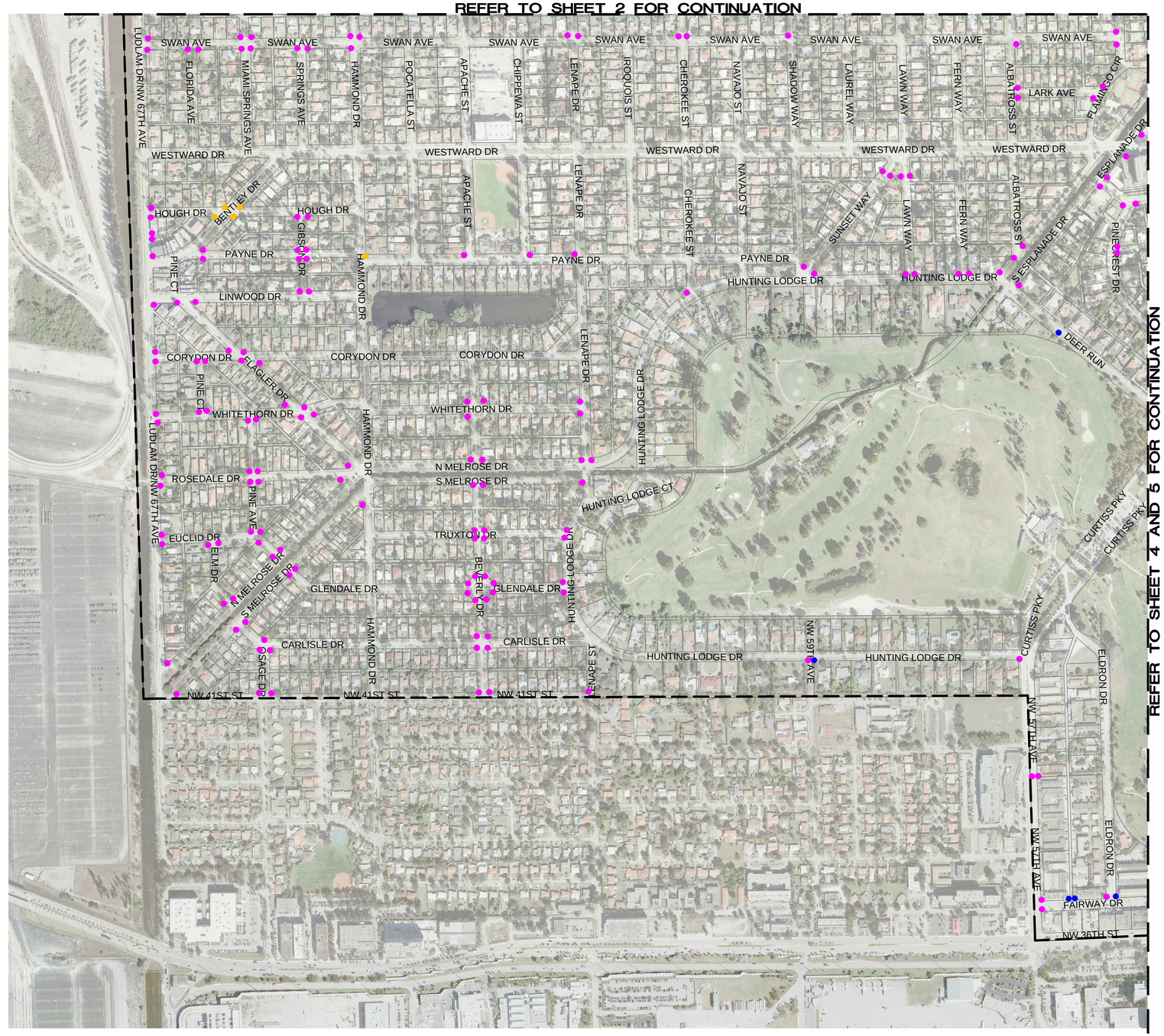

LEGEND:

- MISSING RAMP/ BROKEN RAMP (160)
- RAMP WITH DEFICIENT SLOPE AND WIDTH (9)
- MISSING TRUNCATED DOME (5)

0 350' 700'

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
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APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

EXISTING RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 3 OF 20

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LEGEND:

- MISSING RAMP/ BROKEN RAMP (135)
- RAMP WITH DEFICIENT SLOPE AND WIDTH (19)
- MISSING TRUNCATED DOME (64)

0 350' 700'

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BY:	DATE:	DESCRIPTION:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

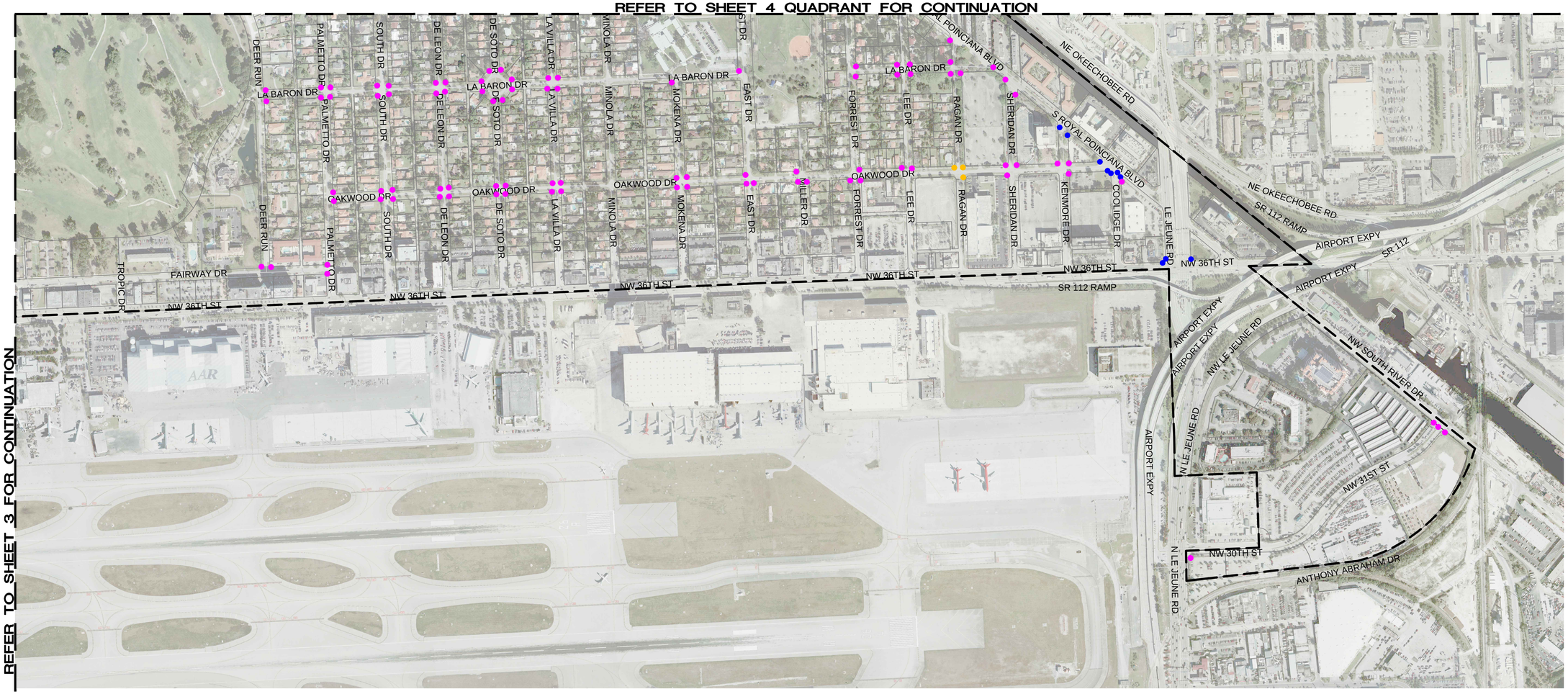
EXISTING RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 4 OF 20

REFER TO SHEET 4 QUADRANT FOR CONTINUATION



REFER TO SHEET 3 FOR CONTINUATION

0 350' 700'

LEGEND:

- MISSING RAMP/ BROKEN RAMP (89)
- RAMP WITH DEFICIENT SLOPE AND WIDTH (3)
- MISSING TRUNCATED DOME (10)

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

BY:	DATE:	DESCRIPTION:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

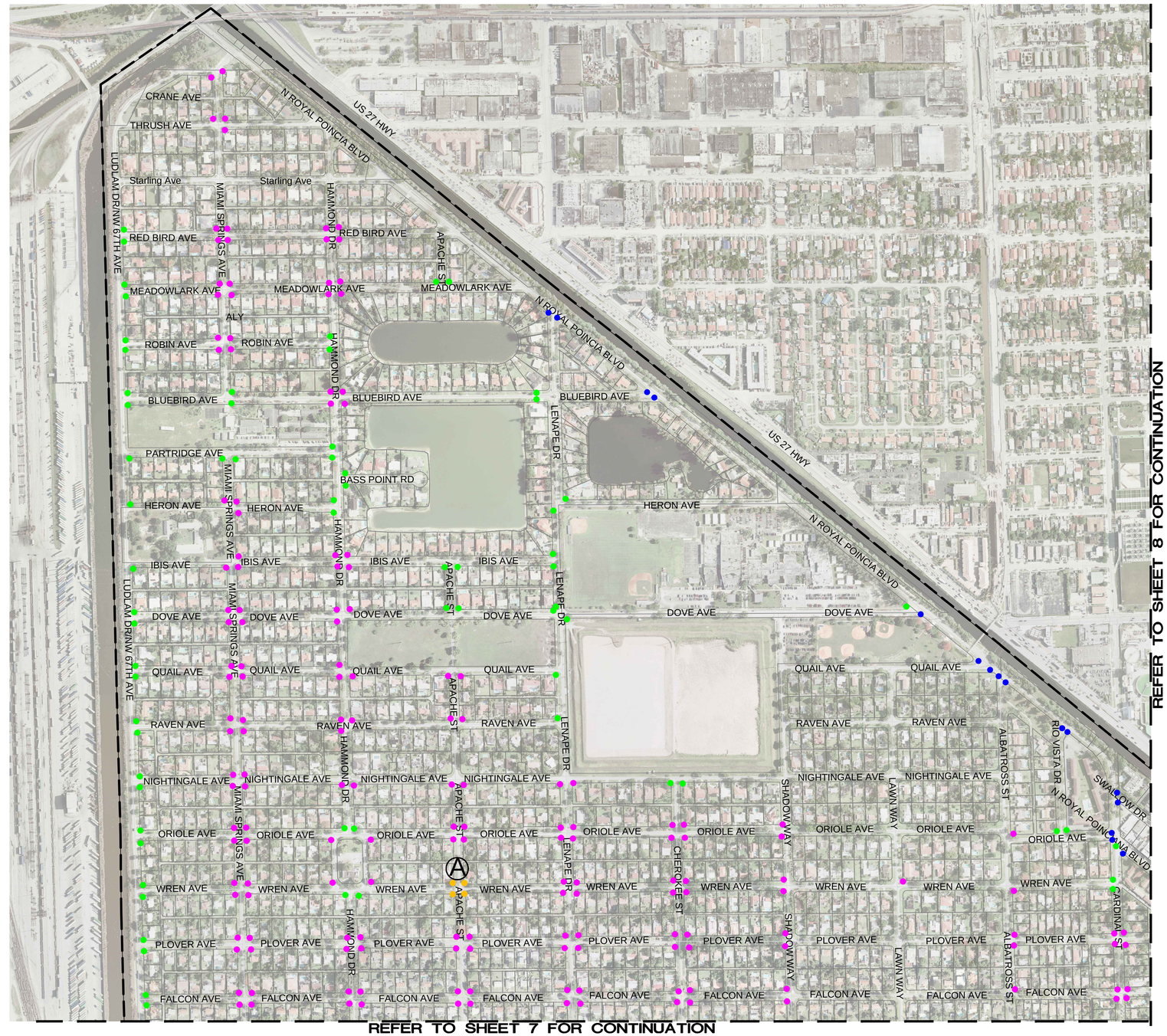
EXISTING RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 5 OF 20

G:\2015\15-0041-001-01 Miami Springs ADA Ramps\Drawings\15-0041-001-01-PGD.dwg [PGD-4] Mar 09, 2016 12:41pm GLATORRE



REFER TO SHEET 8 FOR CONTINUATION

REFER TO SHEET 7 FOR CONTINUATION

LEGEND:

- TYPE A RAMP (68)
- TYPE B RAMP (0)
- TYPE C RAMP (168)
- TYPE D RAMP (0)
- OTHER (4)
- PROPOSED TRUNCATED DOME (16)

0 350' 700'

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

PROPOSED RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 6 OF 20

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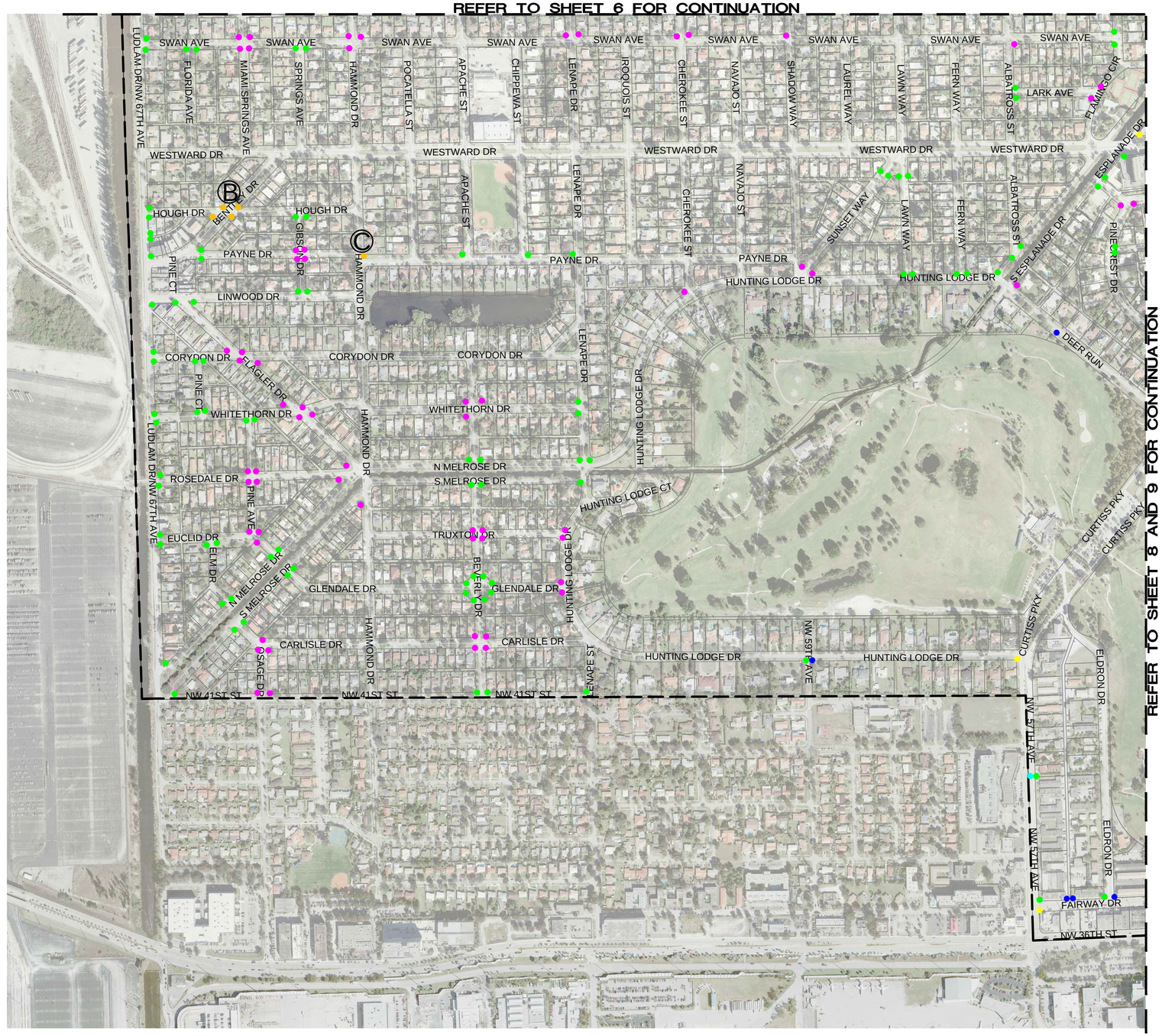
REFER TO SHEET 6 FOR CONTINUATION



REFER TO SHEET 8 AND 9 FOR CONTINUATION

0 350' 700'

LEGEND:

- TYPE A RAMP (93)
- TYPE B RAMP (3)
- TYPE C RAMP (63)
- TYPE D RAMP (1)
- OTHER (5)
- PROPOSED TRUNCATED DOME (5)

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

BY:	DATE:	DESCRIPTION:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

PROPOSED RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 7 OF 20

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REFER TO SHEET 6 AND 7 FOR CONTINUATION

REFER TO SHEET 9 FOR CONTINUATION

0 350' 700'

LEGEND:

- TYPE A RAMP (30)
- TYPE B RAMP (8)
- TYPE C RAMP (90)
- TYPE D RAMP (4)
- OTHER (20)
- PROPOSED TRUNCATED DOME (64)

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

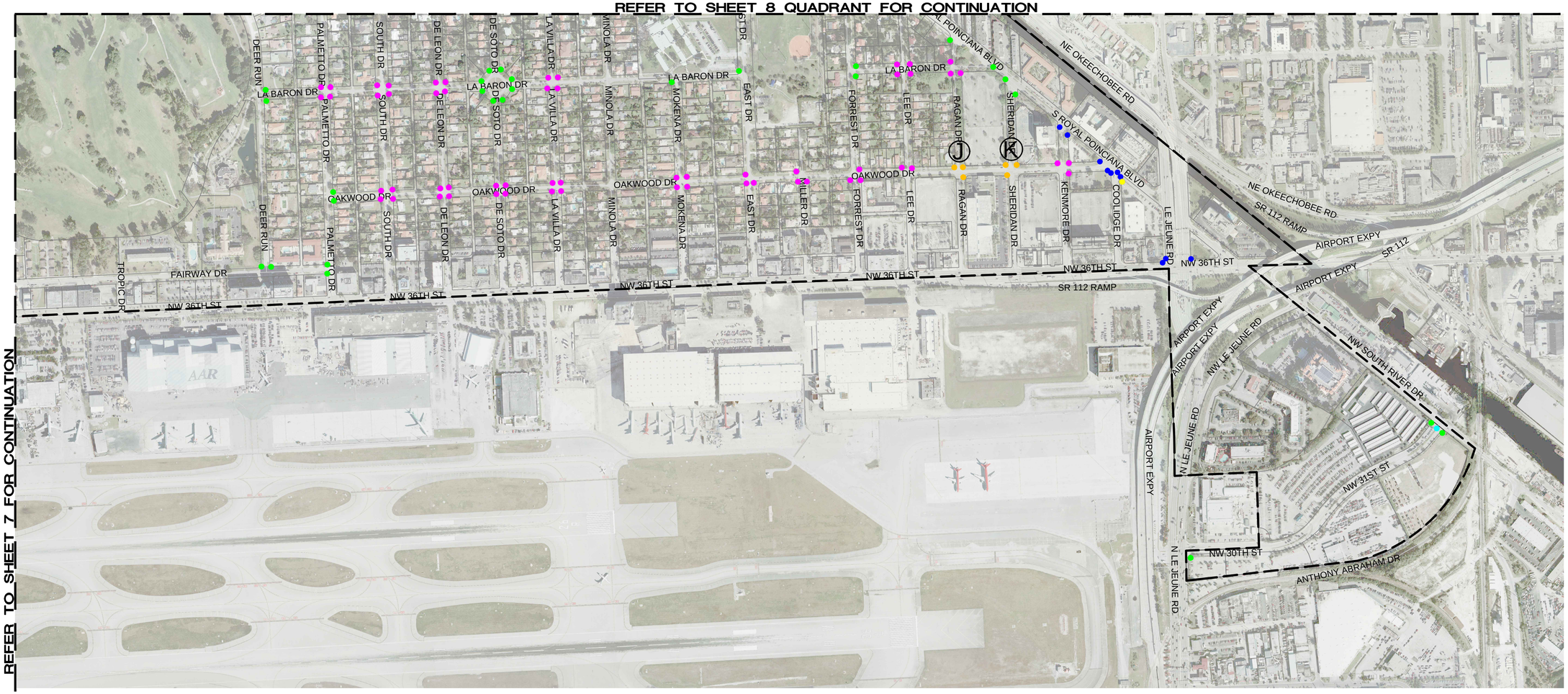
PROPOSED RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 8 OF 20

REFER TO SHEET 8 QUADRANT FOR CONTINUATION



REFER TO SHEET 7 FOR CONTINUATION

0 350' 700'

LEGEND:

- TYPE A RAMP (27)
- TYPE B RAMP (1)
- TYPE C RAMP (57)
- TYPE D RAMP (1)
- OTHER (6)
- PROPOSED TRUNCATED DOME (10)

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

BY:	DATE:	DESCRIPTION:

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

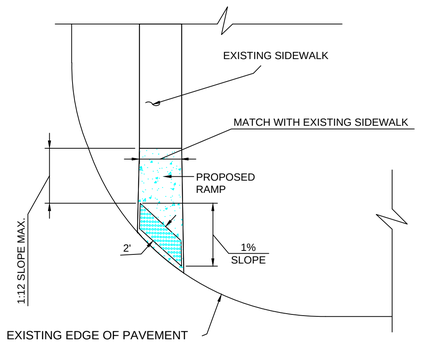
PROPOSED RAMPS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 9 OF 20

G:\2015\15-0041-001-01 Miami Springs ADA Ramps\Drawings\15-0041-001-01-PGD-DET.dwg [PGDDET-4] Mar 09, 2016 12:42pm GLATORRE

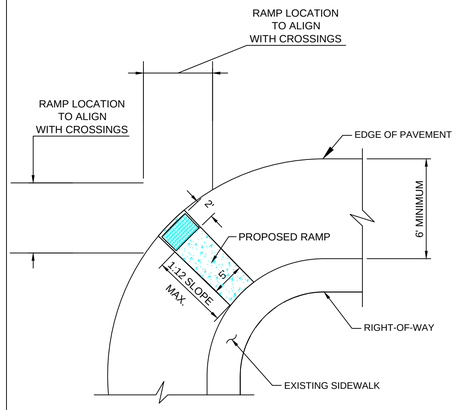


PLAN - 1 WAY CROSSWALK
N.T.S.

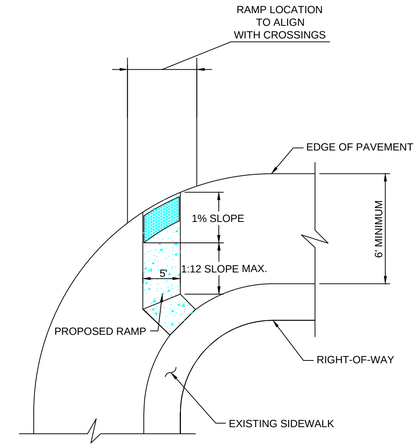
NOTES:

1. DETECTABLE WARNING SHALL BE IN ACCORDANCE WITH A.D.A., D.O.T. AND H.C.E.D. REQUIREMENTS. IT SHALL BE CONTRASTING COLOR AND PLACED TO ALIGN WITH THE DIRECTION OF TRAVEL. PRODUCTS SHALL BE CUT AND PLACED TO ACHIEVE ALIGNMENT AND LOCATION REQUIREMENTS.

TYPE 'A'



PLAN - 2 WAY CROSSWALK
TYPE 'C'
N.T.S.



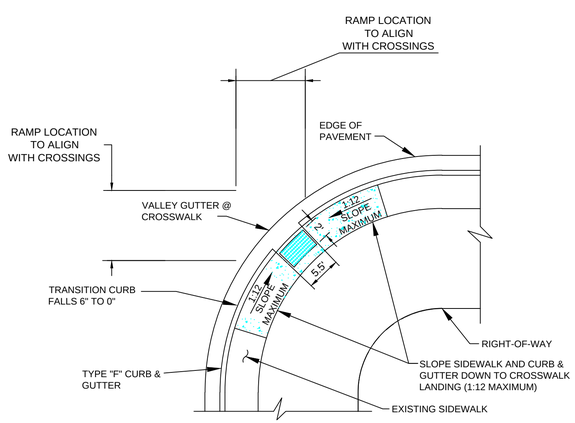
1 WAY CROSSWALK
TYPE 'C' MODIFY
N.T.S.

SIDEWALK INTERSECTION/CROSSING DETAIL

NOTES:

1. DETECTABLE WARNING SHALL BE IN ACCORDANCE WITH A.D.A., D.O.T. AND H.C.E.D. REQUIREMENTS. IT SHALL BE CONTRASTING COLOR AND PLACED TO ALIGN WITH THE DIRECTION OF TRAVEL. PRODUCTS SHALL BE CUT AND PLACED TO ACHIEVE ALIGNMENT AND LOCATION REQUIREMENTS.

TYPE 'C'

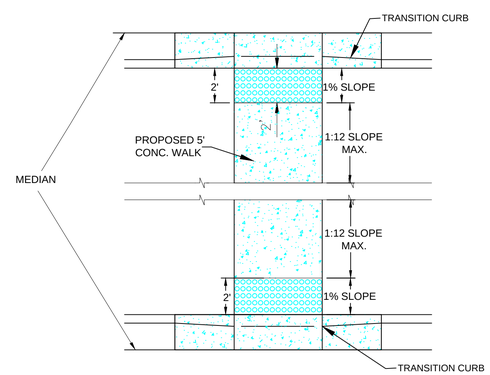


PLAN - CROSSING W/ SIDEWALK @ EDGE OF PAVEMENT
N.T.S.

NOTES:

1. DETECTABLE WARNING SHALL BE IN ACCORDANCE WITH A.D.A., D.O.T. AND H.C.E.D. REQUIREMENTS. IT SHALL BE CONTRASTING COLOR AND PLACED TO ALIGN WITH THE DIRECTION OF TRAVEL. PRODUCTS SHALL BE CUT AND PLACED TO ACHIEVE ALIGNMENT AND LOCATION REQUIREMENTS.

TYPE 'B'
(MODIFIED CR-C)



FDOT MEDIAN CROSSING
N.T.S.

NOTES:

1. DETECTABLE WARNING SHALL BE IN ACCORDANCE WITH A.D.A., D.O.T. AND H.C.E.D. REQUIREMENTS. IT SHALL BE CONTRASTING COLOR AND PLACED TO ALIGN WITH THE DIRECTION OF TRAVEL. PRODUCTS SHALL BE CUT AND PLACED TO ACHIEVE ALIGNMENT AND LOCATION REQUIREMENTS.

TYPE 'D'

NOTE:
RAMP TO BE ALIGNED WITH CROSSINGS AS DETERMINED BY ALIGNMENT WITH OTHER RAMPS WITHIN INTERSECTIONS.

DATE:	12/11/15	
SCALE:		
DESIGN BY:		
DRAWN BY:		
CHECKED BY:		
APPROVED BY:		
DATE:		
BY:		
DESCRIPTION:		

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

RAMP AND SIDEWALK DETAILS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 10 OF 20

G:\2015\15-0041-001-01 Miami Springs ADA Ramps\Drawings\15-0041-001-01-DET.dwg [DET-1] Mar 09, 2016 12:42pm GLATORRE

LAST REVISION	DESCRIPTION:				
07/01/13		2016 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 2 of 7

LAST REVISION	DESCRIPTION:				
07/01/13		2016 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 4 of 7

LAST REVISION	DESCRIPTION:				
07/01/13		2016 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 6 of 7

NOTES:

1. Where crosswalk markings are used, ramps shall fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
2. Crosswalk widths and configurations vary; must conform to Index No. 17344 and 17346.

TABLE OF DETECTABLE WARNINGS

CURB RAMP TYPE	CURB RADIUS (FT)	TOTAL AREA (SF)
CR-A	N/A	8
CR-B	N/A	8
CR-C	N/A	8
CR-D	25	11
CR-E	N/A	8
CR-F	10	9
	20	11
	25	13
	30	14
CR-G	10	10
	20	11
	25	12
	30	14
CR-H	20	8
	25	8
	30	8
CR-K	N/A	8
CR-L	10	18
	15	13
FLUSH SHOULDER:		
OPTION A	10	11
	20	14
	25	15
	30	17
	40	19
	50	21
OPTION B	10	10
	20	10
	25	10

Note:
Due to construction applications, CR-L is the only curb ramp for which a detectable warning quantity was calculated using a curb radius of 19'.

For flush shoulder options with 5' sidewalks, the back of sidewalk is measured at 50' from the edge of traveled way.

AREAS OF DETECTABLE WARNINGS FOR SIDEWALK CURB RAMP AND FLUSH SHOULDER APPLICATIONS

LAST REVISION	DESCRIPTION:				
07/01/13		2016 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 7 of 7

DATE:	12/11/15
SCALE:	
DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

BY:	DATE:
DESCRIPTION:	

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

RAMP AND SIDEWALK DETAILS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 11 OF 20

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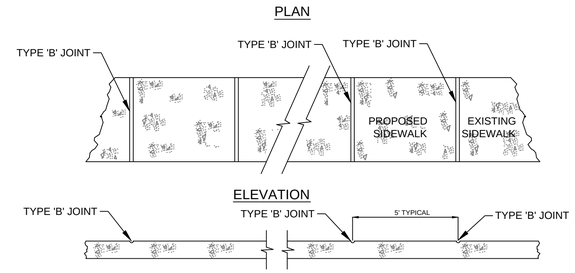
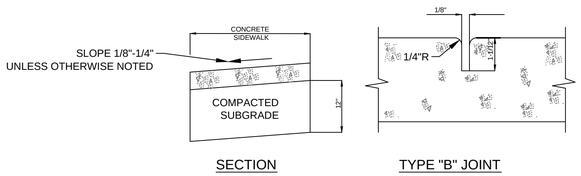


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'B'	5 FEET TO CENTER ON SIDEWALKS

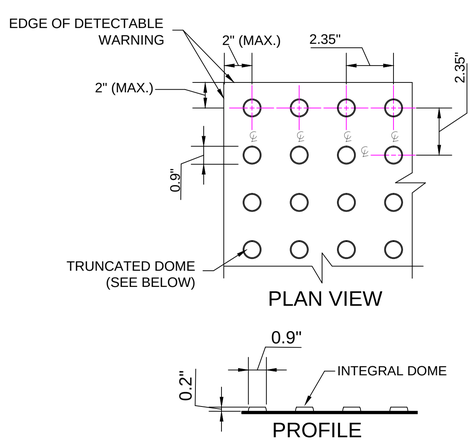
SCALE: N.T.S.

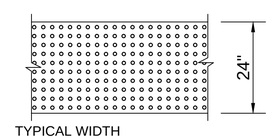


NOTES:

1. SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS AND BROWARD COUNTY R/W WHERE THE THICKNESS SHALL BE 6".
2. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
3. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.

SIDEWALK DETAILS





NOTES:
DETECTABLE WARNING SURFACES SHALL CONFORM WITH THE DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY **(JUNE 17, 2002).**
1108.1 GENERAL. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED IN A SQUARE GRID PATTERN AND SHALL COMPLY WITH 1108.
1108.1.1 DOME SIZE. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCHES (23 MM) MINIMUM TO 1.4 INCHES (36 MM) MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCHES (5 MM).
1108.1.2 DOME SPACING. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 MM) MINIMUM AND 2.4 INCHES (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCHES (16 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON SQUARE GRID.
1108.1.3 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
1108.1.4 SIZE. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES (610 MM) MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION.

DETECTABLE WARNING-TRUNCATED DOME

N.T.S.

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APPROVED BY:	

BY:	DATE:	DESCRIPTION:

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FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

RAMP AND SIDEWALK DETAILS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

SHEET 12 OF 20

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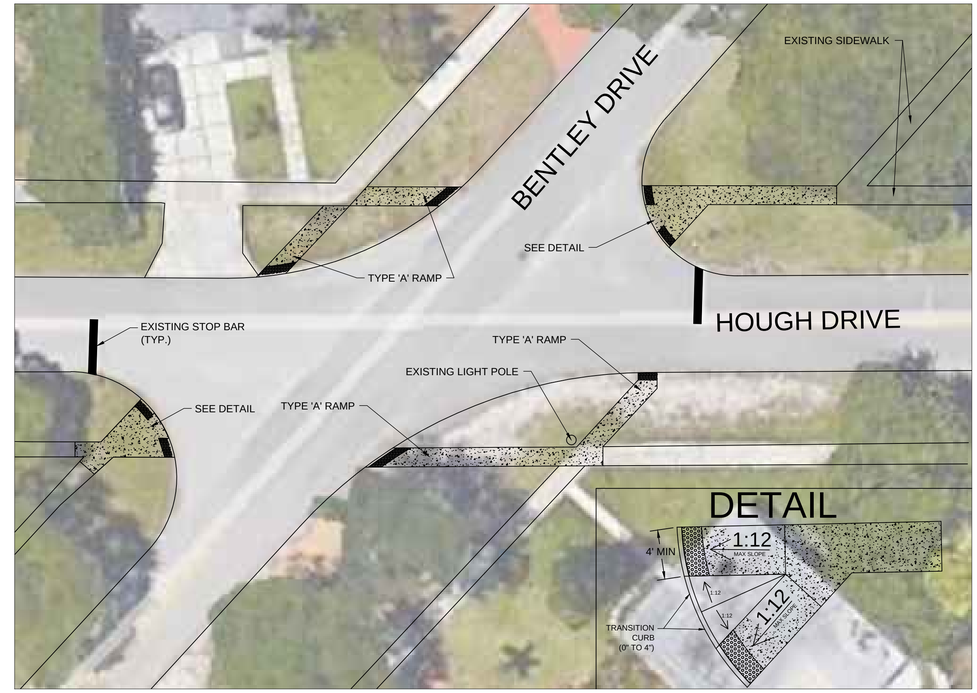
PROPOSED RAMP INTERSECTIONS
BETWEEN WREN AVENUE AND APACHE STREET

A



PROPOSED RAMP INTERSECTIONS
BETWEEN BENTLEY DRIVE AND HOUGH DRIVE

B

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ADA SIDEWALK RAMP
INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

A - TYPICAL INTERSECTIONS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

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PROPOSED RAMP INTERSECTIONS
BETWEEN PAYNE DRIVE AND HAMMOND DRIVE

C

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ADA SIDEWALK RAMP
INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

A - TYPICAL INTERSECTIONS

Tim J. Hall
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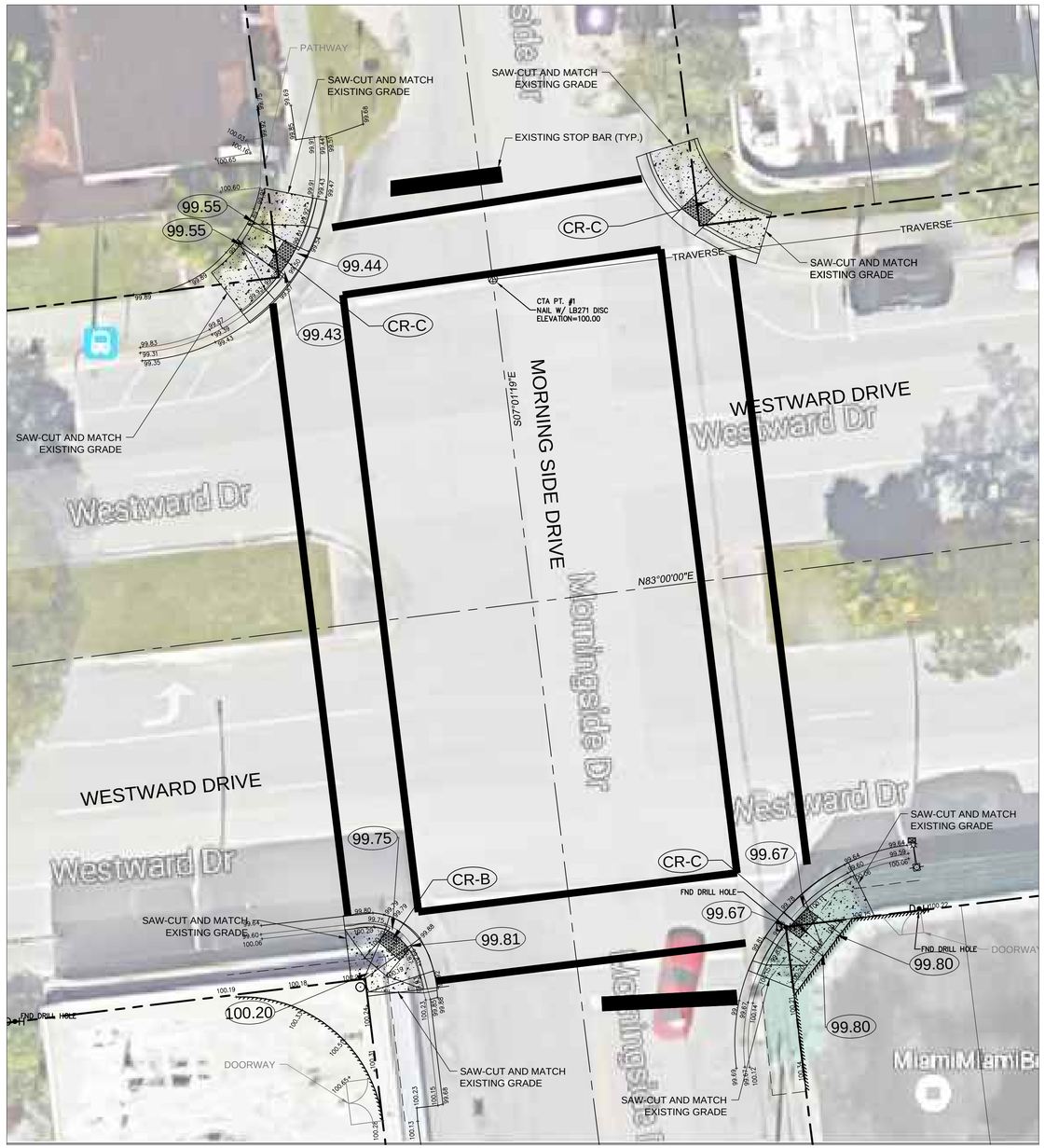
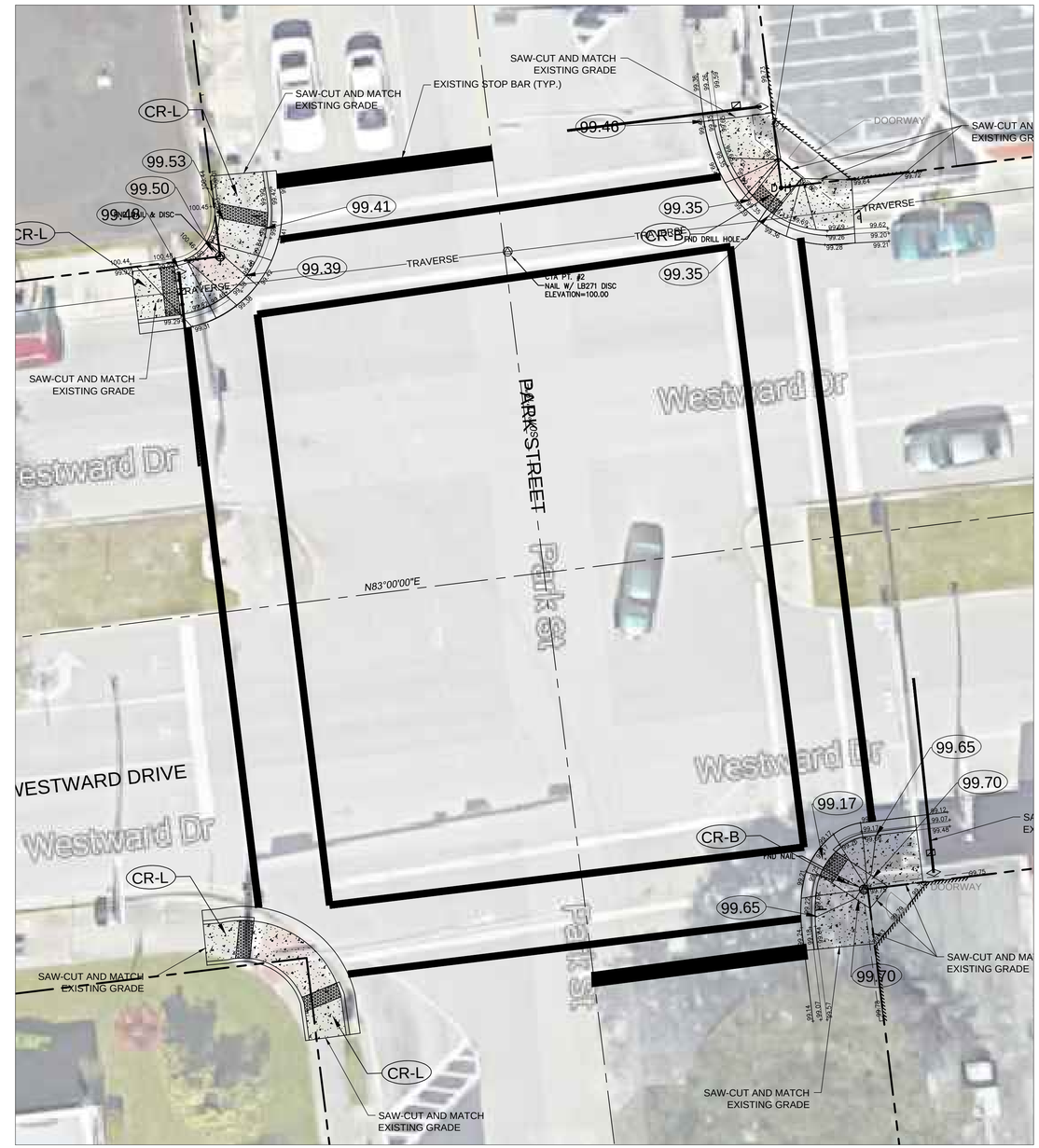


PROPOSED RAMP INTERSECTION
WESTWARD DRIVE AND MORNING SIDE DRIVE

D



PROPOSED RAMP INTERSECTION
WESTWARD DRIVE AND PARK STREET

E

PROPOSED LEGEND–PAVING & GRADING

- INDICATES PROPOSED CONCRETE SIDEWALK SECTION
- CR-L INDICATES FDOT CURB RAMP L
- CR-C INDICATES FDOT CURB RAMP L

*NOTE: THE GREADES SHOWN ARE BASED ON AN ASSUMED ELEVATION OF 100 ON CTA CONTROL POINT

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ADA SIDEWALK RAMP
INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

A - TYPICAL INTERSECTIONS

Tim J. Hall
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15-0041-001-01

SHEET 15 OF 20

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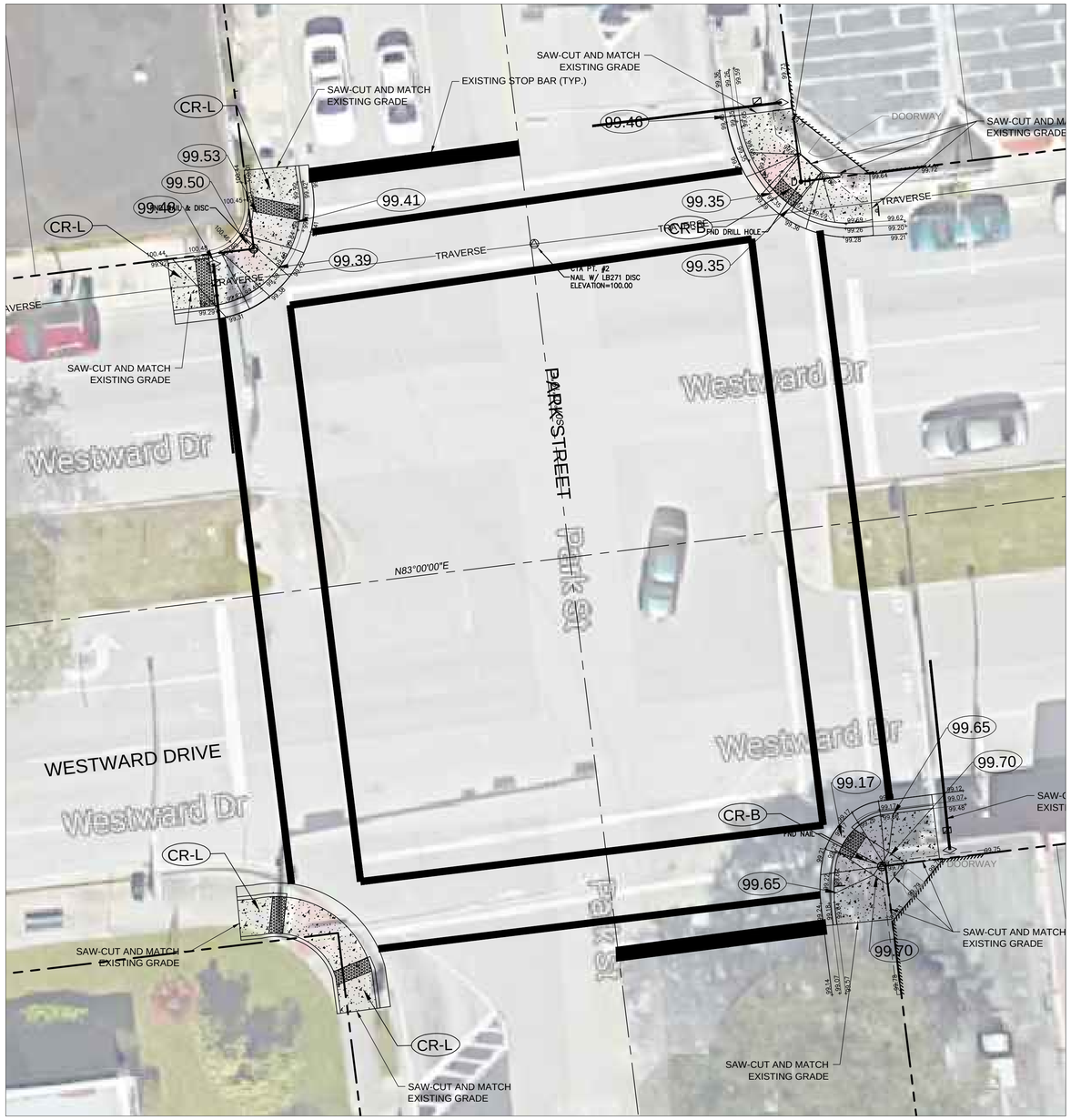

PROPOSED LEGEND–PAVING & GRADING

- INDICATES PROPOSED CONCRETE SIDEWALK SECTION
- (CR-L) INDICATES FDOT CURB RAMP L
- (CR-C) INDICATES FDOT CURB RAMP L

PROPOSED RAMP INTERSECTION
WESTWARD DRIVE AND CROSS STREET

F

*NOTE: THE GREADES SHOWN ARE BASED ON AN ASSUMED ELEVATION OF 100 ON CTA CONTROL POINT

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ADA SIDEWALK RAMP
INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

A - TYPICAL INTERSECTIONS

Tim J. Hall
Florida P.E. No. 50588

PROJECT NO.
15-0041-001-01

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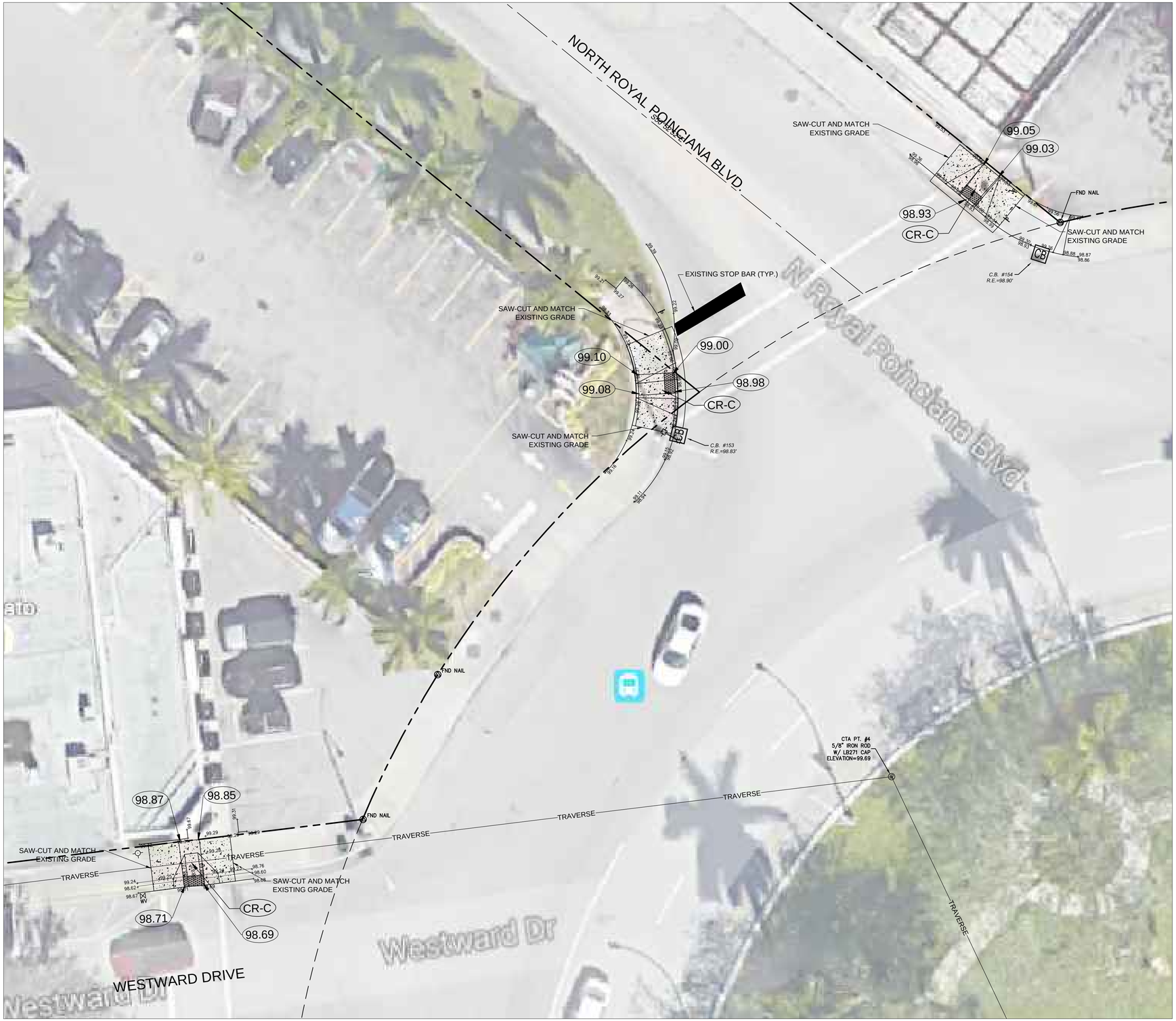

PROPOSED RAMP INTERSECTION
CURTIS PARKWAY AND NORTH POINCIANA BLVD.

G

PROPOSED LEGEND–PAVING & GRADING

- INDICATES PROPOSED CONCRETE SIDEWALK SECTION
- (CR-L) INDICATES FDOT CURB RAMP L
- (CR-C) INDICATES FDOT CURB RAMP L

*NOTE: THE GREADES SHOWN ARE BASED ON AN ASSUMED ELEVATION OF 100 ON CTA CONTROL POINT

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ADA SIDEWALK RAMP INSTALLATIONS AND RETROFITS

PREPARED FOR:
CITY OF MIAMI SPRINGS

A - TYPICAL INTERSECTIONS

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PROPOSED LEGEND–PAVING & GRADING

- INDICATES PROPOSED CONCRETE SIDEWALK SECTION
- (CR-L) INDICATES FDOT CURB RAMP L
- (CR-C) INDICATES FDOT CURB RAMP L

PROPOSED RAMP INTERSECTION
CURTIS PARKWAY

H

*NOTE: THE GREADES SHOWN ARE BASED ON AN ASSUMED ELEVATION OF 100 ON CTA CONTROL POINT

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A - TYPICAL INTERSECTIONS

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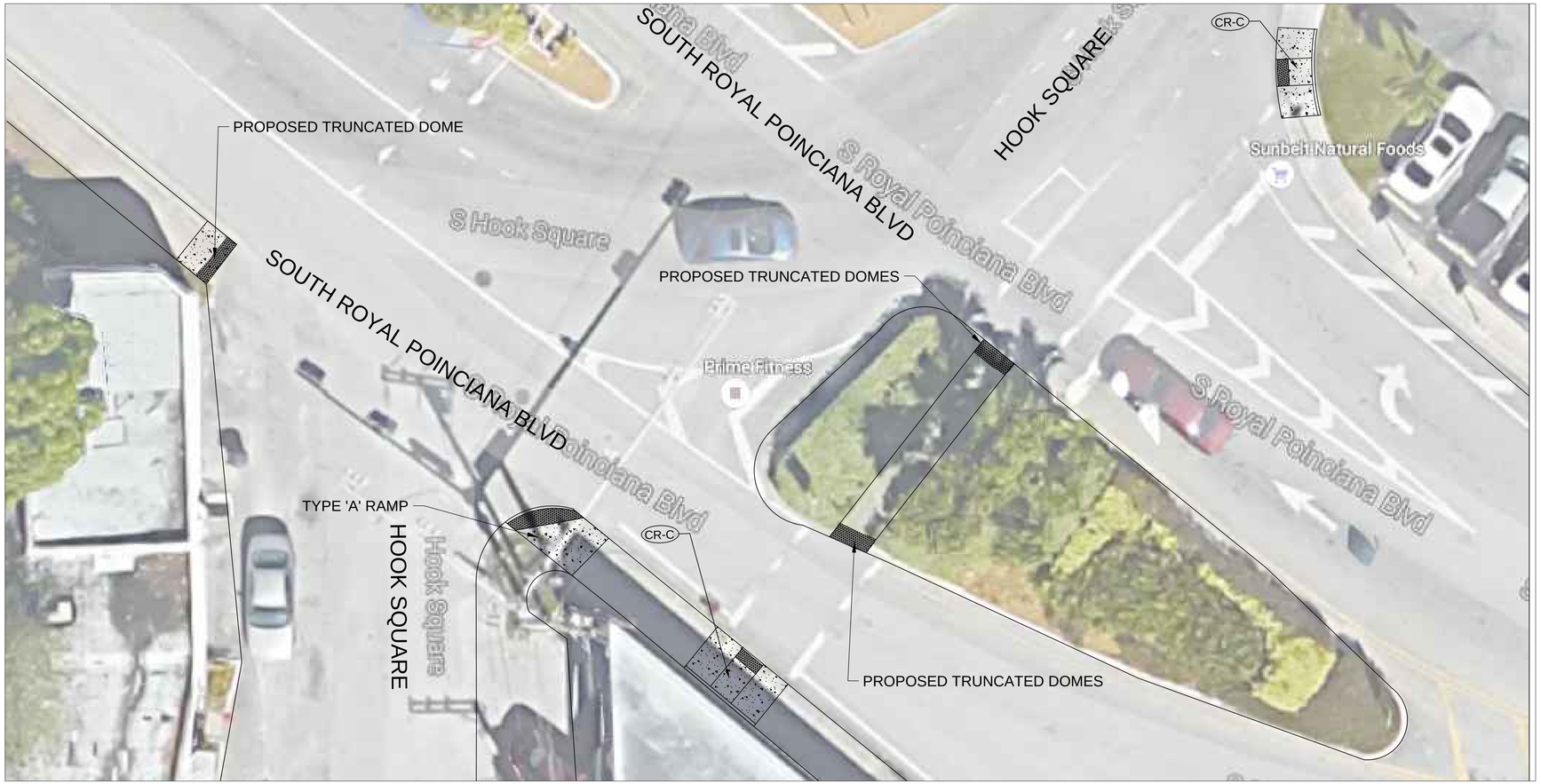

PROPOSED RAMP INTERSECTIONS BETWEEN
ROYAL POINCIANA AND HOOK SQUARE

I

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ADA SIDEWALK RAMP
INSTALLATIONS AND RETROFITS

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A - TYPICAL INTERSECTIONS

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SHEET 19 OF 20

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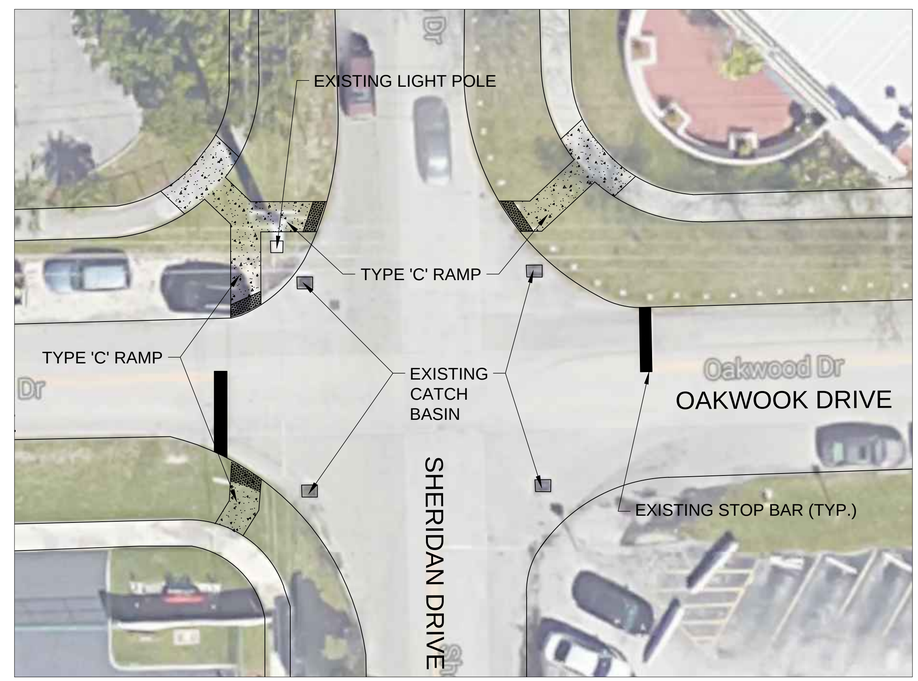
PROPOSED RAMP INTERSECTIONS
BETWEEN OAKWOOD DRIVE AND RAGAN DRIVE

J



PROPOSED RAMP INTERSECTIONS
BETWEEN OAKWOOD DRIVE AND SHERIDAN DRIVE

K

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