SOUTH FLORIDA WATER MANAGEMENT DISTRICT

INFRASTRUCTURE MANAGEMENT BUREAU - SURVEY & MAPPING SECTION

BOUNDARY AND TOPOGRAPHIC SURVEY

CANAL 100 A

SECTION 22, 23, 27 & 34 TOWNSHIP 55 SOUTH, RANGE 40 EAST MIAMI-DADE COUNTY, FLORIDA



SURVEYOR NOTES

- Survey Date: October 08, 2013 to June 20, 2014.
- This survey is not valid without the signature and the original raised seal of a Florida licensed Surveyor
- Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties. This survey is also not valid unless this sheet is accompanied by all sheets referenced here on.
- This boundary and topographic survey was completed for the South Florida Water Management District for the main purpose of identifying canal side bank erosion. The limits of locations were determined by the client and were defined within the scope of services to be ten feet beyond the C-100A canal right-of-way or ten feet beyond any existing C-100A maintenance easement. The full scope of services was defined within Work Order 4600002695-WO03, Woolpert project number 73803.
- This survey has been prepared for the exclusive use of the entities named hereon. The certification shown hereon does not extend to any unnamed party.
- This project was completed as a joint effort between Woolpert, Inc. and Whidden Surveying & Mapping. All topographic survey information north of baseline stationing 277+55 was collected and processed by Whidden Surveying & Mapping. Additionally, all data collection and processing for the water cross sections, the canal centerline profile, and hydrographic data was completed by Whidden Surveying & Mapping.
- This survey does not reflect or determine ownership
- For this C-100A Canal boundary survey, the Surveyor was provided a Memorandum of Title prepared by Mike Debish, Senior Title Examiner, Title and Closing, Real Estate Section, Land Resources Bureau of the South Florida Water Management District, dated December 20, 2012.
- There may be legal restrictions on the shown properties that are not shown on this survey. This survey makes no attempt to verify or determine ownership, possession or occupation of the shown property. The lands shown hereon have not been abstracted by this firm regarding matters of interest by other parties, such as easements, right-of-ways, reservations, etc.
- Certified Corner Records are being filed with the Florida Department of Environmental Protection Bureau of Survey and Mapping.
- 12. Utility features shown have been located from field survey measurements on above ground and visible features only. The Surveyor has performed no subsurface investigation. There may be underground utilities in addition to those evidenced by visible appurtenances as shown on this survey. Owner or his agent should verify all utility locations with the appropriate utility provider before using.
- 13. This firm has made no attempt to locate any structure footings and/or foundations nor any other underground improvements and/or utilities unless otherwise noted. Only limited fixed improvements were made during this survey as directed by the client, or as accessibility allowed.
- 14. For this survey Woolpert used the following equipment: Trimble R8-2 GPS receivers for setting the horizontal and vertical project control stations and for collecting topographic data; Trimble 5600 reflector-less total station for positioning topographic details.
- 15. For this survey Whidden Surveying & Mapping used the following equipment: Trimble R8-2 GNSS receiver with Pac Crest radio as base & Trimble R8-3 GNSS receiver as rover for setting project control and topographic data collection; Trimble S6 Robotic Total Station for topographic data collection; Ross 825B Survey Sounder with 200KHz 8 degree transducer processed in HYPACK 2013 for single-beam hydrographic data collection; R2Sonic 2024 multi-beam system processed in HYSWEEP 2014; Trimble DiNi22 digital level.
- 16. This survey map is intended to be displayed at the stated scale depicted on each sheet of the survey. Scaled reproductions will affect the accuracy of obtaining data from the survey map.
- 17. Elevations shown hereon are in feet and are based on the North American Vertical Datum of 1988 (NAVD88). More specifically, elevations have been based on the following published vertical control

18.

NAME:	Elevation (NAVD88)	Northing	Easting	Description
	(Feet)	(US Survey Feet)	(US Survey Feet)	
CD-26-1	10.55	466,280	881,094	SW 168st & 350' W of SW 77av
				Brass bar in east end of concrete sidewalk of bridge
R-602-1	10.03	471,630	880,917	SW 152st & between 77av and 77ct
			·	Brass bar in Concrete wheelguard at the NE corner of the Bridge

- 19. For this portion of the C-100A Canal, a conversion factor of 1.53 can be added to the NAVD88 elevation to calculate an elevation in the Nation Geodetic Vertical Datum of 1929 (NGVD29).
- 20. Horizontal coordinates and bearings are based on the Florida State Plane Coordinate System, East Zone 0901, North American Datum of 1983, adjustment of 2011 (NAD 83/2011).

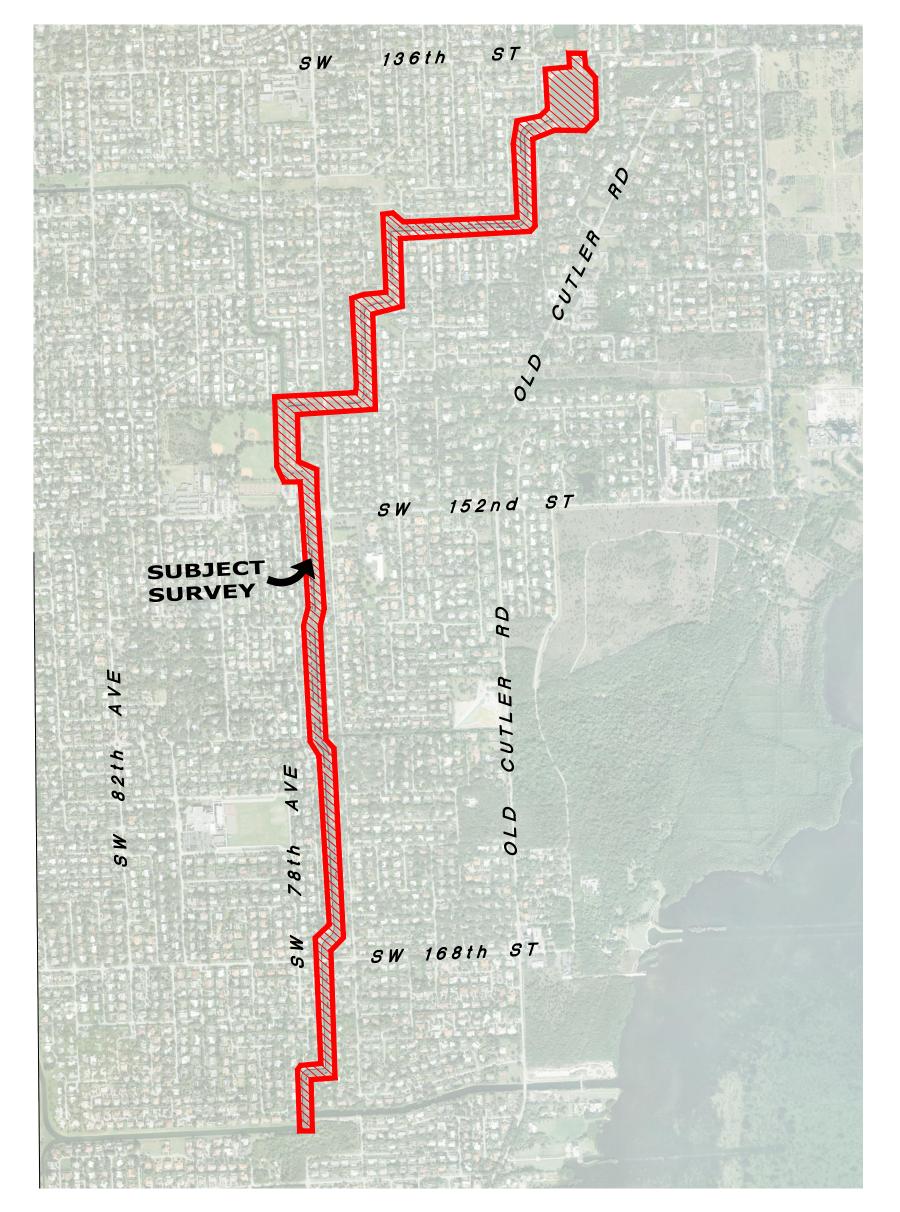
21. Horizontal control used included:

CORS ID:	Northing (US Survey Feet)	Easting (US Survey Feet)	Description
FLC5	399,469.93	832,080.42	Station is antenna reference point of the GPS antenna. Station is a GPS CORS.
RMND	465,790.40	859,175.23	Station is antenna reference point of the GPS antenna. Station is a GPS CORS.
LAUD	677,867.54	927,328.45	Station is antenna reference point of the GPS antenna. Station is a GPS CORS.

- 22. The Basis of Bearing of this survey is the inverse line between Project Control Stations #1031 and 1032 being North 09° 00' 13.11" West.
- 23. All shown measurements, distances and elevations are in feet unless otherwise noted.
- 24. Aerial photography shown on the survey map is for graphical purposes only, and was not verified for accuracy or correctness. The approximate date of photography is believed to be January 2012. 25. This survey exceeds the minimum closure accuracy for a suburban survey (1 foot in 7,500 feet) as

required in 5J-17.051(3)(b)15.b.ii. of Florida Administrative Code, pursuant to Section 472.027,

- Florida State Statutes. Tree types show hereon are shown for the convenience of our client. The field crew has not been trained in tree identification therefore; this firm does not assume any responsibility as to the accuracy
- of the tree types shown in the tree schedule. 27. The Survey Baseline is random and does not refer to any specific maps or plans. The Baseline Stationing was coordinated to start at the north end of the project so that it would be a continuation from another independent survey.
- 28. Topographic Plan Sheets. The hatching line segments along the canal bank represent locations of canal embankment which show evidence of erosion and undermining.



LOCATION MAP Not To Scale

CERTIFICATE OF SURVEYOR:

I HEREBY CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE APPLICABLE MINIMUM TECHNICAL STANDARDS FOR SURVEYS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN CHAPTER 5J-17.050 THROUGH 5J-17.052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATE STATUTES.

BY: JOHN A CESTNICK, PSM #5994 PROFESSIONAL SURVEYOR AND MAPPER FOR AND ON BEHALF OF: WOOLPERT, INC. SIGNATURE DATE



→ BENCHMARK Δ - TRAVERSE POINT

o - FOUND IRON PIPE

• - FOUND REBAR

• - SET NAIL & DISC

□ - SET ALUM. DISC 8" CONC MON √00 SPOT ELEVATION

-SOUTH FLORIDA WATER MANAGEMENT DISTRICT BOUNDARY

120 - TREE LOCATION AND NUMBER

⊸ – SIGN () - CENTERLINE

o - POST\BOLLARD

16-T59S-R39E - SECTION, TOWNSHIP, & RANGE

PM - WATER SPIGOT/HOSE BIBB

₽ - POWER POLE

ø - LIGHT POLE

 MONITORING WELL PB - PULL BOX

- GUY WIRE

□ - TRANSFORMER

AC - AIR CONDITIONING PAD

WATER - WATER PULL BOX

WATER VALVE

PR - PARKER KALON NAIL

CB - CATCH BASIN

TP - TELEPHONE PEDISTAL

▼ - CABLE PEDISTAL

()-SANITARY MANHOLE

(T)-TELEPHONE MANHOLE

Canal Right of Way	
Overhead Electric	
Paving and Parking	
Pipes	
Concrete	
<i>Improvements</i>	
Chain Link Fence	x x x
Wood Fence	
Top of Bank	ТОВ
Top of Water	EOW

APPROVED BY:

ELEC = ELECTRIC

ESMT = EASEMENT

EL = ELEVATION

EOW = EDGE OF WATER

ID = IDENTIFICATION

IP = IRON PIPE

LA = ARC LENGTH

(M) = MEASURED

MH = MANHOLE

MON. = MONUMENT

O/S = OFFSET

PG = PAGE

PB = PLAT BOOK

L = LATITUDE

LONG = LONGITUDE

FB = FIELD BOOK

(F) = FIELD

EOP = EDGE OF PAVEMENT

GPS = GLOBAL POSITIONING SYSTEM

NAD = NORTH AMERICAN DATUM

ORB = OFFICIAL RECORD BOOK

PC = POINT OF CURVATURE

PK = PARKER KALON NAIL

PT = POINT OF TANGENCY

SFWMD = SOUTH FLORIDA WATER

TP = TRAVERSE POINT

RW = RIGHT OF WAY

R = RADIUS

(R) = RECORD

SAN = SANITARY

STA = STATION

TYP = TYPICALUNK = UNKNOWN

WF = WOOD FENCE

TELE = TELEPHONE TOB = TOP OF BANK

PCC = POINT OF COMPOUND CURVE

RCP = REINFORCED CONCRETE PIPE

MANAGEMENT DISTRICT

WMD = WATER MANAGEMENT DEED

2-4 ONSITE CONTROL KEY SHEETS BOUNDARY KEY SHEET

6-15 BOUNDARY SURVEY SHEETS 16-34 TOPOGRAPHIC SHEETS

35-36 TREE TABLE SHEETS 37-51 CROSS SECTIONS SHEETS

COVER SHEET AND LOCATION MAP

INDEX OF SHEETS

PRC = POINT OF REVERSE CURVEATURE

NGS = NATIONAL GEODETIC SURVEY

SURVEY SECTION



Embankment Erosion

WOOLPERT, INC. LB No.6777 10900 NW 25th Street, Suite Miami, Florida 33172 Phone: 305.418.9370

Fax: 305.418.9377

CADD FILE NO.

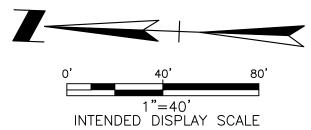
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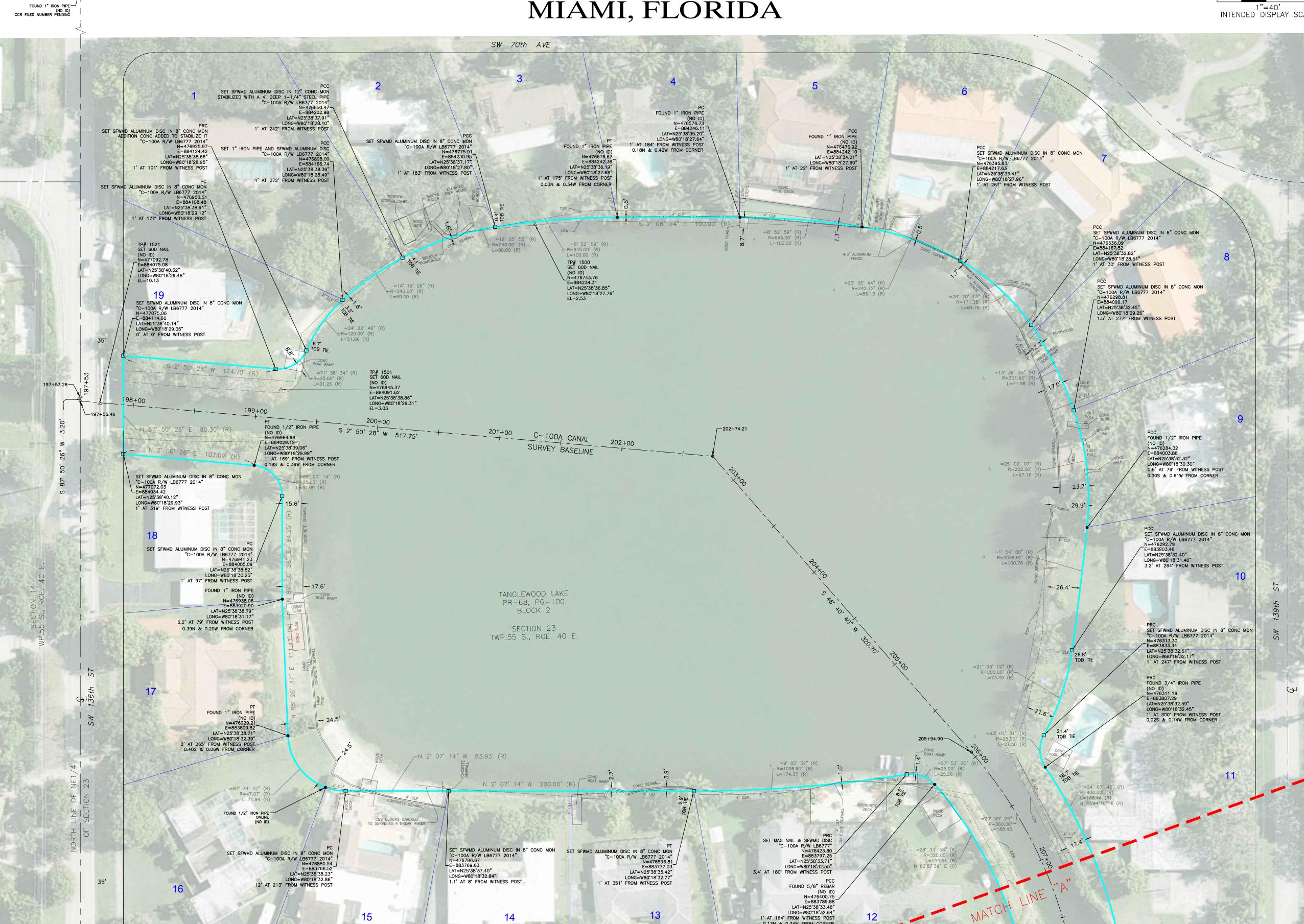
A PORTION OF C-100A CANAL MIAMI, FLORIDA

SW 67th AVE

FOUND NAIL & DISC
CCR FILED NUMBER PENDING
(NO ID)

SW 72nd AVE



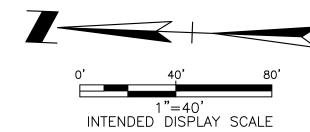


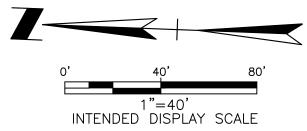
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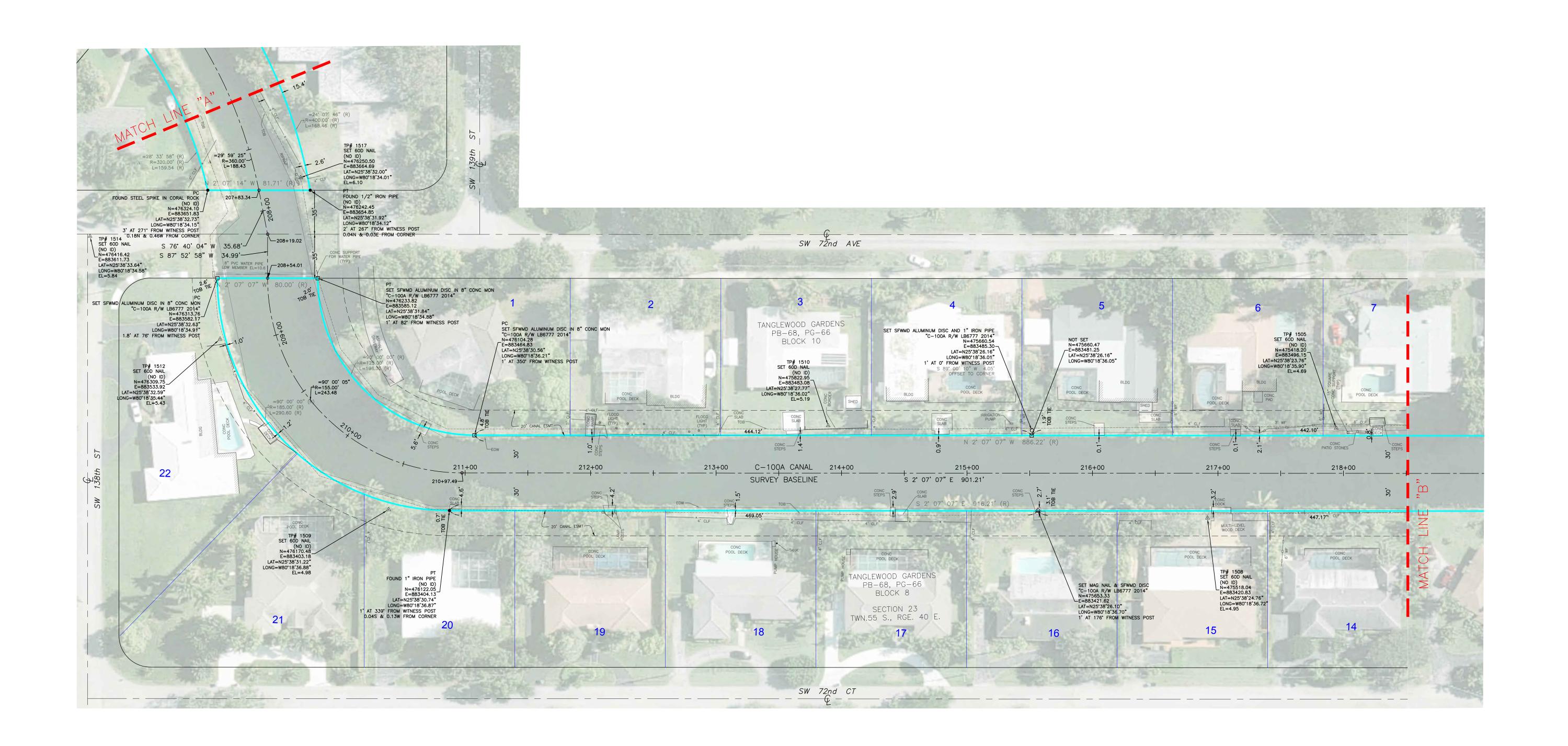
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A PORTION OF C-100A CANAL MIAMI, FLORIDA



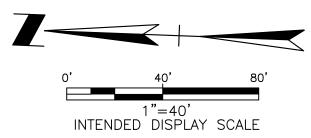


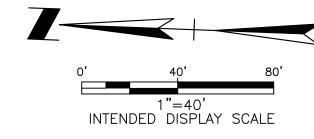


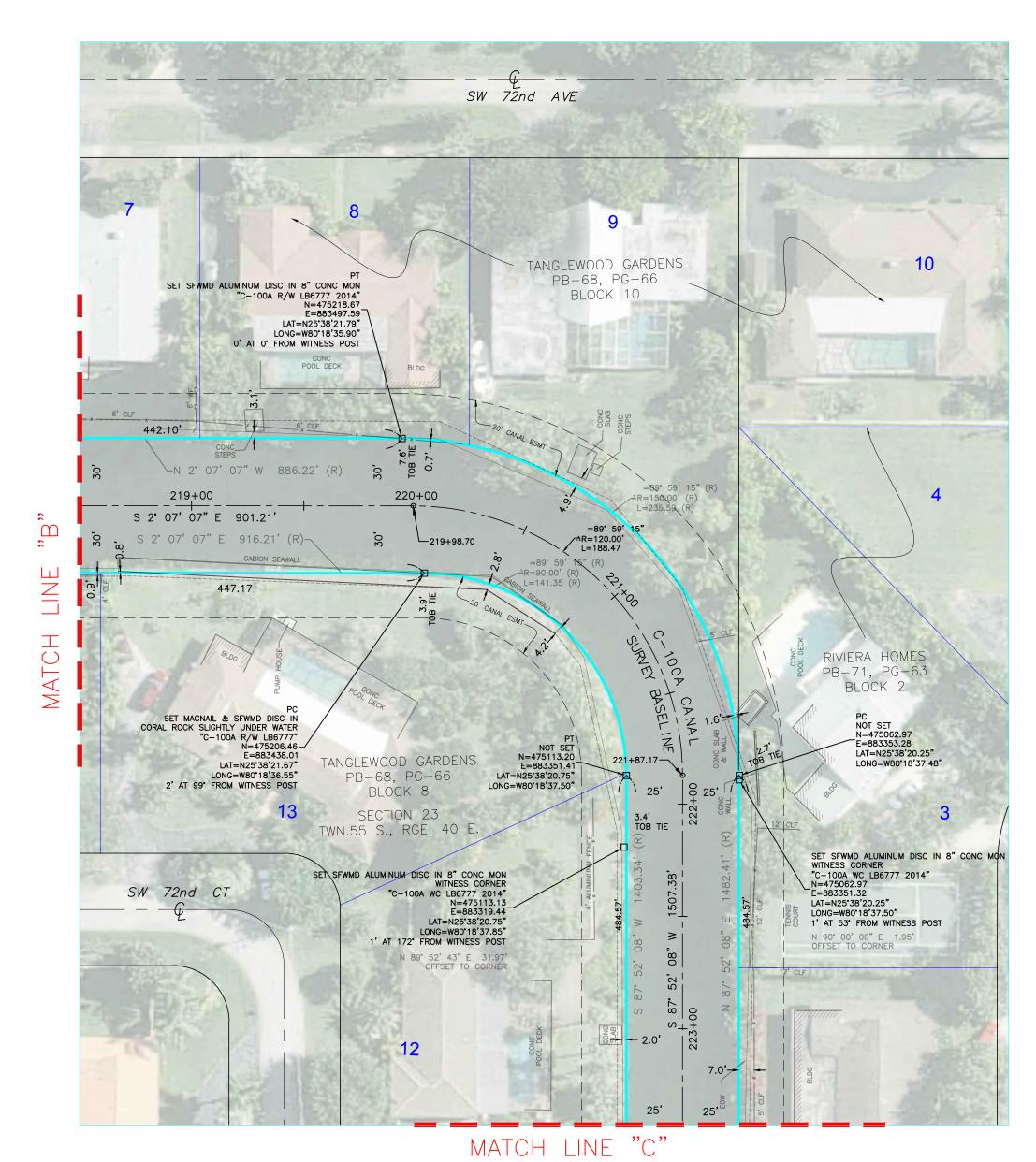
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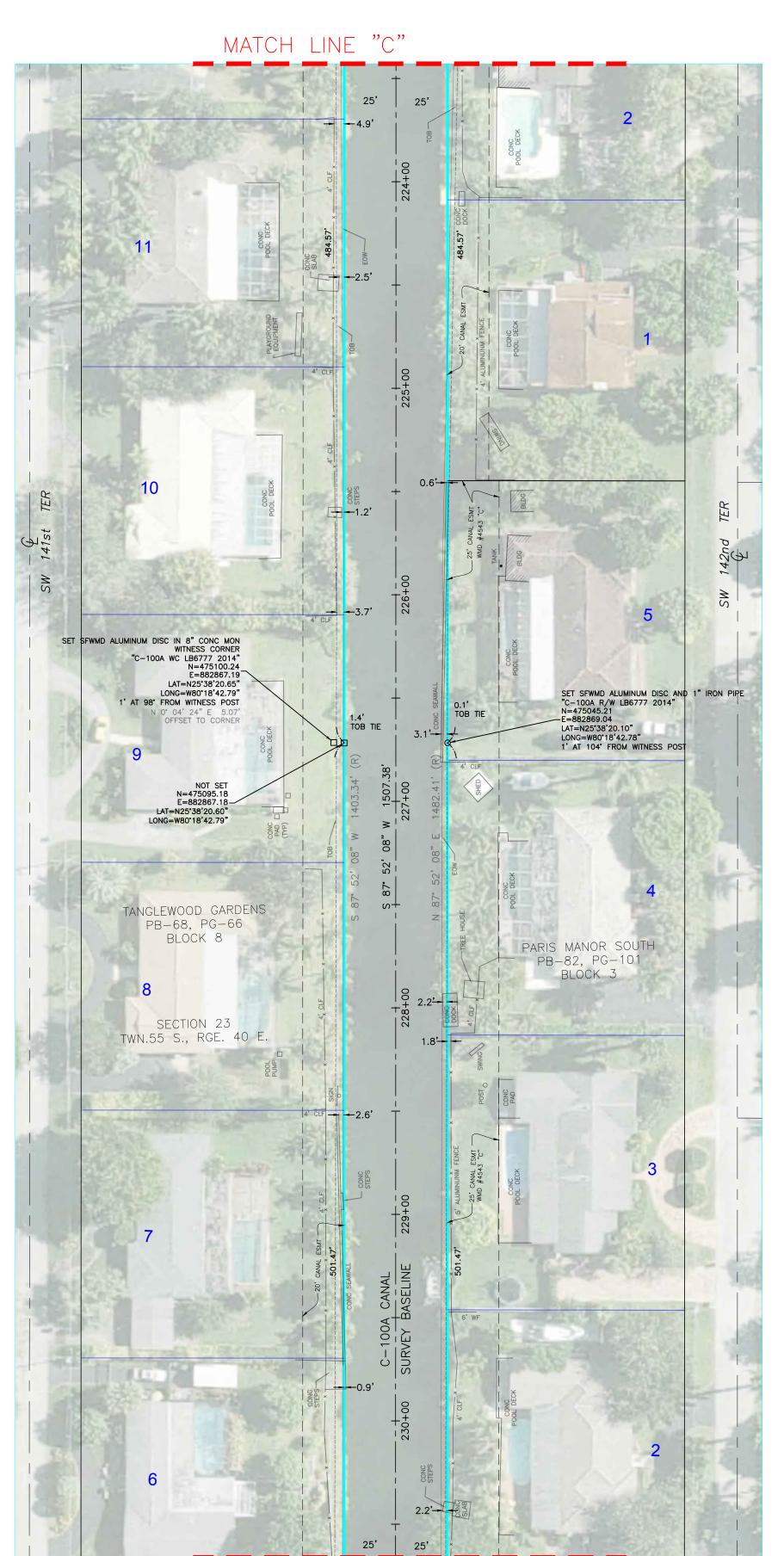
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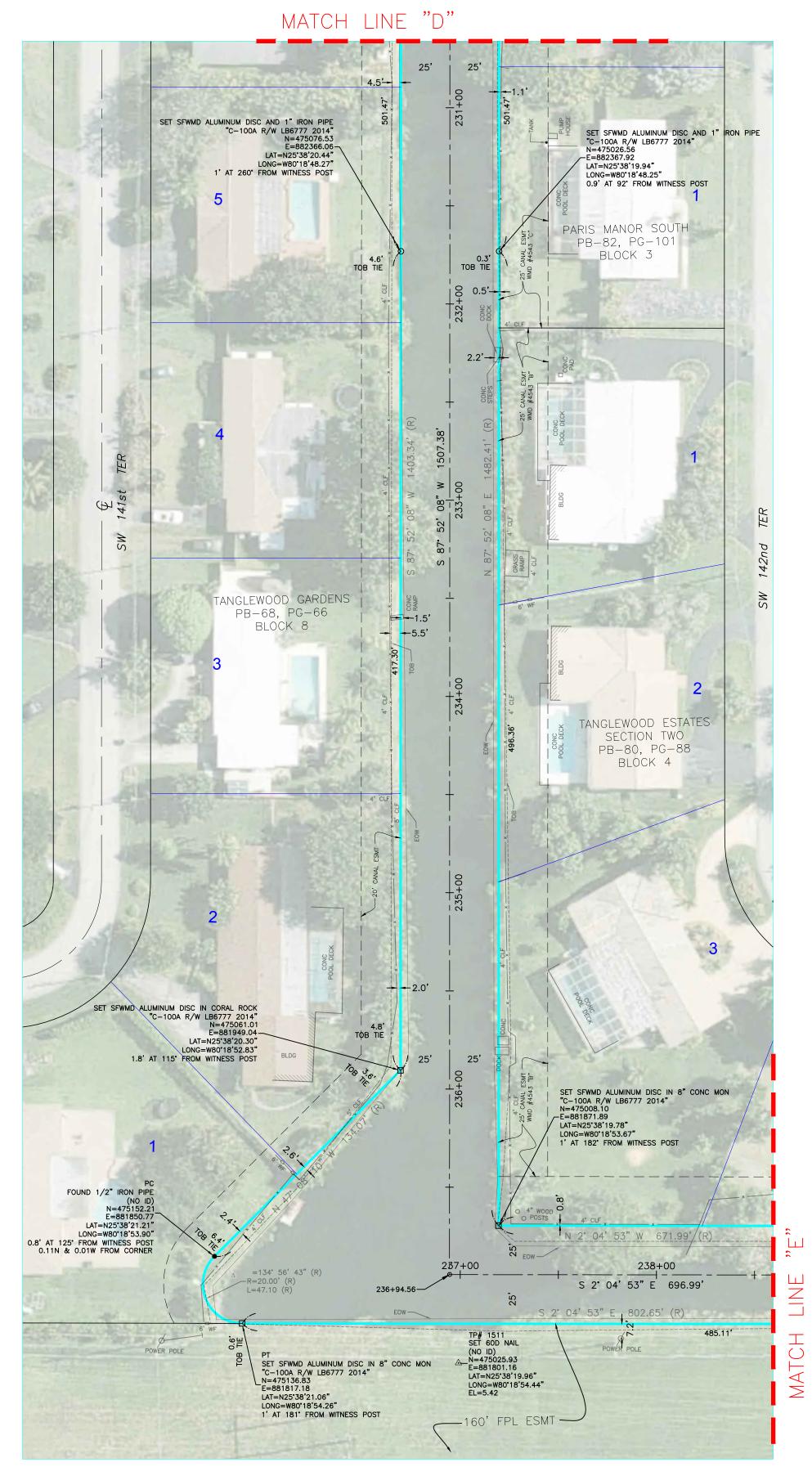








MATCH LINE "D"

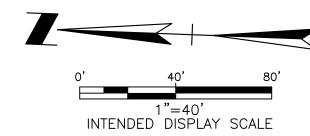


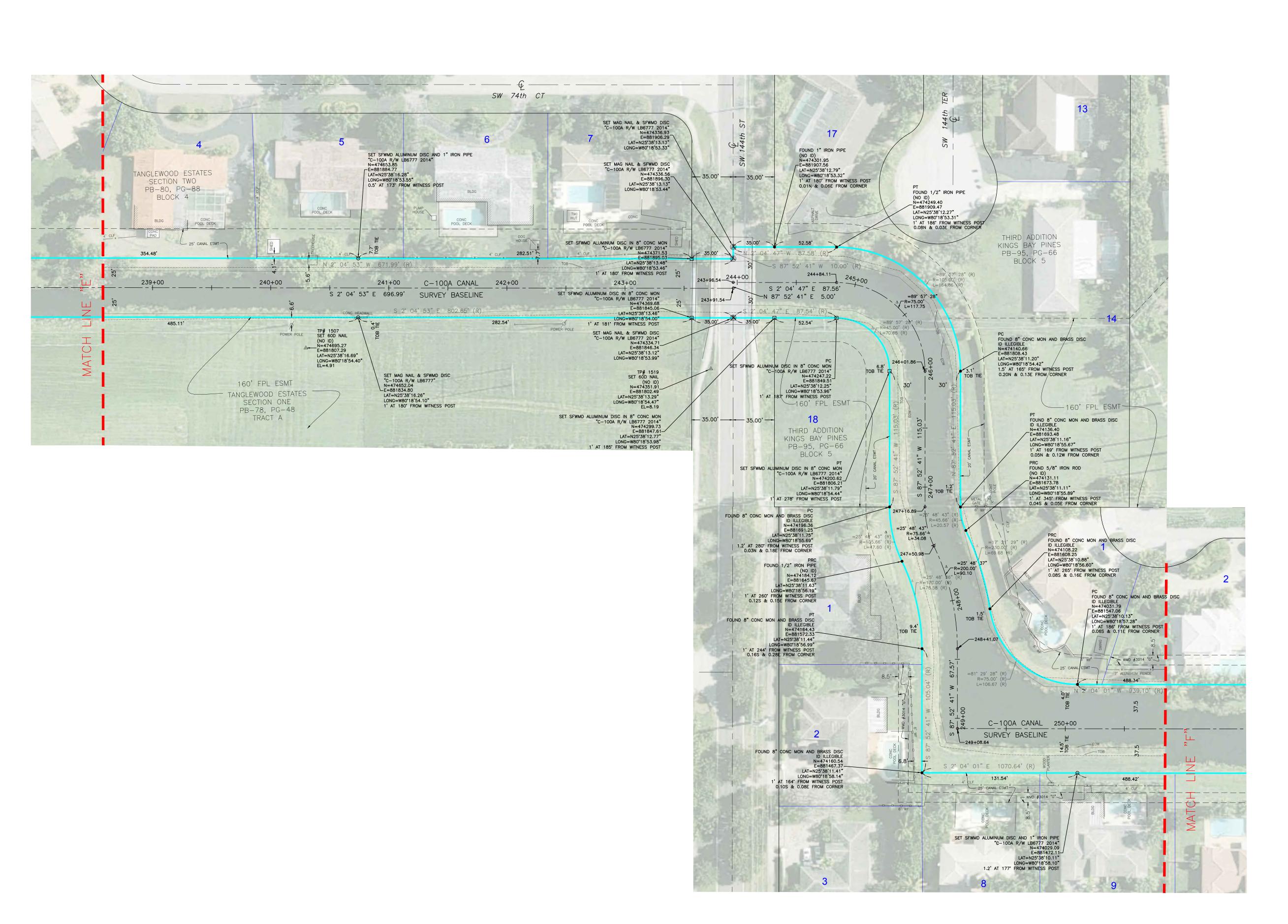
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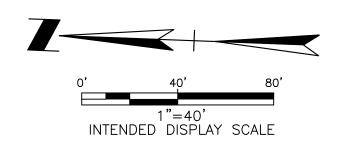


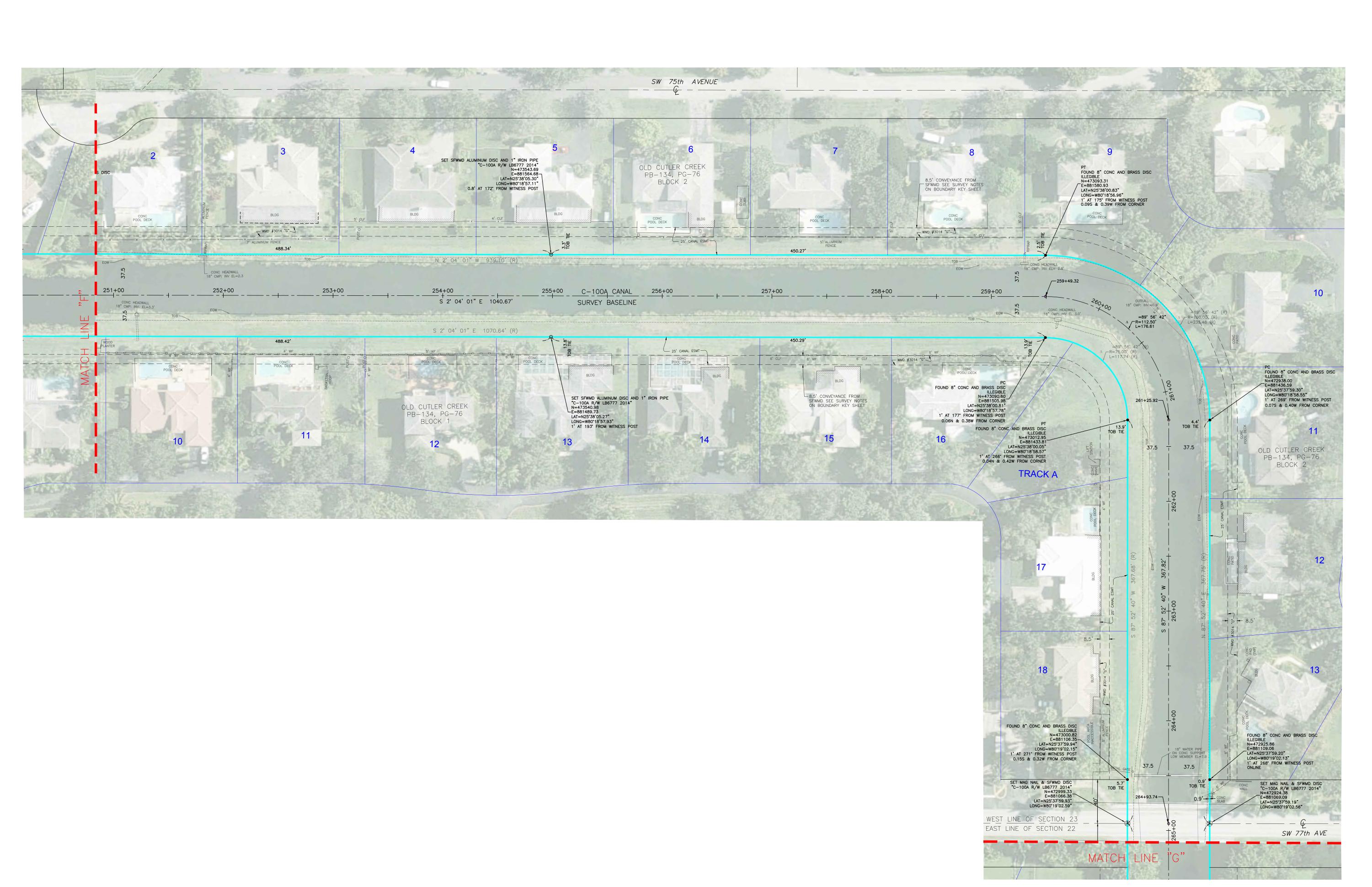
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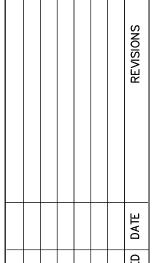
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A PORTION OF C-100A CANAL MIAMI, FLORIDA







DRAWN CHECKED DATE

INT DISTRICT

EY SECTION

MENT - SURVEY SECTION
UB ROAD

AND ACQUISITION DEPARTMENT — 3301 GUN CLUB ROAD WEST PALM BEACH, FLORIDA 334

NAJ HIJOO

5-23-14 5-23-14

DRAWN: JD, MR | CHECKED: JC FIELD PERSON(S): YN, DR FIELD DATE(S): 11-07-13 THROUGH 5-23-1 FIELD BOOK(S): 117 PAGE(S): 17,20-42,44,45,46-75,77-79

CANAL 100A
Boundary and Topographic Survey
Miami-Dade County, Florida
SECTION 22,23,27,& 34
TOWNSHIP 55 SOUTH

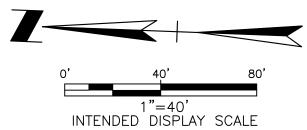
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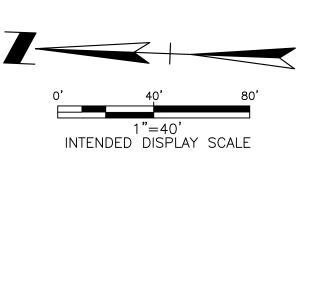
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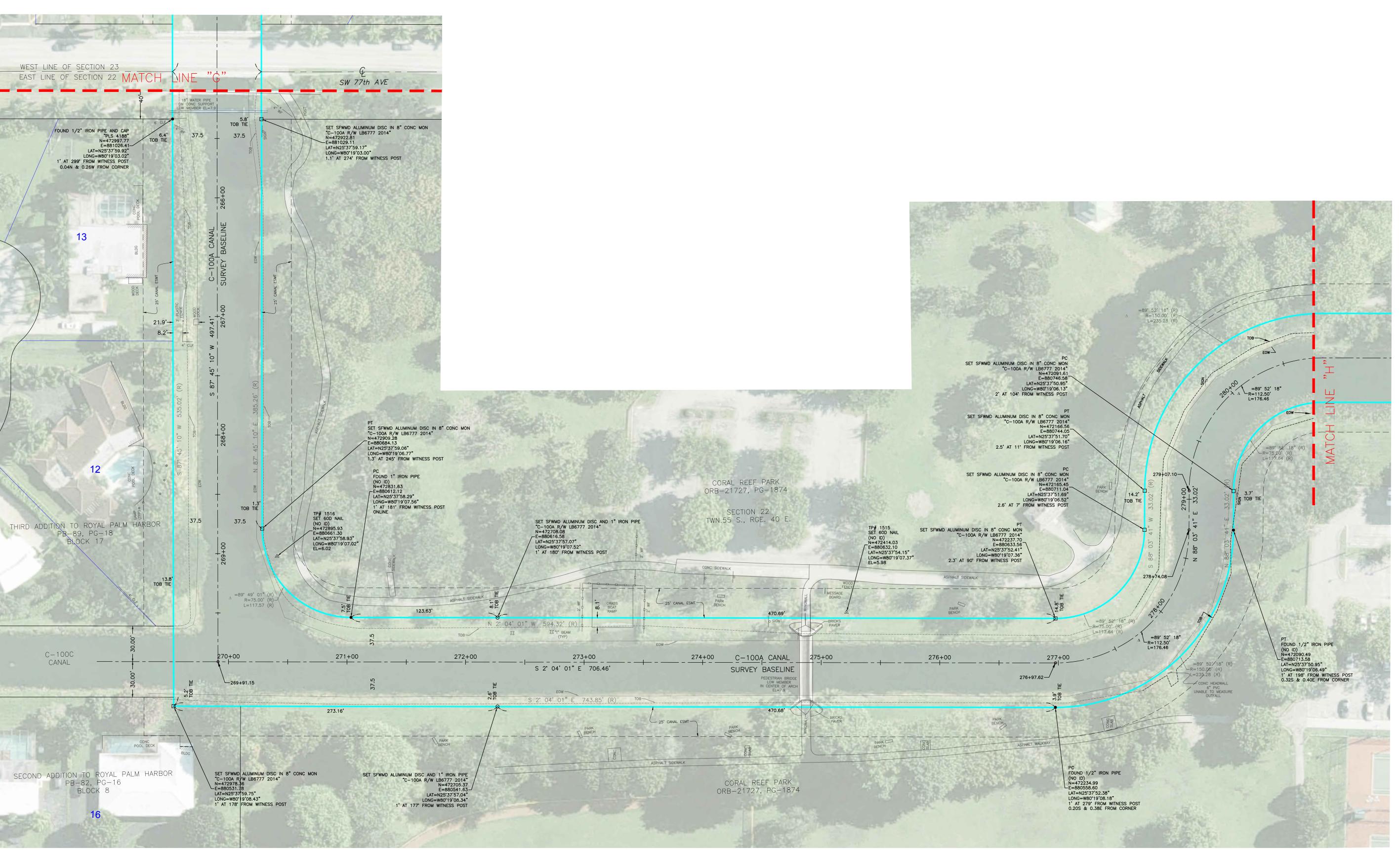
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A PORTION OF C-100A CANAL MIAMI, FLORIDA





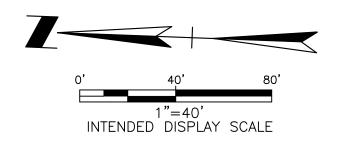


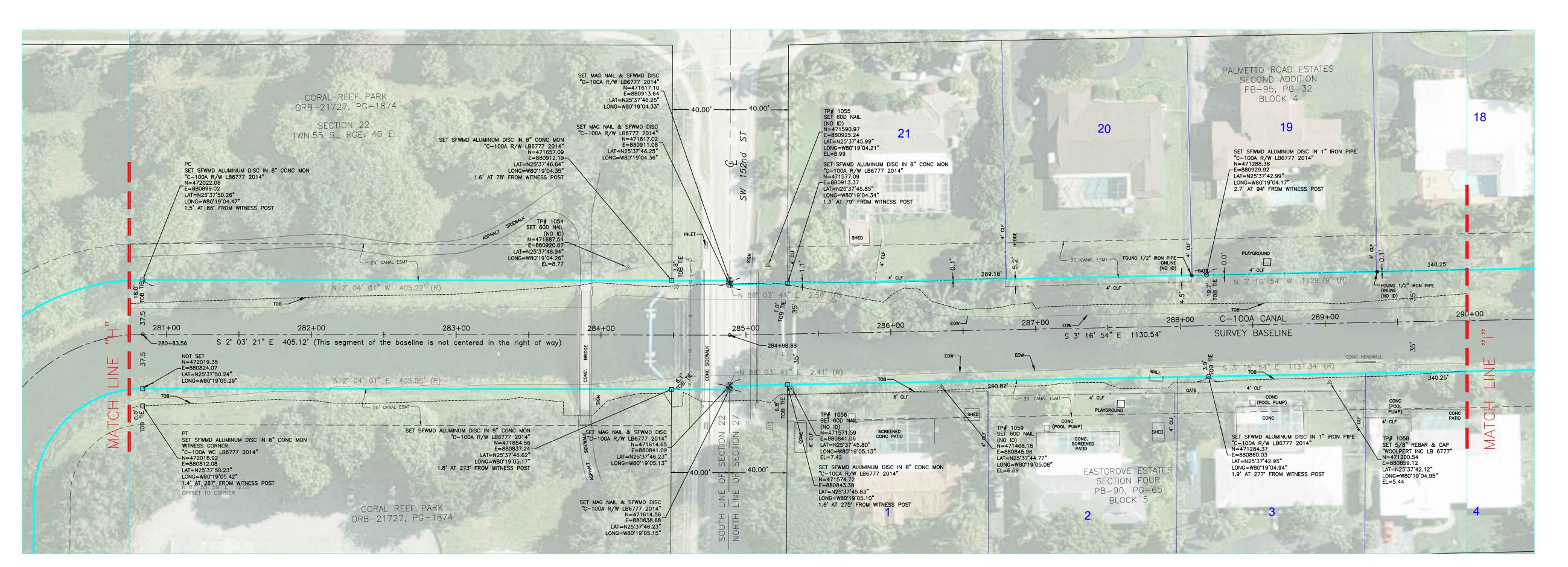
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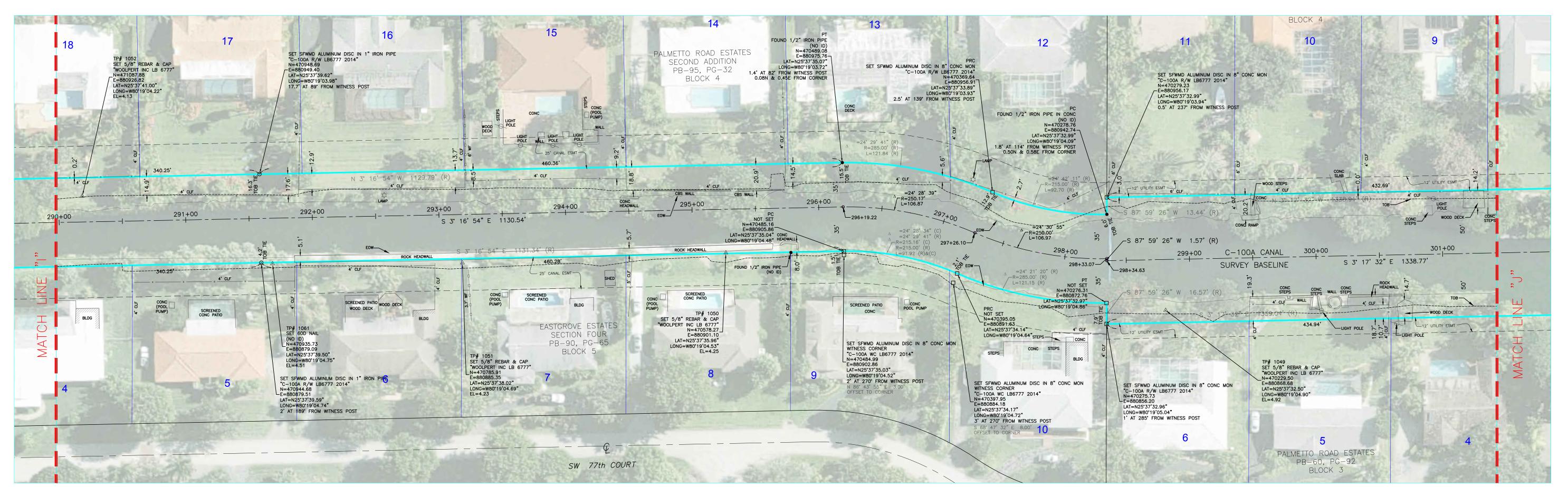
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MANAGEMENT I

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