

Corrective Action Plan - Version 2

Wagner Creek/Seybold Canal

Volume 3 — Drawings



ES0820090001KCV

ES08 20090001KCV

Submitted to
City of Miami



Project No. B-50643

August 2009

CH2MHILL
Constructors, Inc.

NW 7th Street

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Vol. 1 Appendix A-2	Historical Sediment Reports
Vol. 1 Appendix B	Structures Contingency Plan
Vol. 1 Appendix C	Health and Safety Plan
Vol. 1 Appendix D	Manatee Protection Plan
Vol. 1 Appendix E	Public Involvement Plan
Vol. 1 Appendix F	Risk Analysis
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Acronyms and Abbreviations

ADEM	Alabama Department of Environmental Management
BMP	Best Management Practice
BOS	Bottom of sediment
CAP	Corrective Action Plan
CFR	Code of Federal Regulations
COPC	Chemical of Potential Concern
DERM	Department of Environmental Resources Management
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FFWCC	Florida Fish and Wildlife Conservation Commission
FIND	Florida Inland Water District
FLPRO	Florida Petroleum Range Organics
FLUCCS	Florida Land Use and Cover Classification System
GIS	Geographic Information System
GSA	General Services Administration
HDD	Horizontal directional drill
LDPE	Low density polyethylene
MLLW	Mean lower low water
MOT	Maintenance of traffic
NOAA	National Oceanic and Atmospheric Administration
n.o.s.	Not otherwise specified
NTU	Nephelometric turbidity unit
OFW	Outstanding Florida Water
OS	Operational Section
PAH	Polycyclic aromatic hydrocarbon
PBS&J	Post, Buckley, Schuh & Jernigan
PCB	Polychlorinated biphenyls
POTW	Publicly Owned Treatment Works
ppb	Part per billion
QC	Quality control
QCR	Quality Control Report
ROW	Right-of-way
RTK	Real-Time Kinematic
SAP	Sampling and Analysis Plan
SFWMD	South Florida Water Management District
SOP	Standard Operating Procedure
SVOCs	Semi-volatile organic compounds
T&D	Transportation and Disposal
TEQ	Toxicity Equivalent
TEW	TEW Cardenas, LLP
USACE	U.S. Army Corps of Engineers
TCLP	Toxicity characteristic leaching procedure

TOS	Top of sediment
USFWS	U.S. Fish and Wildlife Service
VOC	Volatile organic compound
yd ³	Cubic yards
WRC	Water-tight roll-off container

Volume 3, Section 1

Full-Size Project Drawings

**Submitted in a Shipping Tube for Ease of
Reviewing in Full-Size Format.**

Volume 3, Section 2

Project Drawings, 8-1/2 x 11, No Background

N.W. 20th STREET
CONC. BRIDGE

SET X-CUT
N 531834.3680
E 912258.9420
ELEVATION 6.17

POB0+00.00

PI0+47.24

N.W. 15th AVENUE

PI1+68.91

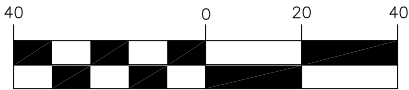
1+50

3+00

SEE SHEET 3

MATCHLINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

OPERATIONAL SECTION 1 SHEET 2 OF 23

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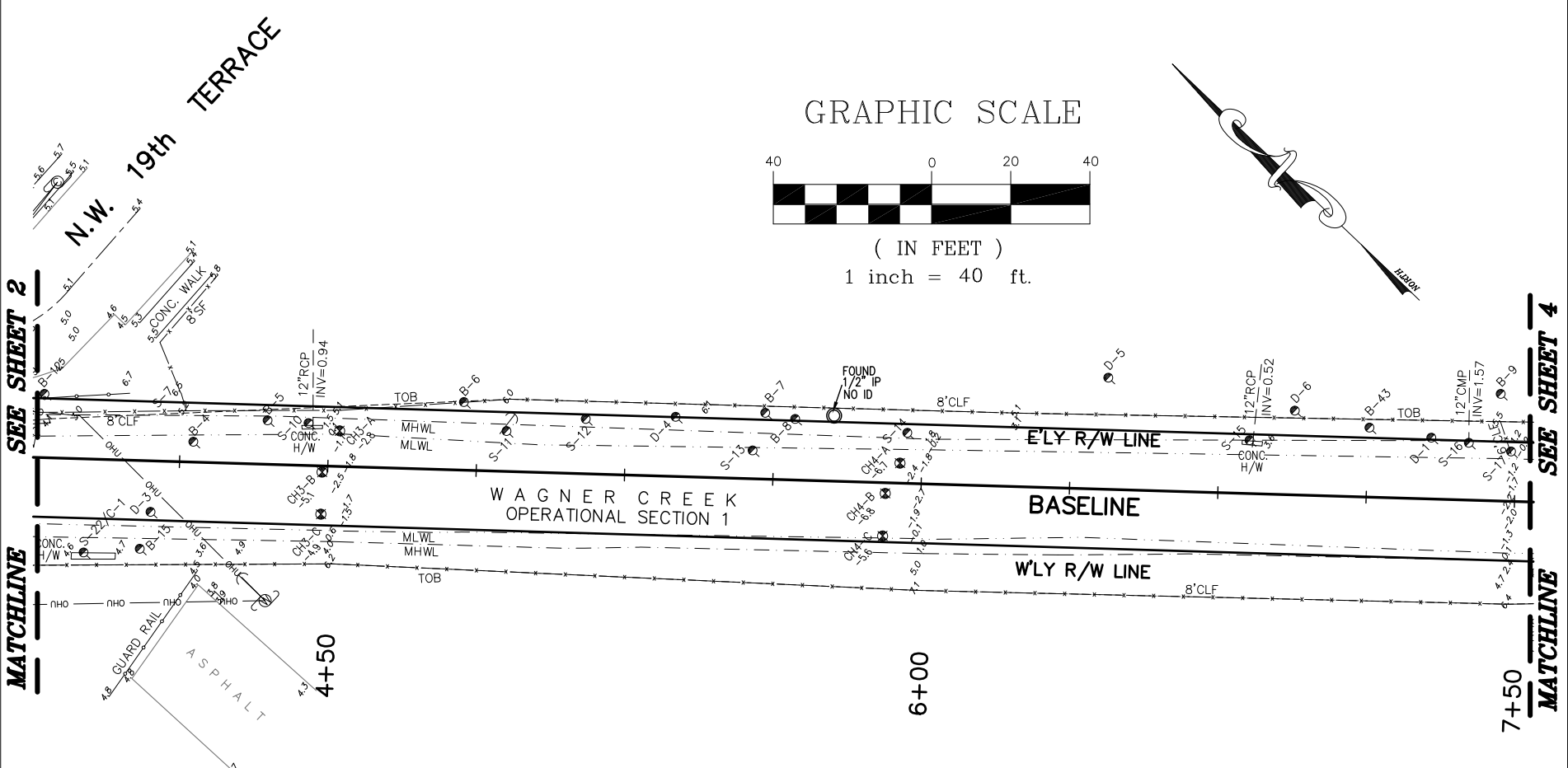
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MIAMI, FLORIDA



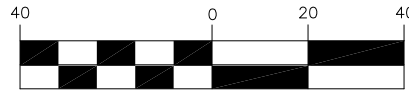
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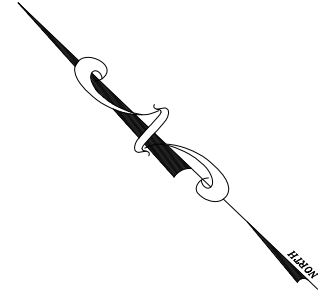


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MATCHLINE

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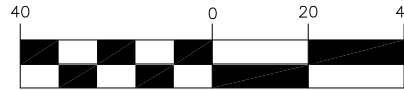


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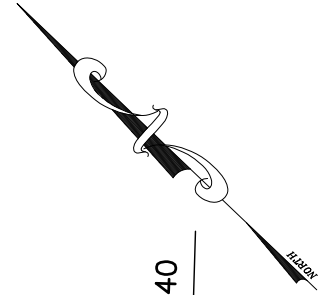
N.W. 19th STREET

GRAPHIC SCALE



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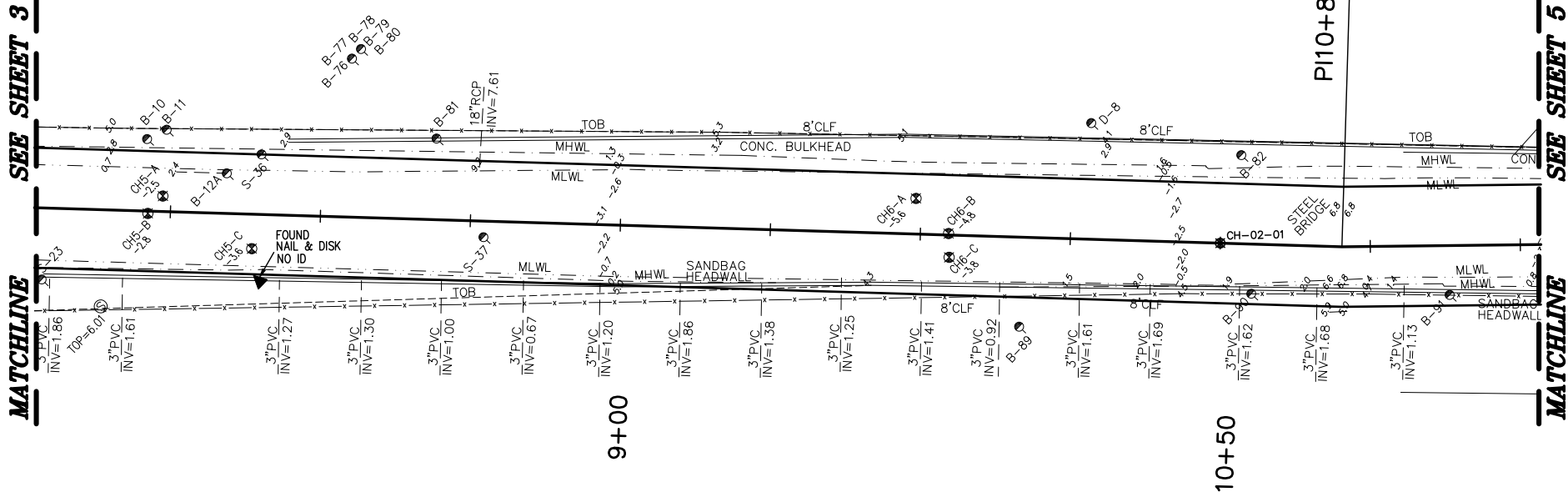
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MATCHLINE


PI10+80.40


9+00

10+50

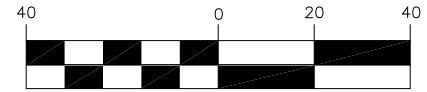


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1 inch = 40 ft.

SEE SHEET 4

SEE SHEET 6

MATCHLINE

MATCHLINE

N.W. 14th AVENUE

N.W. 18th STREET

N.W. 18th STREET

PI13+32.56

PI14+51.59

WAGNER CREEK OPERATIONAL SECTION 1

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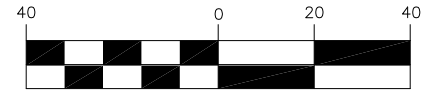


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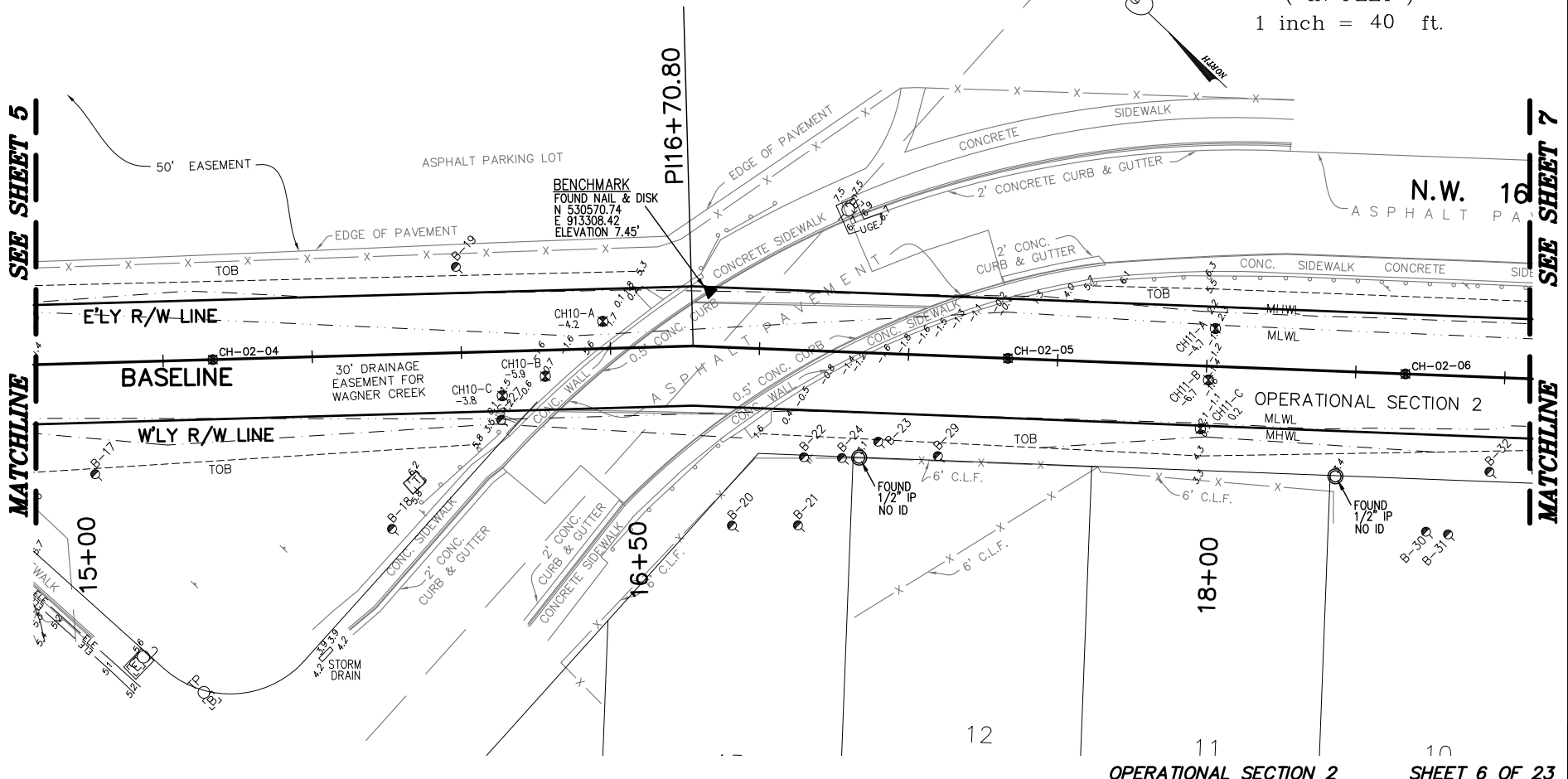
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 MIAMI-DADE COUNTY RECORDS

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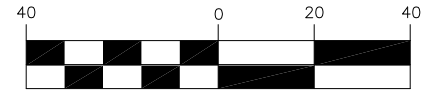


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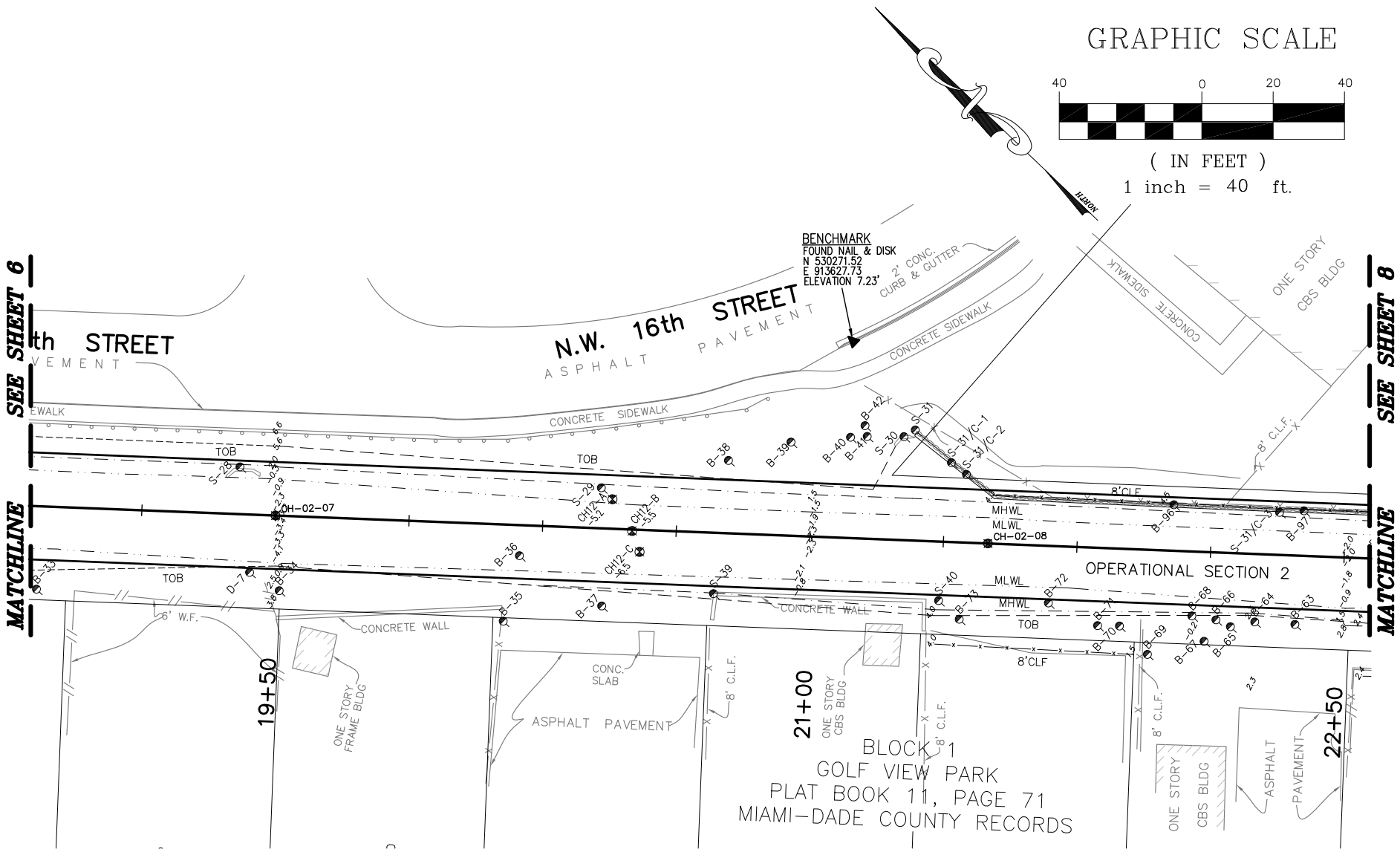
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SEE SHEET 8

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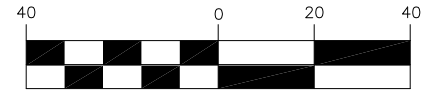


BLOCK 1
GOLF VIEW PARK
PLAT BOOK 11, PAGE 71
MIAMI-DADE COUNTY RECORDS

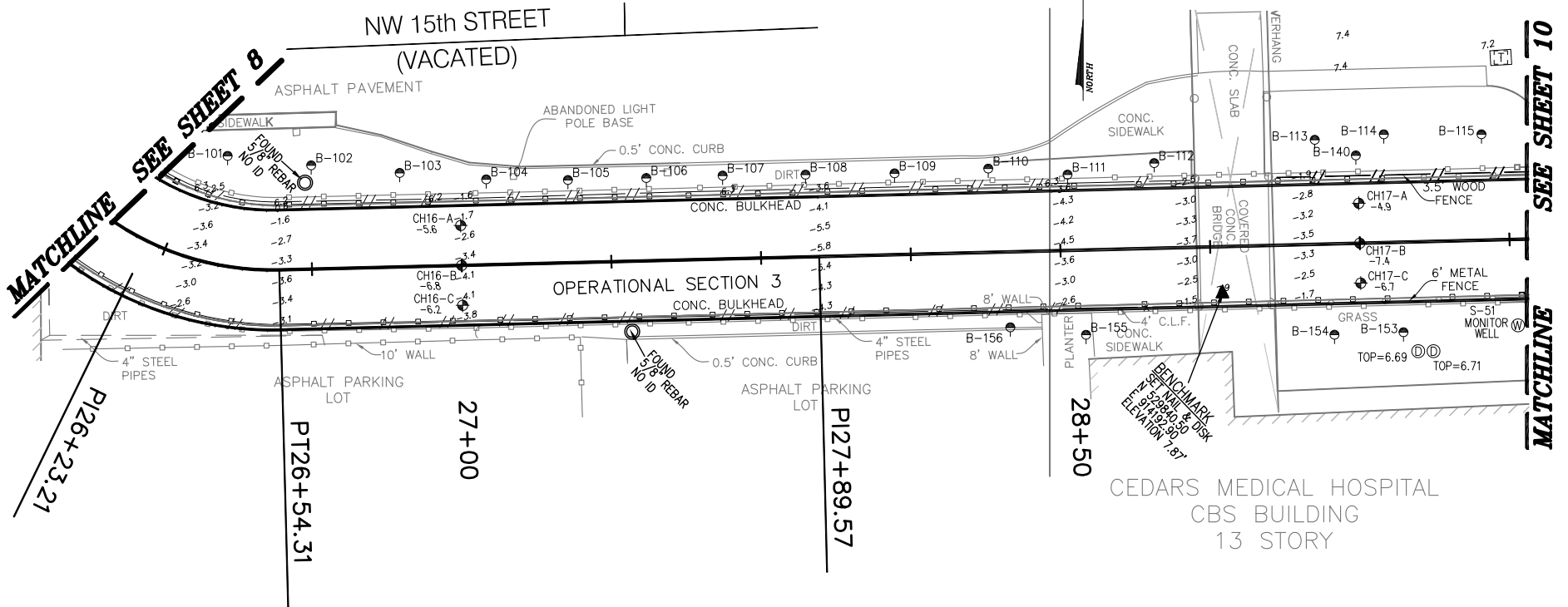
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



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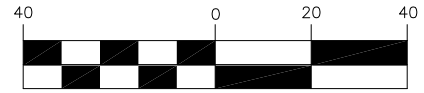
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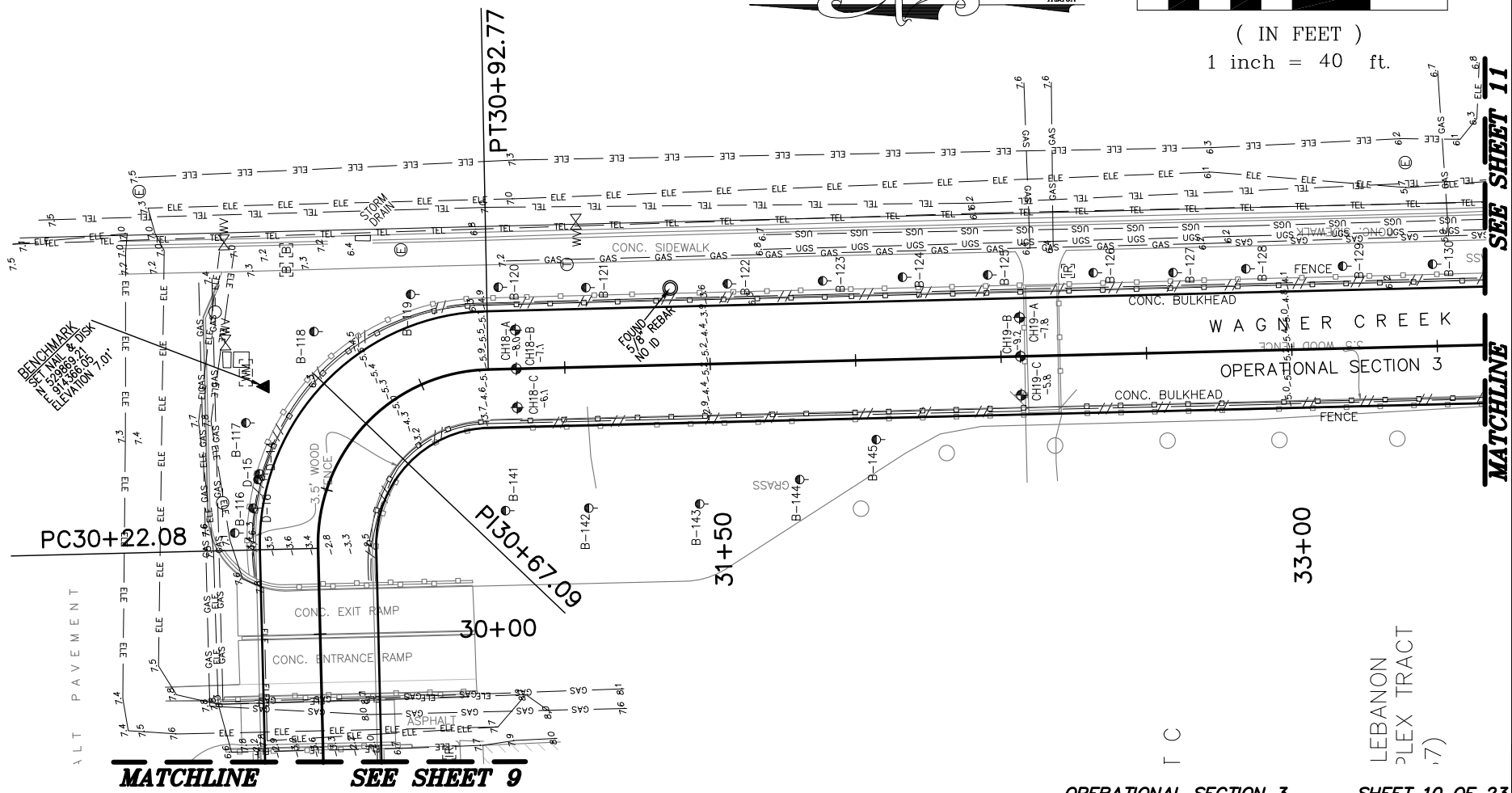
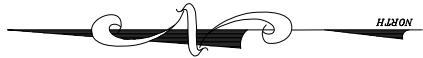
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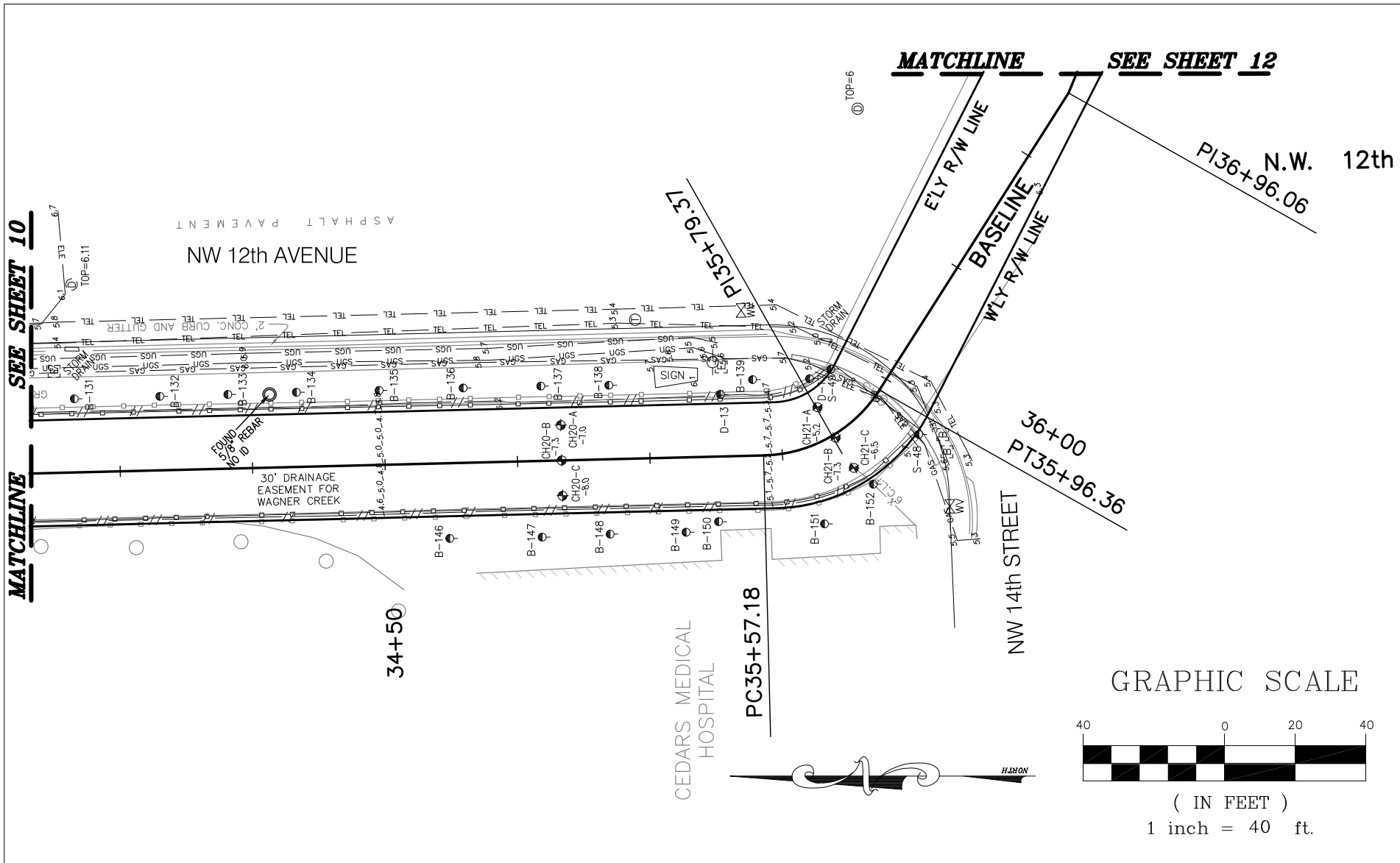


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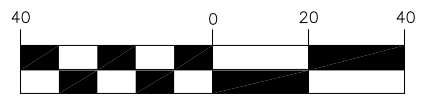
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



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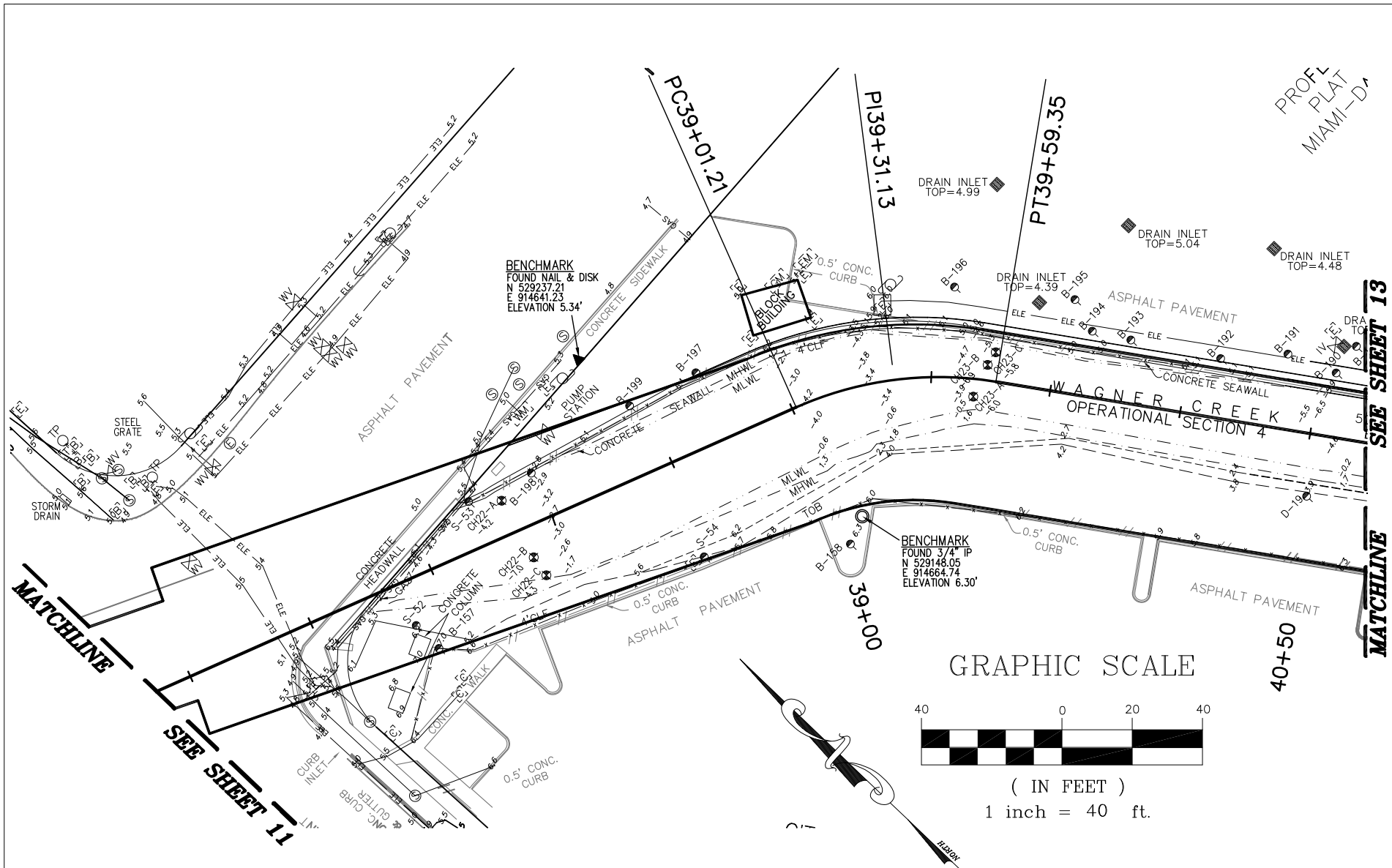
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SEE SHEET 13

MATCHLINE

EXPRESSWAY

45+00

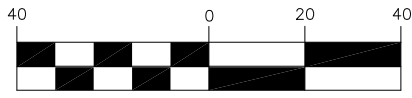
STATE ROAD

E'LY R/W LINE

BASELINE

W'LY R/W LINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

SET X-CUT
N 528679.359
E 915157.676
ELEVATION 5.12'

CONCRETE HEADWALL

PI46+51.76

46+50

10

PI47+28.22

9

PI48+19.8

ONE STORY BUILDING

48+00

8' EASEMENT

CONCRETE MHWL SEAWALL

WAGNER CREEK

CONCRETE PAVEMENT
0.5' CONC. CURB

SEE SHEET 15

MATCHLINE

DADE COUNTY TO CITY OF MIAMI
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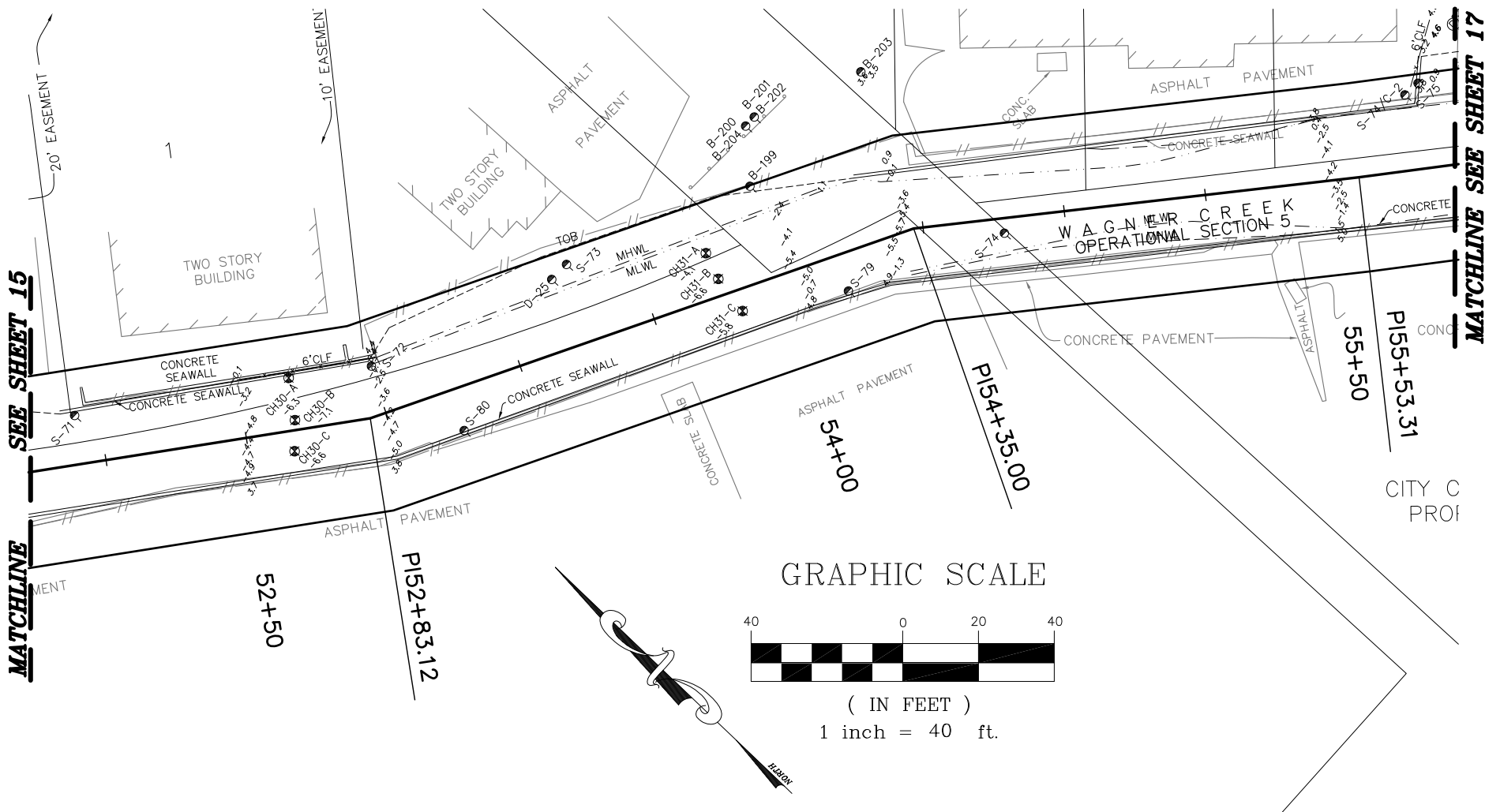
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ARC SURVEYING & MAPPING, INC.

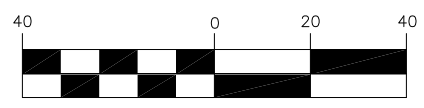


5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

OPERATIONAL SECTION 5 SHEET 16 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

CERTIFICATION:
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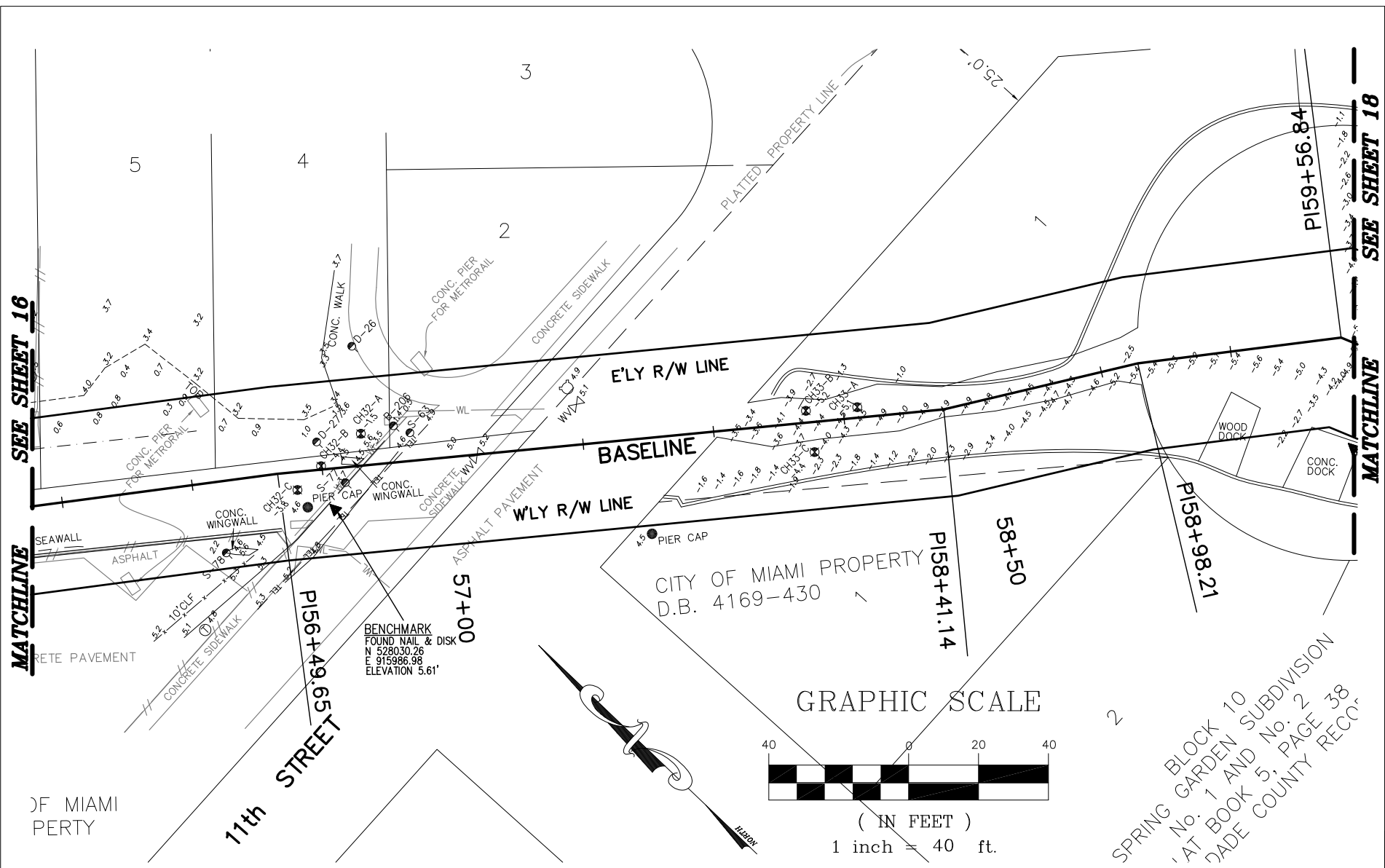
MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE. NO. 6438

ARC SURVEYING & MAPPING, INC.



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SEE SHEET 16

SEE SHEET 18

MATCHLINE

MATCHLINE

OPERATIONAL SECTION 5 SHEET 17 OF 23




DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
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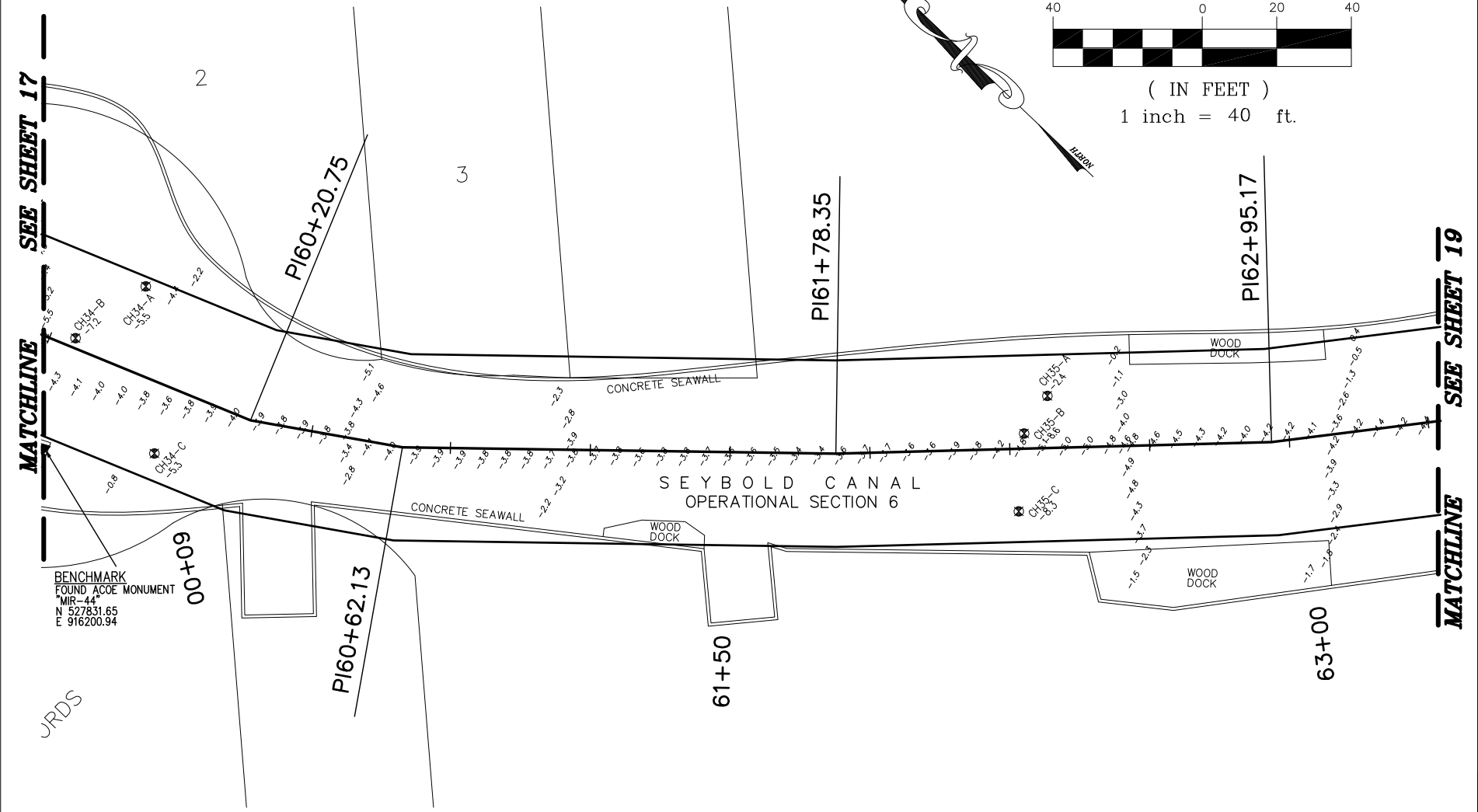
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ARC SURVEYING & MAPPING, INC.

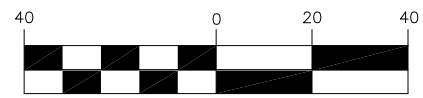


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JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

SEE SHEET 17



SEE SHEET 19

MATCHLINE

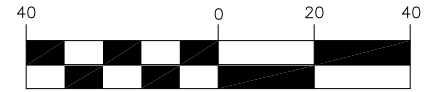
MATCHLINE

BENCHMARK
FOUND ACOE MONUMENT
"MIR-44"
N 527831.65
E 916200.94

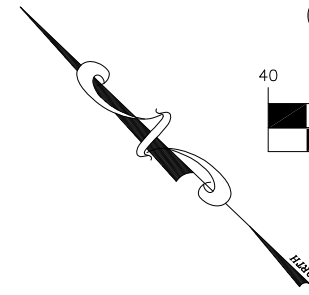
OPERATIONAL SECTION 6 SHEET 18 OF 23

	<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>	<p>CERTIFICATION:</p> <p>I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.</p>	 <p>ARC SURVEYING & MAPPING, INC.</p> <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p>							
	<p>MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438</p>			<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">DRAWN BY:</td> <td style="width: 25%;">DATE:</td> <td style="width: 25%;">FIELD BOOK & PAGE</td> <td style="width: 25%;">JOB NO.</td> </tr> <tr> <td style="text-align: center;">JKM</td> <td style="text-align: center;">11-14-08</td> <td style="text-align: center;">08-08/08-09</td> <td style="text-align: center;">07-10-07</td> </tr> </table>	DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.							
JKM	11-14-08	08-08/08-09	07-10-07							

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

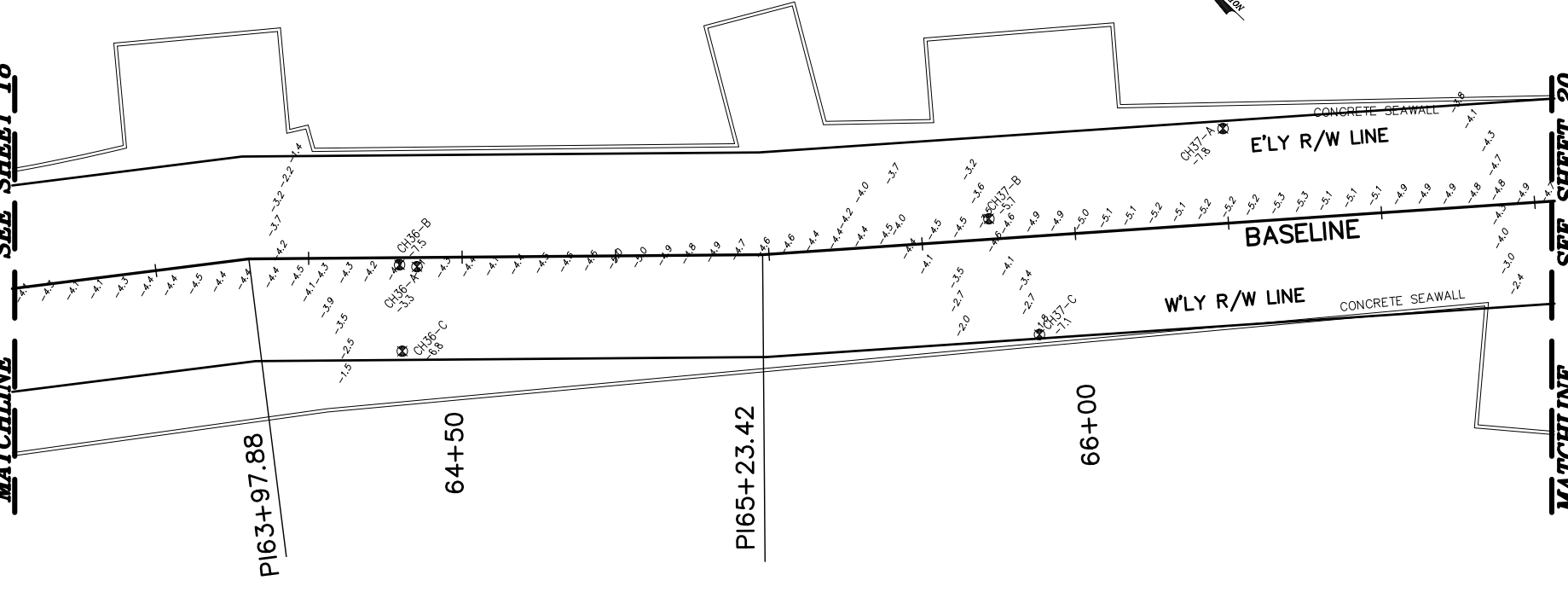


SEE SHEET 18

MATCHLINE

SEE SHEET 20

MATCHLINE



OPERATIONAL SECTION 6 SHEET 19 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

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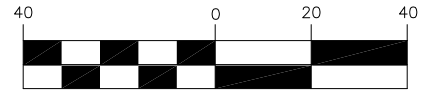
MITCHELL R. JARRELLS
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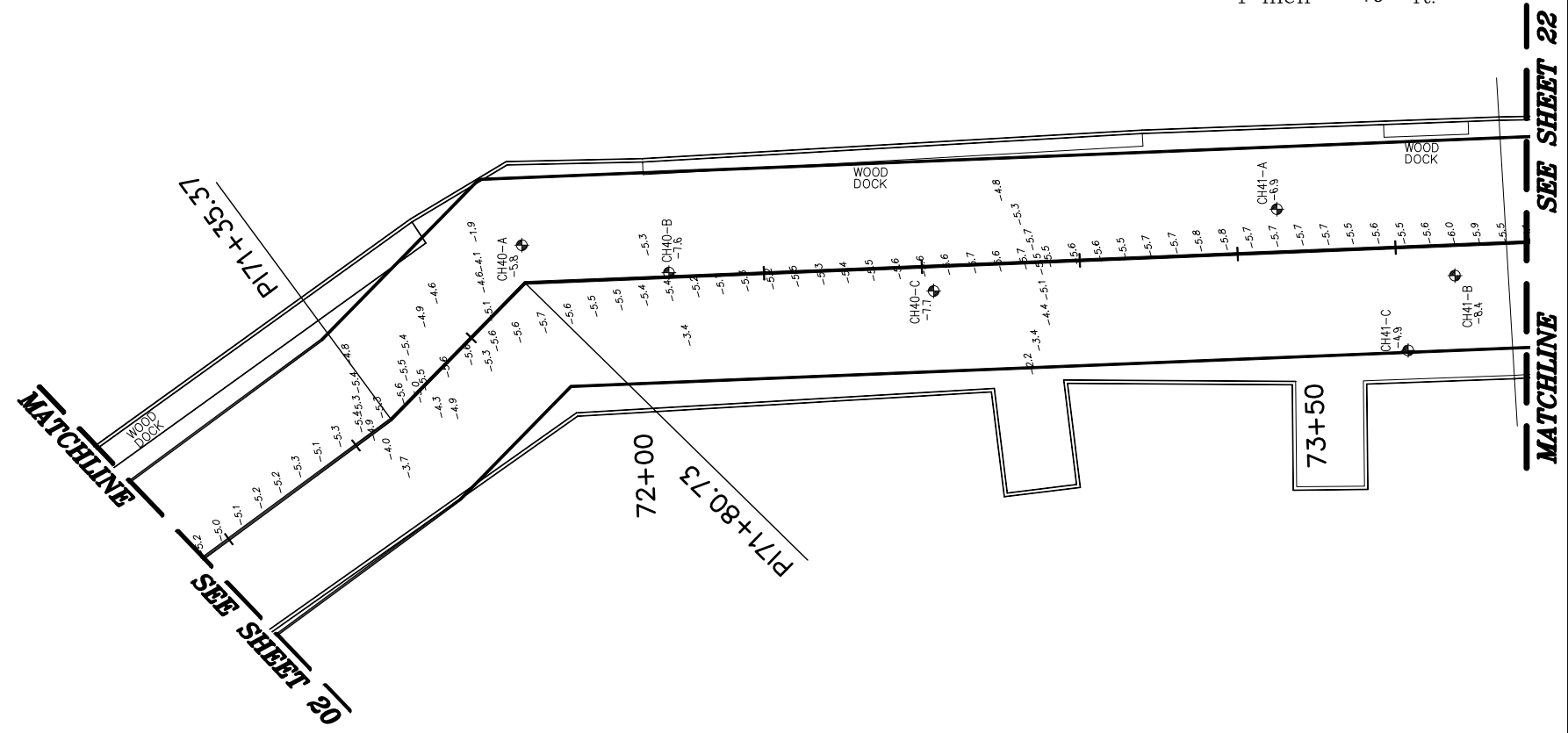
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LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



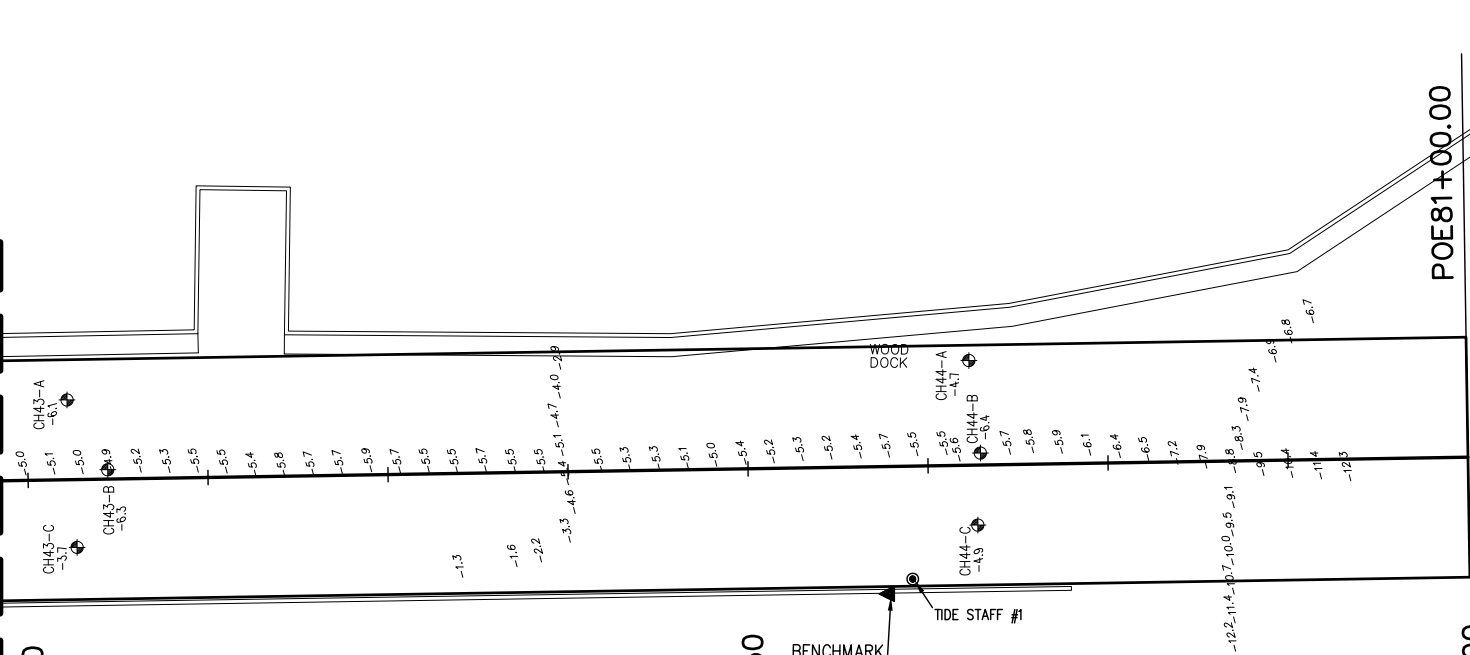
(IN FEET)
1 inch = 40 ft.



OPERATIONAL SECTION 6 SHEET 21 OF 23

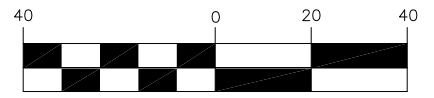
	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.		ARC SURVEYING & MAPPING, INC. 5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487		
	MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438			DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE: 08-08/08-09

MATCHLINE SEE SHEET 22





79+50
 BENCHMARK
 FOUND DISK "MS-2"
 S.F.W.M.D.
 N 526147.724
 E 917018.895
 ELEVATION 6.63'

GRAPHIC SCALE



(IN FEET)
 1 inch = 40 ft.

OPERATIONAL SECTION 6 SHEET 23 OF 23

	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	 5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
	MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438	DRAWN BY: JKM DATE: 11-14-08 FIELD BOOK & PAGE: 08-08/08-09 JOB NO.: 07-10-07	

Volume 3, Section 3

Project Drawings, 8-1/2 x 11, Hatched Aerial

Limits

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA FOR: CH2MHILL



VICINITY MAP
NOT TO SCALE

- OPERATIONAL SECTION 1
SHEETS 2-5
- OPERATIONAL SECTION 2
SHEETS 5-7
- OPERATIONAL SECTION 3
SHEETS 7-11
- OPERATIONAL SECTION 4
SHEETS 11-13
- OPERATIONAL SECTION 5
SHEETS 13-17
- OPERATIONAL SECTION 6
SHEETS 17-23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
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LEGEND/ABBREVIATIONS

☐	TRAFFIC CONTROL BOX	0-10	DEBRIS LOCATION
☐	CABLE BOX	5-10	STRUCTURE LOCATION
☐	TELEPHONE BOX	CH	CORE SAMPLE LOCATION
☐	ELECTRIC BOX	—GAS—	GAS UTILITY LINE
☐	TELEPHONE MANHOLE	—E—	ELECTRIC UTILITY LINE
☐	ELECTRIC HAND HOLE	—EL—	TELEPHONE UTILITY LINE
☐	DRAINAGE MANHOLE	—OU—	OVERHEAD UTILITY LINE
☐	SANITARY HANDHOLD	—US—	UNDERGROUND STREET LIGHT LINE
☐	SPRINKLER	IP	IRON PIPE
☐	SECURITY CAMERA	ID	IDENTIFICATION
☐	CONTROL VALVE	IR	IRON ROD
☐	WATER VALVE	SP	SEWER PIPE
☐	WATER METER	TOB	TOP OF BANK
☐	ELECTRIC METER	CLF	CHAIN LINK FENCE
☐	FIRE HYDRANT	RCP	REINFORCED CONCRETE PIPE
☐	3" PVC PIPE	CMP	CORRUGATED METAL PIPE
☐	SIGN	PVC	POLY VINYL CHLORIDE
☐	LIGHT POLE	M/H	MAN HOLE
☐	WOOD UTILITY POLE	H/W	HEAD WALL
☐	CONCRETE UTILITY POLE	R/W	RIGHT OF WAY
☐	GUY ANCHOR	INV	INVERT
☐	BIOLOGICAL LOCATION	M.E.S.	MITERED END SECTION
☐	CRACK LOCATION	CONC.	CONCRETE
☐		MON.	MONUMENT

SURVEY NOTES:

1. ALL DIMENSIONS SHOWN HEREON ARE IN FEET AND IN TENTHS AND ARE BASED ON THE U.S. SURVEY FOOT
2. ABOVE GROUND EVIDENCE OF UNDERGROUND FEATURES (I.E. UTILITIES TANKS, RAILROAD TRACKS, ETC.) ARE SHOWN HEREON. UNDERGROUND UTILITIES ARE SHOWN AS MARKED BY SHINSHINE STATE ONE CALL UTILITY LOCATING SERVICE.
3. PARCEL BOUNDARY LOCATIONS AND SOME MINOR PLANIMETRIC INFORMATION WAS OBTAINED FROM A PREVIOUS SURVEY BY WEIDENER SURVEYING AND MAPPING, DATED: JUNE 12, 2002.
4. SURVEYS FIELD DATA WAS OBTAINED FROM JUNE 23, 2008 THRU JULY 17, 2008.
5. BACKGROUND IMAGERY WAS OBTAINED FROM GOOGLE EARTH AND IS FOR REFERENCE PURPOSES ONLY.
6. BATHYMETRIC DATA WAS OBTAINED WITH A RESON 210 ECHO SOUNDER. POSITIONAL DATA WAS OBTAINED WITH A TRIMBLE 5800 REAL TIME KINEMATIC GPS SURVEYING SYSTEM.
7. COORDINATES SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE., AND ARE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
8. ELEVATIONS SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE., HAVING AN ELEVATION OF 5.37 FEET, AND IS REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
9. THE BIOLOGICAL LOCATIONS, CRACK LOCATIONS, DEBRIS LOCATIONS, AND STRUCTURE LOCATIONS SHOWN ON THIS SURVEY WERE IDENTIFIED BY THE ENVIRONMENTAL CONSULTING FIRM OF MILIAN, SWAIN & ASSOCIATES, 2257 VISTA PARKWAY, SUITE #19, WEST PALM BEACH, FLORIDA, 33411. INFORMATION REQUESTS IN REGARD TO THESE LOCATIONS SHOULD BE DIRECTED TO MILIAN, SWAIN & ASSOCIATES.
10. THE PROPOSED DREDGE OUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.
11. WAGNER CREEK AND SEYBOLD CANAL ARE TIDAL WATERS AND THEREFORE TITLE TO THE LANDS BELOW THE MEAN HIGH WATER LINE, ELEVATION 1.88 NGVD29, IS VESTED IN THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA.

ARC SURVEYING & MAPPING, INC.



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JKM	11-14-08	08-08/08-09	07-10-07

N.W. 20th STREET
CONC. BRIDGE

SET X-CUT
N 531834.3680
E 912258.9420
ELEVATION 6.17

POB0+00.00

PI0+47.24

N.W. 15th AVENUE

PI1+68.91

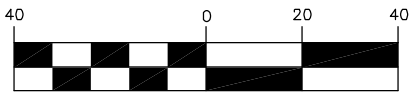
1+50

3+00

SEE SHEET 3

MATCHLINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA

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OPERATIONAL SECTION 1

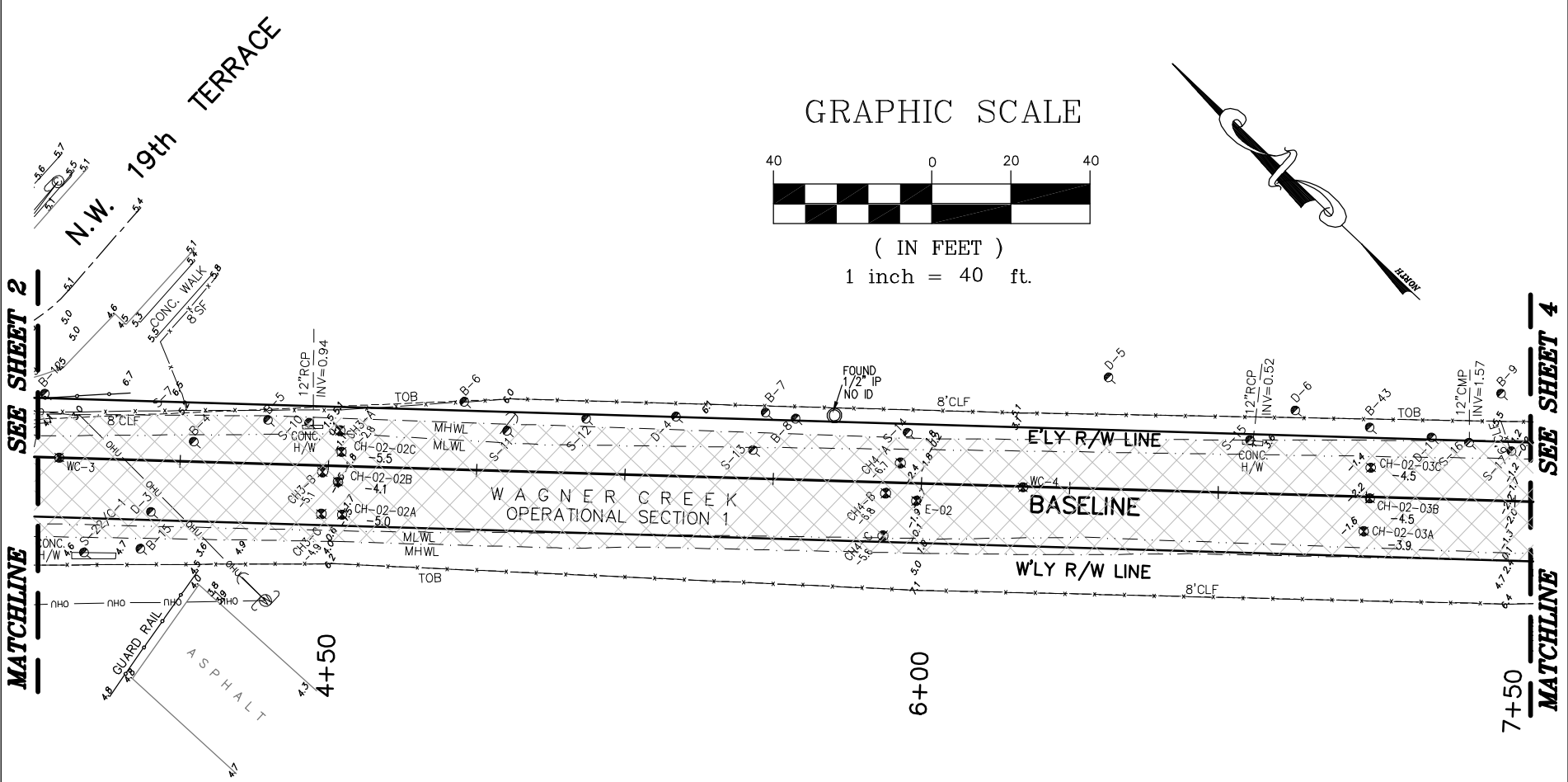
SHEET 2 OF 23

ARC SURVEYING & MAPPING, INC.

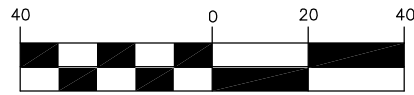


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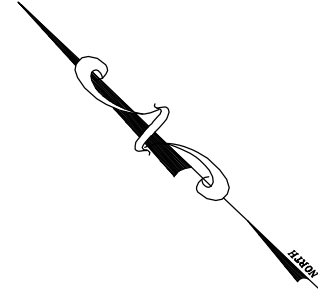
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07




GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



OPERATIONAL SECTION 1 SHEET 3 OF 23


DENOTES DREDGE LIMITS



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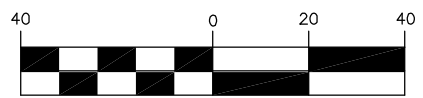


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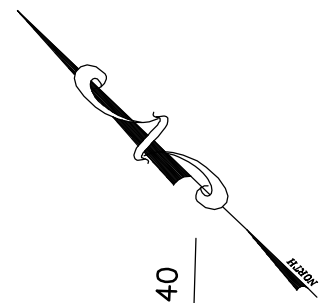
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

N.W. 19th STREET

GRAPHIC SCALE



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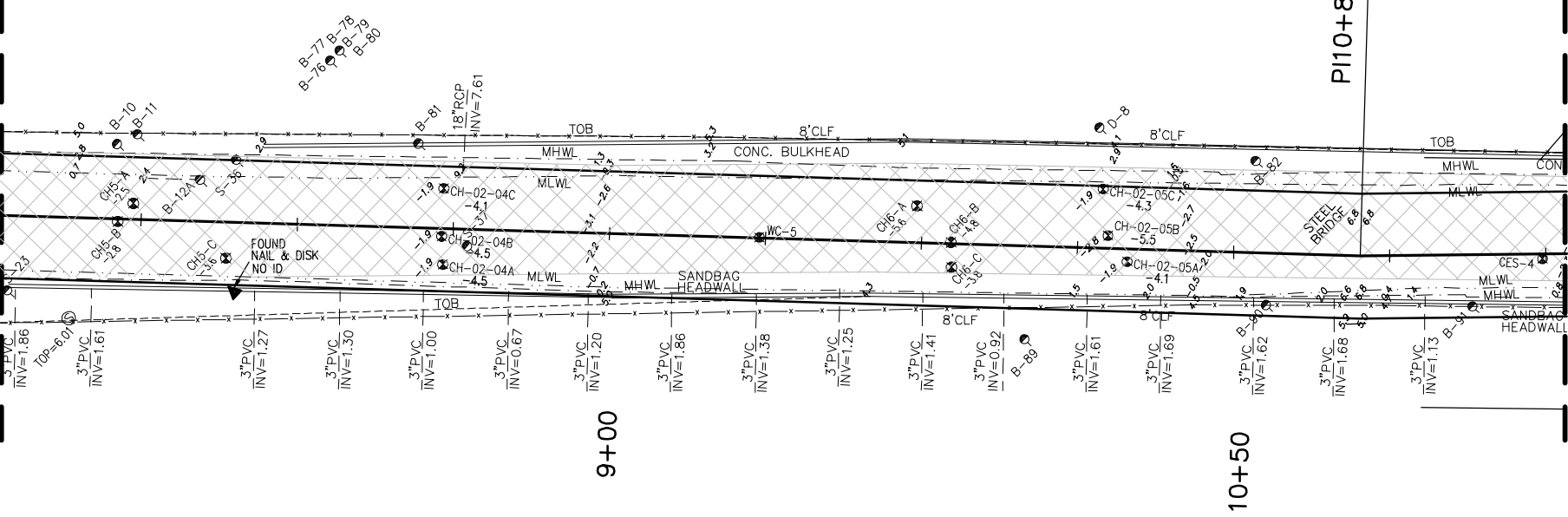


SEE SHEET 3

SEE SHEET 5

MATCHLINE

MATCHLINE



P110+80.40

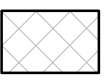
OPERATIONAL SECTION 1 SHEET 4 OF 23

ARC SURVEYING & MAPPING, INC.



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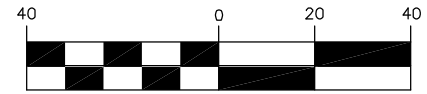


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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

SEE SHEET 4

SEE SHEET 6

MATCHLINE

MATCHLINE

N.W. 14th AVENUE

N.W. 18th STREET

N.W. 18th STREET

PI13+32.56

PI14+51.59

WAGNER CREEK
OPERATIONAL SECTION 1

OPERATIONAL SECTION 1 & 2 SHEET 5 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

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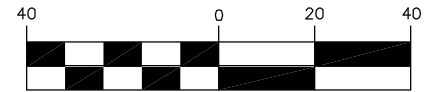


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DADE COUNTY TO US GOVERNMENT
 OFFICIAL RECORDS BOOK 2612, PAGES 455 & 456
 MIAMI-DADE COUNTY RECORDS

GRAPHIC SCALE



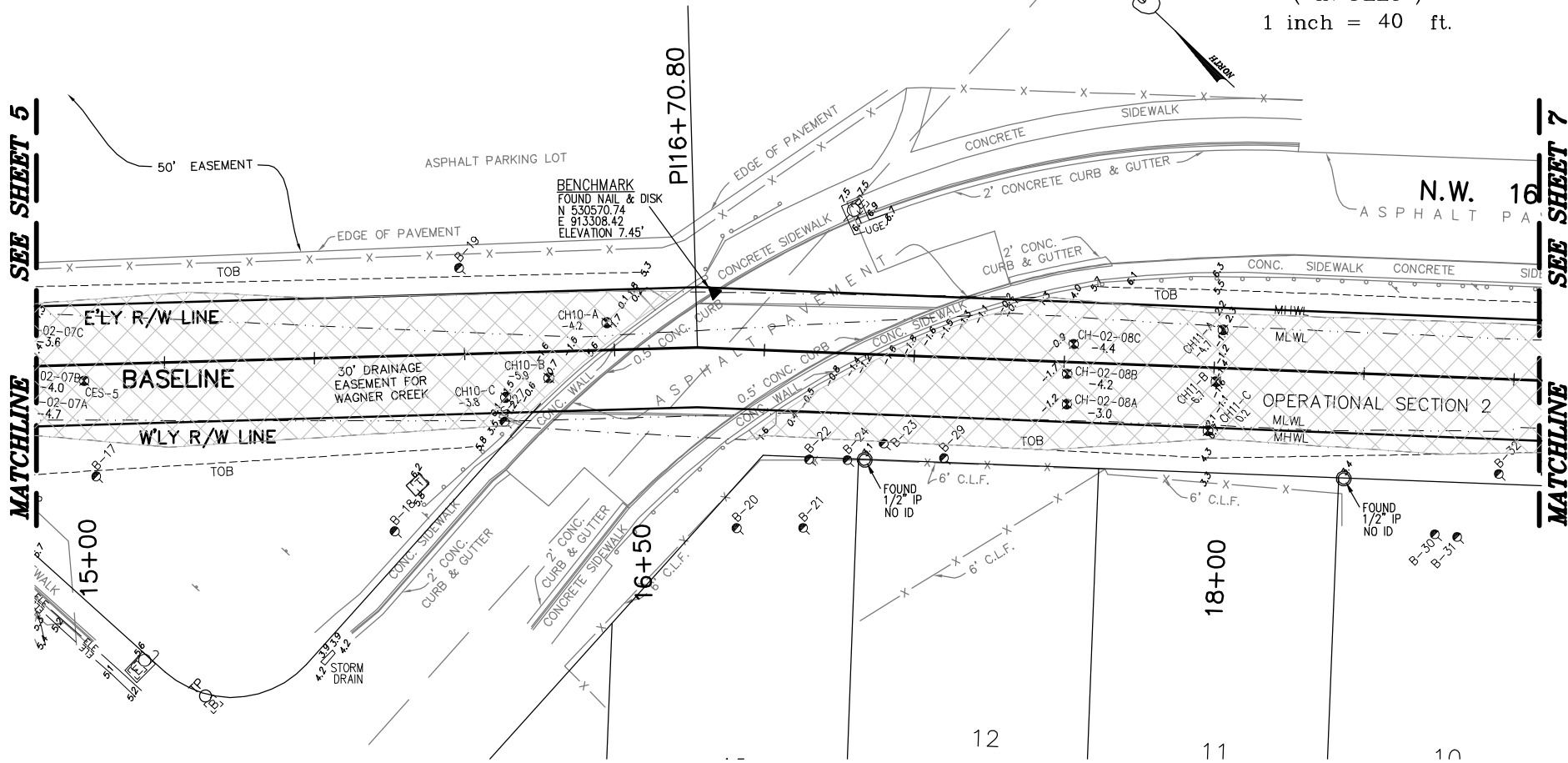
(IN FEET)
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SEE SHEET 5

SEE SHEET 7

MATCHLINE

MATCHLINE



OPERATIONAL SECTION 2 SHEET 6 OF 23



DENOTES DREDGE LIMITS



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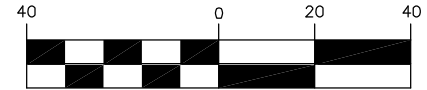
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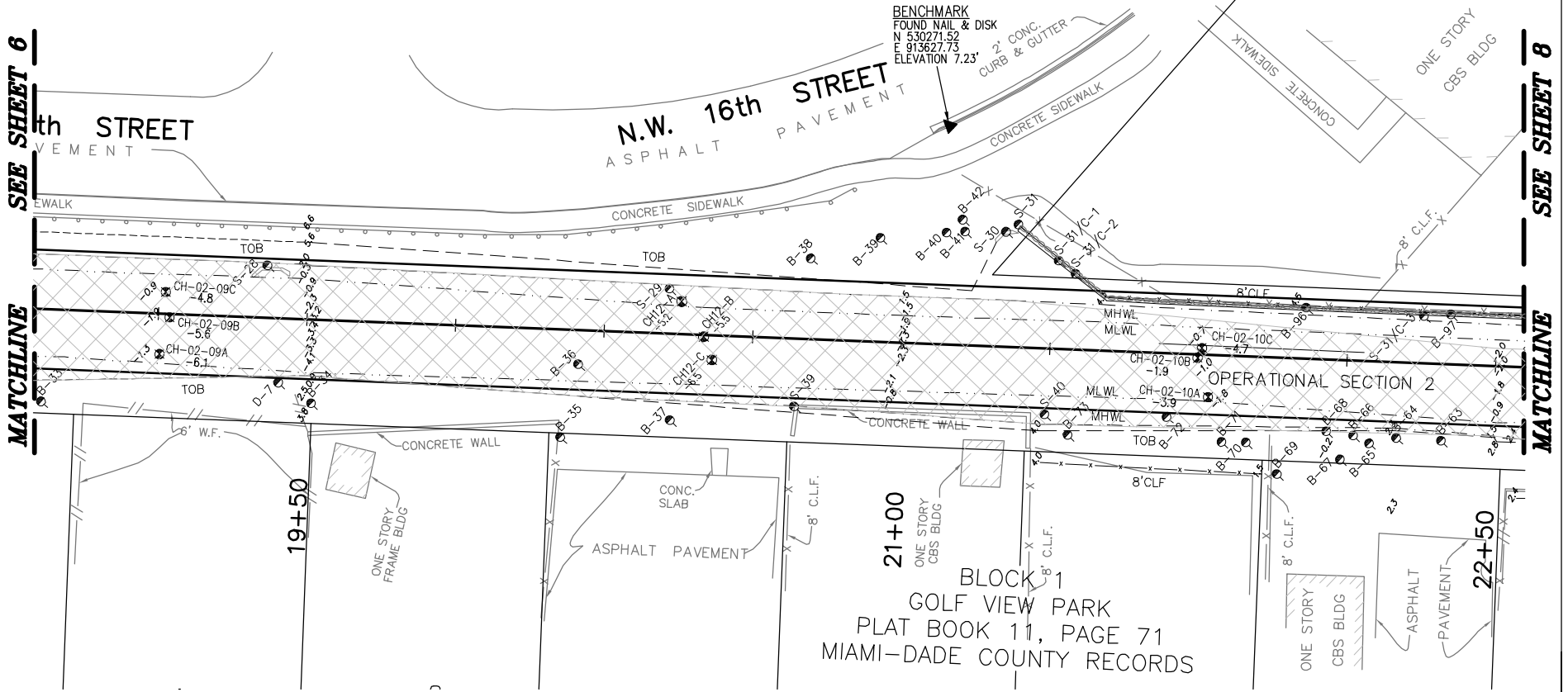
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SEE SHEET 6

MATCHLINE

SEE SHEET 8

MATCHLINE



BLOCK 1
GOLF VIEW PARK
PLAT BOOK 11, PAGE 71
MIAMI-DADE COUNTY RECORDS

OPERATIONAL SECTION 2 SHEET 7 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

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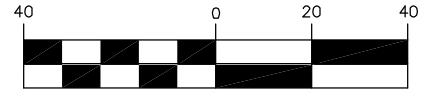
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

GRAPHIC SCALE

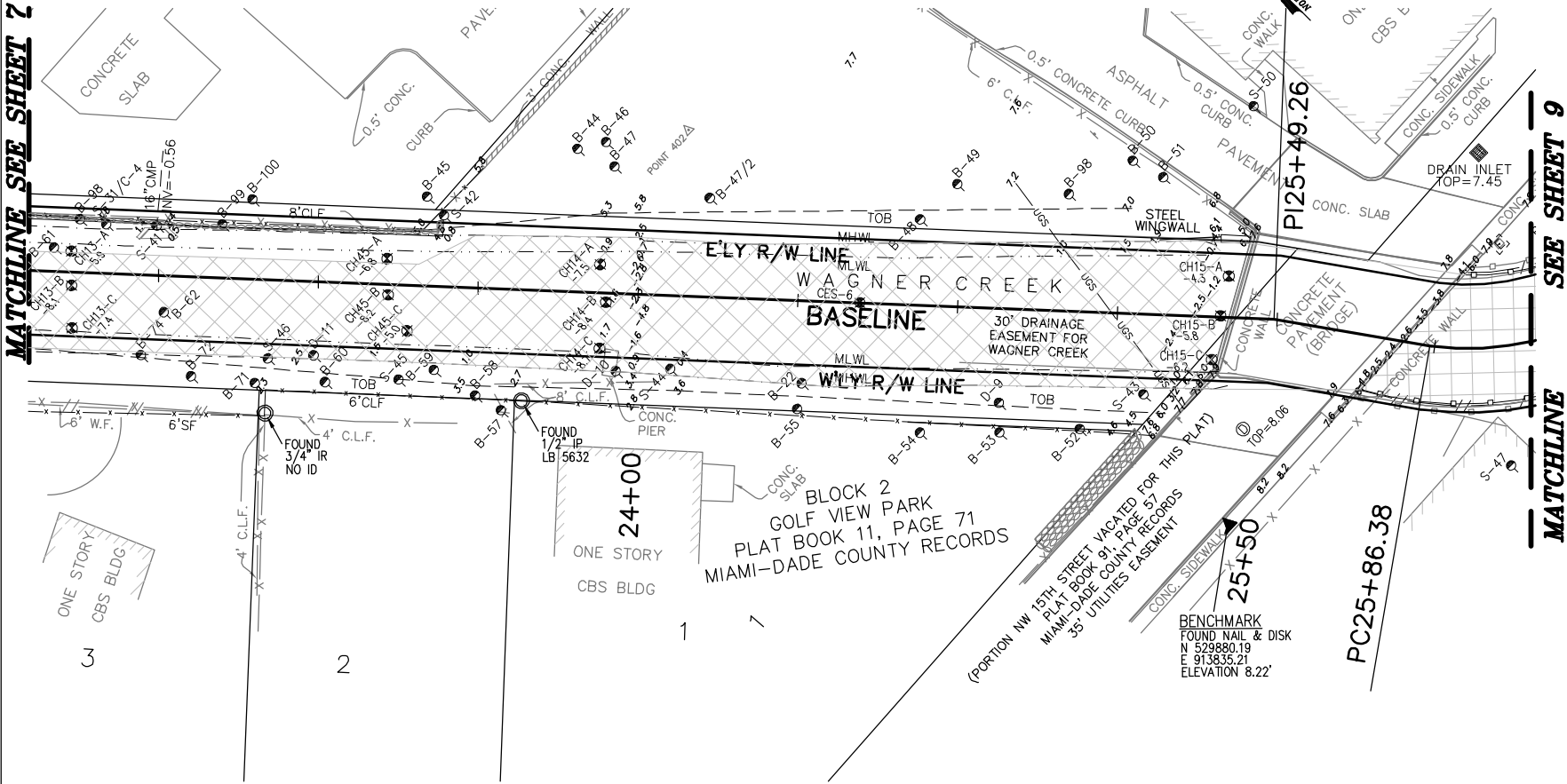


(IN FEET)
1 inch = 40 ft.


MATCHLINE SEE SHEET 7

SEE SHEET 9

MATCHLINE



OPERATIONAL SECTION 2 & 3 SHEET 8 OF 23

 DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

CERTIFICATION:
I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.

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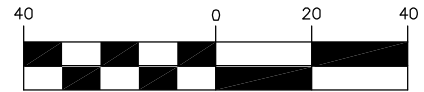
ARC SURVEYING & MAPPING, INC.



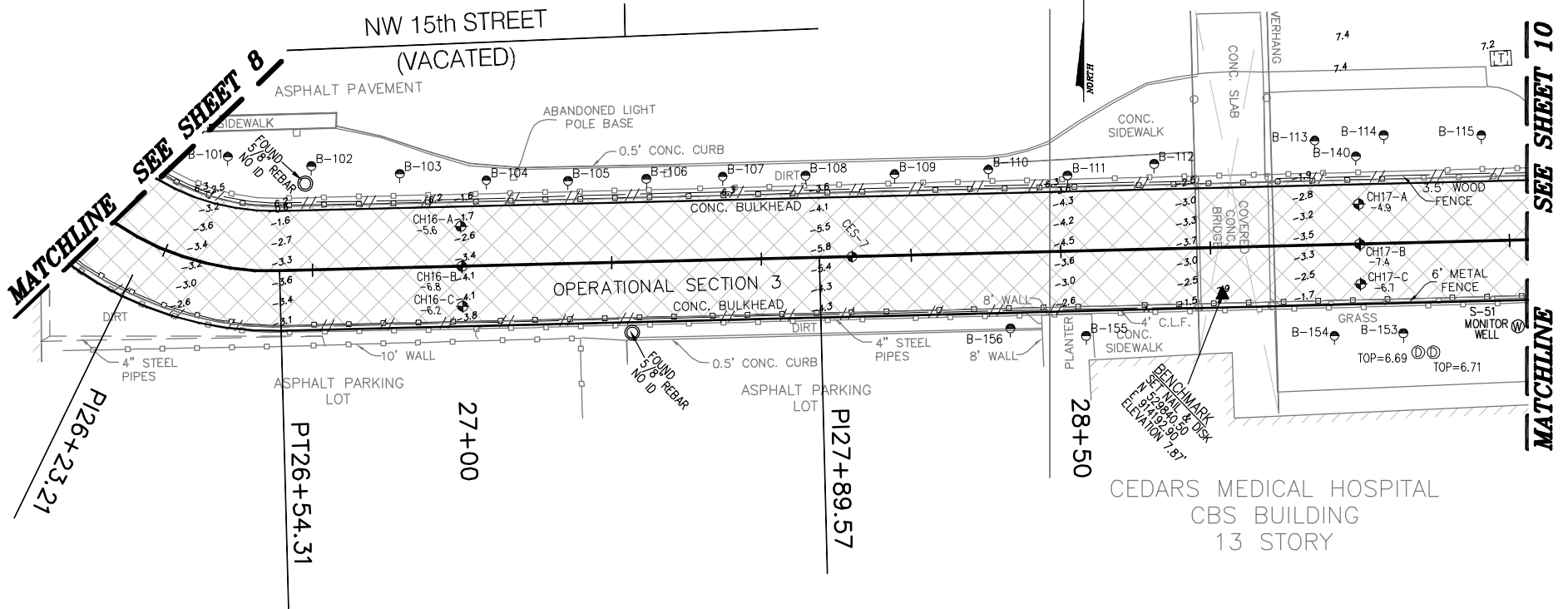
5202 SAN JUAN AVENUE,
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DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



CEDARS MEDICAL HOSPITAL
CBS BUILDING
13 STORY

OPERATIONAL SECTION 3 SHEET 9 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA

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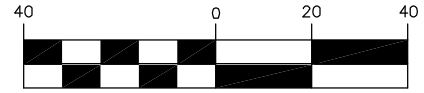
ARC SURVEYING & MAPPING, INC.



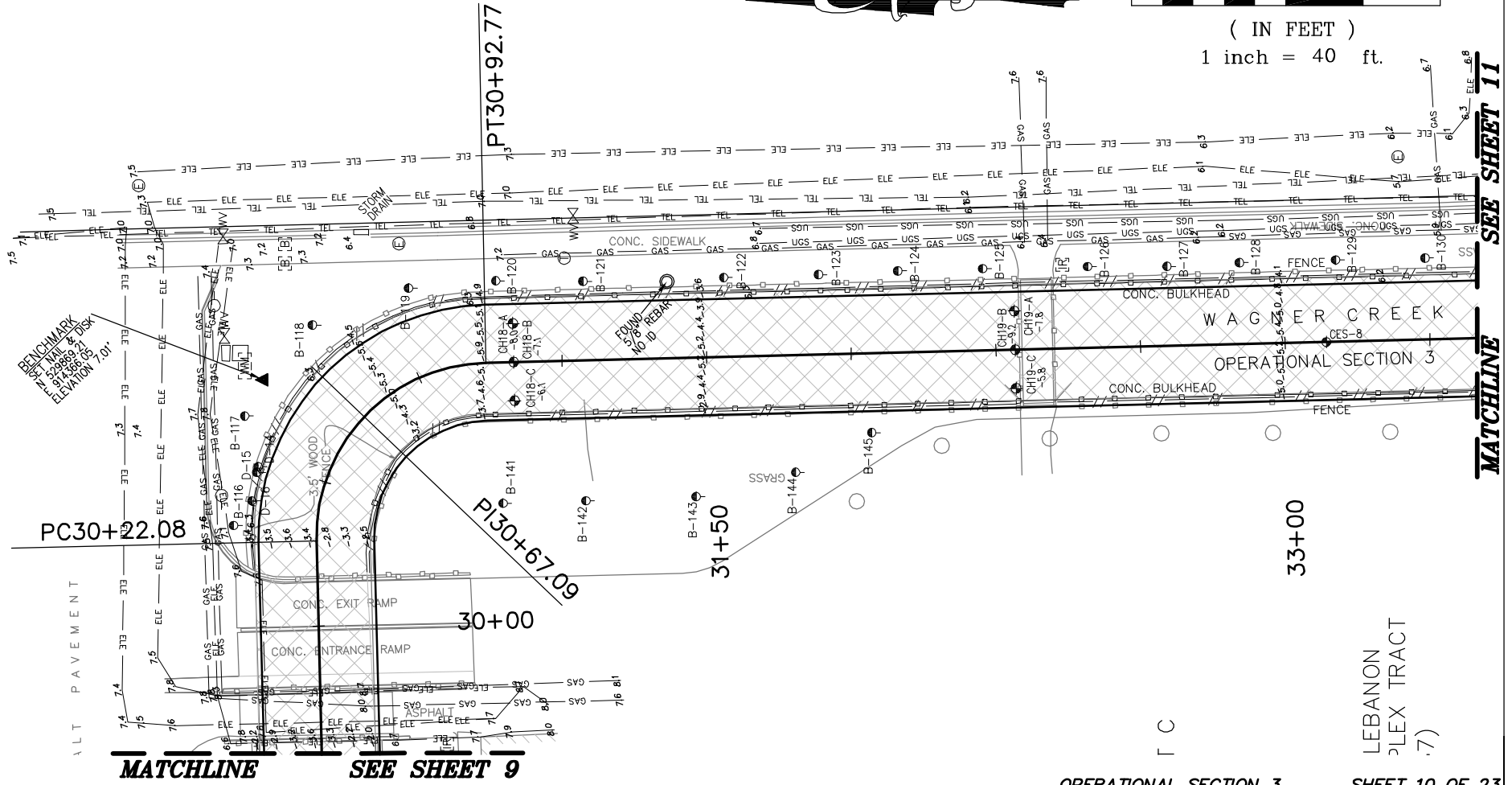
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PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



EXISTING BENCH MARK
CONCRETE MARK ON DISK
ELEVATION 70.1'

ALL PAVEMENT

MATCHLINE

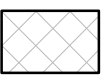
SEE SHEET 9

SEE SHEET 11

MATCHLINE

LEBANON
PLEX TRACT
(.7)

OPERATIONAL SECTION 3 SHEET 10 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
WAGNER CREEK &
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MIAMI, FLORIDA

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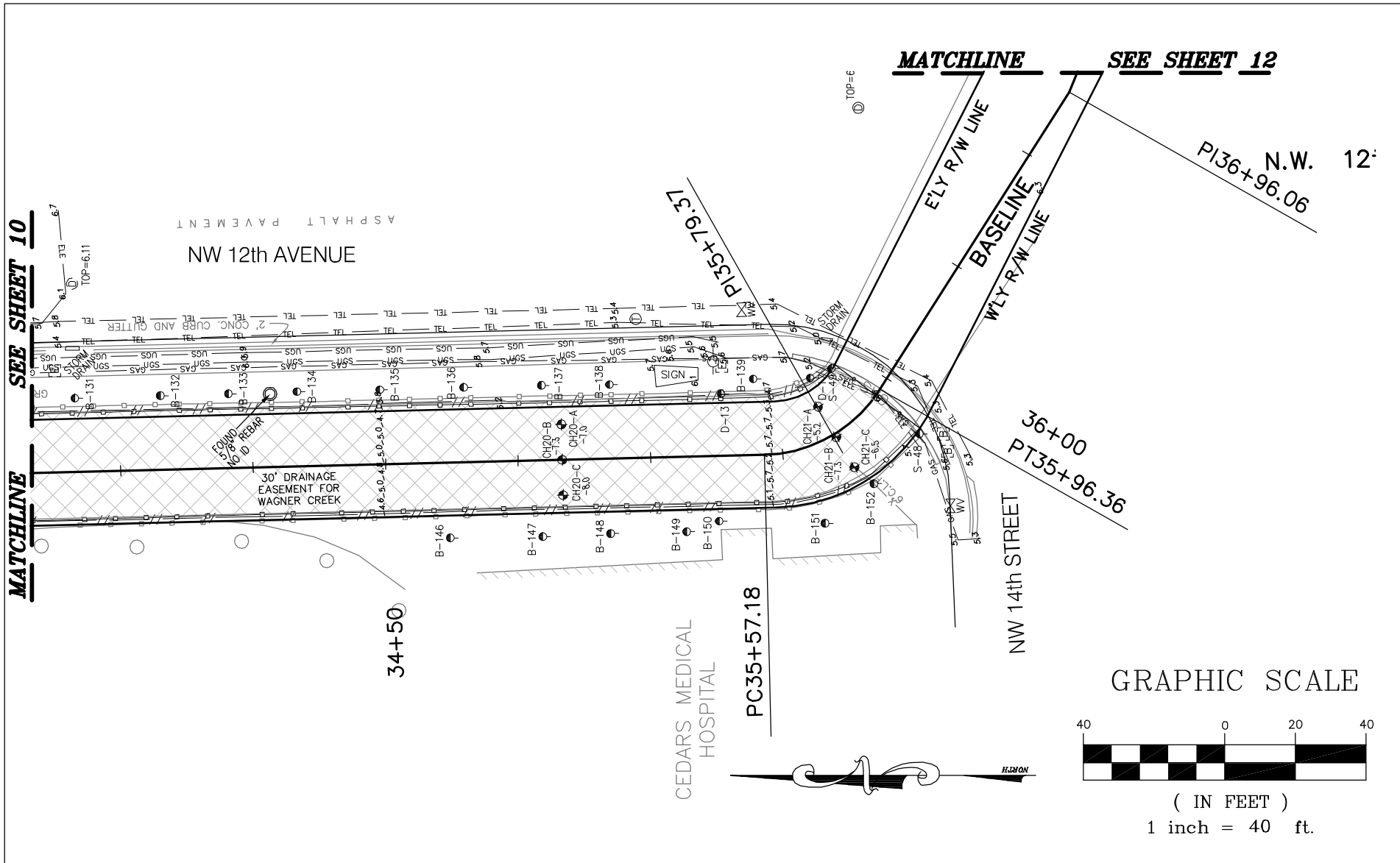
MITCHELL R. JARRELLS
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ARC SURVEYING & MAPPING, INC.

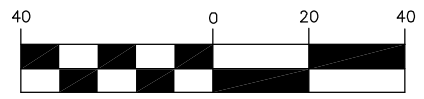


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JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



(IN FEET)
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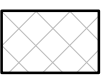
OPERATIONAL SECTION 3 SHEET 11 OF 23

ARC SURVEYING & MAPPING, INC.



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DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



DENOTES DREDGE LIMITS

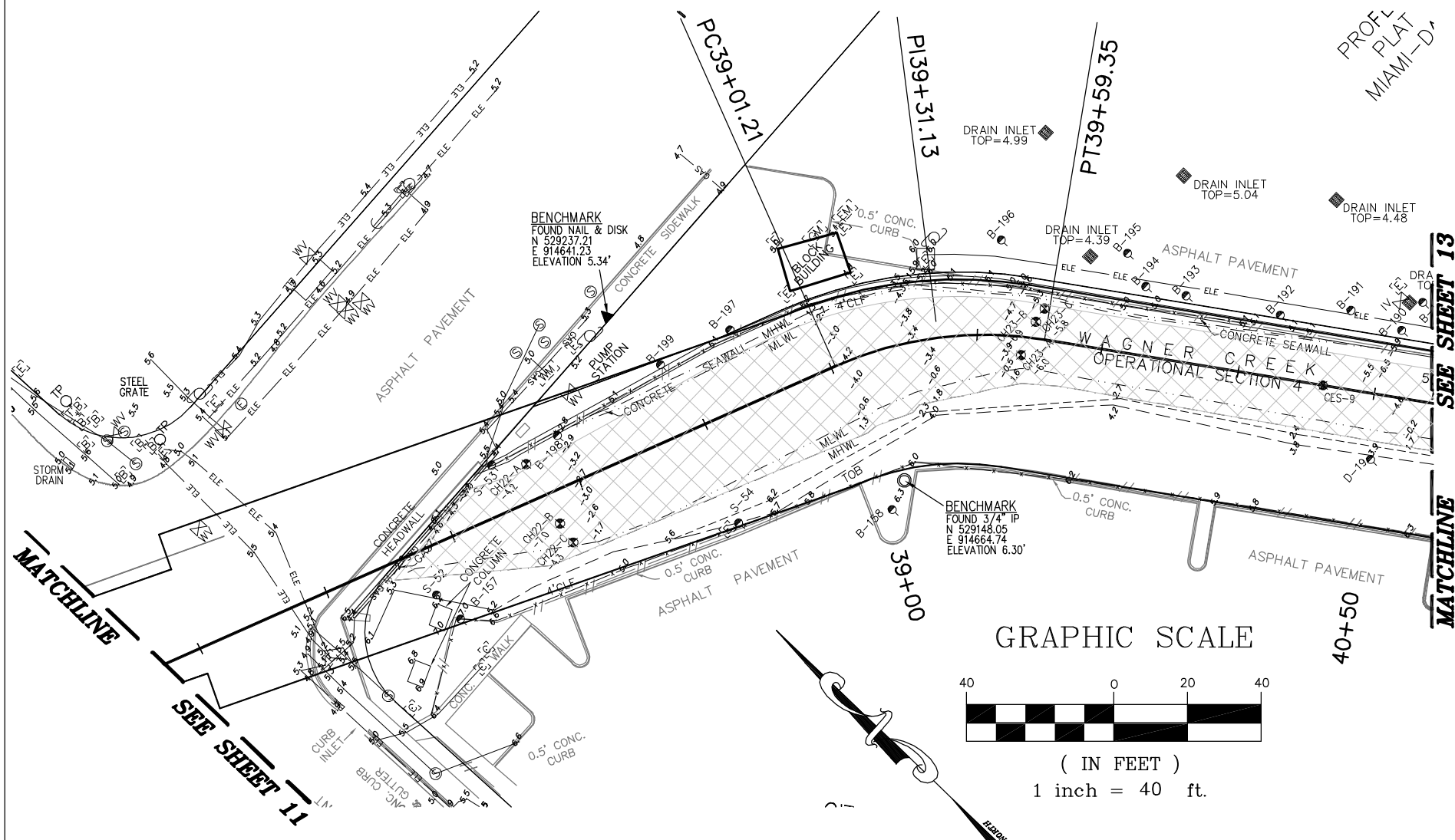


DADE COUNTY, FLORIDA
WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA


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MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE. NO. 6438



OPERATIONAL SECTION 4 SHEET 12 OF 23

 DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
 WAGNER CREEK &
 SEYBOLD CANAL
 MIAMI, FLORIDA

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ARC SURVEYING & MAPPING, INC.



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 PHONE: 904/384-8377
 LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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SEE SHEET 13

MATCHLINE

STATE ROAD

EXPRESSWAY

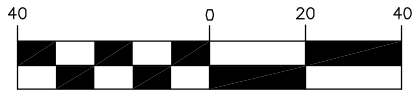
45+00

E'LY R/W LINE

BASELINE

W'LY R/W LINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

PI46+51.76

46+50

10

PI47+28.22

PI48+19.8

48+00

ONE STORY BUILDING

8' EASEMENT

TOB

CONCRETE SEAWALL

MLWL

WAGNER CREEK

MLWL

MHWL

TOB

6' CLF

0.5' CONC. CURB

CONCRETE PAVEMENT

SEE SHEET 15

MATCHLINE

DADE COUNTY TO CITY OF MIAMI
OFFICIAL RECORDS BOOK 2557-694

OPERATIONAL SECTION 5

SHEET 14 OF 23

ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

A-08-29



DENOTES DREDGE LIMITS

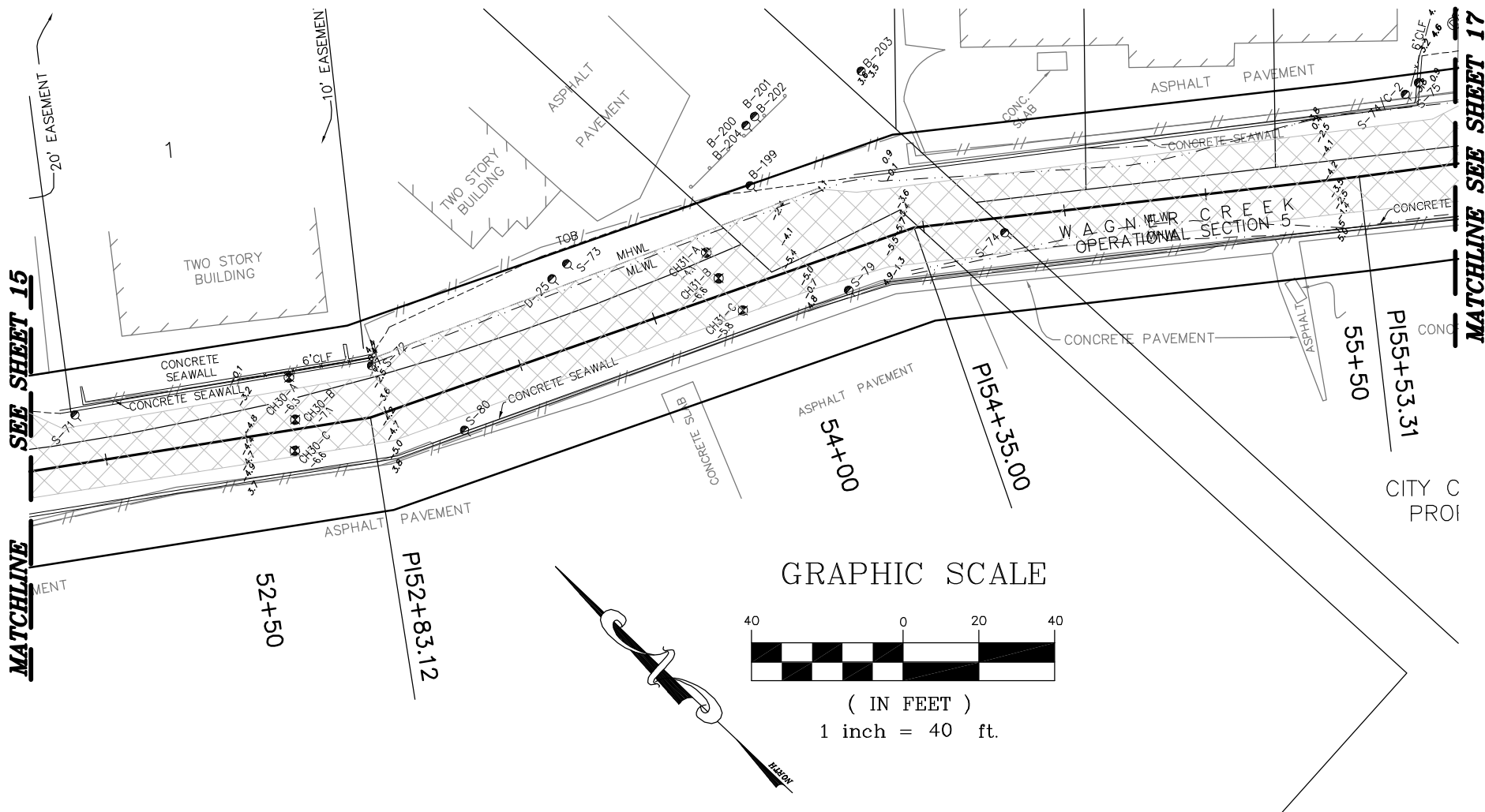


DADE COUNTY, FLORIDA
WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA

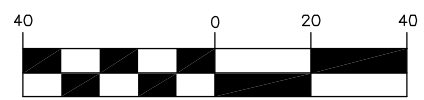
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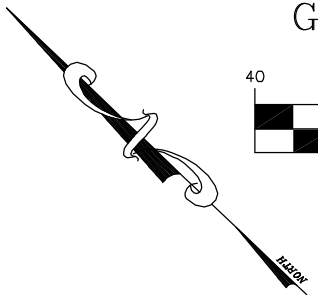
MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE. NO. 6438



GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



MATCHLINE SEE SHEET 15

MATCHLINE SEE SHEET 17

OPERATIONAL SECTION 5 SHEET 16 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

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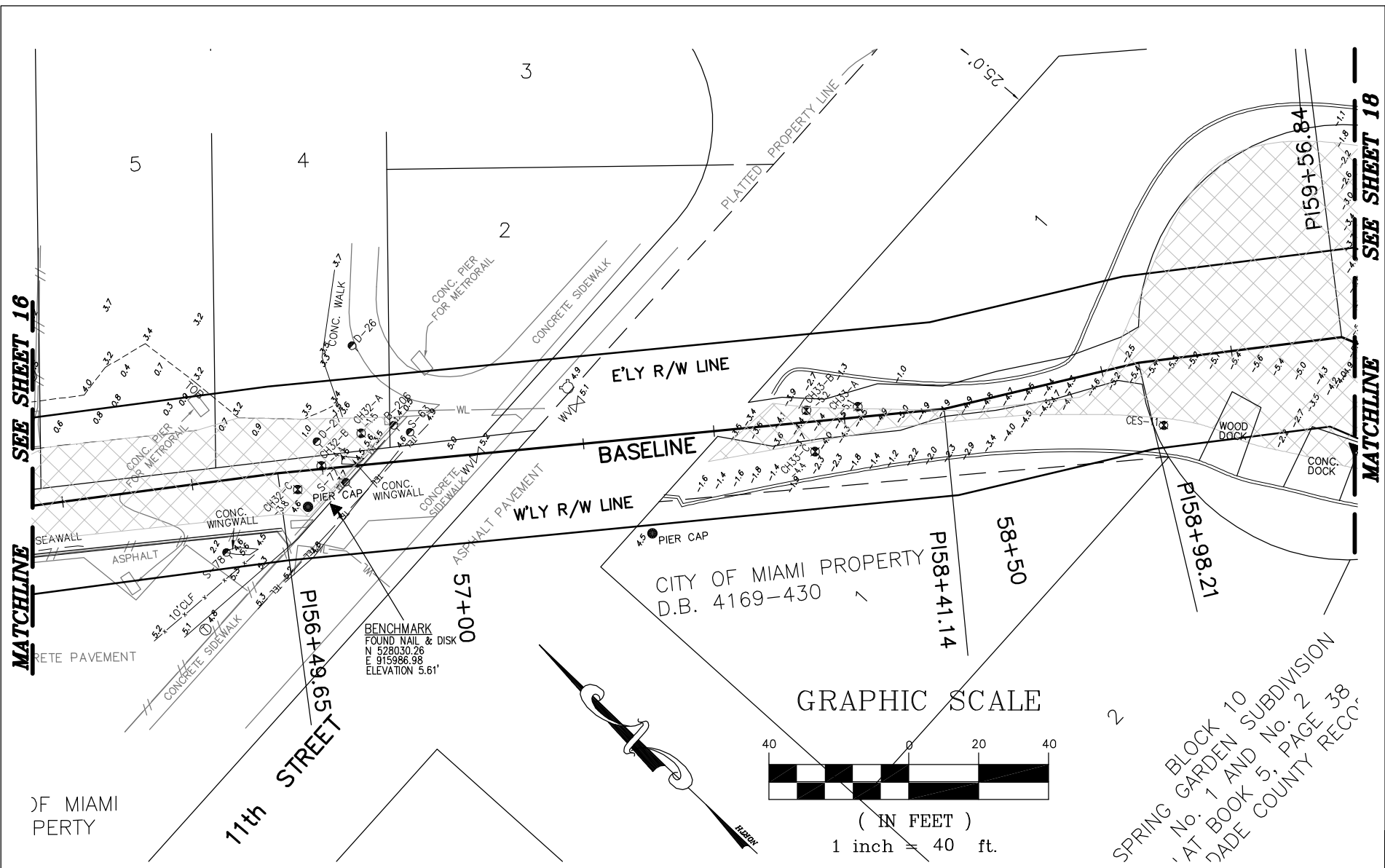
MITCHELL R. JARRELLS
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JKM	11-14-08	08-08/08-09	07-10-07



SEE SHEET 16

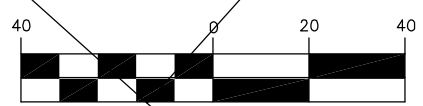
SEE SHEET 18

MATCHLINE

MATCHLINE

BENCHMARK
FOUND NAIL & DISK
N 528030.26
E 915986.98
ELEVATION 5.61'


GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

SPRING BLOCK 10
 No. 1 AND No. 2
 AT BOOK 5, PAGE 38
 DADE COUNTY REC'D

OPERATIONAL SECTION 5 SHEET 17 OF 23


 DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
 WAGNER CREEK &
 SEYBOLD CANAL
 MIAMI, FLORIDA

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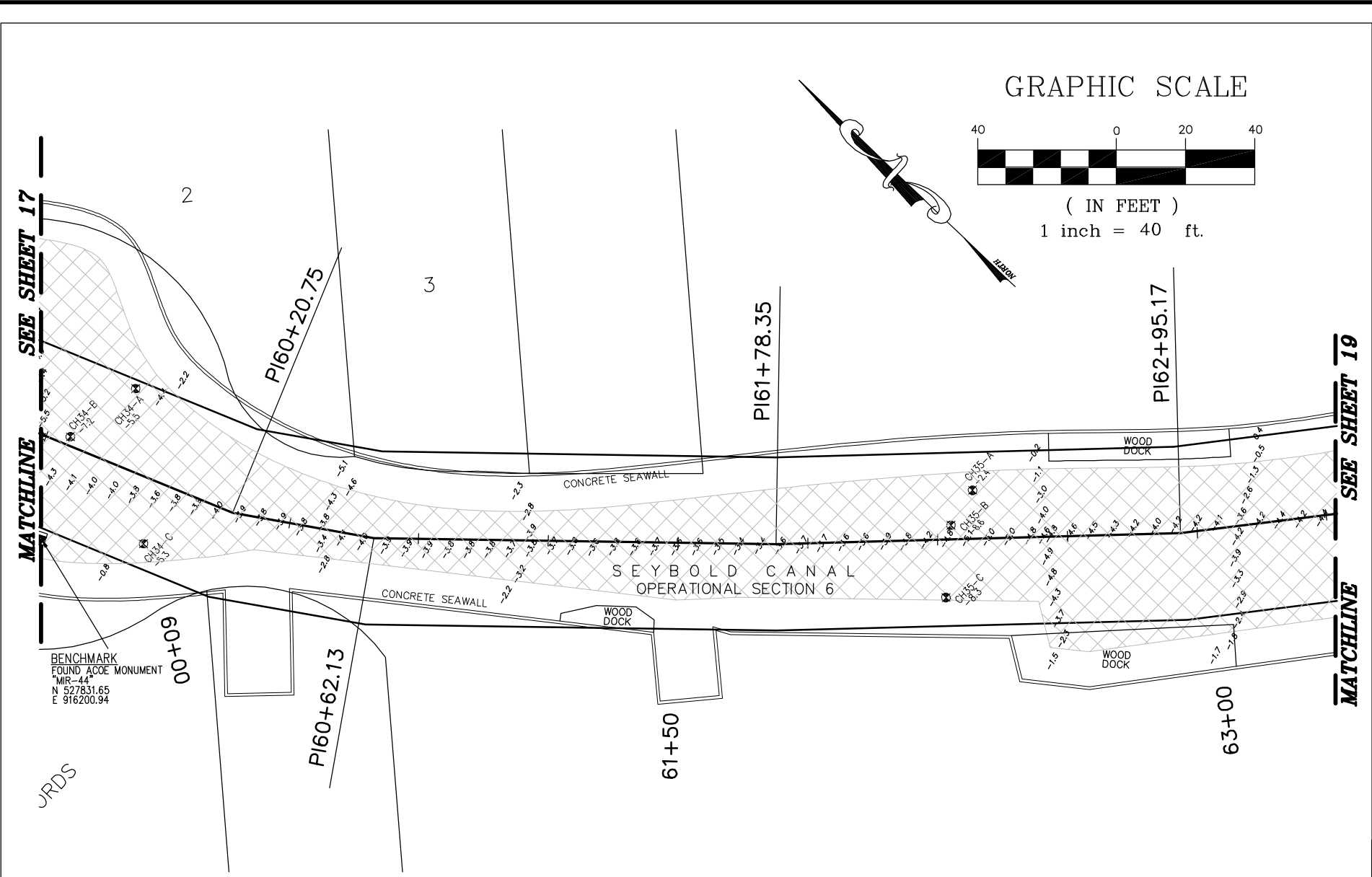
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JKM	11-14-08	08-08/08-09	07-10-07




 DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA


WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

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MITCHELL R. JARRELLS
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OPERATIONAL SECTION 6 SHEET 18 OF 23

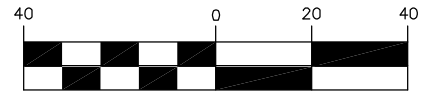
ARC SURVEYING & MAPPING, INC.



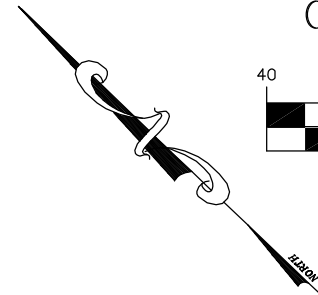
5202 SAN JUAN AVENUE,
 JACKSONVILLE, FLORIDA 32210
 PHONE: 904/384-8377
 LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

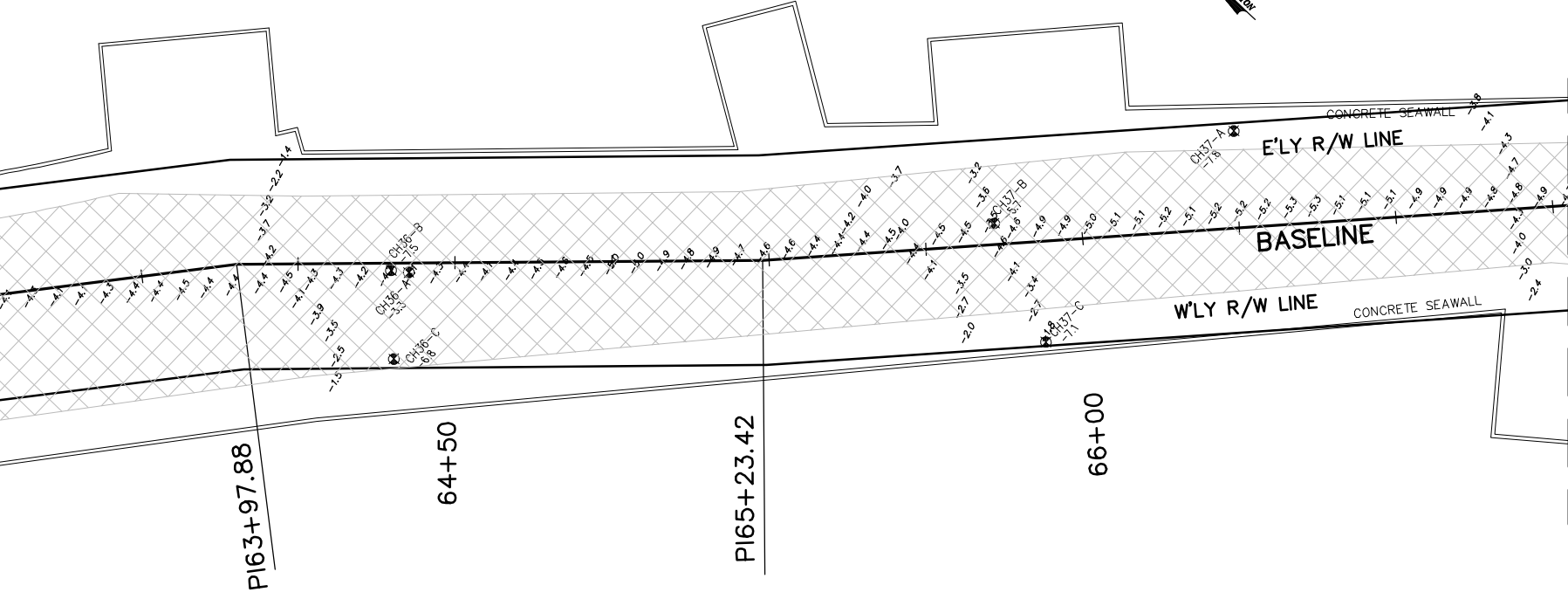


SEE SHEET 18

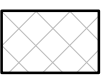
MATCHLINE

SEE SHEET 20

MATCHLINE



OPERATIONAL SECTION 6 SHEET 19 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

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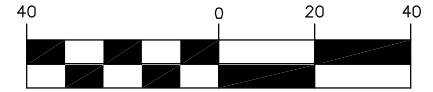
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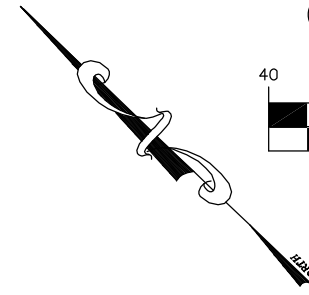
5202 SAN JUAN AVENUE,
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DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



SEE SHEET 19

MATCHLINE

67+50

PI67+57.76

69+00

70+50

SEE SHEET 21

MATCHLINE

SEYBOLD CANAL OPERATIONAL SECTION 6

OPERATIONAL SECTION 6 SHEET 20 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

WAGNER CREEK &
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MIAMI, FLORIDA

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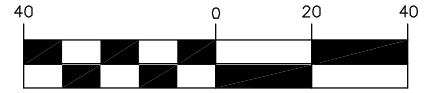
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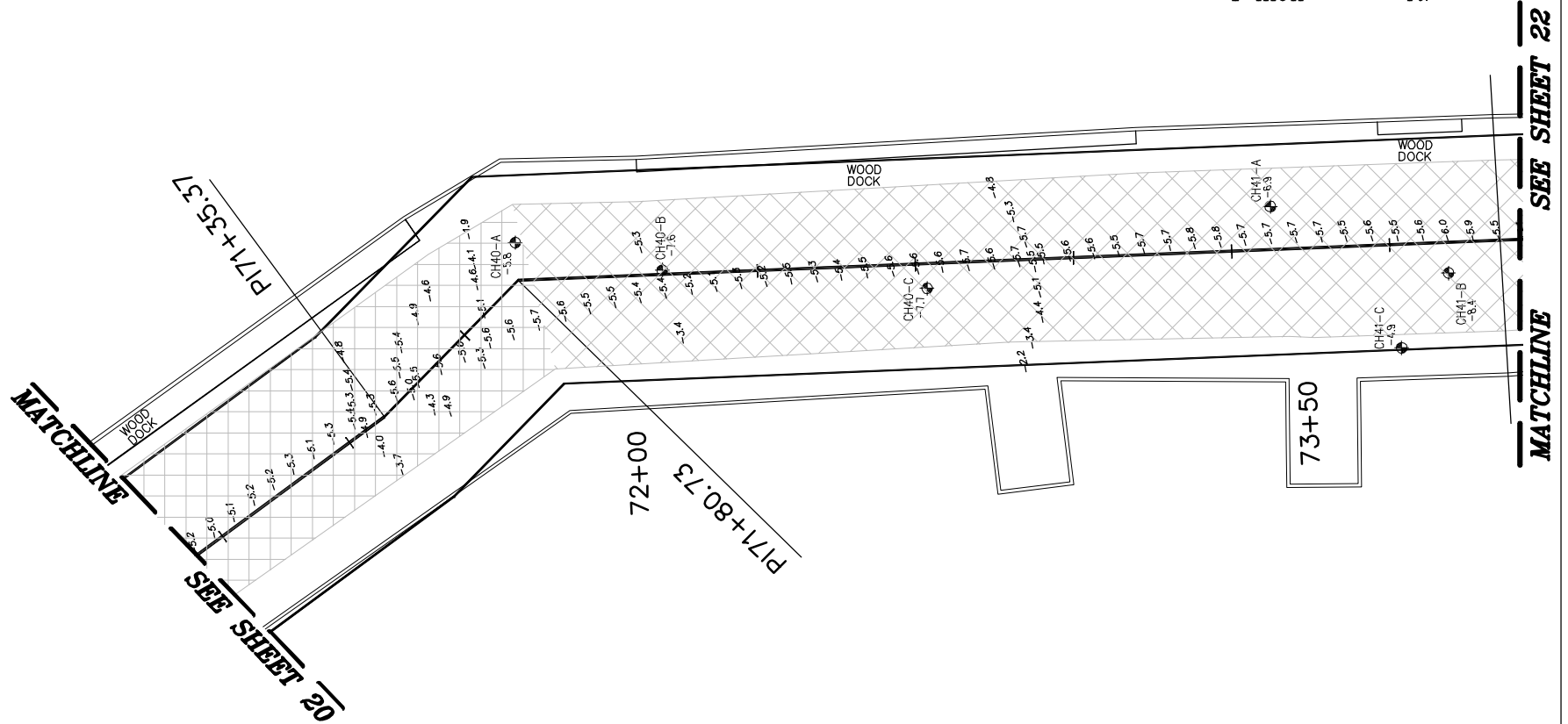
5202 SAN JUAN AVENUE,
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



OPERATIONAL SECTION 6 SHEET 21 OF 23



DENOTES DREDGE LIMITS



DADE COUNTY, FLORIDA

WAGNER CREEK &
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JKM	11-14-08	08-08/08-09	07-10-07

Volume 3, Section 4

Project Drawings, 8-1/2 x 11, Aerial Background

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA FOR: CH2MHILL



VICINITY MAP
NOT TO SCALE

- OPERATIONAL SECTION 1
SHEETS 2-5
- OPERATIONAL SECTION 2
SHEETS 5-7
- OPERATIONAL SECTION 3
SHEETS 7-11
- OPERATIONAL SECTION 4
SHEETS 11-13
- OPERATIONAL SECTION 5
SHEETS 13-17
- OPERATIONAL SECTION 6
SHEETS 17-23



DADE COUNTY, FLORIDA
WAGNER CREEK &
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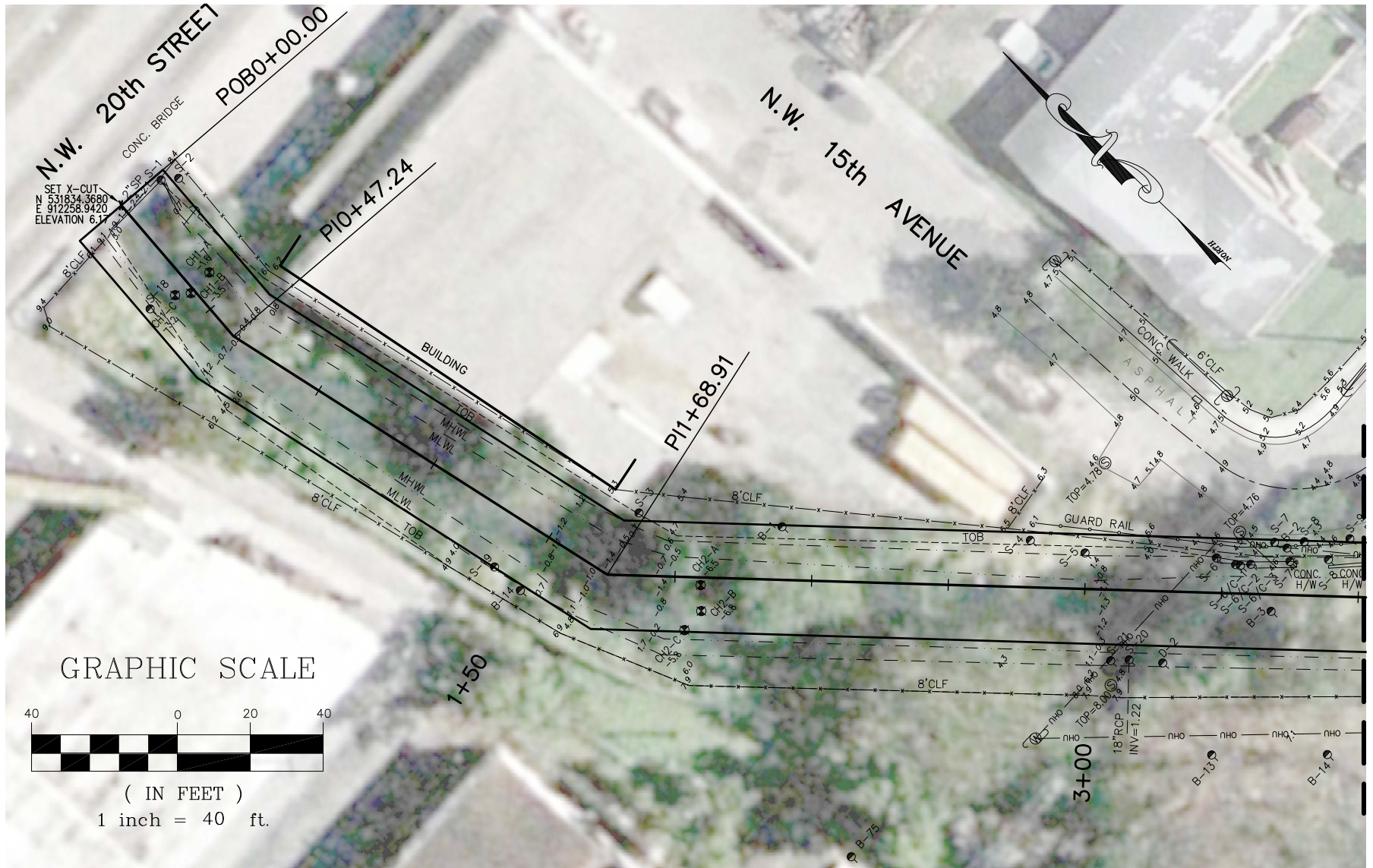
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

LEGEND/ABBREVIATIONS

☐	TRAFFIC CONTROL BOX	D-1	DEBRIS LOCATION
☐	CABLE BOX	S-1	STRUCTURE LOCATION
☐	TELEPHONE BOX	CH	CORE SAMPLE LOCATION
☐	ELECTRIC BOX	-GAS	GAS UTILITY LINE
☐	TELEPHONE MANHOLE	-ELE	ELECTRIC UTILITY LINE
☐	ELECTRIC HAND HOLE	-TEL	TELEPHONE UTILITY LINE
☐	DRAINAGE MANHOLE	-OHL	OVERHEAD UTILITY LINE
☐	SANITARY HANDHOLD	-US-	UNDERGROUND STREET LIGHT LINE
☐	SPRINKLER	IP	IRON PIPE
☐	SECURITY CAMERA	ID	IDENTIFICATION
☐	CONTROL VALVE	IR	IRON ROD
☐	WATER VALVE	SP	SEWER PIPE
☐	WATER METER	WB	TOP OF BANK
☐	ELECTRIC METER	CLF	CHAIN LINK FENCE
☐	FIRE HYDRANT	RCP	REINFORCED CONCRETE PIPE
☐	3" PVC PIPE	CMP	CORRUGATED METAL PIPE
☐	SIGN	PVC	POLY VINYL CHLORIDE
☐	LIGHT POLE	M/H	MAN HOLE
☐	WOOD UTILITY POLE	H/W	HEAD WALL
☐	CONCRETE UTILITY POLE	R/W	RIGHT OF WAY
☐	GUY ANCHOR	INV	INVERT
☐	BIOLOGICAL LOCATION	M.E.S.	MITERED END SECTION
☐	CRACK LOCATION	CONC.	CONCRETE
		MON.	MONUMENT

SURVEY NOTES:

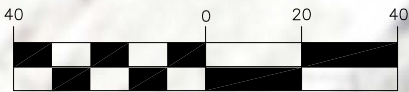
- ALL DIMENSIONS SHOWN HEREON ARE IN FEET AND IN TENTHS AND ARE BASED ON THE U.S. SURVEY FOOT
- ABOVE GROUND EVIDENCE OF UNDERGROUND FEATURES (I.E. UTILITIES TANKS, RAILROAD TRACKS, ETC.) ARE SHOWN HEREON. UNDERGROUND UTILITIES ARE SHOWN AS MARKED BY SUNSHINE STATE ONE CALL UTILITY LOCATING SERVICE.
- PARCEL BOUNDARY LOCATIONS AND SOME MINOR PLANIMETRIC INFORMATION WAS OBTAINED FROM A PREVIOUS SURVEY BY WEIDENER SURVEYING AND MAPPING, DATED: JUNE 12, 2002.
- SURVEYS FIELD DATA WAS OBTAINED FROM JUNE 23, 2008 THRU JULY 17, 2008.
- BACKGROUND IMAGERY WAS OBTAINED FROM GOOGLE EARTH AND IS FOR REFERENCE PURPOSES ONLY.
- BATHYMETRIC DATA WAS OBTAINED WITH A RESON 210 ECHO SOUNDER. POSITIONAL DATA WAS OBTAINED WITH A TRIMBLE 5800 REAL TIME KINEMATIC GPS SURVEYING SYSTEM.
- COORDINATES SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE., AND ARE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE., HAVING AN ELEVATION OF 5.37 FEET, AND IS REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
- THE BIOLOGICAL LOCATIONS, CRACK LOCATIONS, DEBRIS LOCATIONS, AND STRUCTURE LOCATIONS SHOWN ON THIS SURVEY WERE IDENTIFIED BY THE ENVIRONMENTAL CONSULTING FIRM OF MILIAN, SWAIN & ASSOCIATES, 2257 VISTA PARKWAY, SUITE #19, WEST PALM BEACH, FLORIDA, 33411. INFORMATION REQUESTS IN REGARD TO THESE LOCATIONS SHOULD BE DIRECTED TO MILIAN, SWAIN & ASSOCIATES.
- THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.
- WAGNER CREEK AND SEYBOLD CANAL ARE TIDAL WATERS AND THEREFORE TITLE TO THE LANDS BELOW THE MEAN HIGH WATER LINE, ELEVATION 1.88 NGVD29, IS VESTED IN THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA.



SEE SHEET 3

MATCHLINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

OPERATIONAL SECTION 1 SHEET 2 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

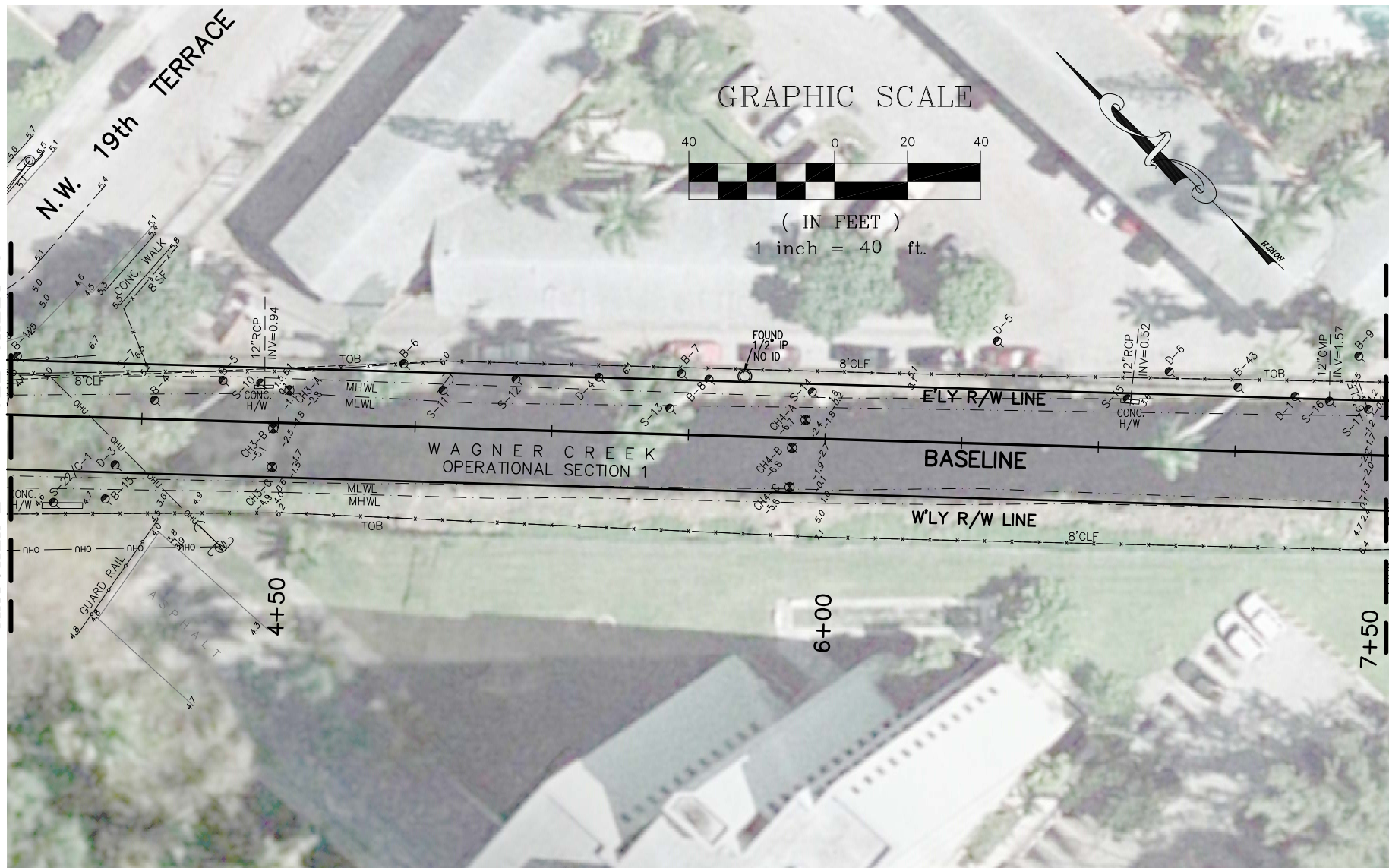
CERTIFICATION:
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MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE. NO. 6438

ARC SURVEYING & MAPPING, INC.

5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



SEE SHEET 2

SEE SHEET 4

MATCHLINE

MATCHLINE


OPERATIONAL SECTION 1 SHEET 3 OF 23



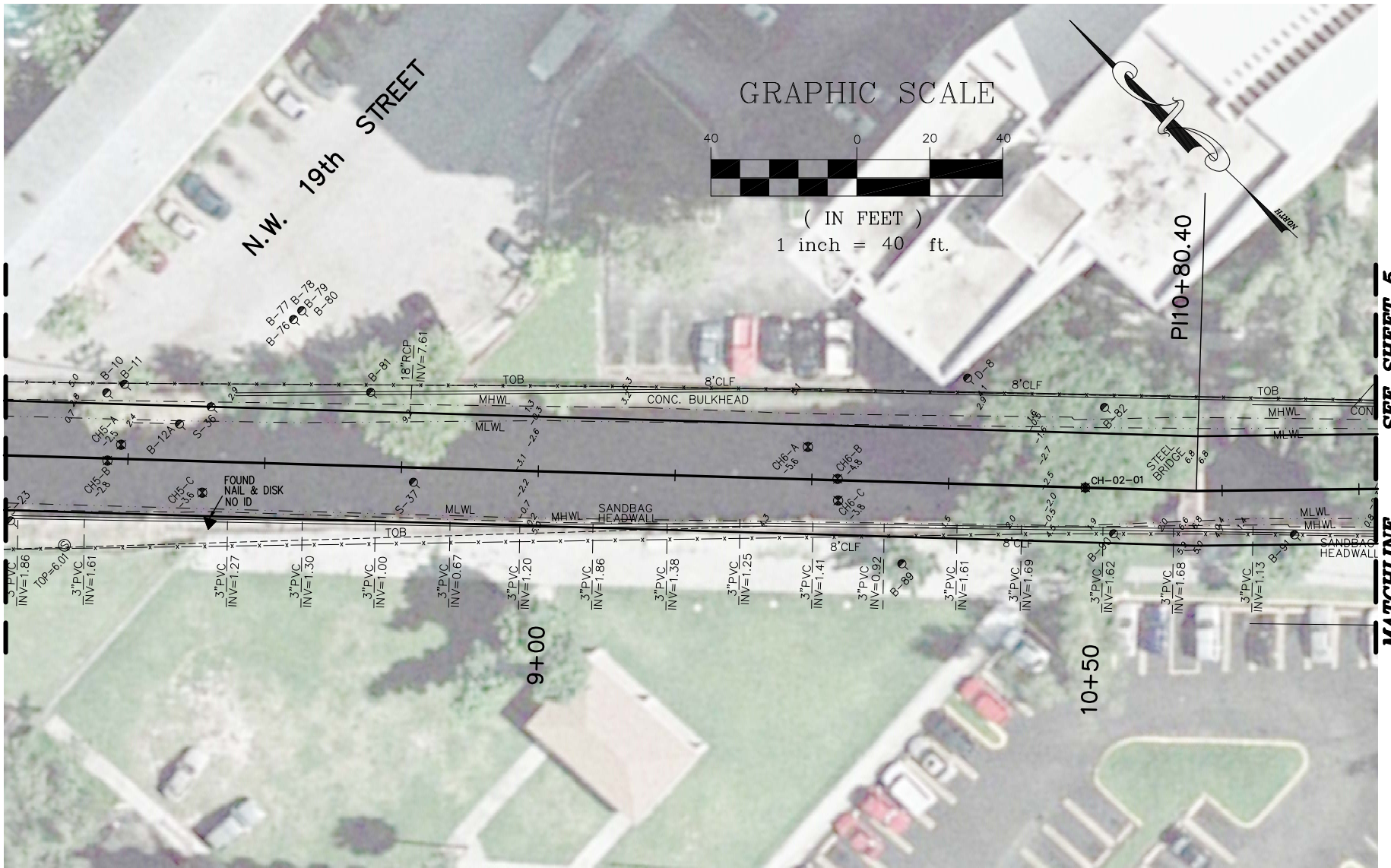
DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

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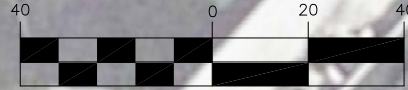
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JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



(IN FEET)

1 inch = 40 ft.

SEE SHEET 3

SEE SHEET 5

MATCHLINE

MATCHLINE

OPERATIONAL SECTION 1

SHEET 4 OF 23




DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

CERTIFICATION:
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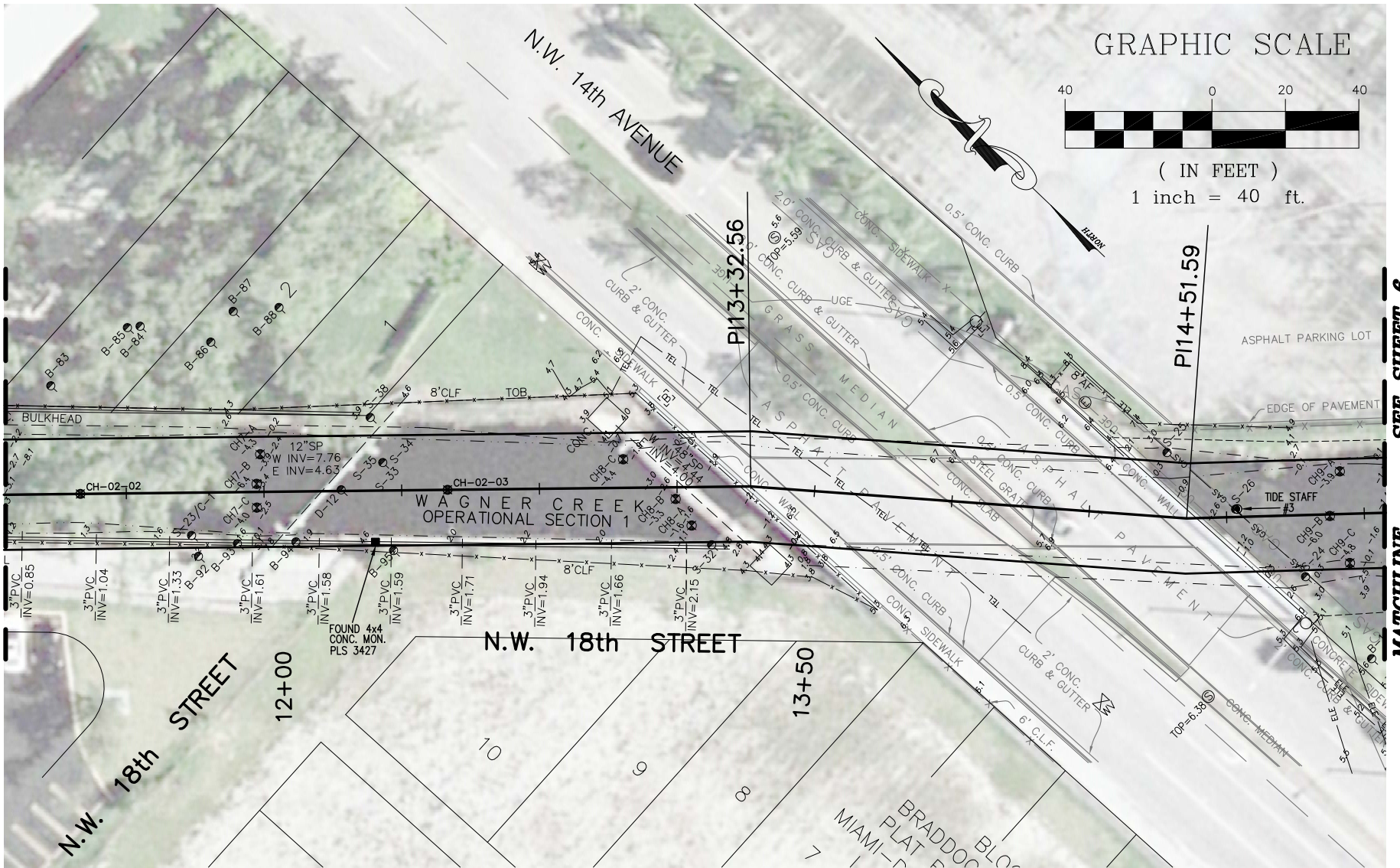
MITCHELL R. JARRELLS
 FLORIDA REGISTERED CERTIFICATE. NO. 6438

ARC SURVEYING & MAPPING, INC.

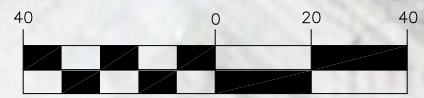


5202 SAN JUAN AVENUE,
 JACKSONVILLE, FLORIDA 32210
 PHONE: 904/384-8377
 LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



SEE SHEET 4

SEE SHEET 6

MATCHLINE

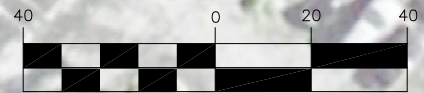
MATCHLINE

OPERATIONAL SECTION 1 & 2 SHEET 5 OF 23

	<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>	<p>CERTIFICATION:</p> <p>I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.</p>	 <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p>						
	<p>MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438</p>	<table border="1"> <tr> <td>DRAWN BY:</td> <td>DATE:</td> <td>FIELD BOOK & PAGE</td> <td>JOB NO.</td> </tr> <tr> <td>JKM</td> <td>11-14-08</td> <td>08-08/08-09</td> <td>07-10-07</td> </tr> </table>		DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.						
JKM	11-14-08	08-08/08-09	07-10-07						

DADE COUNTY TO US GOVERNMENT
 OFFICIAL RECORDS BOOK 2612, PAGES 455 & 456
 MIAMI-DADE COUNTY RECORDS

GRAPHIC SCALE



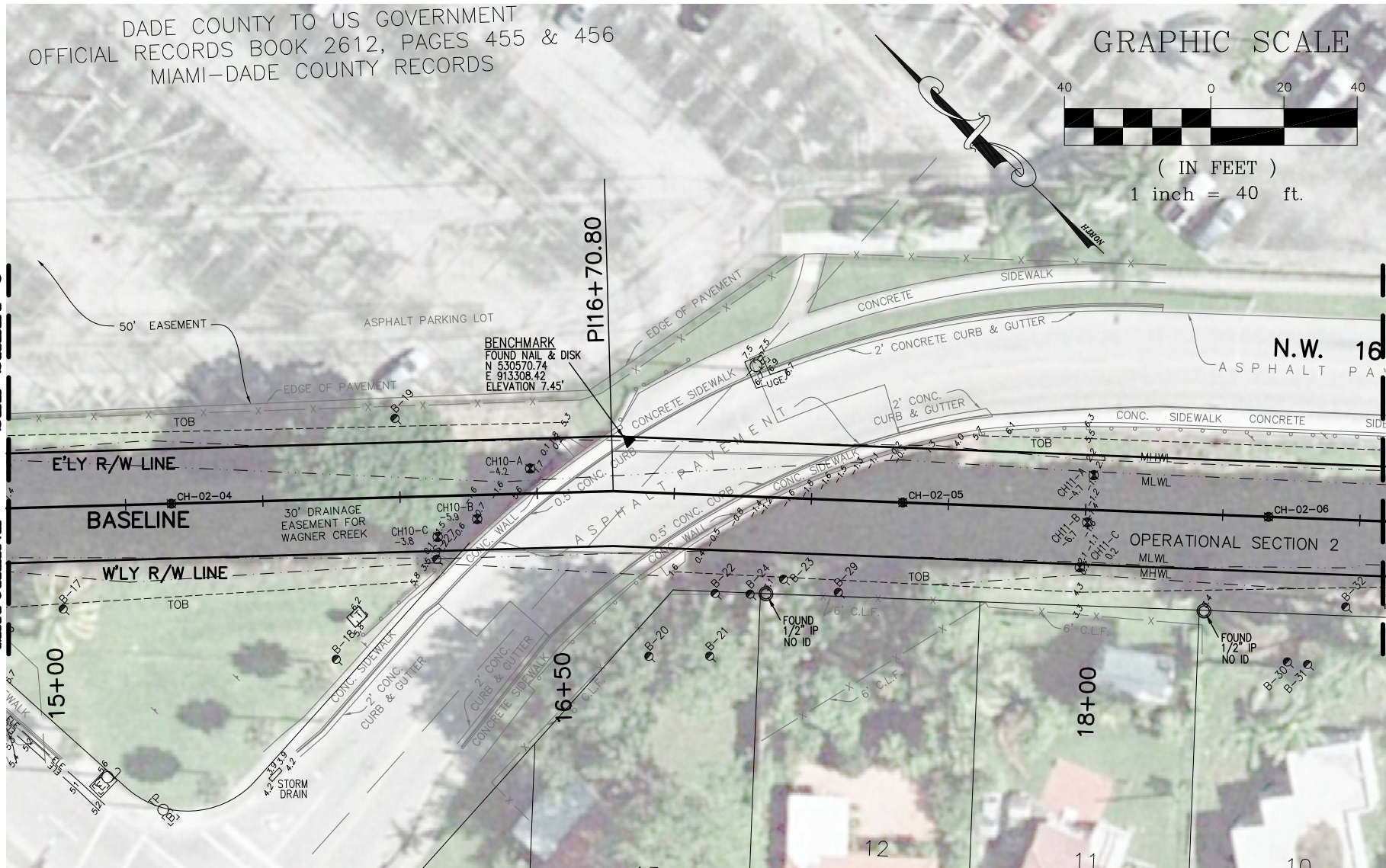
(IN FEET)
 1 inch = 40 ft.

SEE SHEET 5



MATCHLINE

SEE SHEET 7

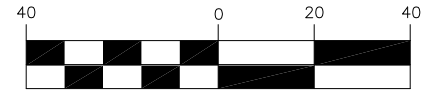
MATCHLINE



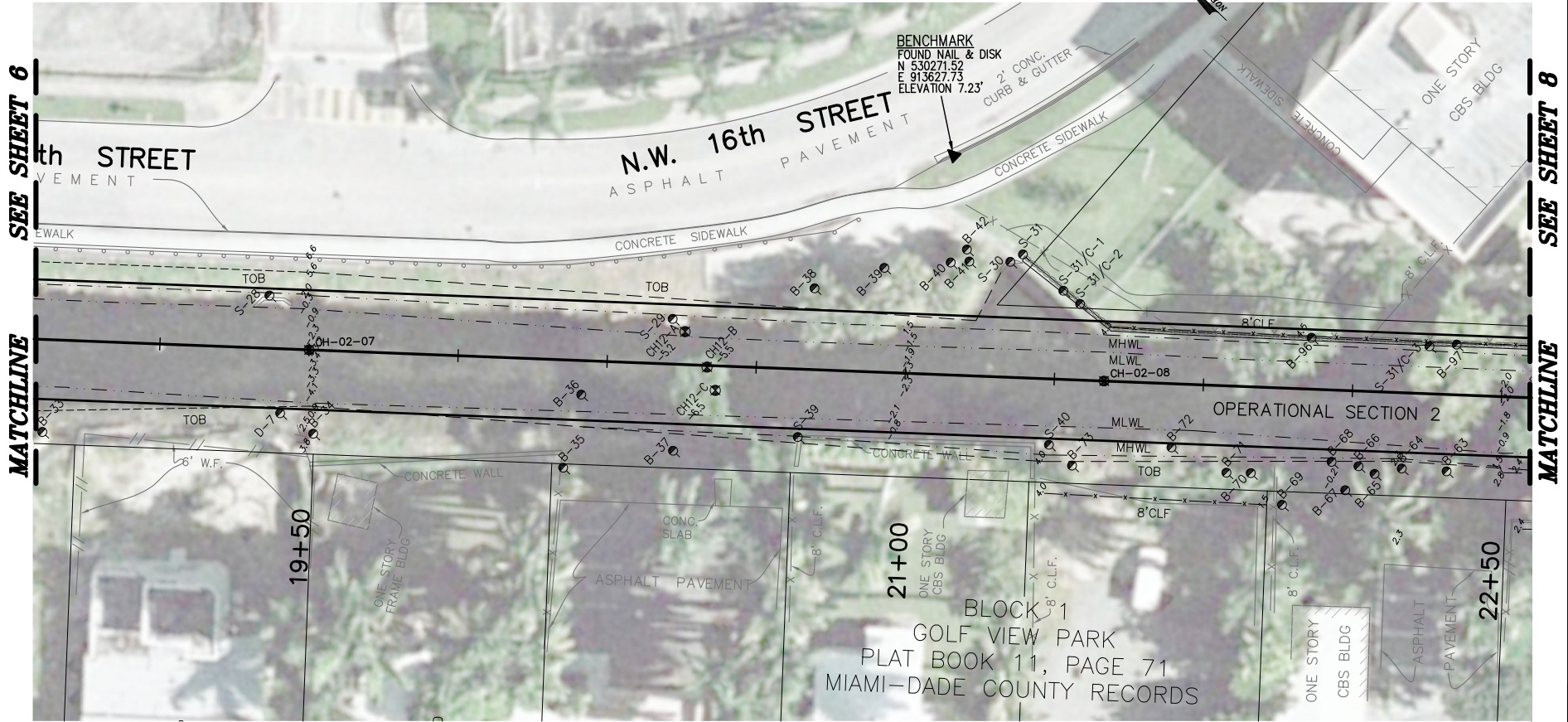
OPERATIONAL SECTION 2 SHEET 6 OF 23

	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	ARC SURVEYING & MAPPING, INC.  5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
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GRAPHIC SCALE





(IN FEET)
1 inch = 40 ft.

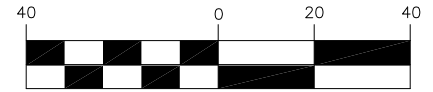


BLOCK 1
GOLF VIEW PARK
PLAT BOOK 11, PAGE 71
MIAMI-DADE COUNTY RECORDS

OPERATIONAL SECTION 2 SHEET 7 OF 23

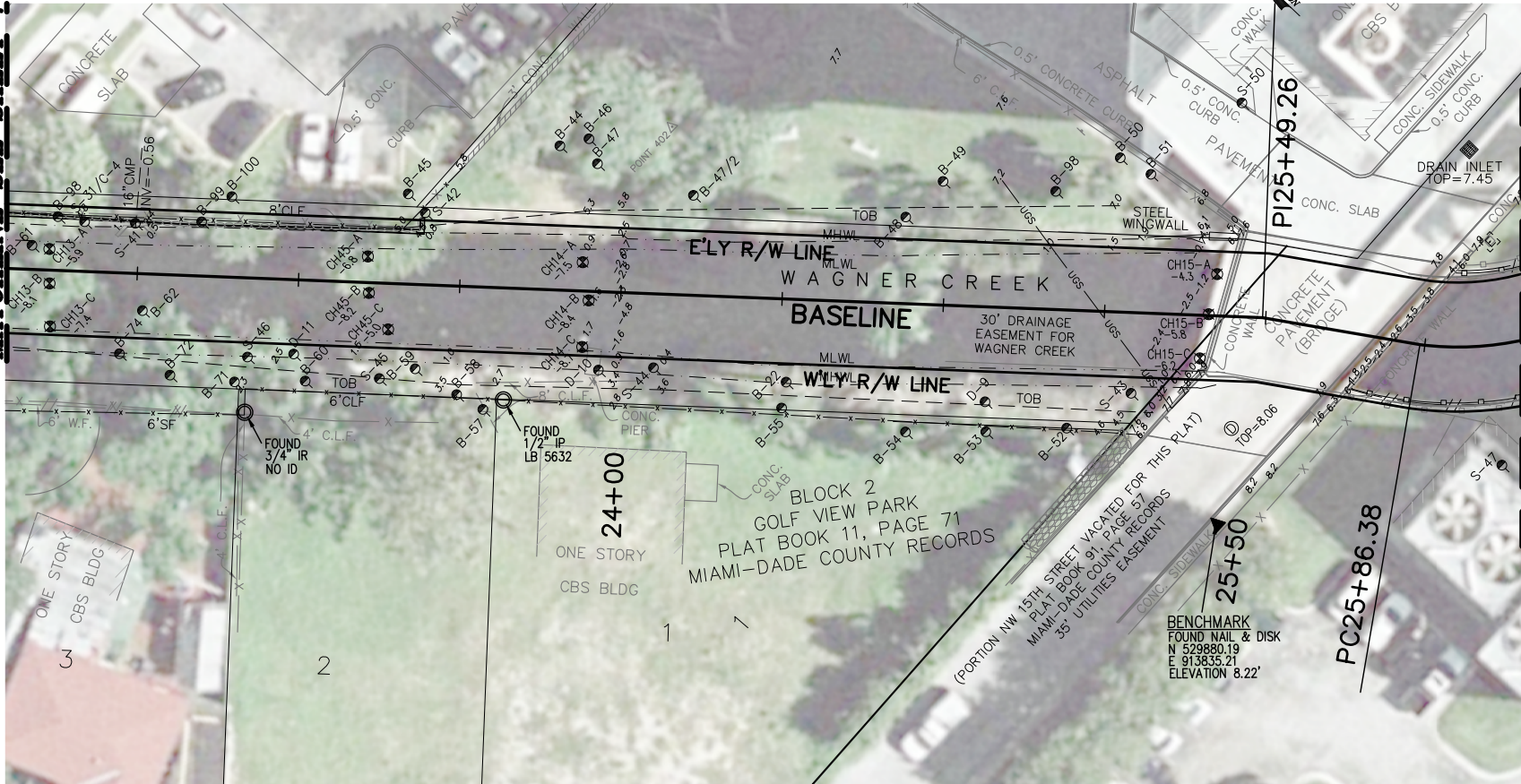
	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	ARC SURVEYING & MAPPING, INC. 
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

MATCHLINE SEE SHEET 7



SEE SHEET 9

MATCHLINE

OPERATIONAL SECTION 2 & 3 SHEET 8 OF 23




DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

CERTIFICATION:
I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.

MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE. NO. 6438

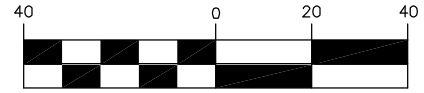
ARC SURVEYING & MAPPING, INC.



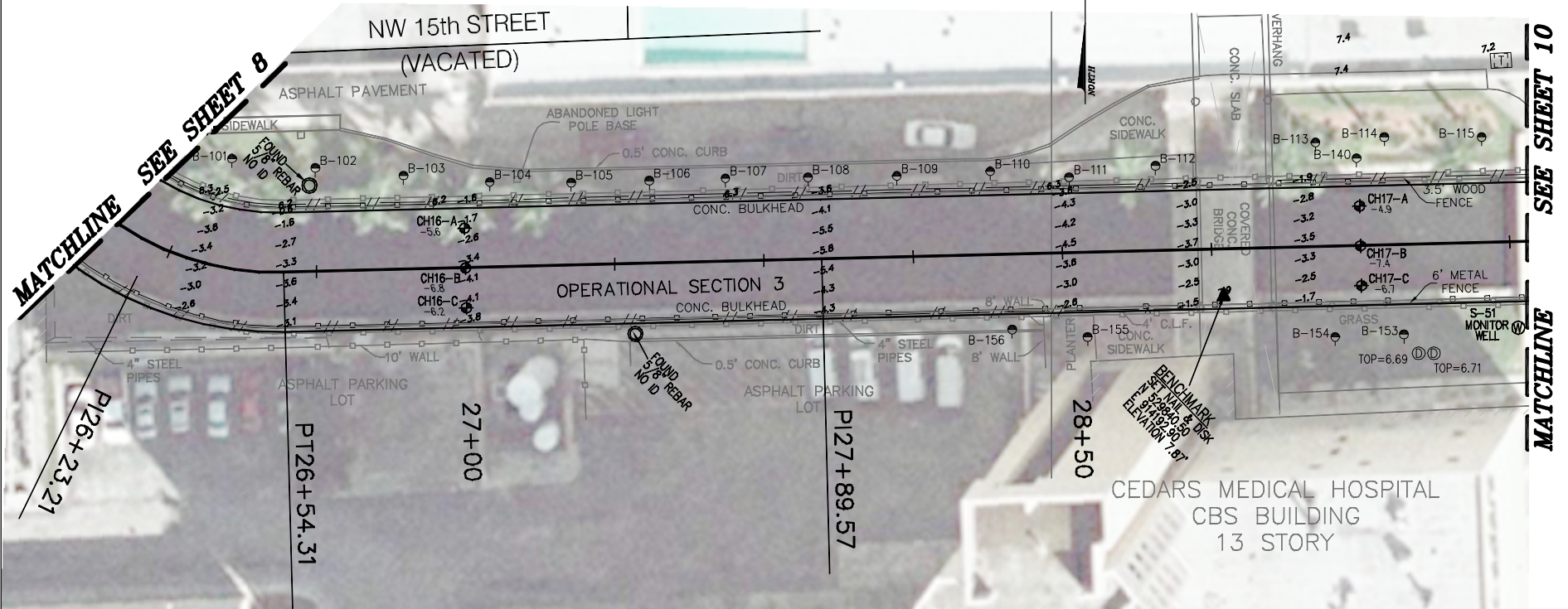
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

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JKM	11-14-08	08-08/08-09	07-10-07



GRAPHIC SCALE



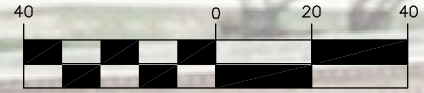
(IN FEET)
1 inch = 40 ft.



OPERATIONAL SECTION 3 SHEET 9 OF 23

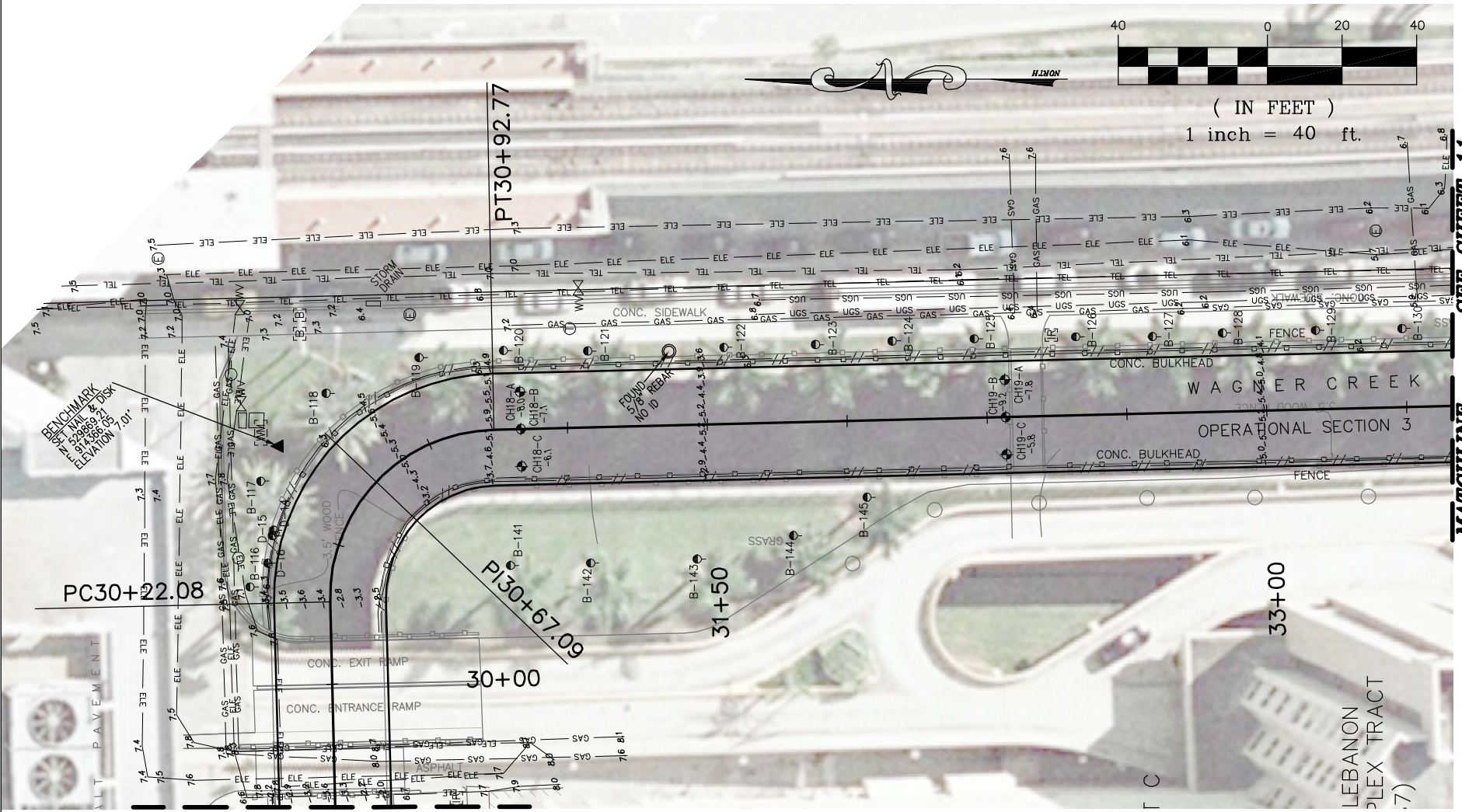
	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	ARC SURVEYING & MAPPING, INC.  5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
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GRAPHIC SCALE



(IN FEET)

1 inch = 40 ft.



SEE SHEET 11

MATCHLINE

MATCHLINE

SEE SHEET 9

OPERATIONAL SECTION 3

SHEET 10 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

CERTIFICATION:

I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.

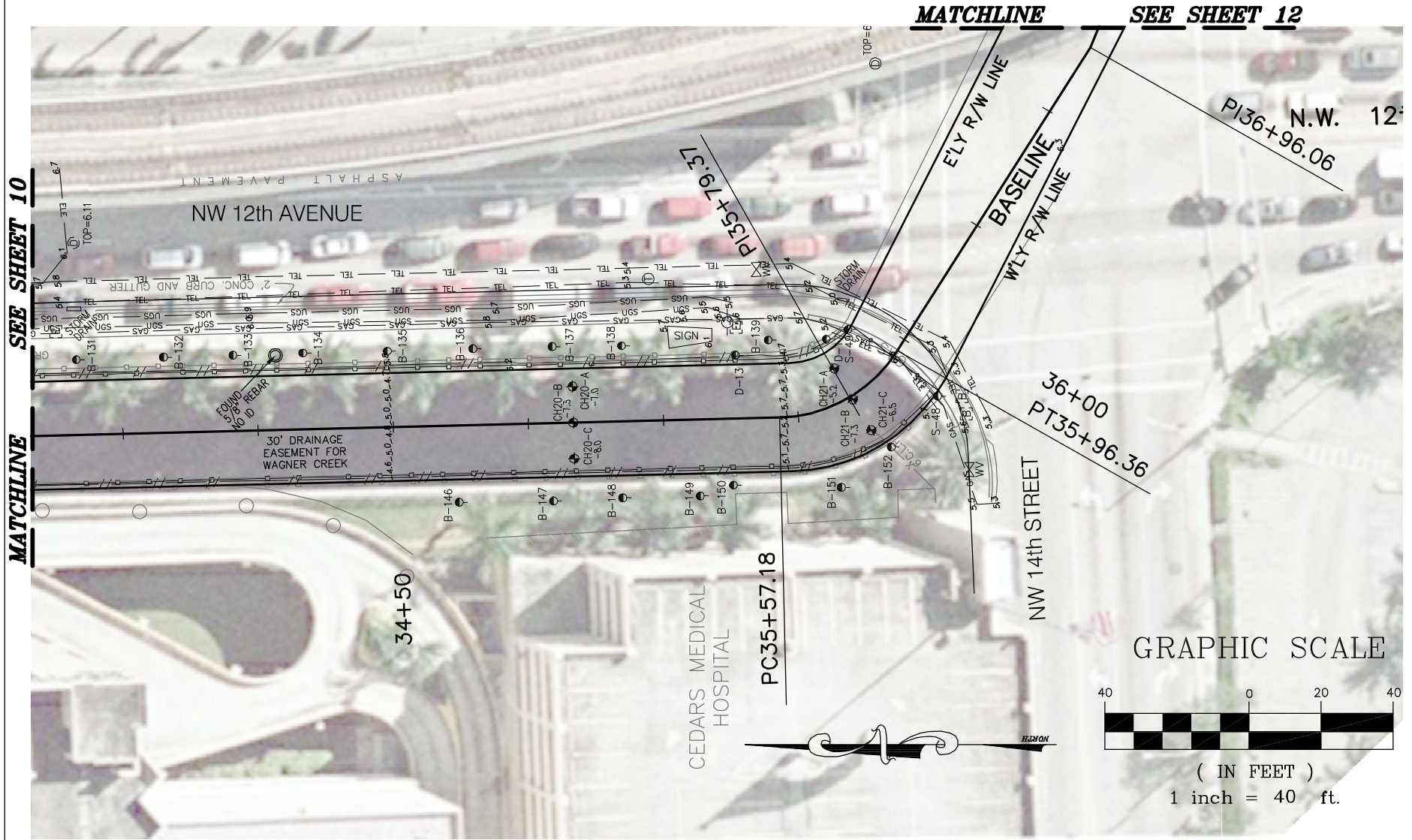
MITCHELL R. JARRELLS
 FLORIDA REGISTERED CERTIFICATE. NO. 6438

ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
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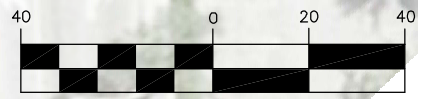
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JKM	11-14-08	08-08/08-09	07-10-07



MATCHLINE SEE SHEET 10



MATCHLINE SEE SHEET 12

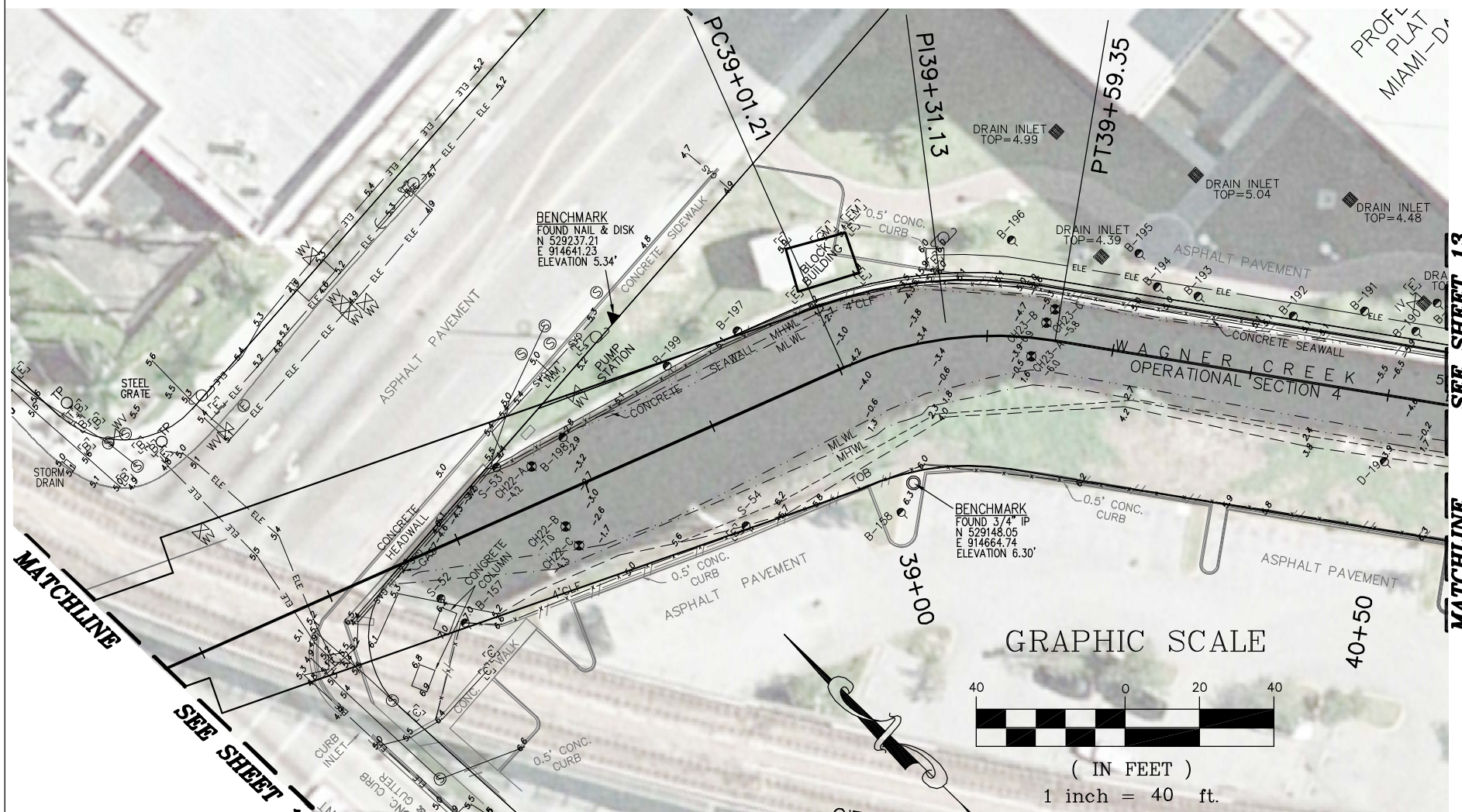
GRAPHIC SCALE



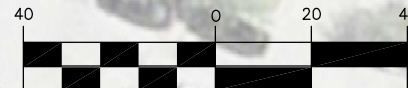
(IN FEET)
1 inch = 40 ft.

OPERATIONAL SECTION 3 SHEET 11 OF 23

	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	 5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
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GRAPHIC SCALE



(IN FEET)

1 inch = 40 ft.

OPERATIONAL SECTION 4

SHEET 12 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

CERTIFICATION:

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ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
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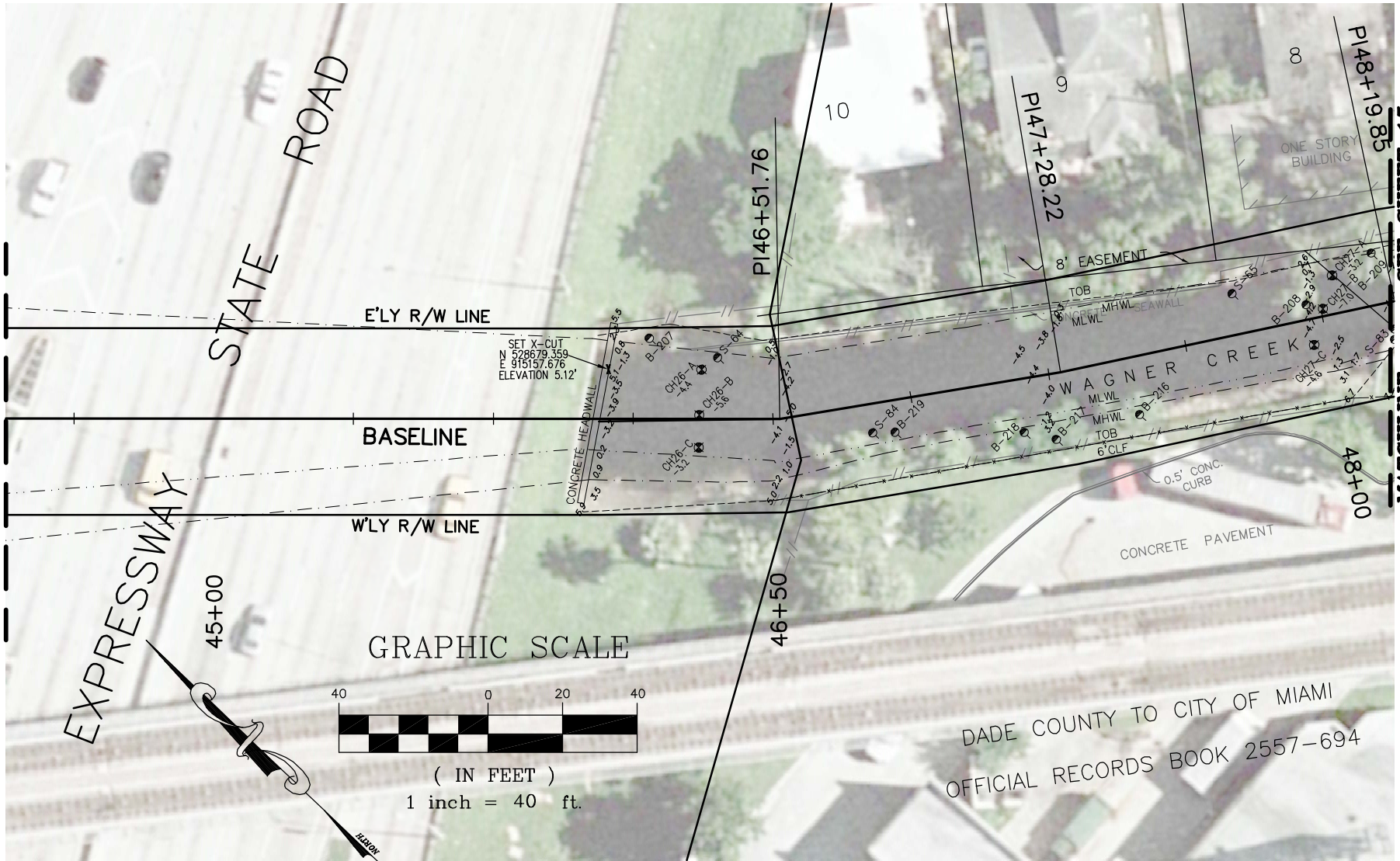
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

SEE SHEET 13

MATCHLINE

SEE SHEET 15

MATCHLINE



EXPRESSWAY

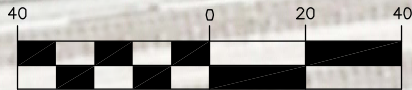
45+00

E'LY R/W LINE

BASELINE

W'LY R/W LINE

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

STATE ROAD

PI46+51.76

46+50

PI47+28.22

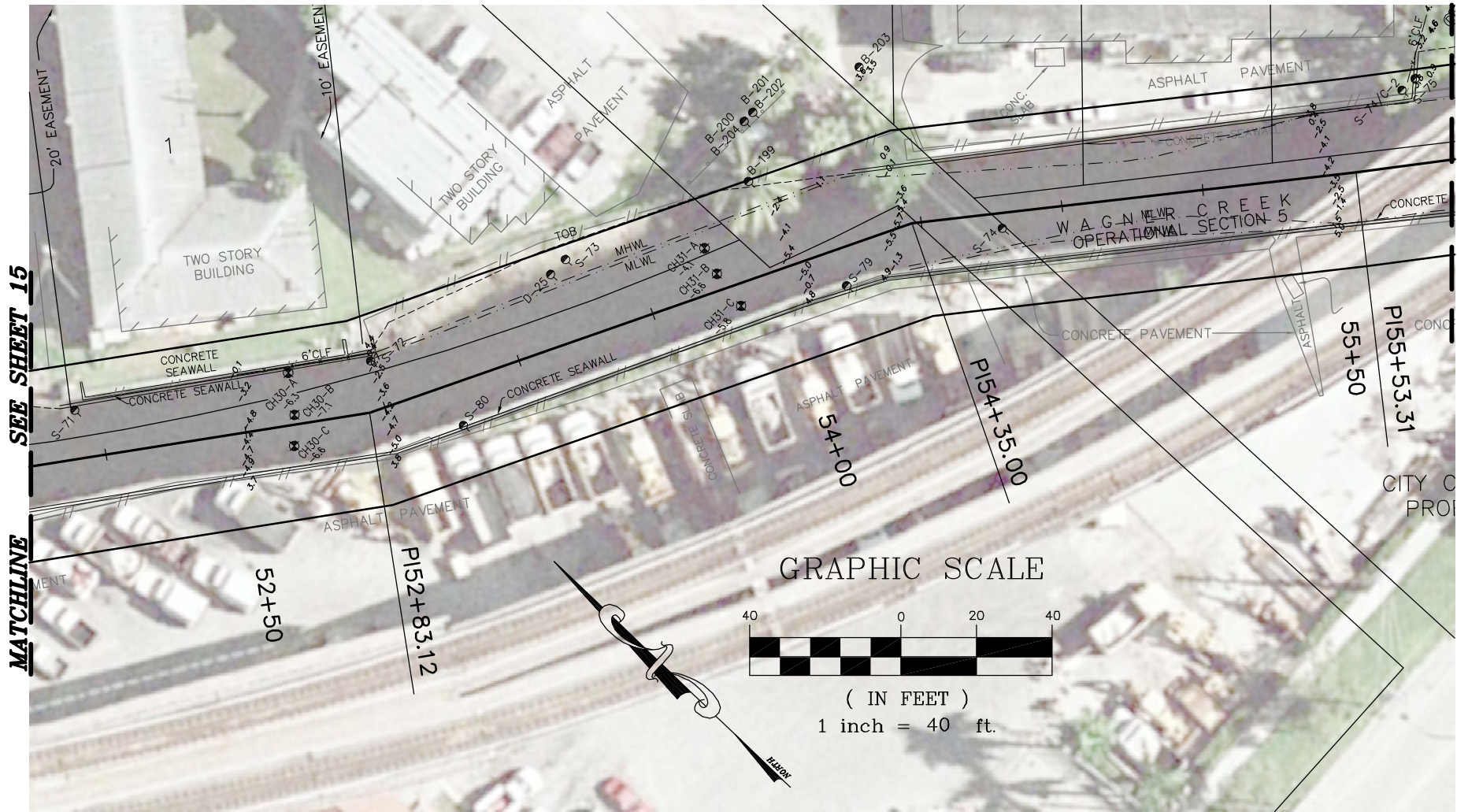
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48+00

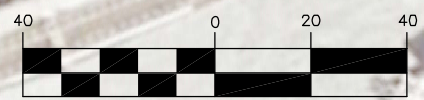
DADE COUNTY TO CITY OF MIAMI
OFFICIAL RECORDS BOOK 2557-694

OPERATIONAL SECTION 5 SHEET 14 OF 23

	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES. MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438	ARC SURVEYING & MAPPING, INC. 5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
			DRAWN BY: JKM DATE: 11-14-08 FIELD BOOK & PAGE: 08-08/08-09 JOB NO.: 07-10-07





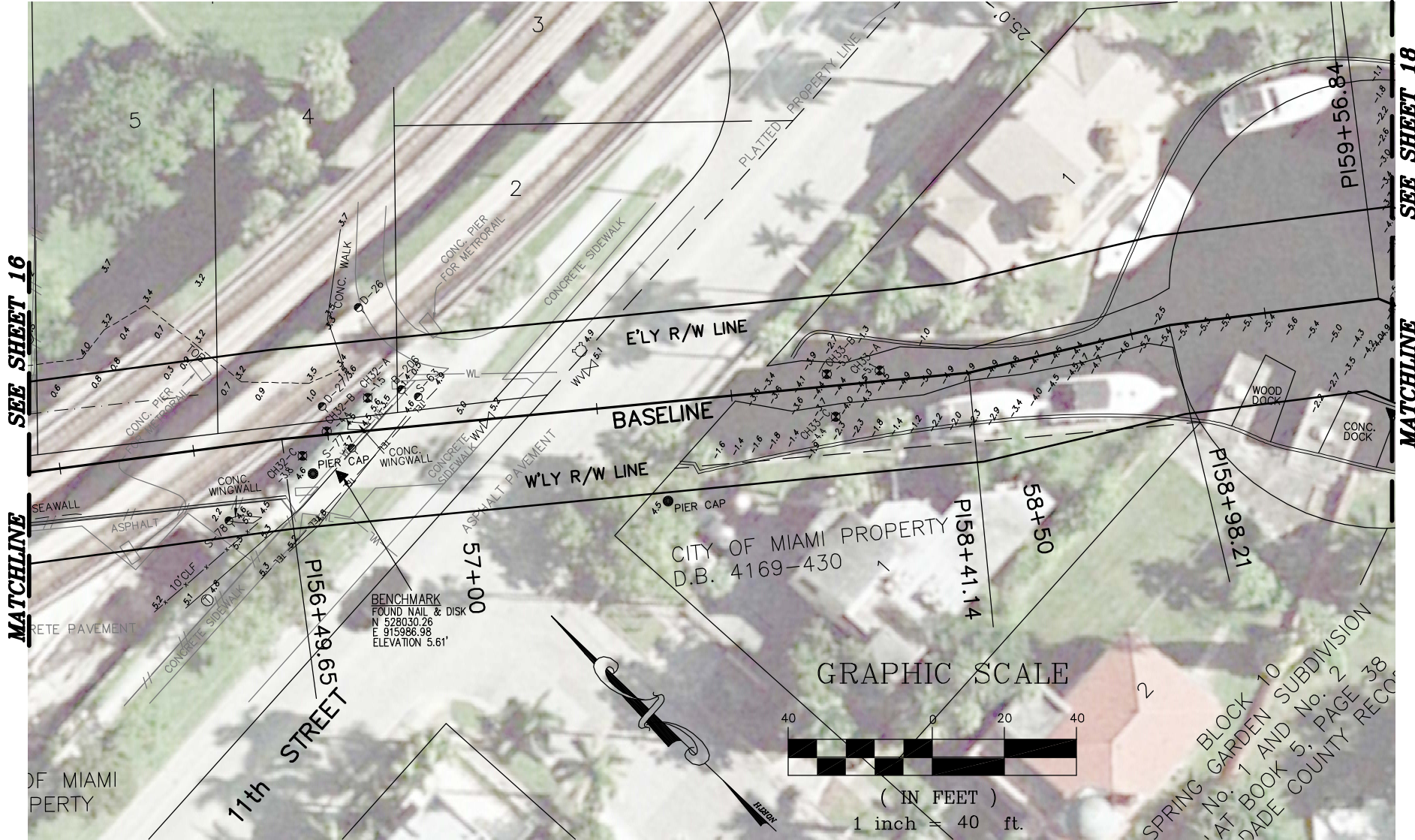
GRAPHIC SCALE





(IN FEET)
1 inch = 40 ft.

OPERATIONAL SECTION 5 SHEET 16 OF 23

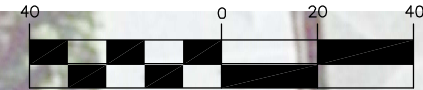
	<p>DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>	<p>CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.</p> <p>MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438</p>	<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <table border="1"> <tr> <td>DRAWN BY: JKM</td> <td>DATE: 11-14-08</td> <td>FIELD BOOK & PAGE 08-08/08-09</td> <td>JOB NO. 07-10-07</td> </tr> </table>	DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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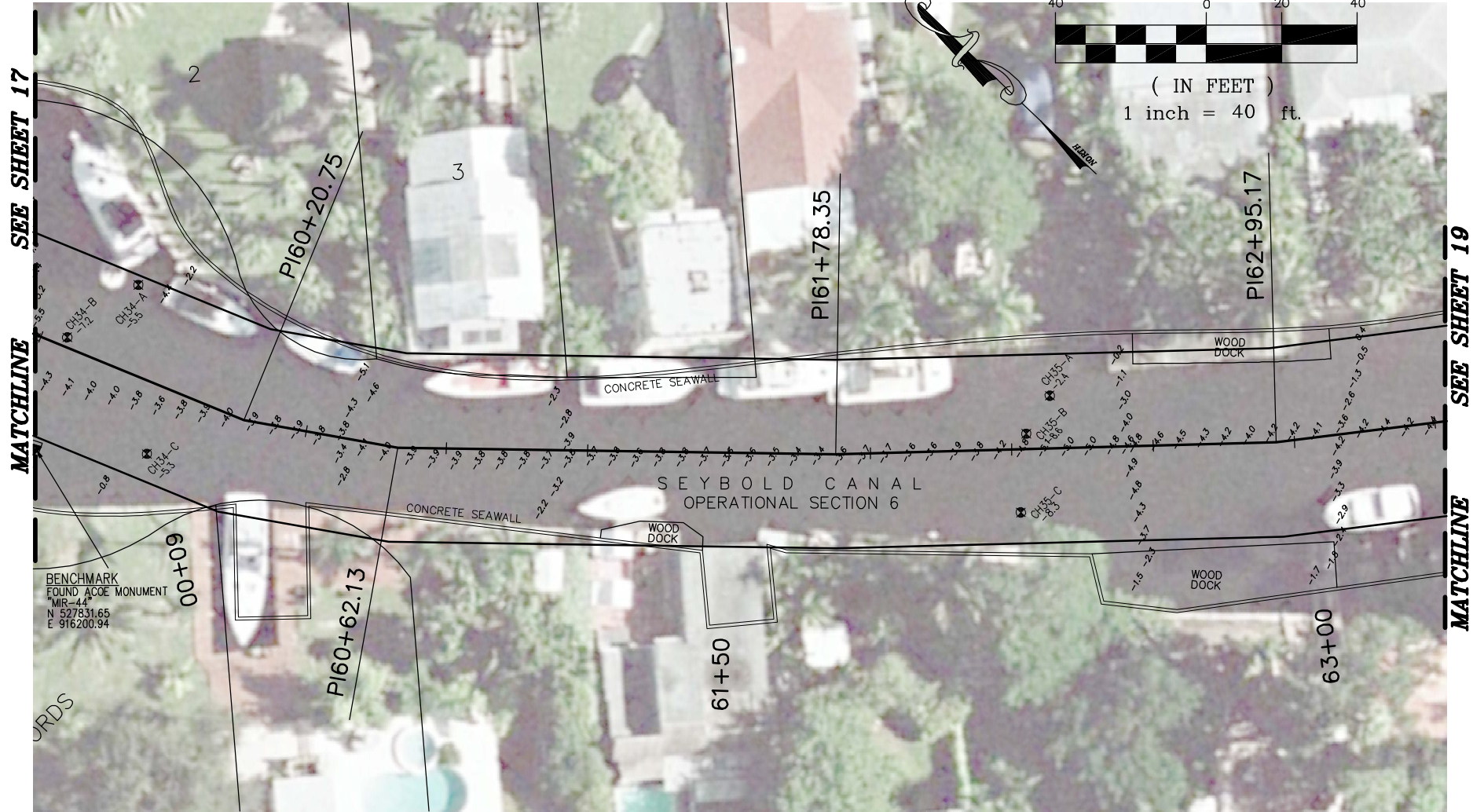
OPERATIONAL SECTION 5 SHEET 17 OF 23

	<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>	<p>CERTIFICATION:</p> <p>I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.</p> <p>MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438</p>	<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>DATE:</td> <td>FIELD BOOK & PAGE</td> <td>JOB NO.</td> </tr> <tr> <td>JKM</td> <td>11-14-08</td> <td>08-08/08-09</td> <td>07-10-07</td> </tr> </table>	DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08	08-08/08-09	07-10-07
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.								
JKM	11-14-08	08-08/08-09	07-10-07								

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.




OPERATIONAL SECTION 6 SHEET 18 OF 23

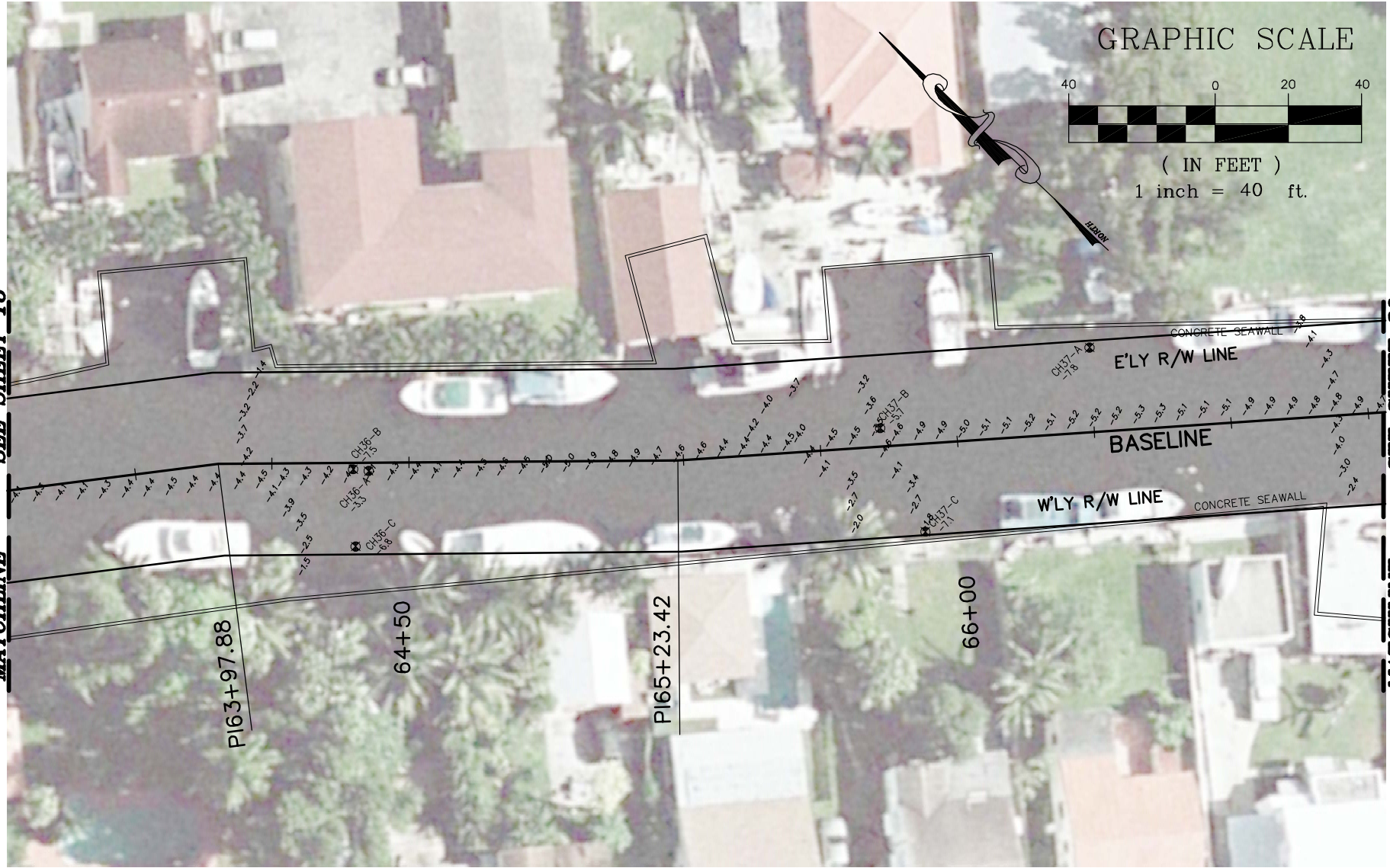


DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA



CERTIFICATION:
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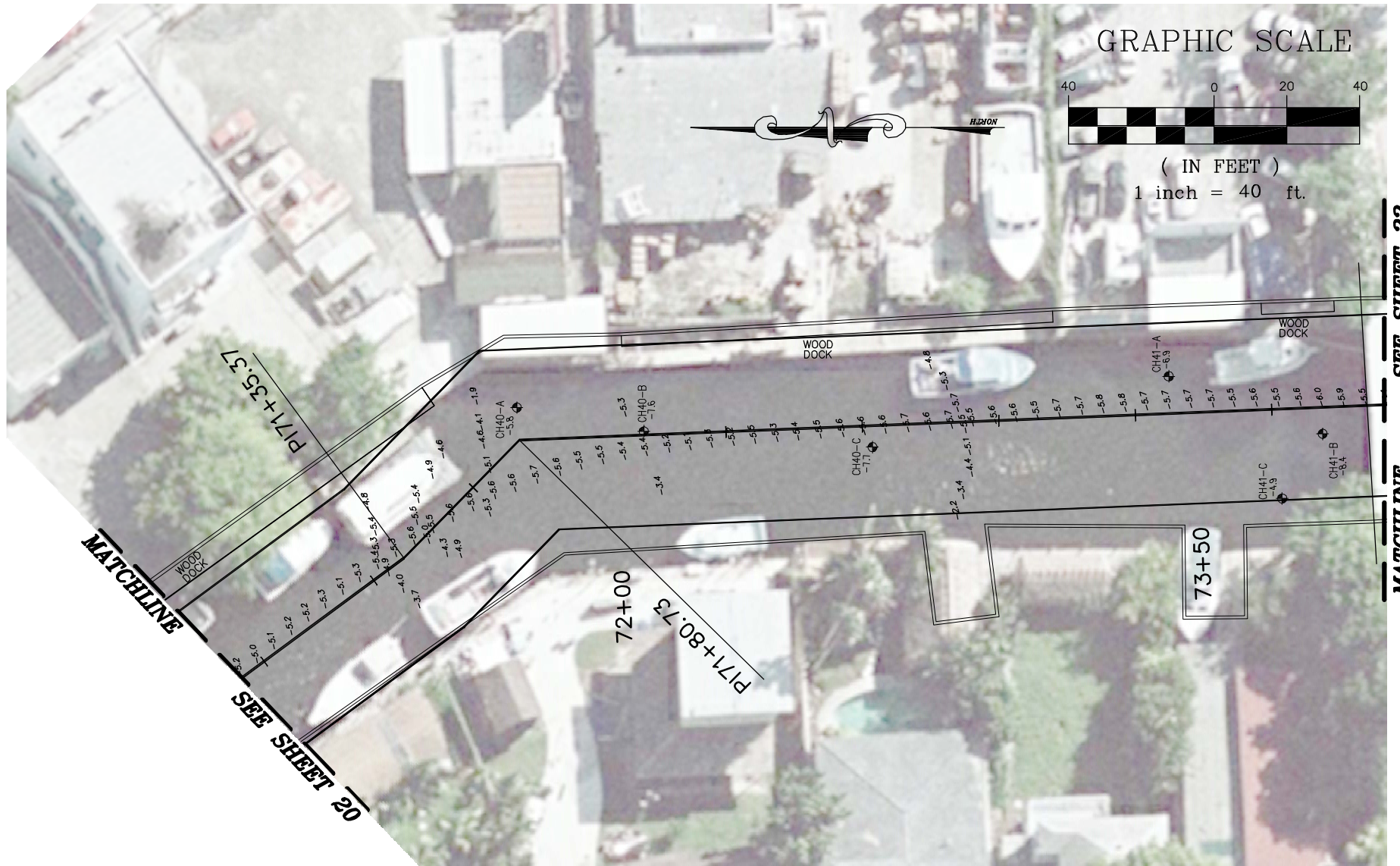
ARC SURVEYING & MAPPING, INC.

5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07



OPERATIONAL SECTION 6 SHEET 19 OF 23

	DADE COUNTY, FLORIDA WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA	CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.	ARC SURVEYING & MAPPING, INC.  5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487
	MITCHELL R. JARRELLS FLORIDA REGISTERED CERTIFICATE. NO. 6438	DRAWN BY: JKM DATE: 11-14-08 FIELD BOOK & PAGE: 08-08/08-09 JOB NO.: 07-10-07	




OPERATIONAL SECTION 6 SHEET 21 OF 23



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
 MIAMI, FLORIDA

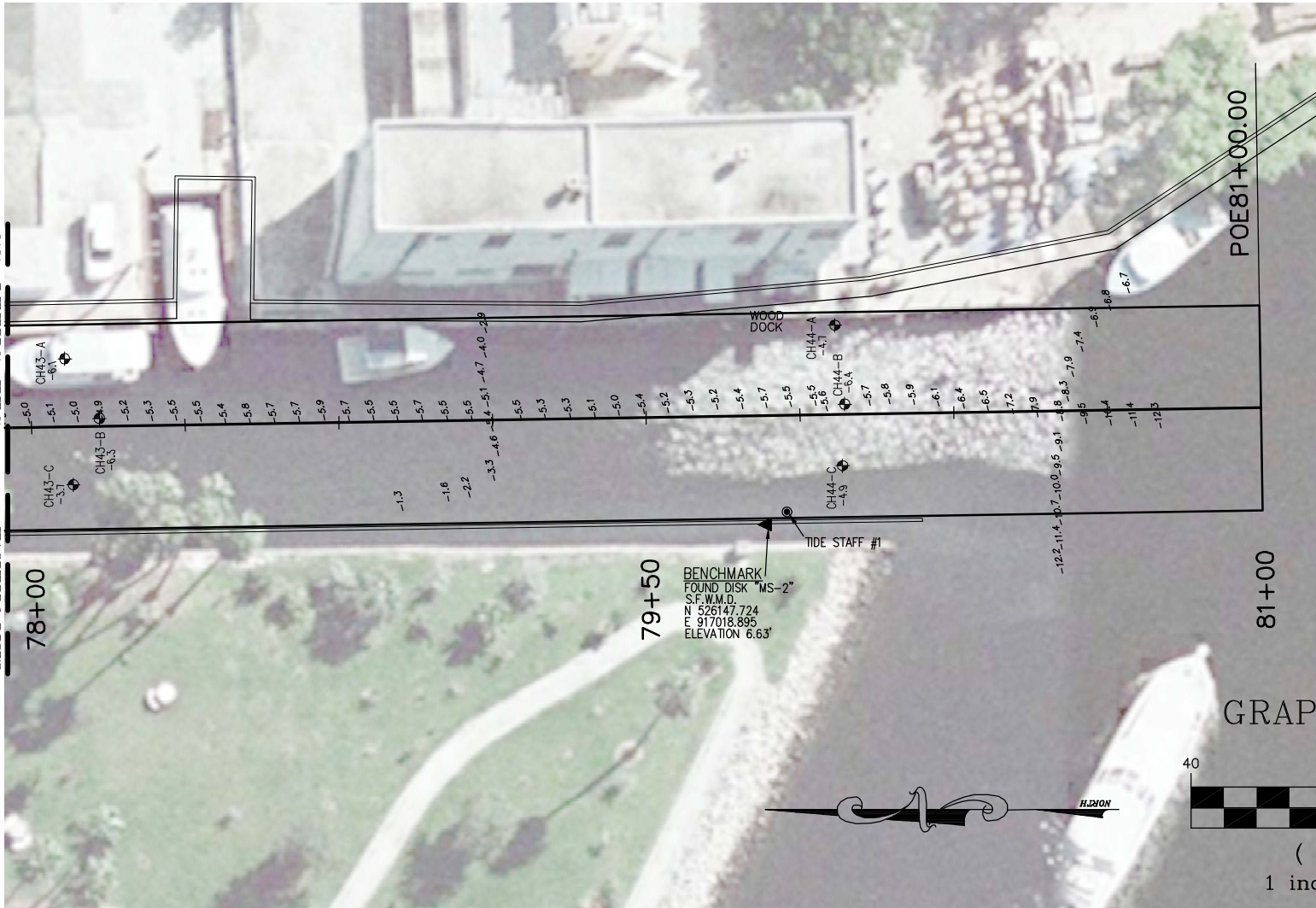
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ARC SURVEYING & MAPPING, INC.

 5202 SAN JUAN AVENUE,
 JACKSONVILLE, FLORIDA 32210
 PHONE: 904/384-8377
 LICENSED BUSINESS NO. 6487

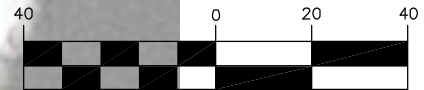
DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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SEE SHEET 22

MATCHLINE





GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

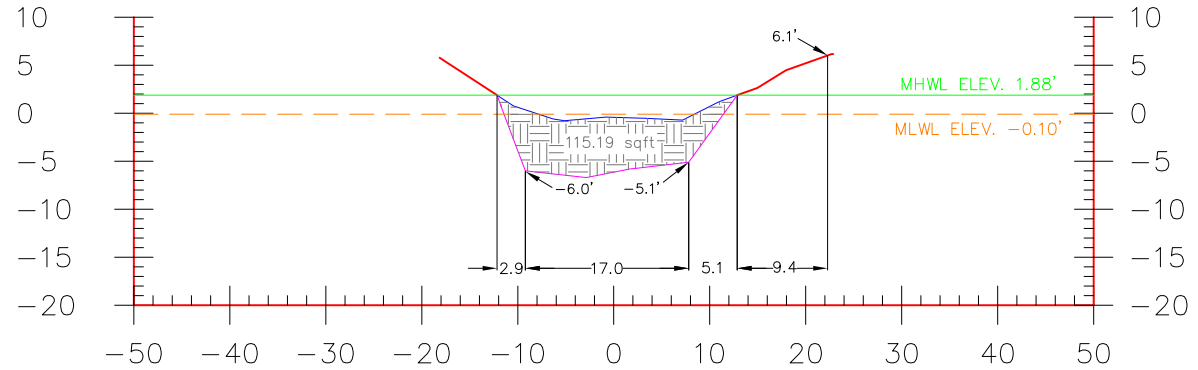
OPERATIONAL SECTION 6 SHEET 23 OF 23

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Volume 3, Section 5

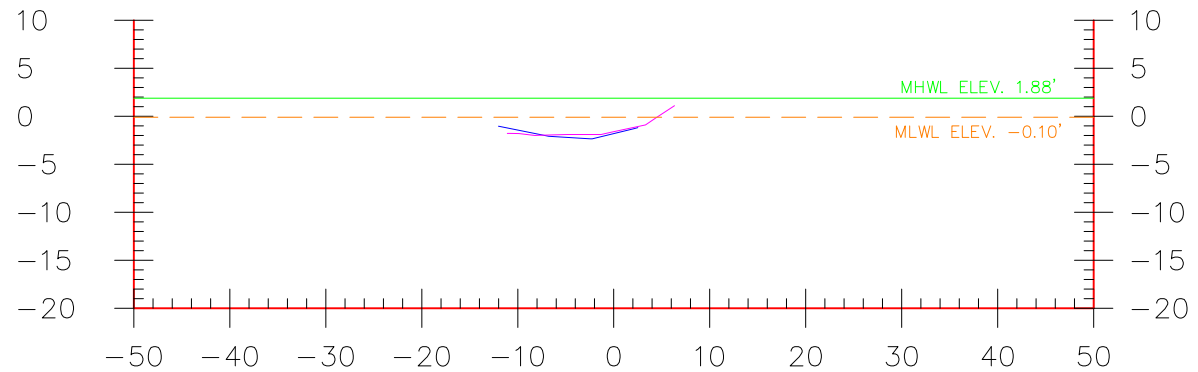
Project Drawings, 8-1/2 x 11, Cross-sections

ELEVATION IN FEET NGVD29



0+50.00

ELEVATION IN FEET NGVD29

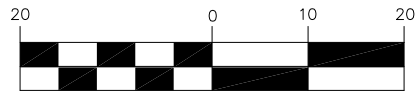


0+03.29
BEGIN WAGNER CREEK

OPERATIONAL SECTION 1









SHEET 1 OF 37

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

-  = SEDIMENT TO BE REMOVED
-  = SLOUGHING VOLUME
-  = NATURAL SOIL/NON SEDIMENT
-  = NATURAL SOIL/SEDIMENT INTERFACE
-  = TOP OF SEDIMENT
-  = 1.88' MEAN HIGH WATER LINE
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-  = 1:3 SLOPE SLOUGHING LINE

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DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



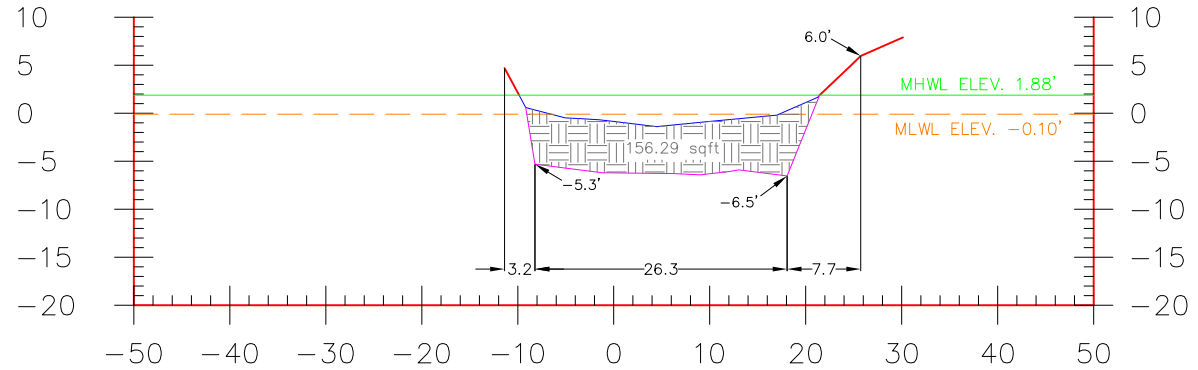
ARC SURVEYING & MAPPING, INC.



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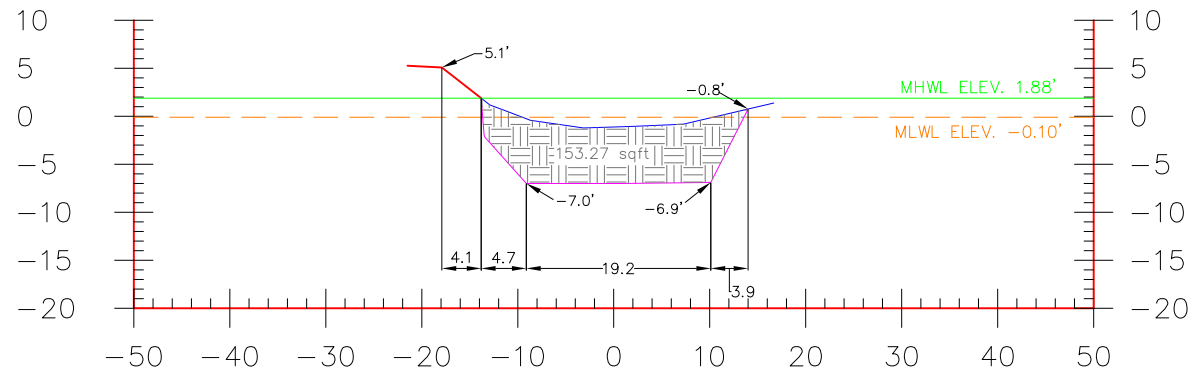
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

ELEVATION IN FEET NGVD29



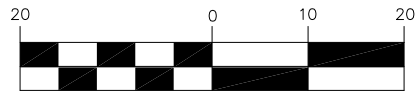
1+85.00

ELEVATION IN FEET NGVD29











1+50.00

GRAPHIC SCALE



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OPERATIONAL SECTION 1

SHEET 2 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



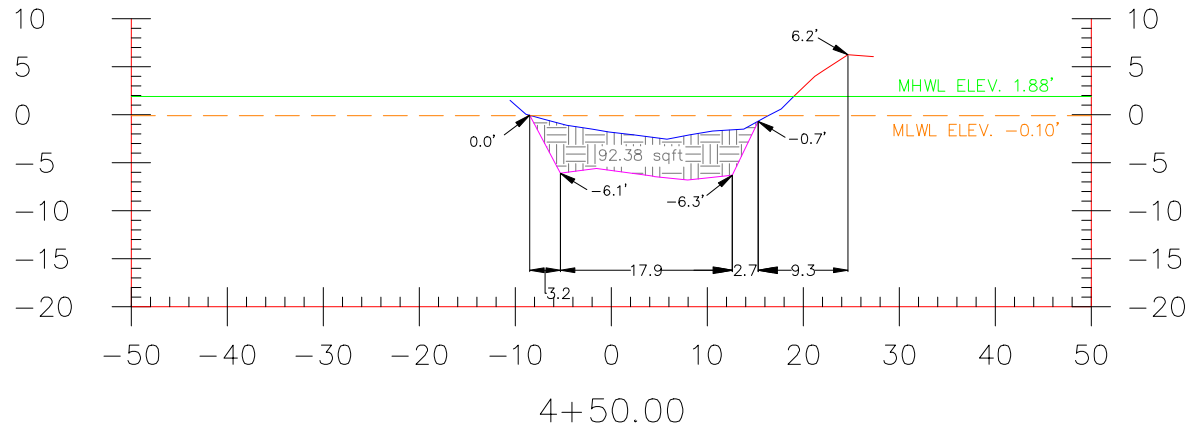
ARC SURVEYING & MAPPING, INC.



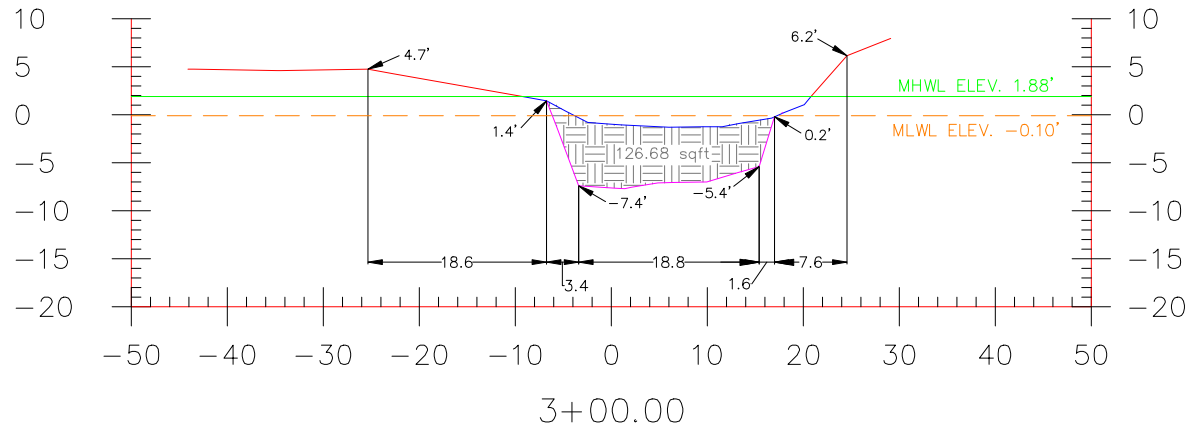
5202 SAN JUAN AVENUE,
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JKM	11-14-08	08-08/08-09	07-10-07

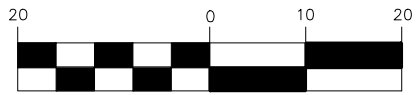
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



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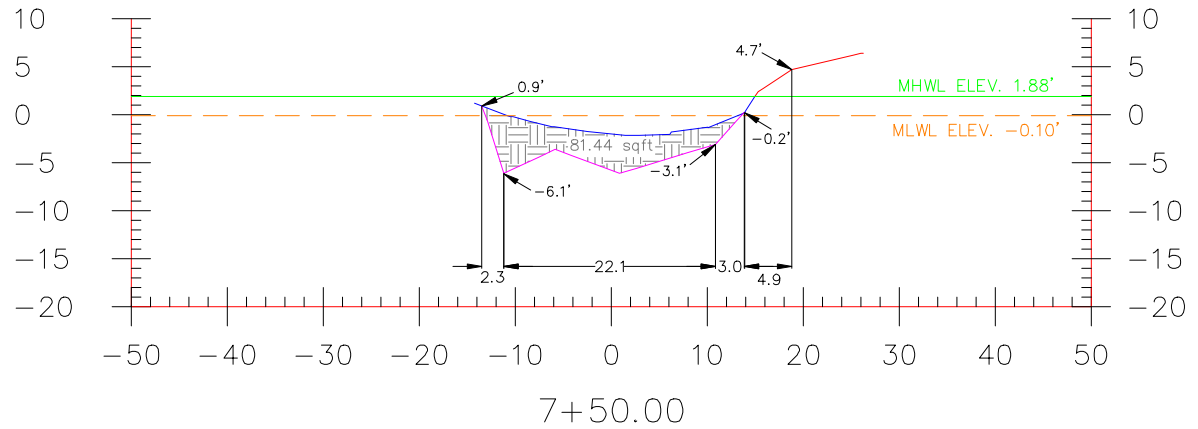
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OPERATIONAL SECTION 1

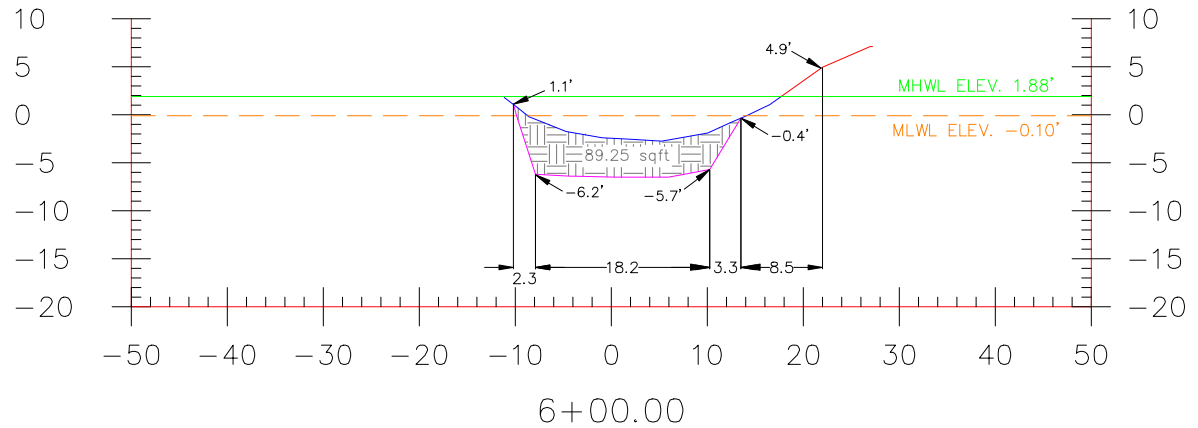
SHEET 3 OF 37

<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>		<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <p>DRAWN BY: JKM DATE: 11-14-08 FIELD BOOK & PAGE: 08-08/08-09 JOB NO.: 07-10-07</p>
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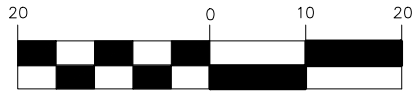
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 1

SHEET 4 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



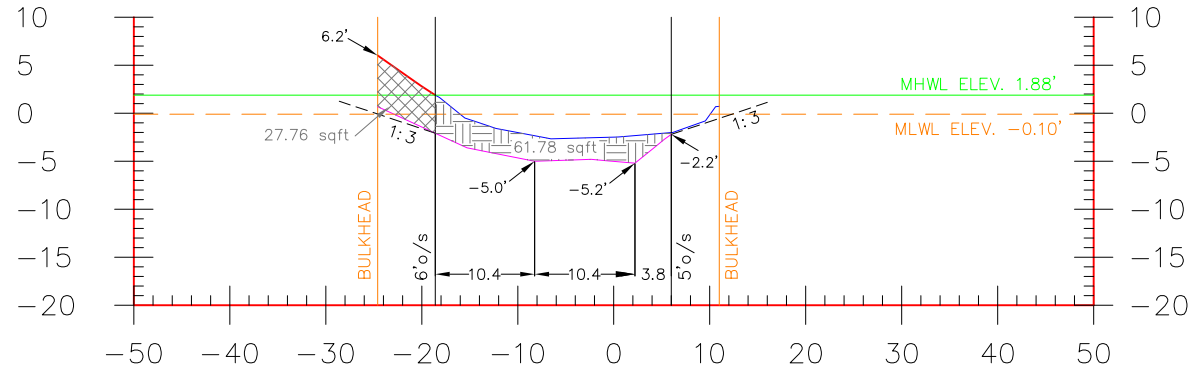
ARC SURVEYING & MAPPING, INC.



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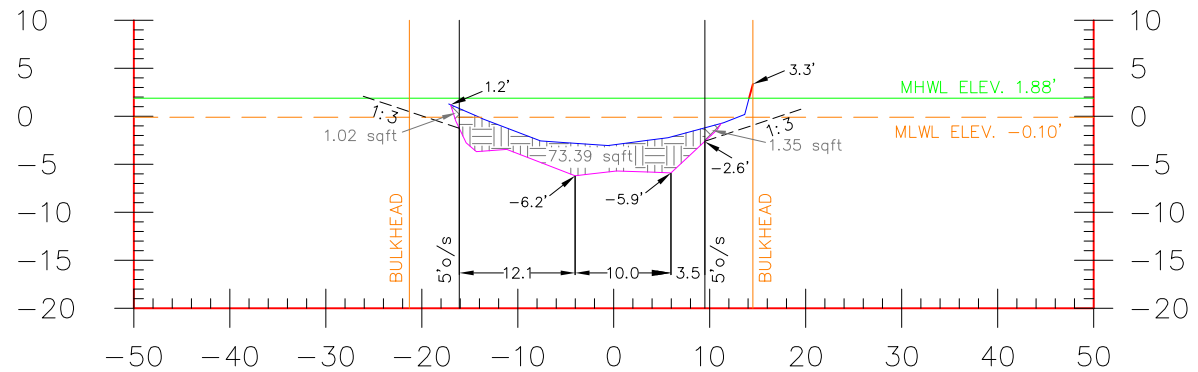
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ELEVATION IN FEET NGVD29



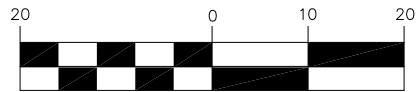
10+50.00

ELEVATION IN FEET NGVD29











9+00.00

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OPERATIONAL SECTION 1

SHEET 5 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



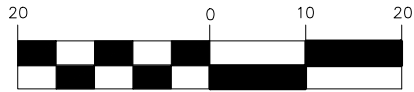
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GRAPHIC SCALE



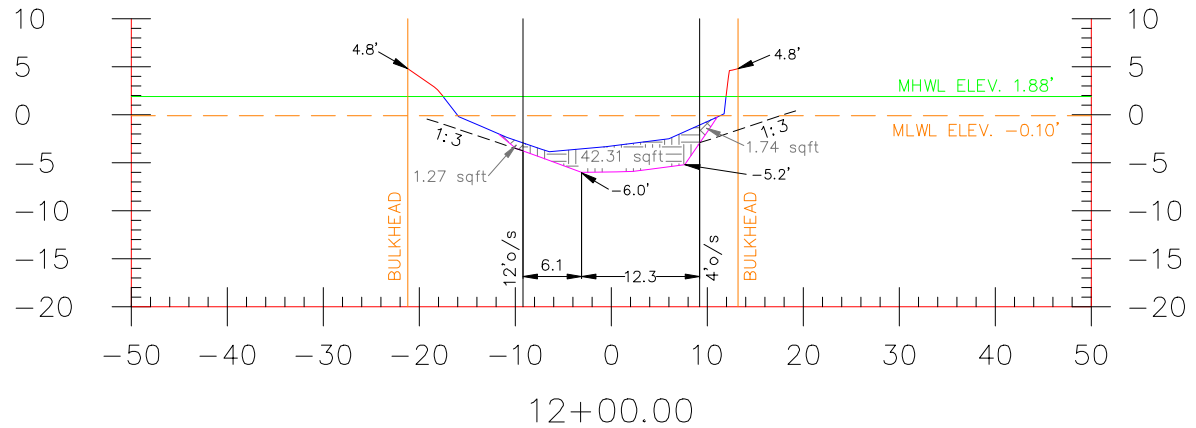
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ELEVATION IN FEET NGVD29



OPERATIONAL SECTION 1

SHEET 6 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



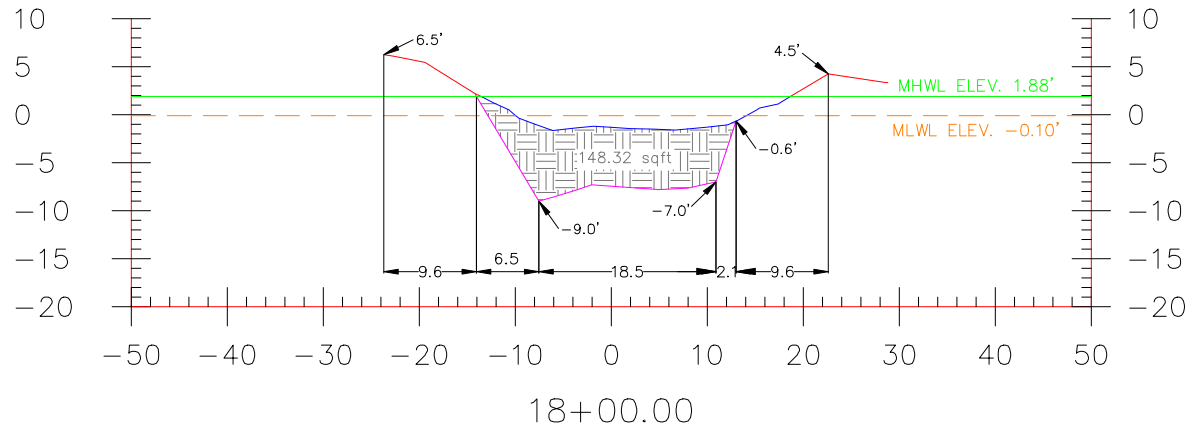
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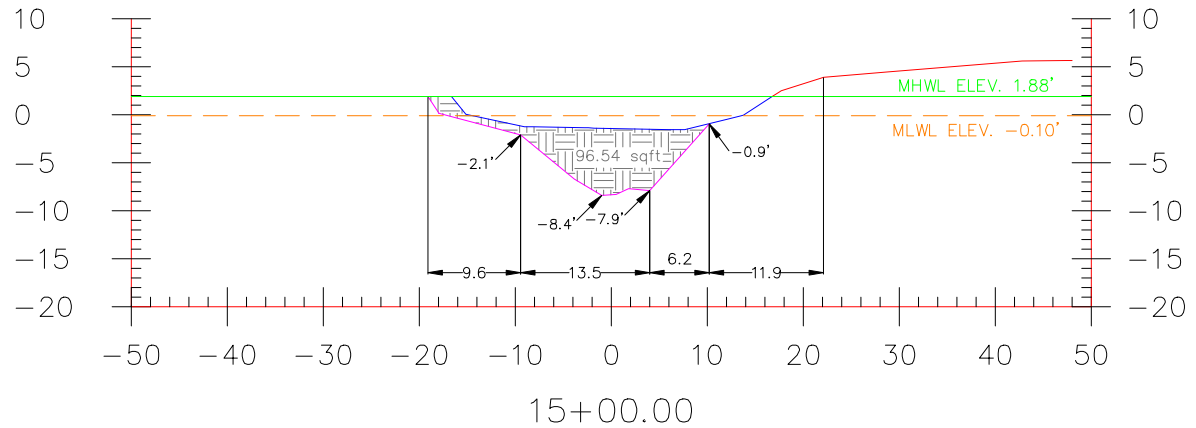
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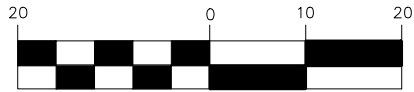
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










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OPERATIONAL SECTION 2

SHEET 7 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



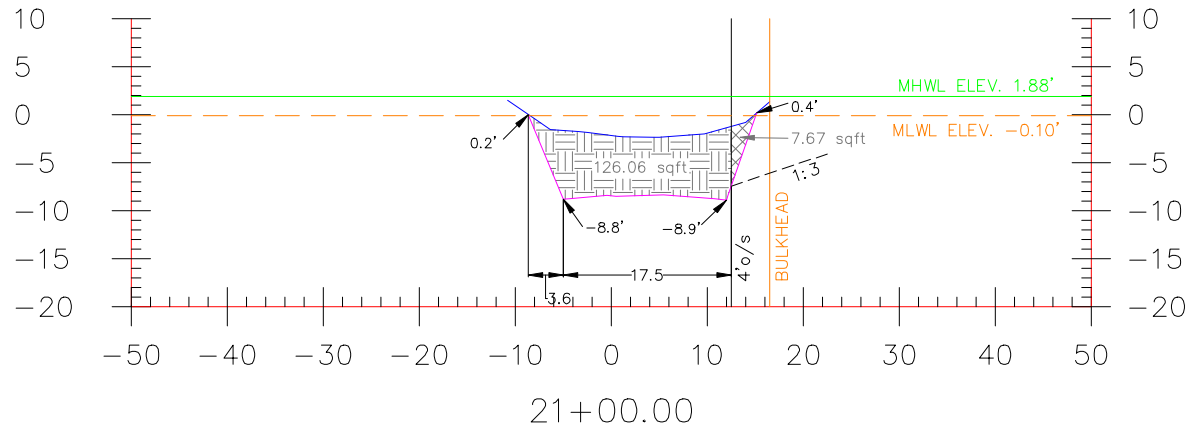
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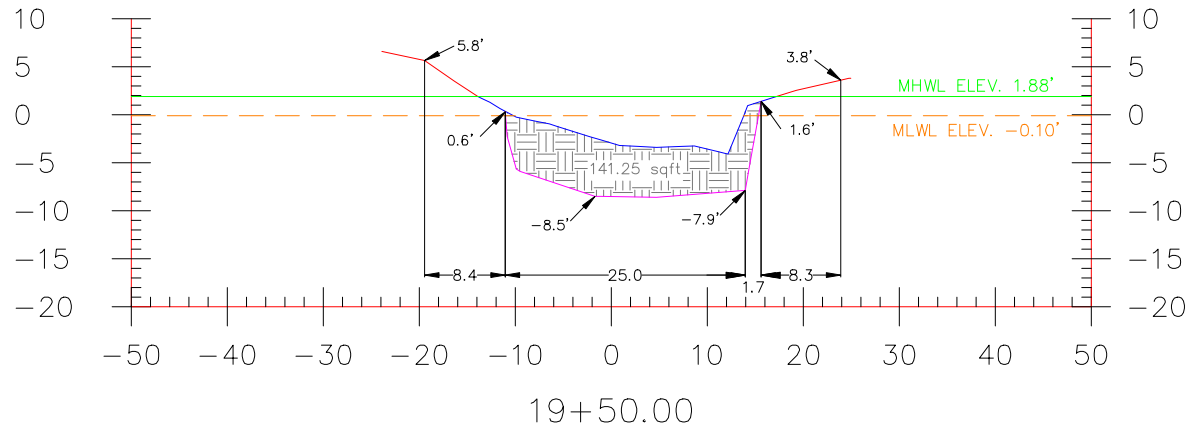
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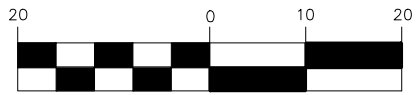
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










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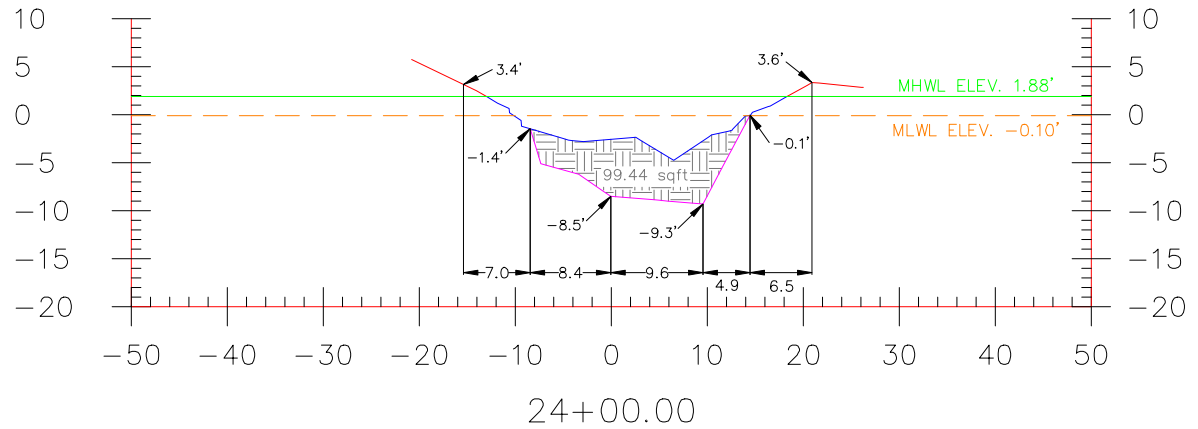
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OPERATIONAL SECTION 2

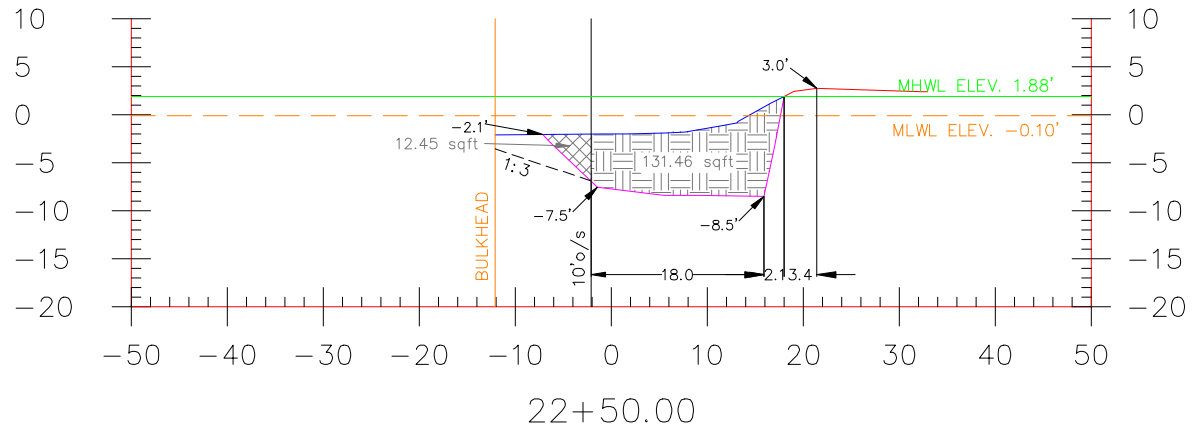
SHEET 8 OF 37

<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>		<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>DATE:</td> <td>FIELD BOOK & PAGE</td> <td>JOB NO.</td> </tr> <tr> <td>JKM</td> <td>11-14-08</td> <td>08-08/08-09</td> <td>07-10-07</td> </tr> </table>	DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08	08-08/08-09	07-10-07
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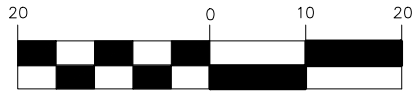
ELEVATION IN FEET NGVD29



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OPERATIONAL SECTION 2

SHEET 9 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



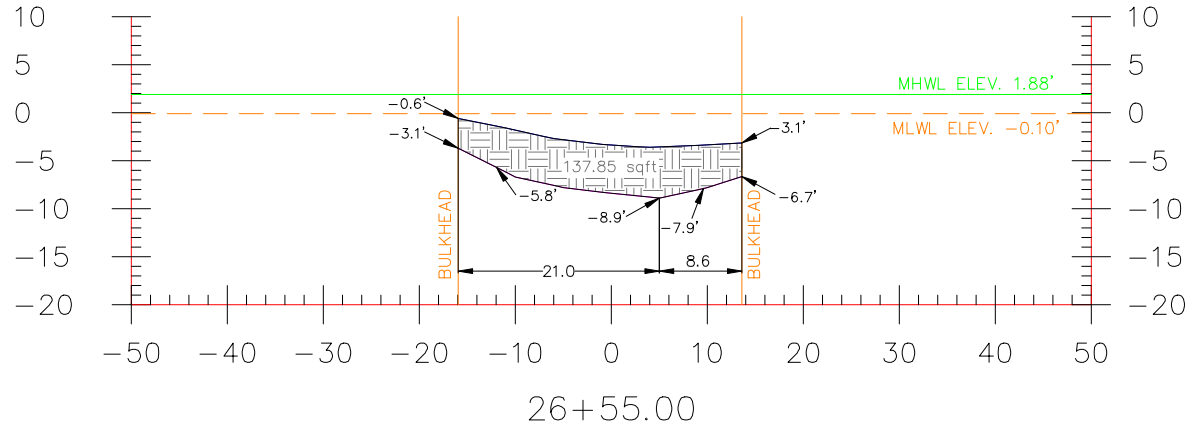
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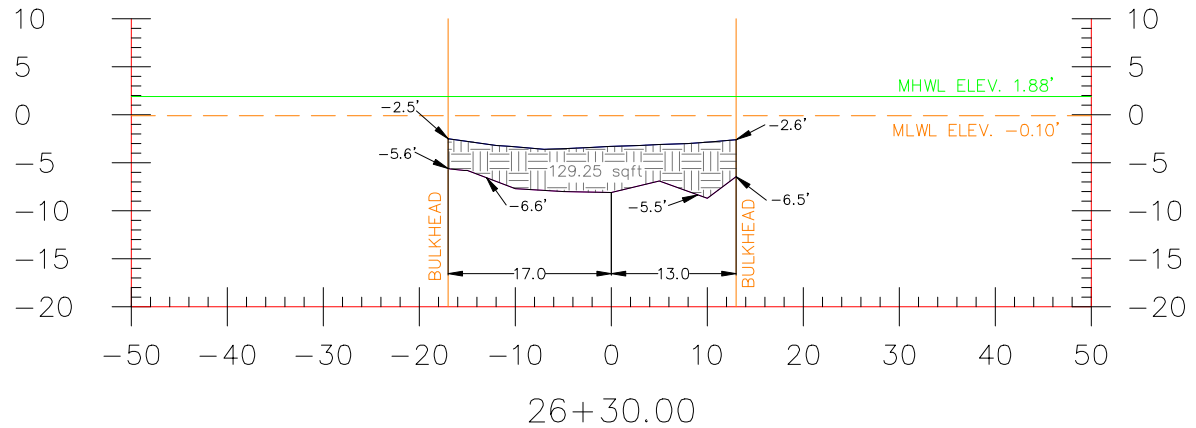
5202 SAN JUAN AVENUE,
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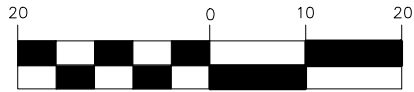
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 3

SHEET 10 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



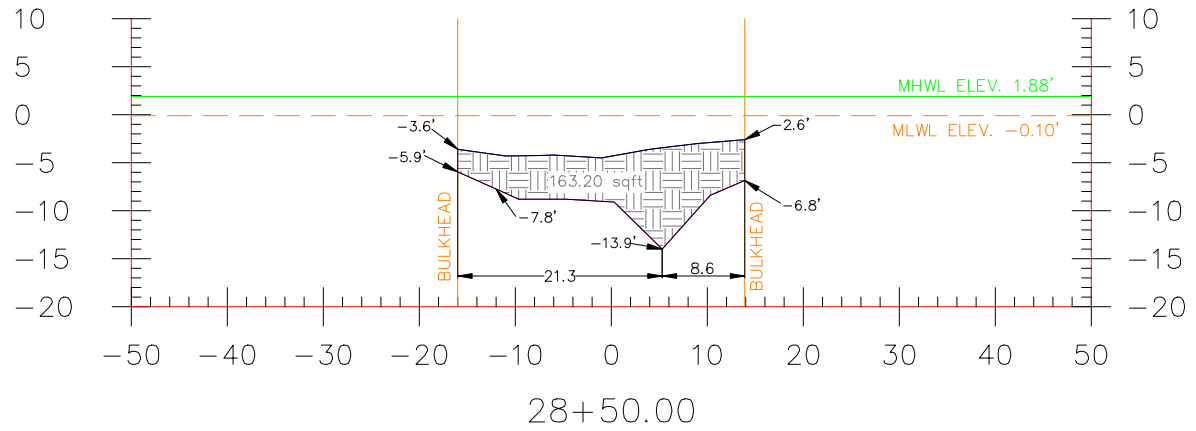
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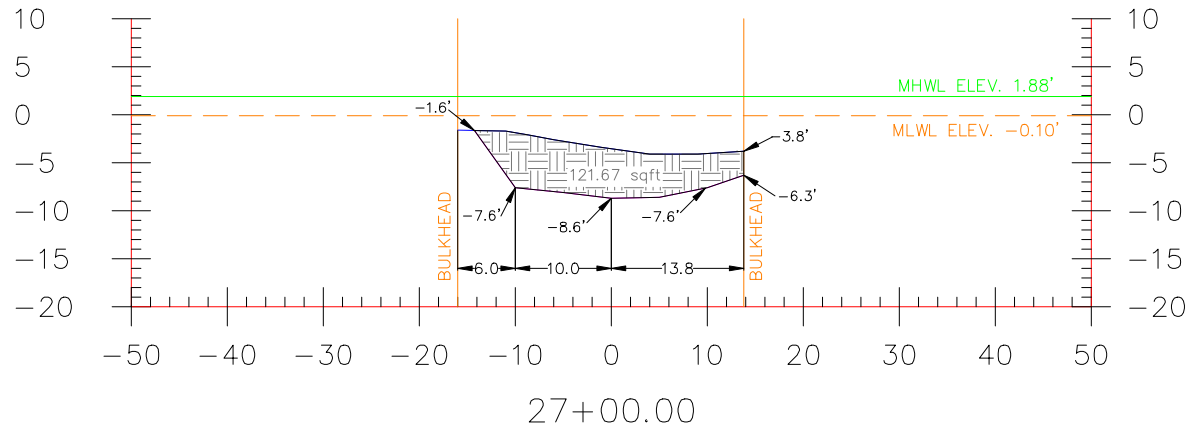
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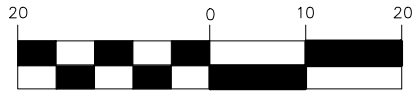
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29












GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

-  = SEDIMENT TO BE REMOVED
-  = SLOUGHING VOLUME
-  = NATURAL SOIL/NON SEDIMENT
-  = NATURAL SOIL/SEDIMENT INTERFACE
-  = TOP OF SEDIMENT
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-  = NGVD29
-  = 1:3 SLOPE SLOUGHING LINE

NOTE: THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.

OPERATIONAL SECTION 3

SHEET 11 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



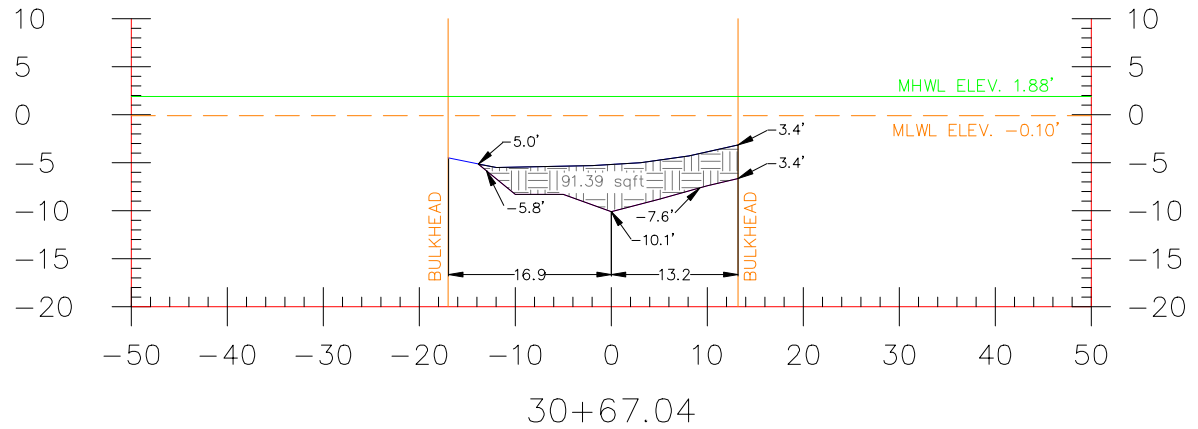
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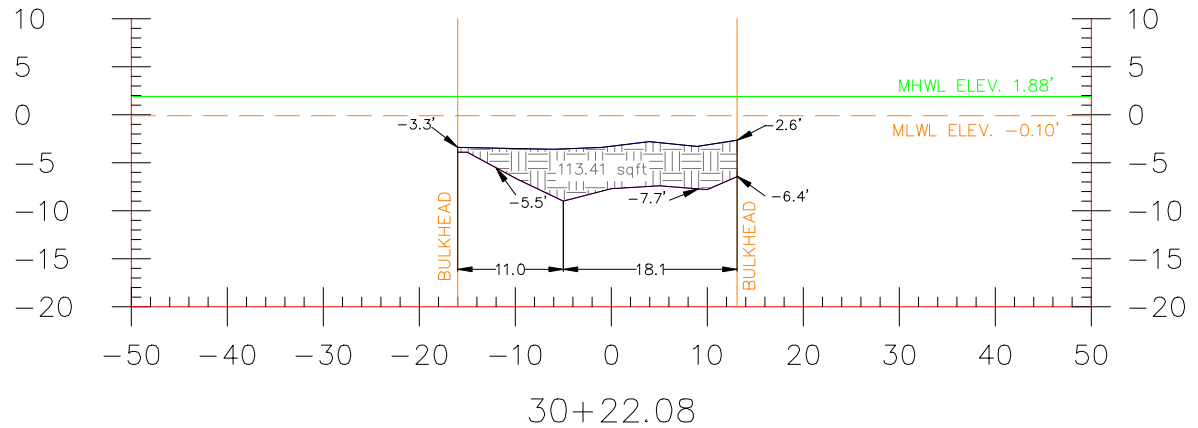
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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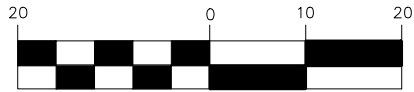
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 3

SHEET 12 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



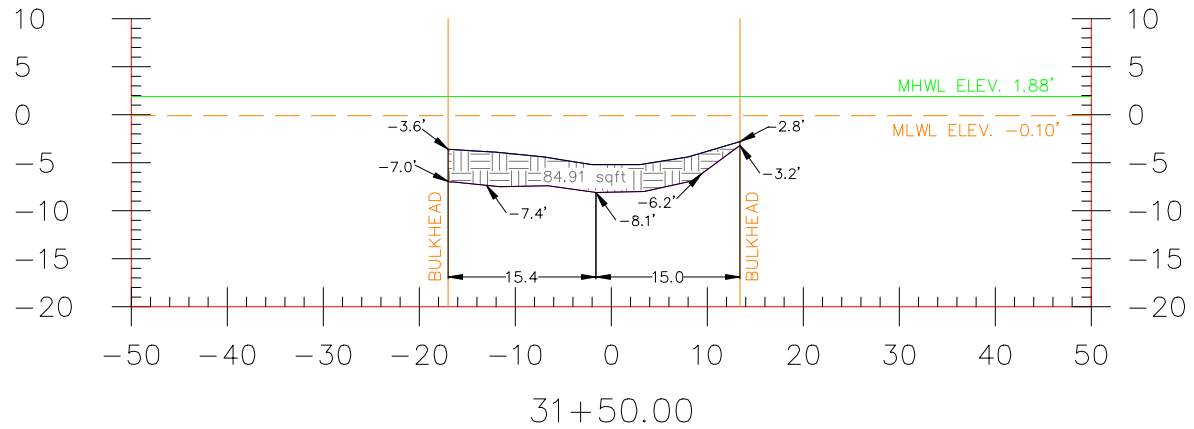
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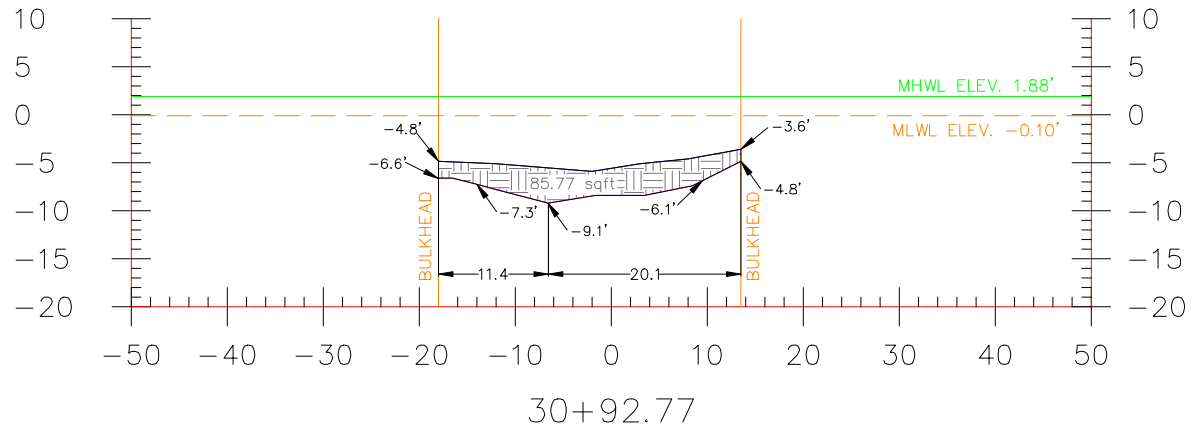
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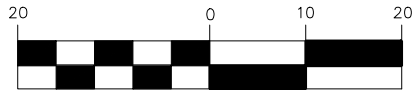
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 3

SHEET 13 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



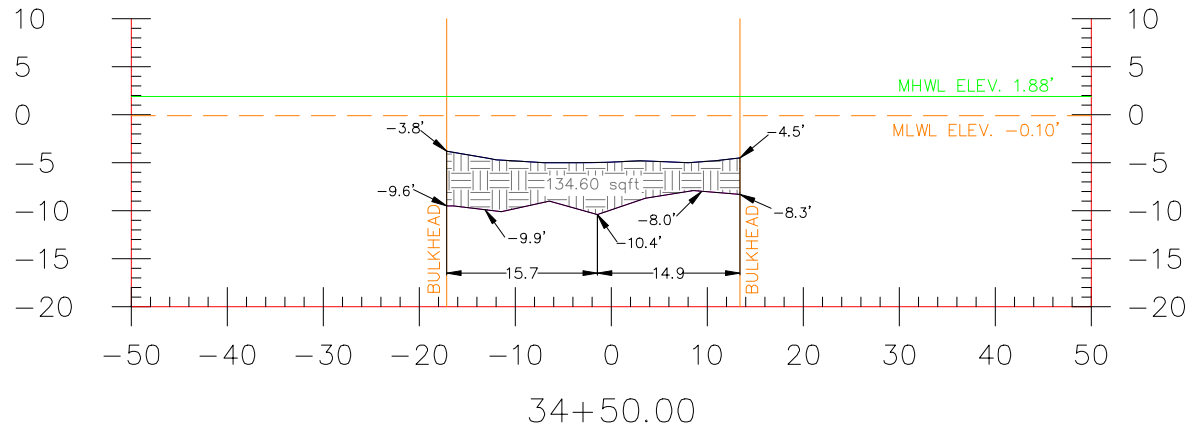
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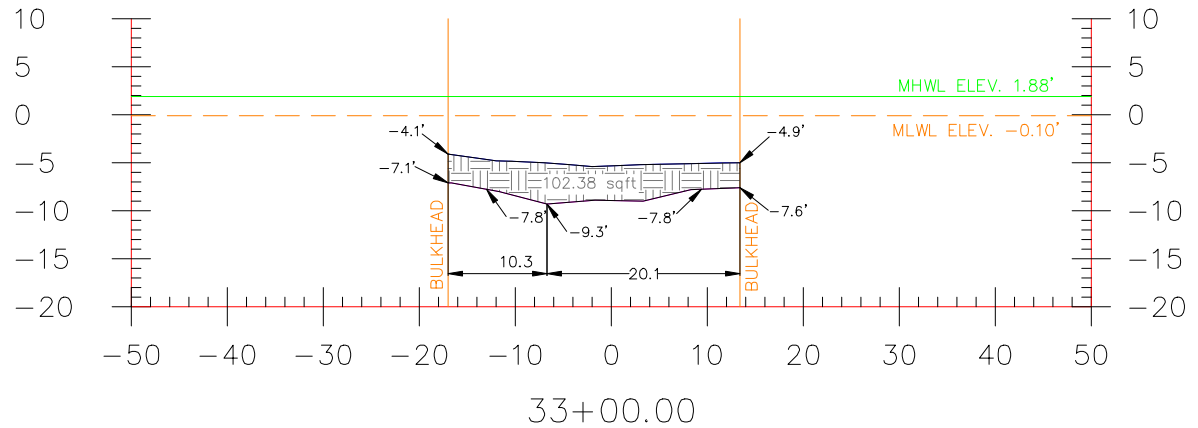
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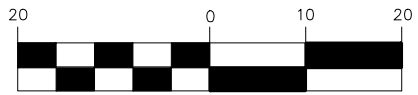
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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LEGEND

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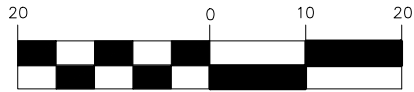
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OPERATIONAL SECTION 3

SHEET 14 OF 37

<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>		<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>DATE:</td> <td>FIELD BOOK & PAGE</td> <td>JOB NO.</td> </tr> <tr> <td>JKM</td> <td>11-14-08</td> <td>08-08/08-09</td> <td>07-10-07</td> </tr> </table>	DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08	08-08/08-09	07-10-07
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JKM	11-14-08	08-08/08-09	07-10-07							

GRAPHIC SCALE



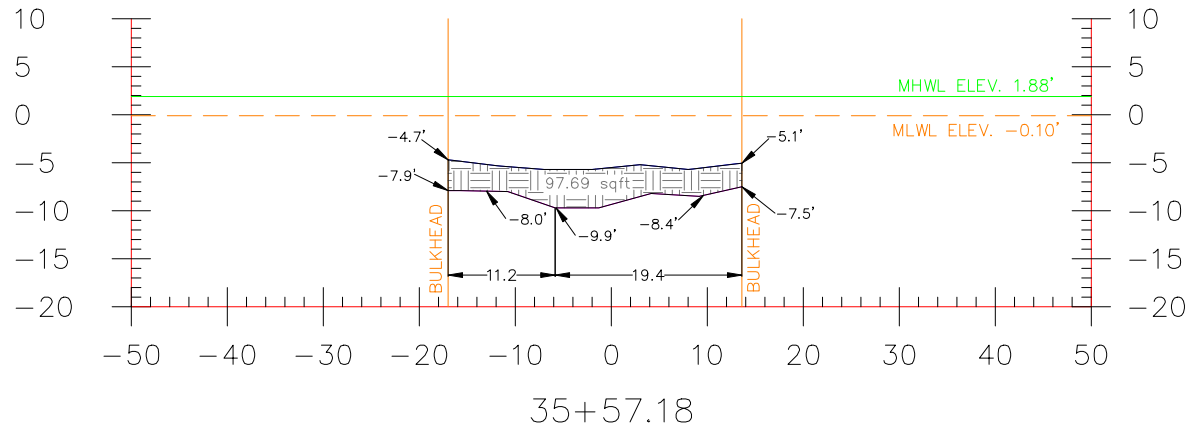
(IN FEET)
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LEGEND

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ELEVATION IN FEET NGVD29



OPERATIONAL SECTION 3

SHEET 15 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



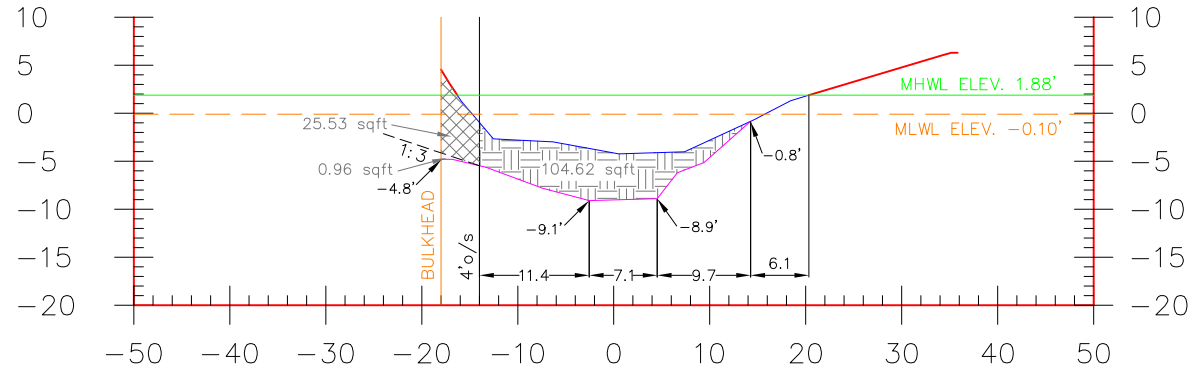
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

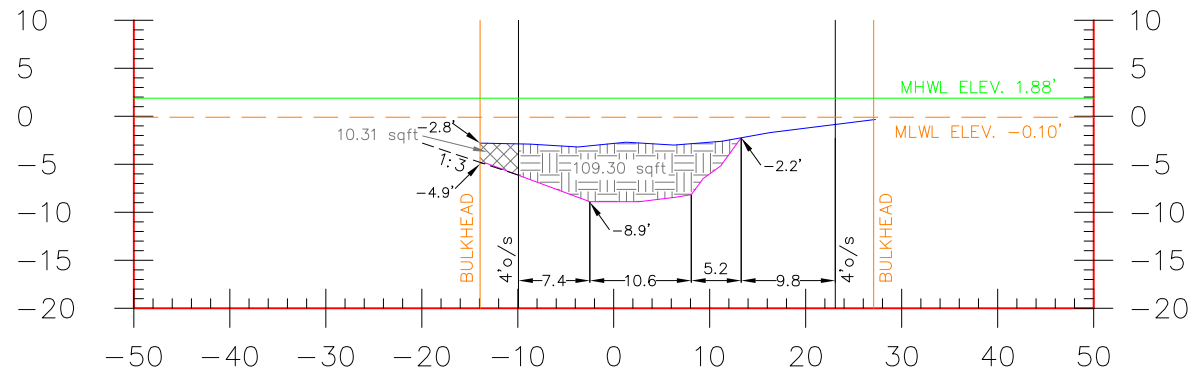
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ELEVATION IN FEET NGVD29



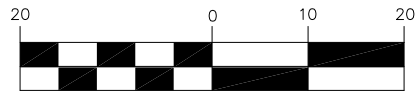
39+00.00

ELEVATION IN FEET NGVD29











38+25.00

GRAPHIC SCALE



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LEGEND

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OPERATIONAL SECTION 4

SHEET 16 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



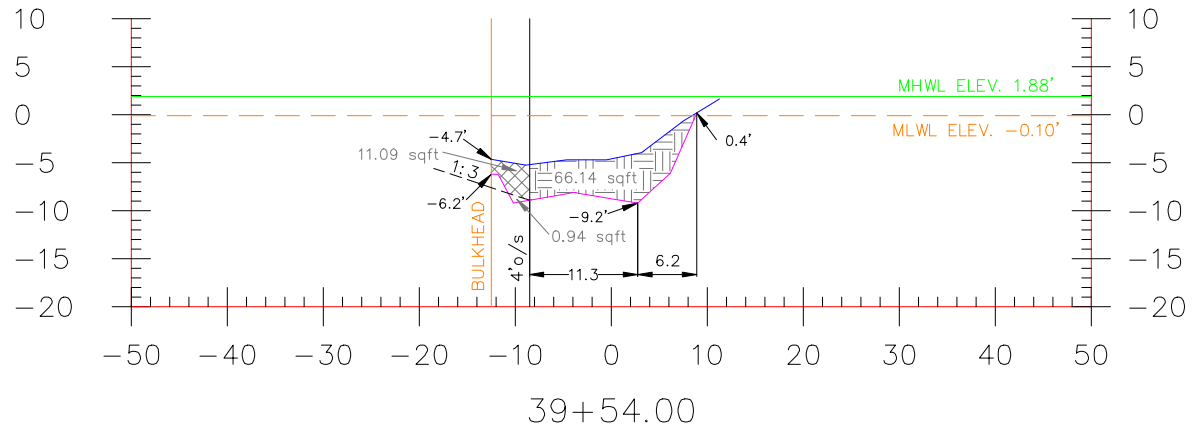
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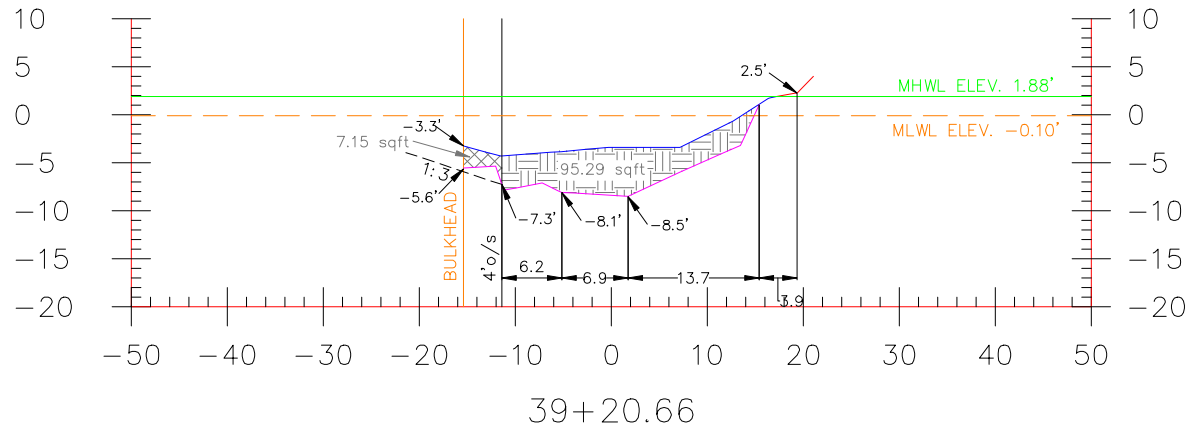
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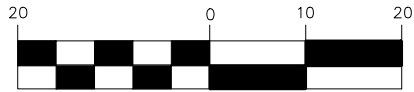
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 4

SHEET 17 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



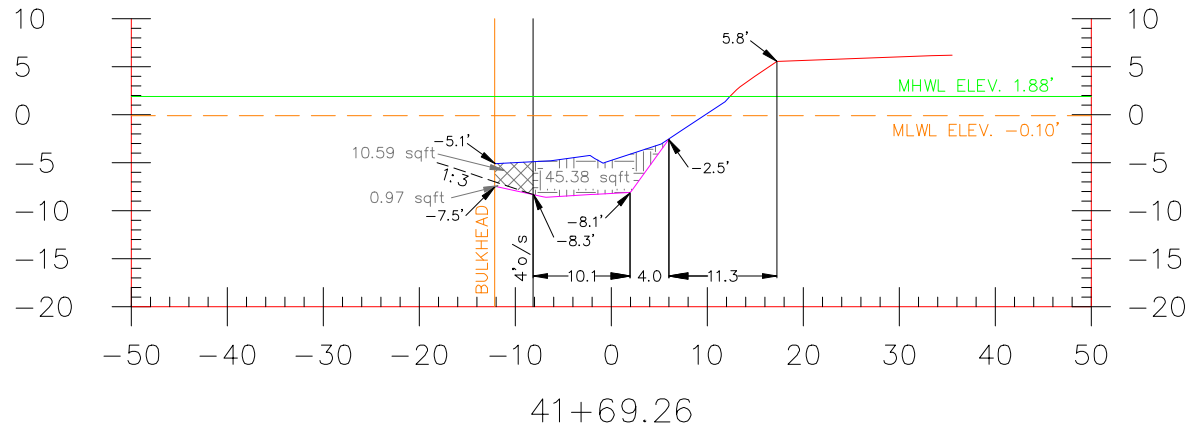
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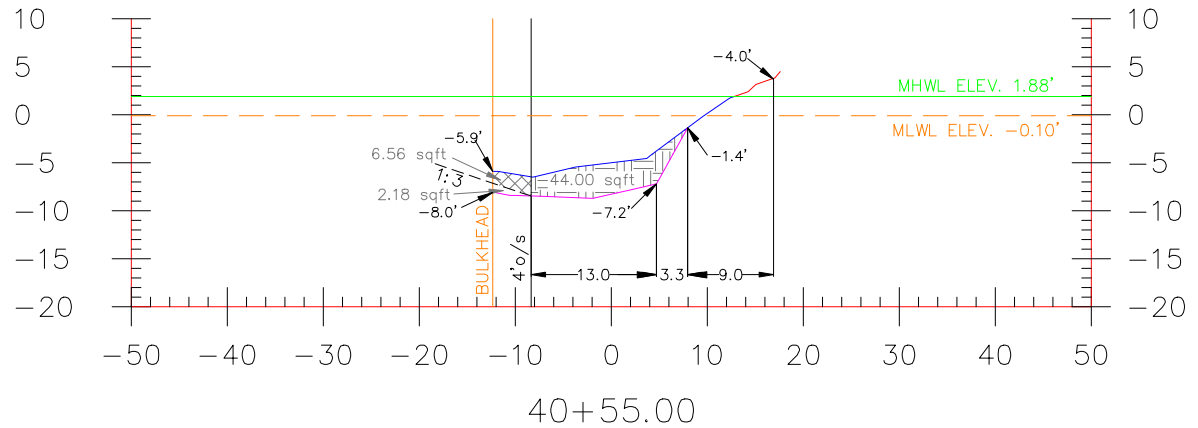
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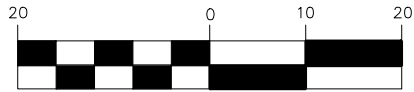
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29



GRAPHIC SCALE



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OPERATIONAL SECTION 4

SHEET 18 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



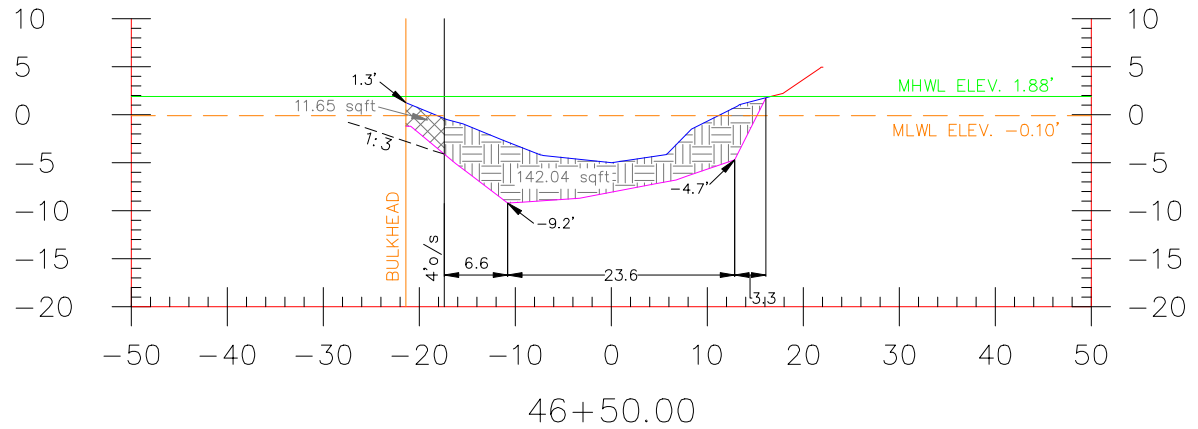
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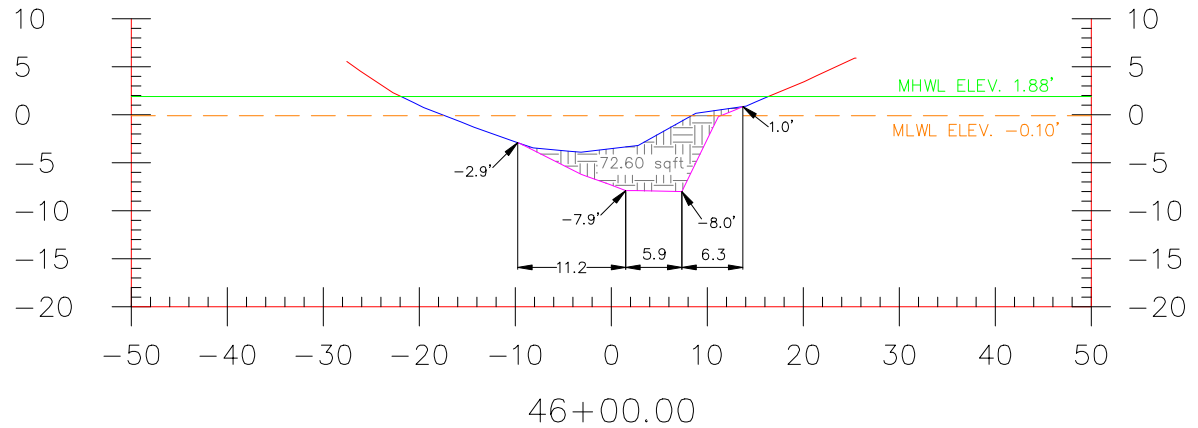
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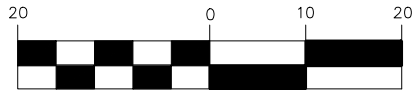
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29



GRAPHIC SCALE



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OPERATIONAL SECTION 5

SHEET 20 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



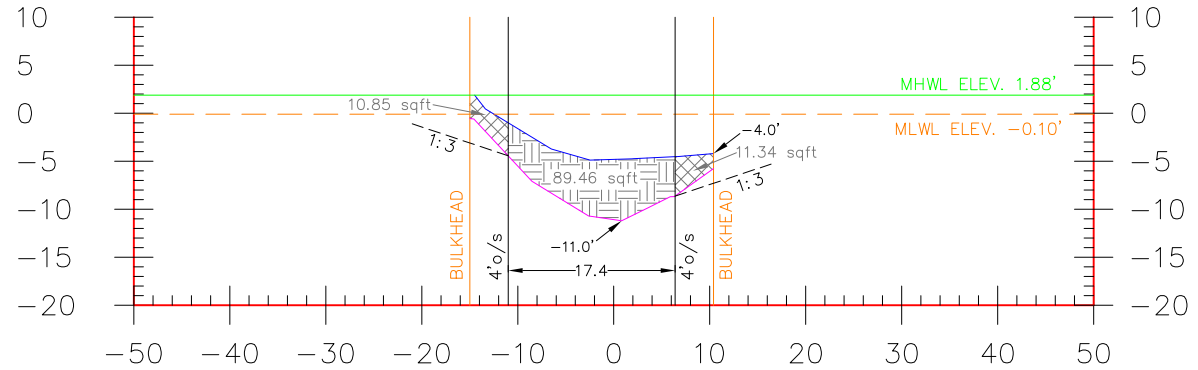
ARC SURVEYING & MAPPING, INC.



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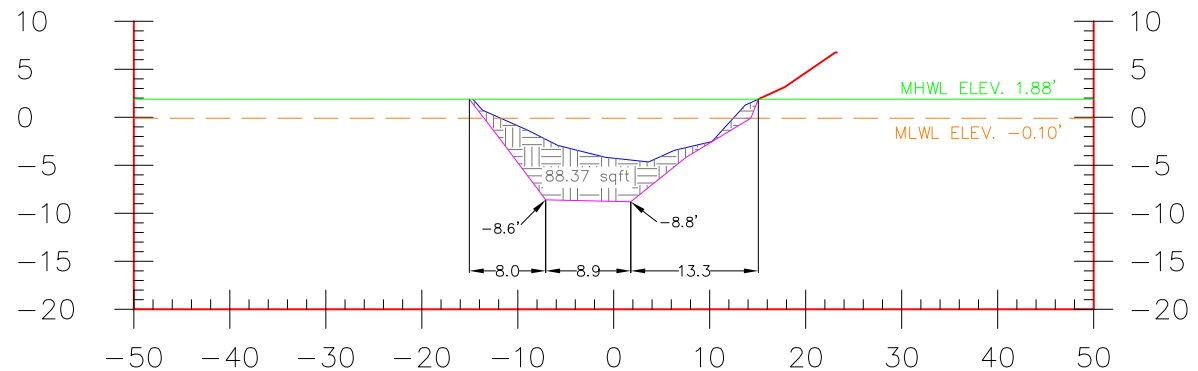
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ELEVATION IN FEET NGVD29



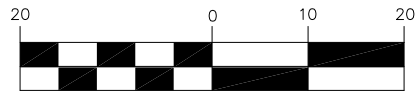
49+50.00

ELEVATION IN FEET NGVD29











48+00.00

GRAPHIC SCALE



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OPERATIONAL SECTION 5

SHEET 21 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



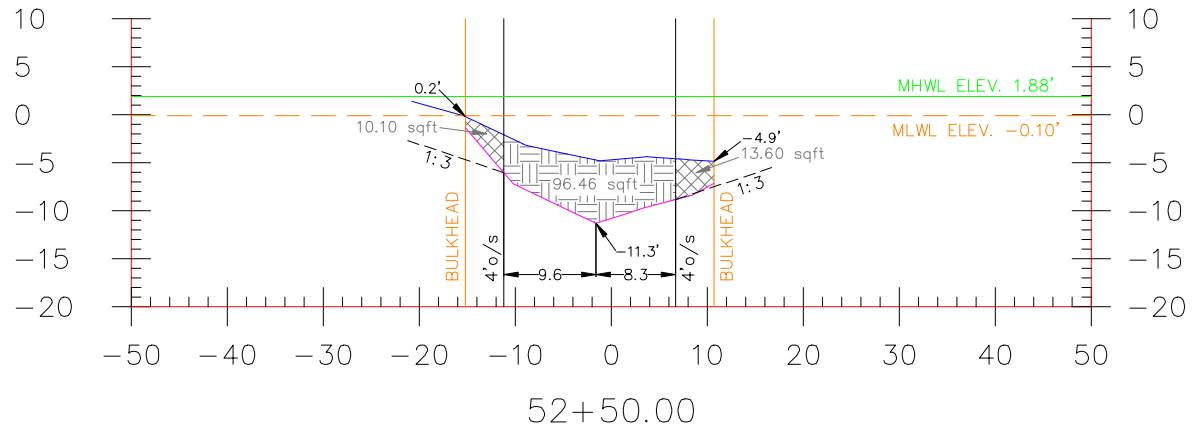
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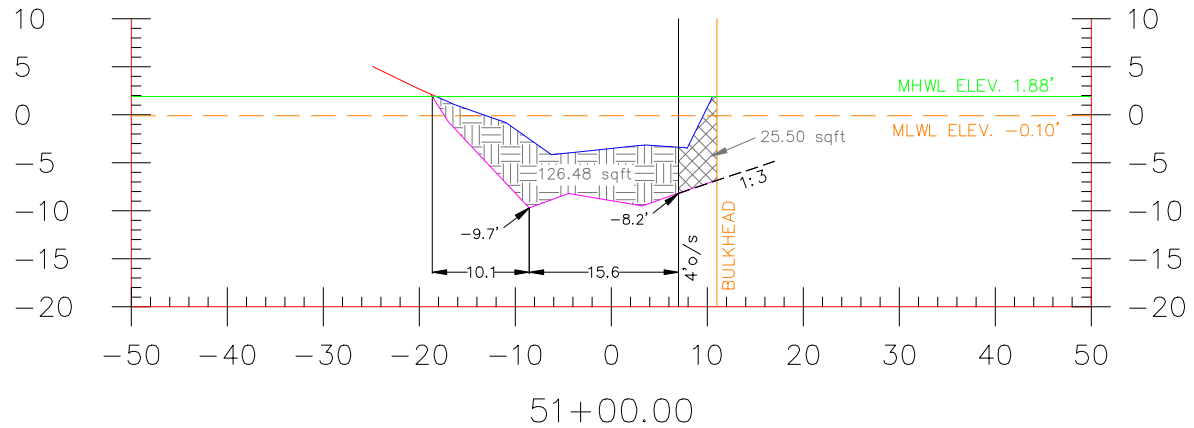
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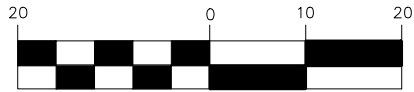
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



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OPERATIONAL SECTION 5

SHEET 22 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



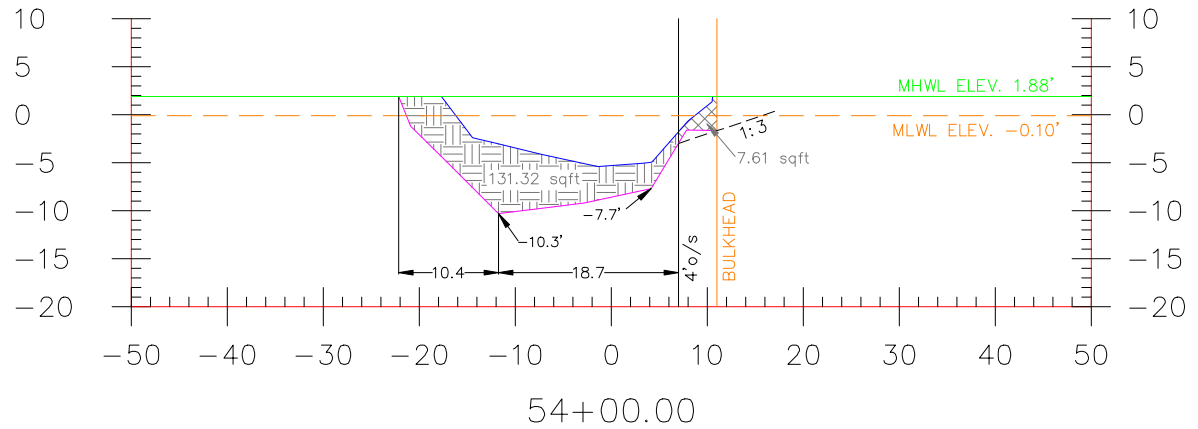
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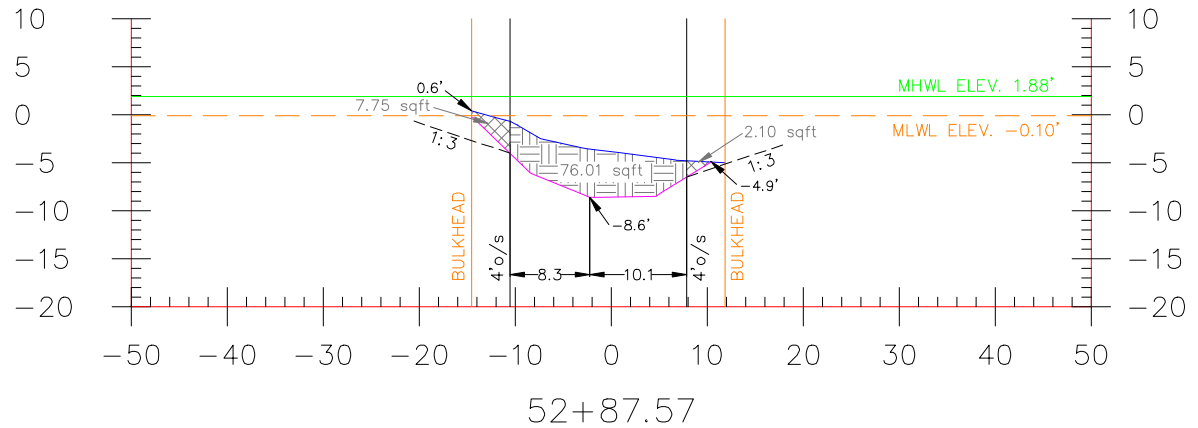
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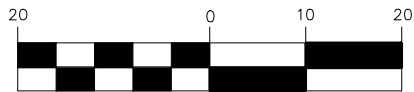
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29



GRAPHIC SCALE



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LEGEND

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OPERATIONAL SECTION 5

SHEET 23 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



ARC SURVEYING & MAPPING, INC.

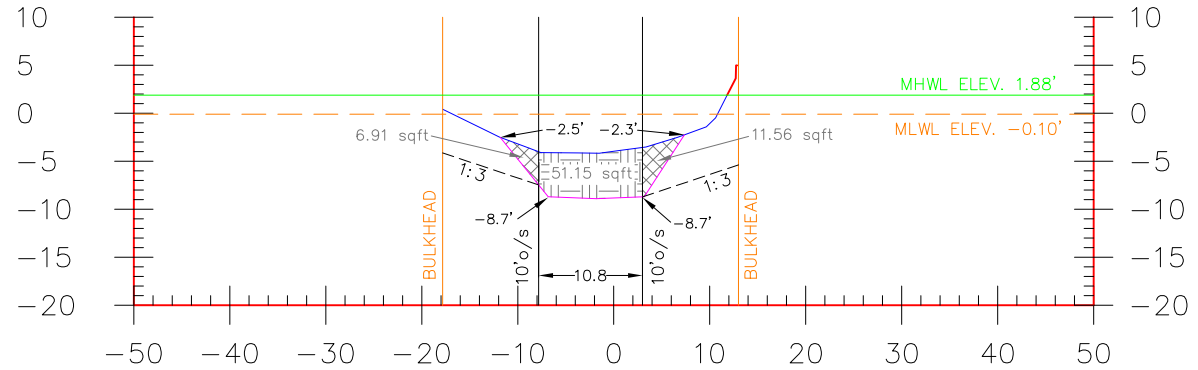


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LICENSED BUSINESS NO. 6487

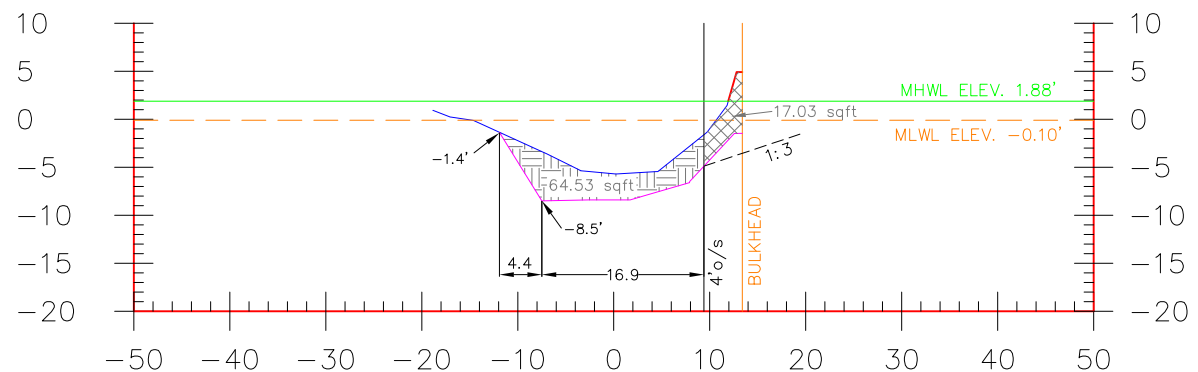
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ELEVATION IN FEET NGVD29

ELEVATION IN FEET NGVD29

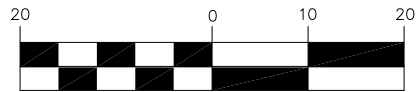


55+50.00
END WAGNER CREEK



54+30.00

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- = SEDIMENT TO BE REMOVED
- = SLOUGHING VOLUME
- = NATURAL SOIL/NON SEDIMENT
- = NATURAL SOIL/SEDIMENT INTERFACE
- = TOP OF SEDIMENT
- = 1.88' MEAN HIGH WATER LINE
- = -0.10' MEAN LOW WATER LINE
- NGVD29 = NATIONAL GEODETIC VERTICAL ELEVATION OF 1929
- = 1:3 SLOPE SLOUGHING LINE

NOTE: THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.

OPERATIONAL SECTION 5

SHEET 24 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



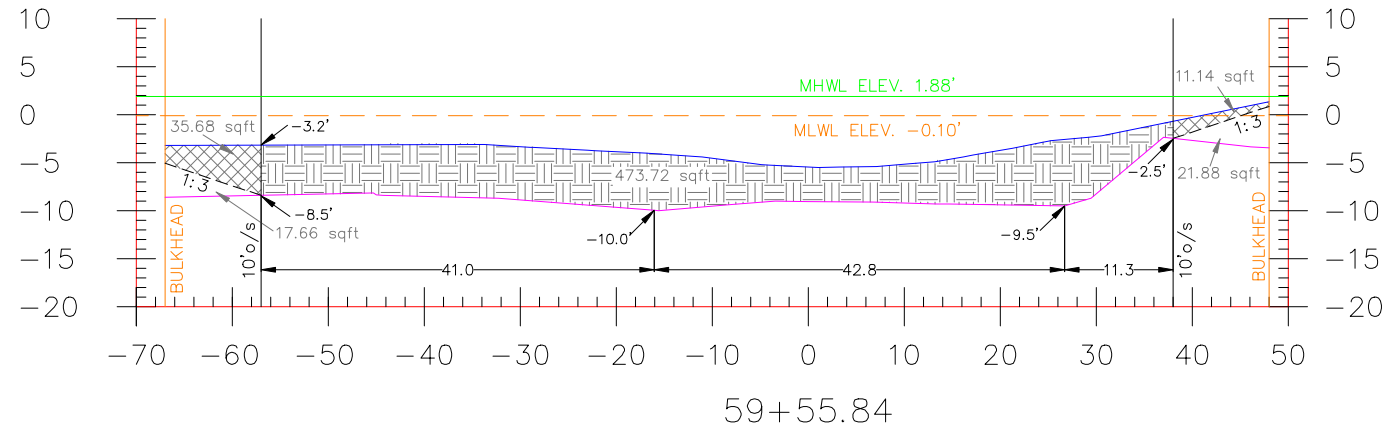
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

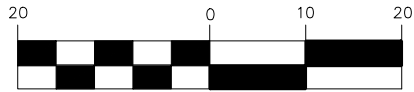
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

ELEVATION IN FEET NGVD29










59+55.84

GRAPHIC SCALE



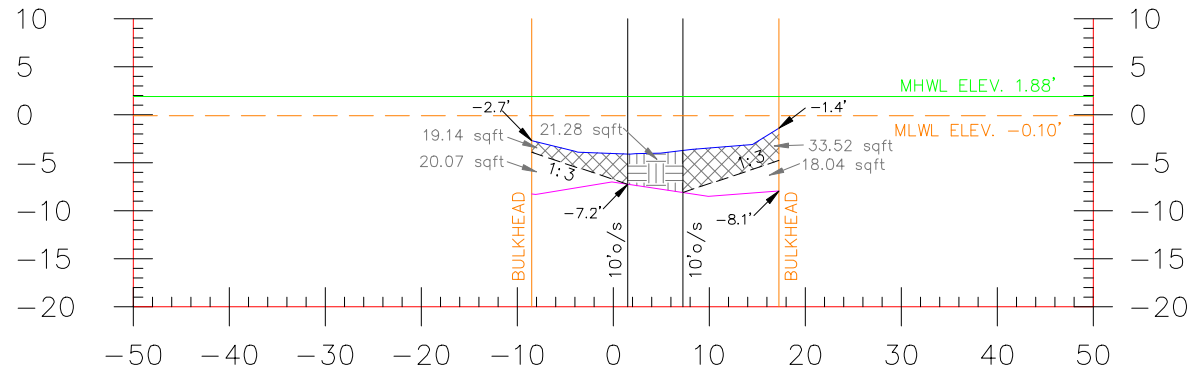
(IN FEET)
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ELEVATION IN FEET NGVD29



57+93.39
BEGIN SEYBOLD CANAL

OPERATIONAL SECTION 6

SHEET 25 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



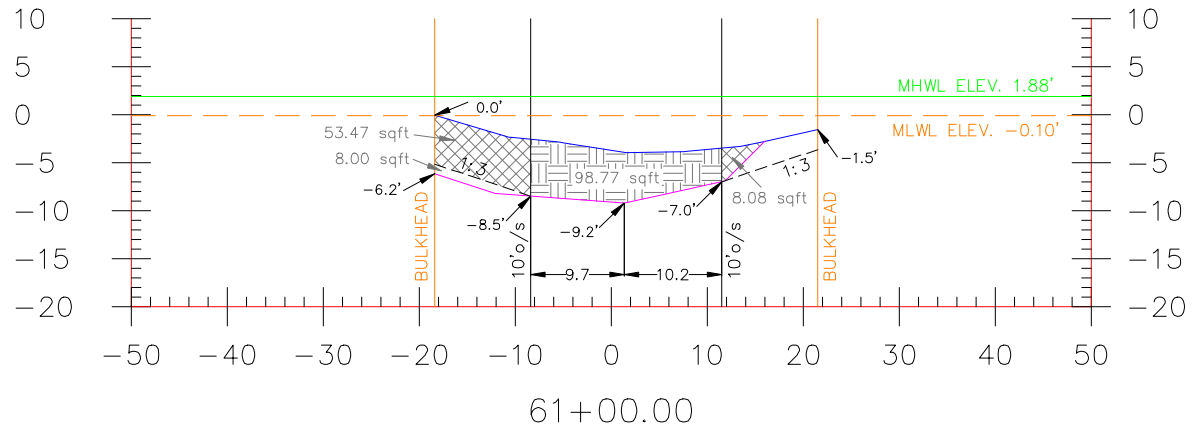
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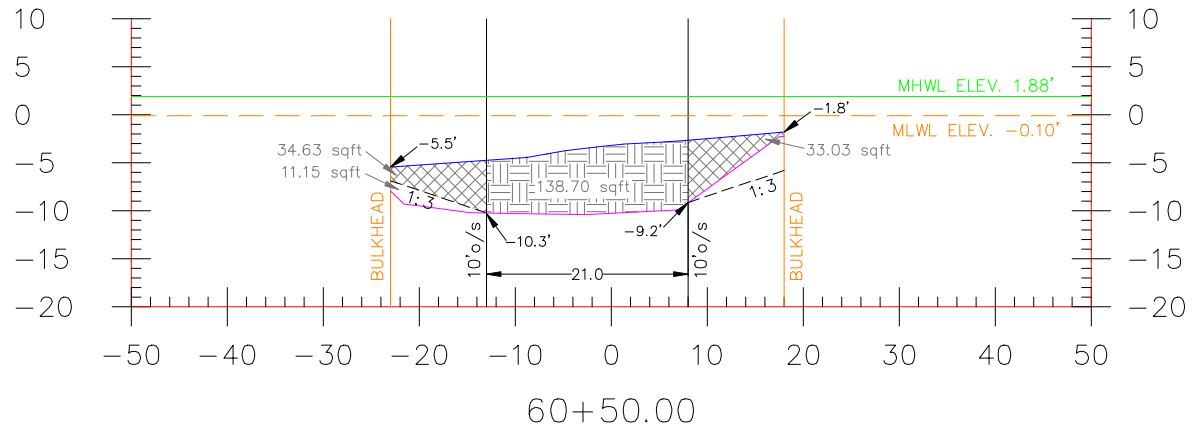
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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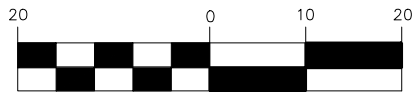
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

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OPERATIONAL SECTION 6

SHEET 26 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



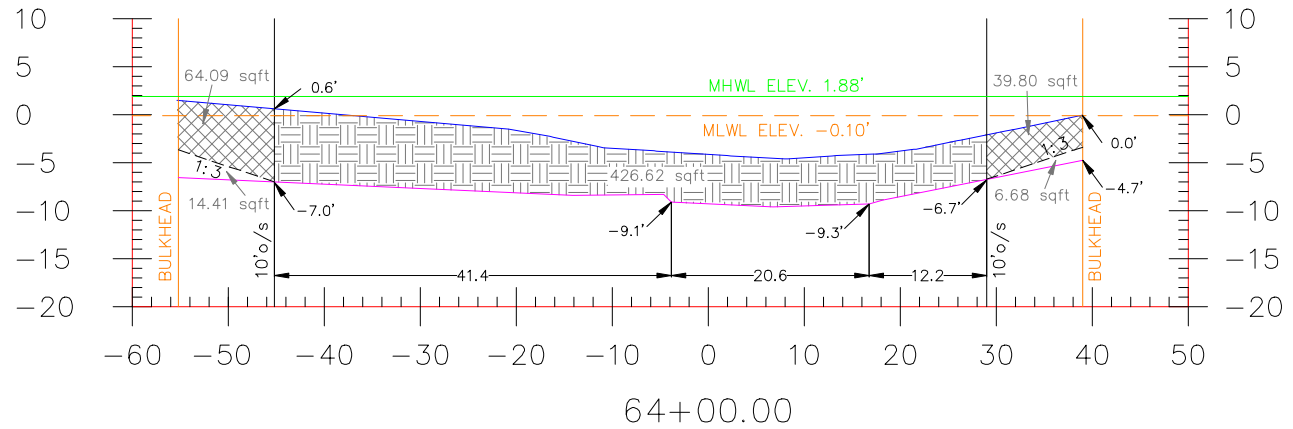
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
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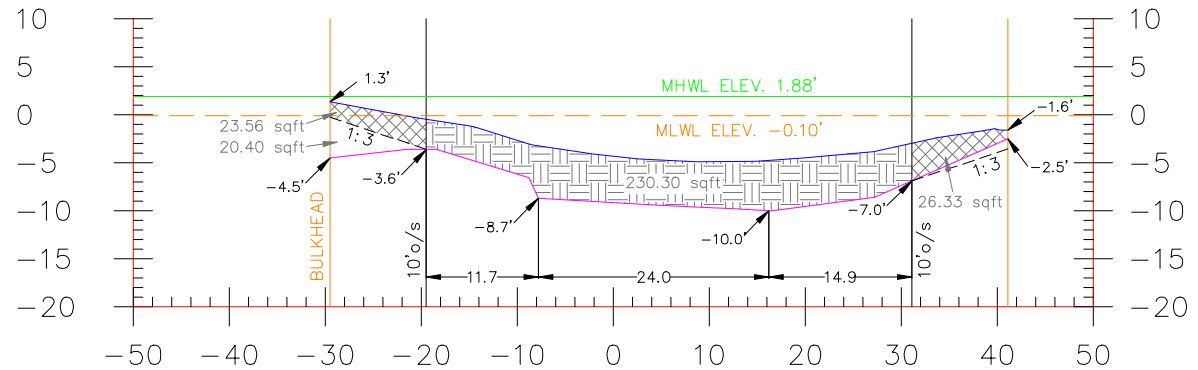
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ELEVATION IN FEET NGVD29



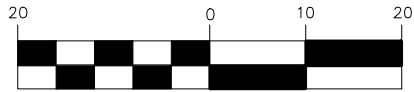
64+00.00

ELEVATION IN FEET NGVD29










62+50.00

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

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OPERATIONAL SECTION 6

SHEET 27 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



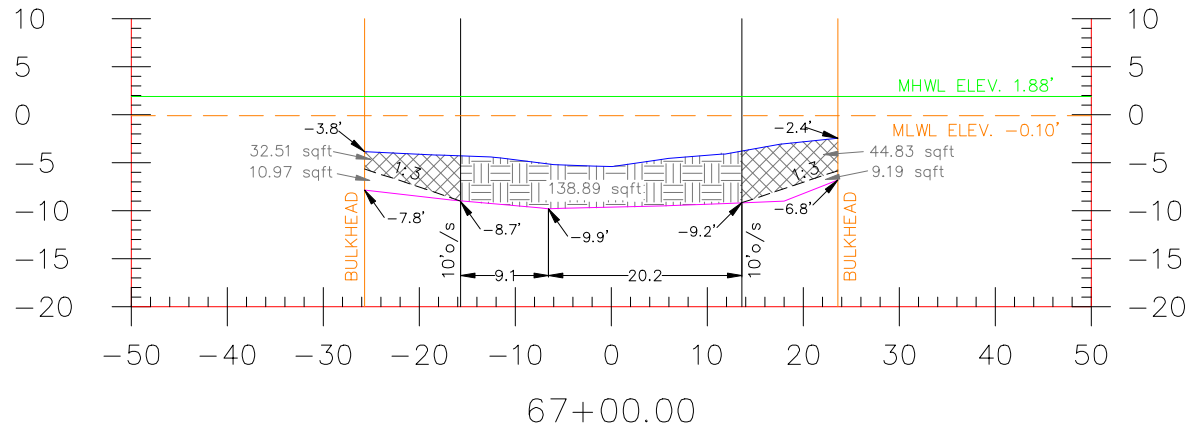
ARC SURVEYING & MAPPING, INC.



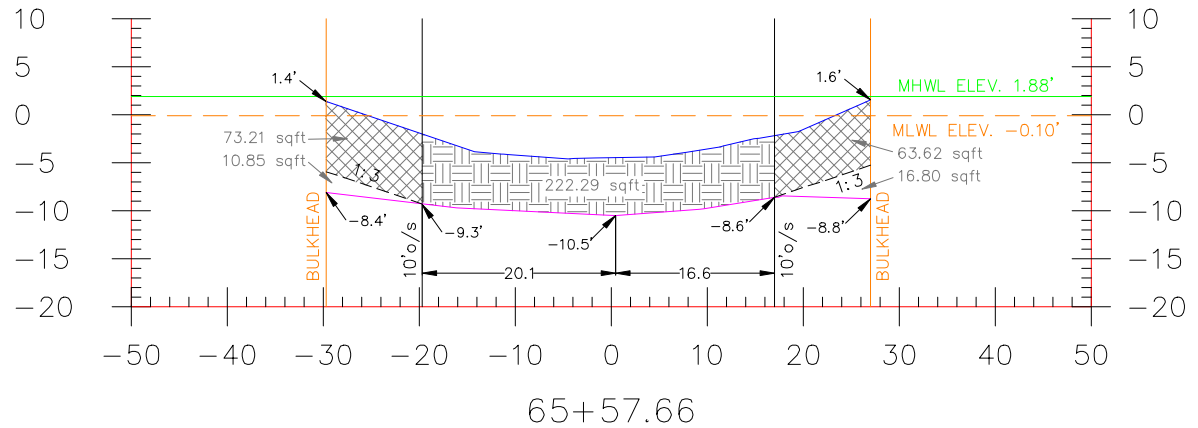
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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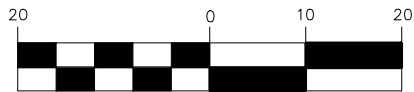
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

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OPERATIONAL SECTION 6

SHEET 28 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



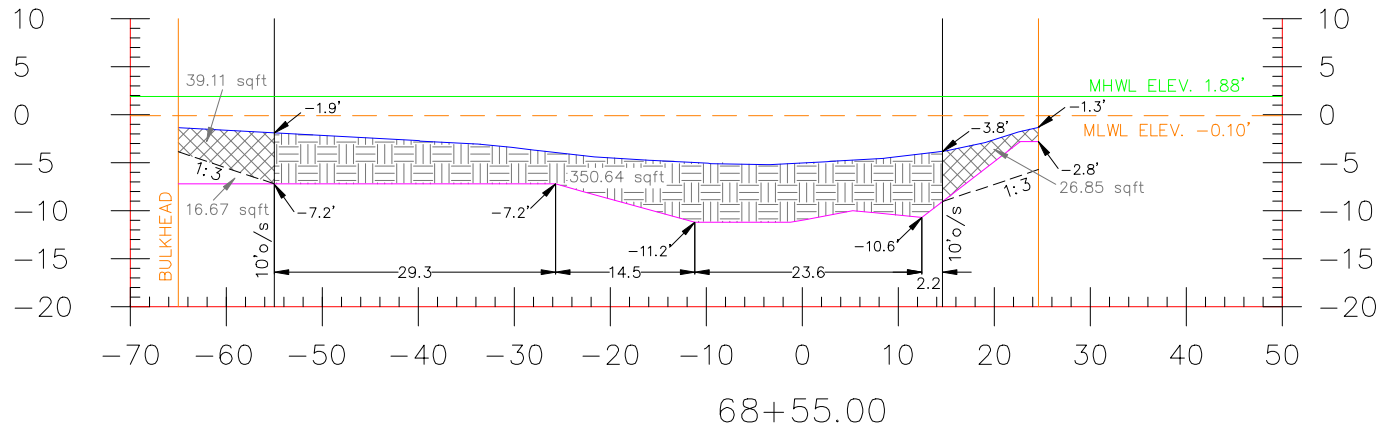
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
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PHONE: 904/384-8377
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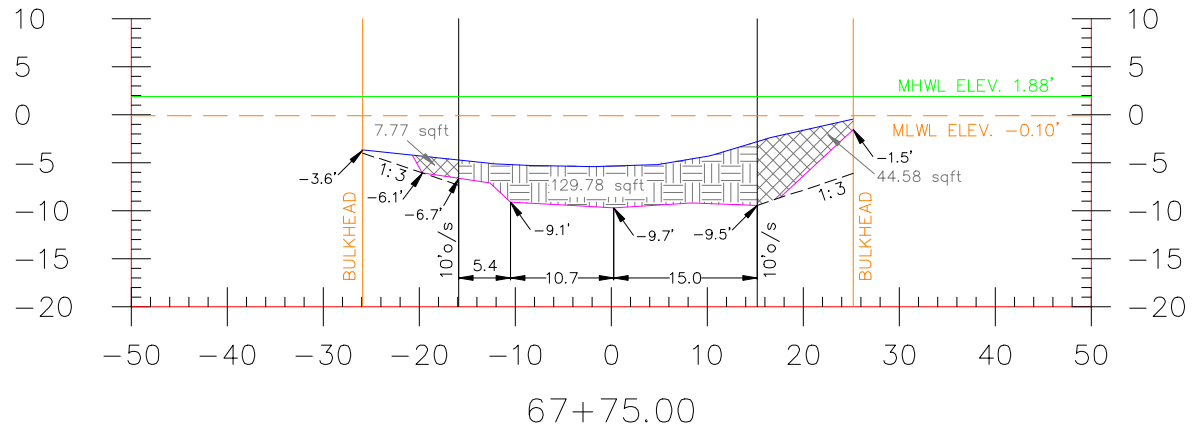
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ELEVATION IN FEET NGVD29



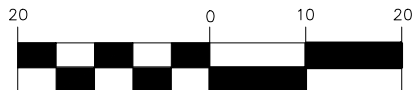
68+55.00

ELEVATION IN FEET NGVD29



67+75.00

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

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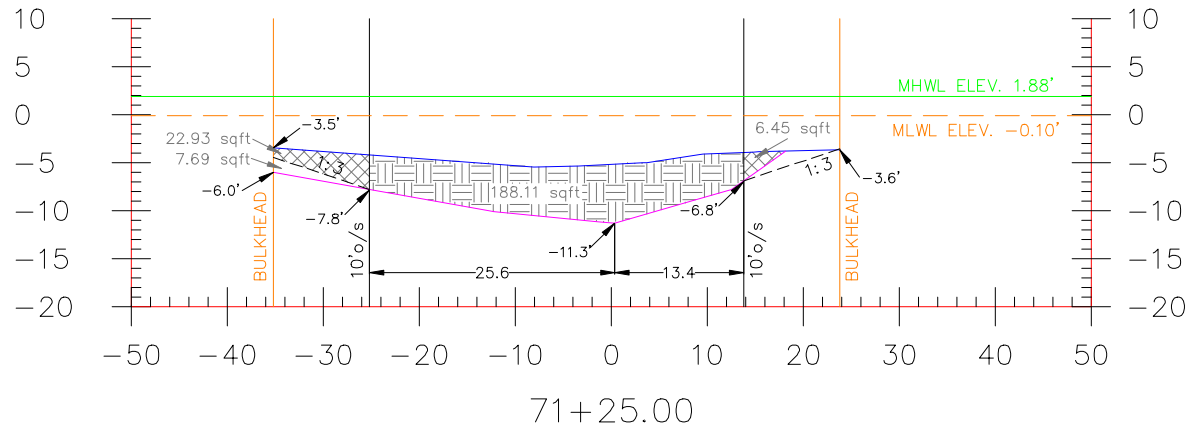
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OPERATIONAL SECTION 6

SHEET 29 OF 37

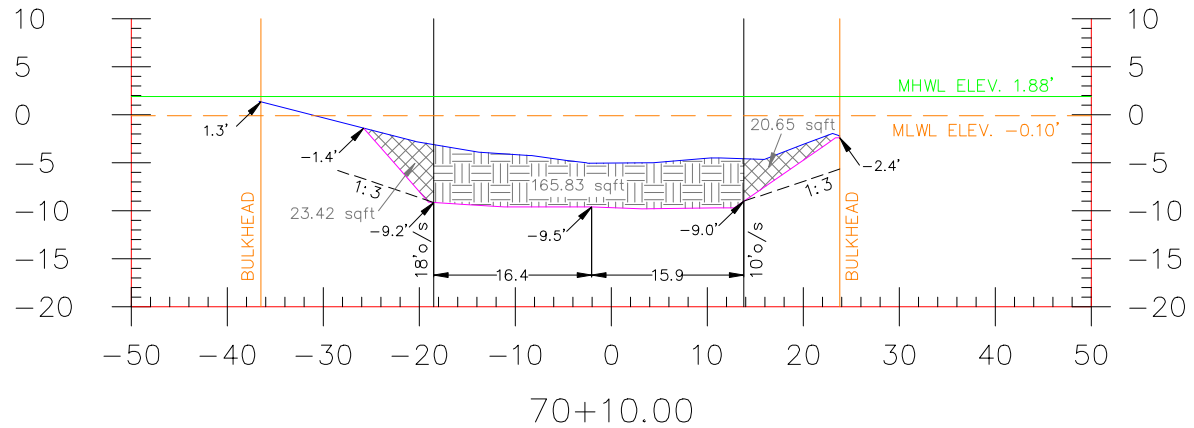
<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>		<p>ARC SURVEYING & MAPPING, INC.</p> <p></p> <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p>	
<p>DRAWN BY: JKM</p>	<p>DATE: 11-14-08</p>	<p>FIELD BOOK & PAGE 08-08/08-09</p>	<p>JOB NO. 07-10-07</p>

ELEVATION IN FEET NGVD29



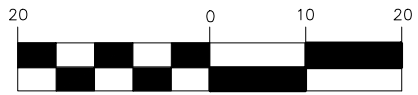
71+25.00

ELEVATION IN FEET NGVD29










70+10.00

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



LEGEND

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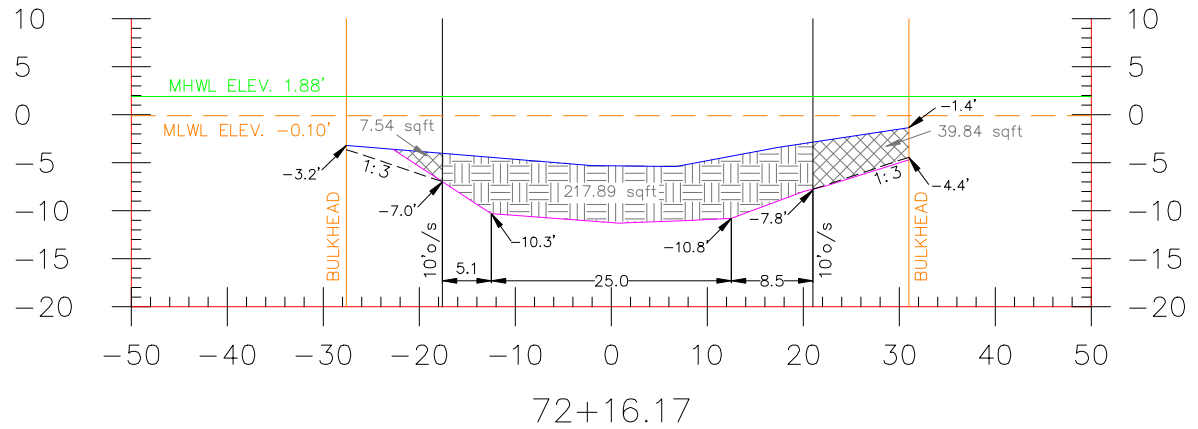
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OPERATIONAL SECTION 6

SHEET 30 OF 37

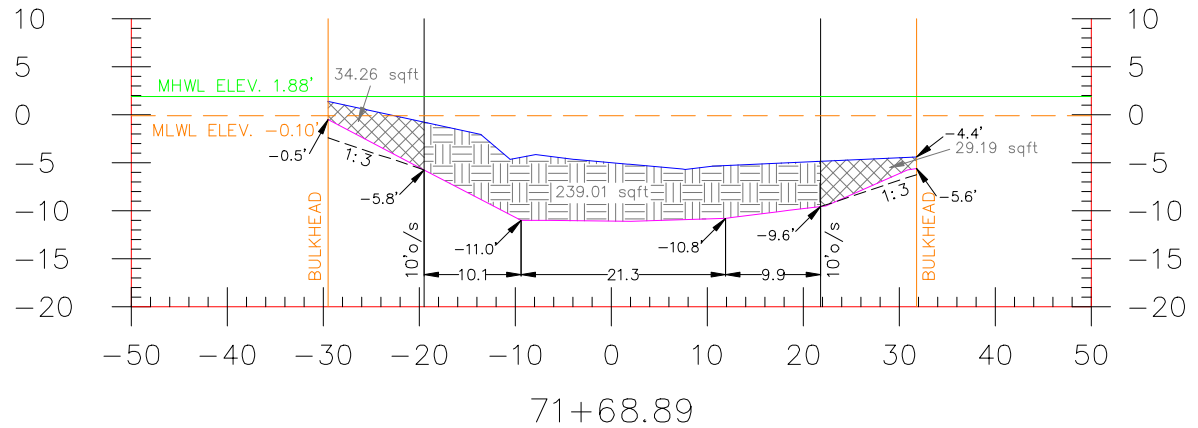
<p>DADE COUNTY, FLORIDA</p> <p>WAGNER CREEK & SEYBOLD CANAL MIAMI, FLORIDA</p>		<p>ARC SURVEYING & MAPPING, INC.</p>  <p>5202 SAN JUAN AVENUE, JACKSONVILLE, FLORIDA 32210 PHONE: 904/384-8377 LICENSED BUSINESS NO. 6487</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>DATE:</td> <td>FIELD BOOK & PAGE</td> <td>JOB NO.</td> </tr> <tr> <td>JKM</td> <td>11-14-08</td> <td>08-08/08-09</td> <td>07-10-07</td> </tr> </table>	DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.	JKM	11-14-08	08-08/08-09	07-10-07
DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.							
JKM	11-14-08	08-08/08-09	07-10-07							

ELEVATION IN FEET NGVD29



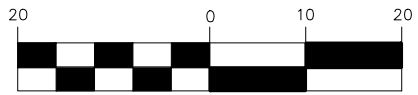
72+16.17

ELEVATION IN FEET NGVD29










71+68.89

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



LEGEND

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-  = NATURAL SOIL/SEDIMENT INTERFACE
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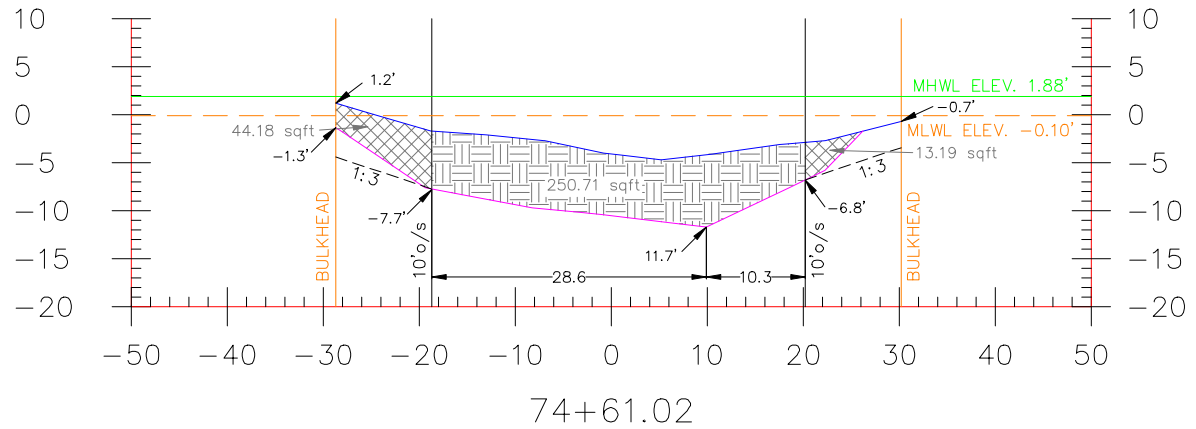
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OPERATIONAL SECTION 6

SHEET 31 OF 37

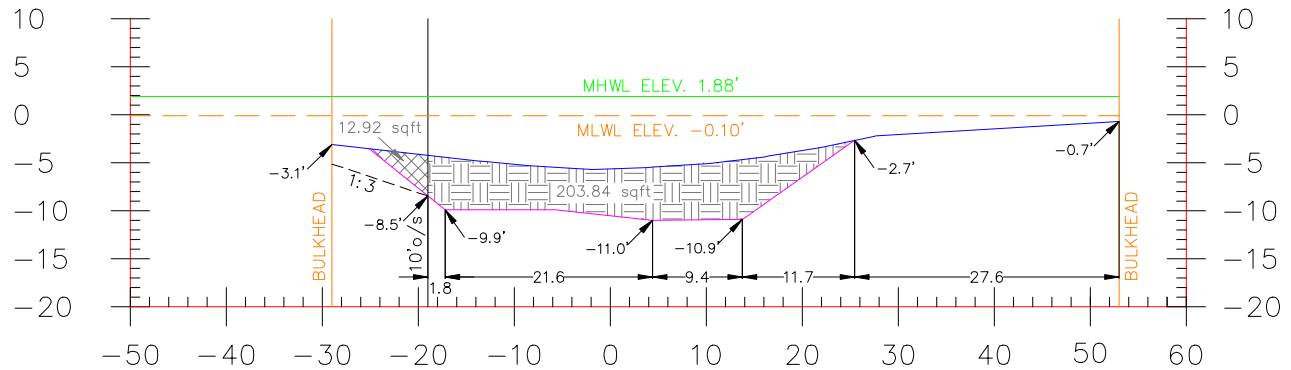
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ELEVATION IN FEET NGVD29



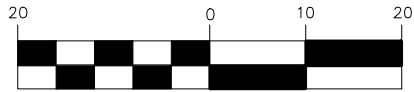
74+61.02

ELEVATION IN FEET NGVD29



73+00.00

GRAPHIC SCALE



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OPERATIONAL SECTION 6

SHEET 32 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



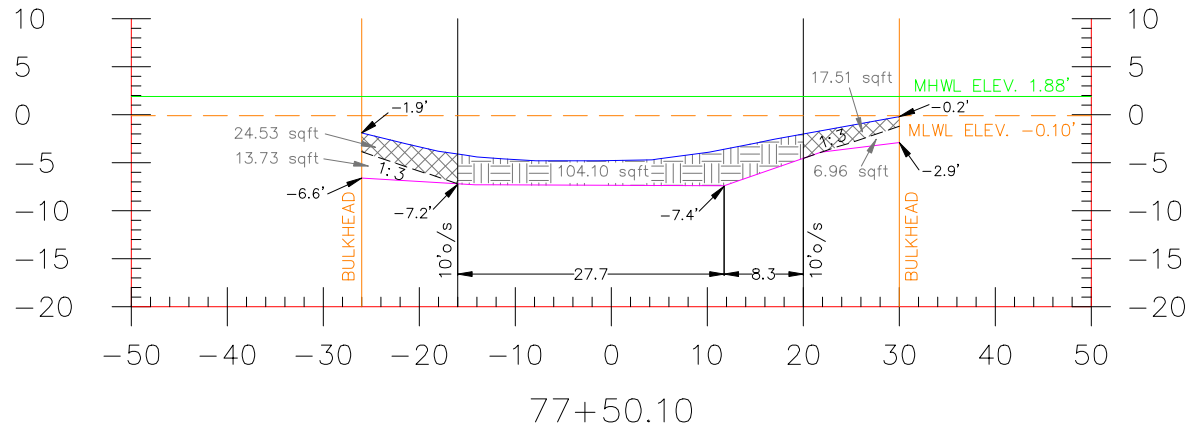
ARC SURVEYING & MAPPING, INC.



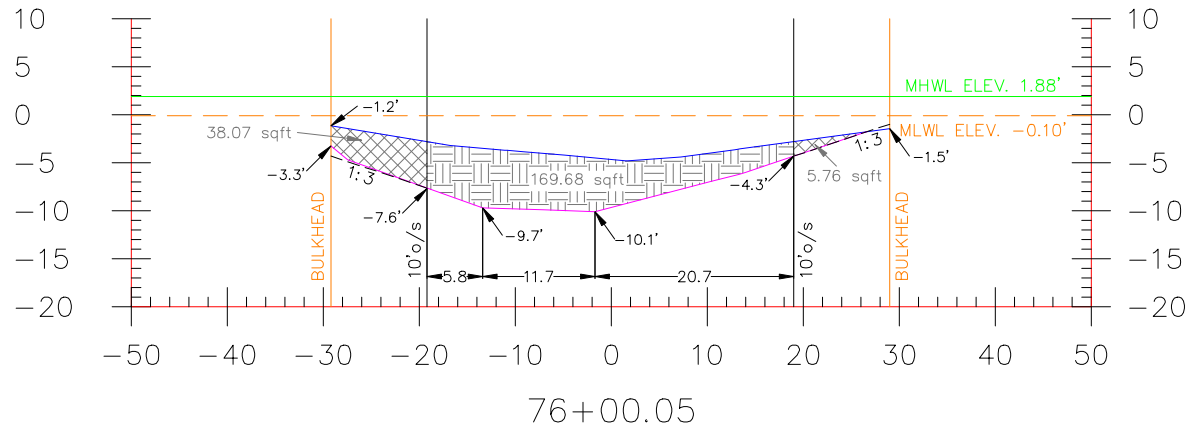
5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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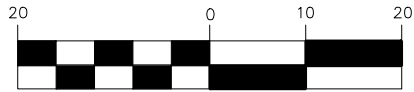
ELEVATION IN FEET NGVD29



ELEVATION IN FEET NGVD29










GRAPHIC SCALE



(IN FEET)
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OPERATIONAL SECTION 6

SHEET 33 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



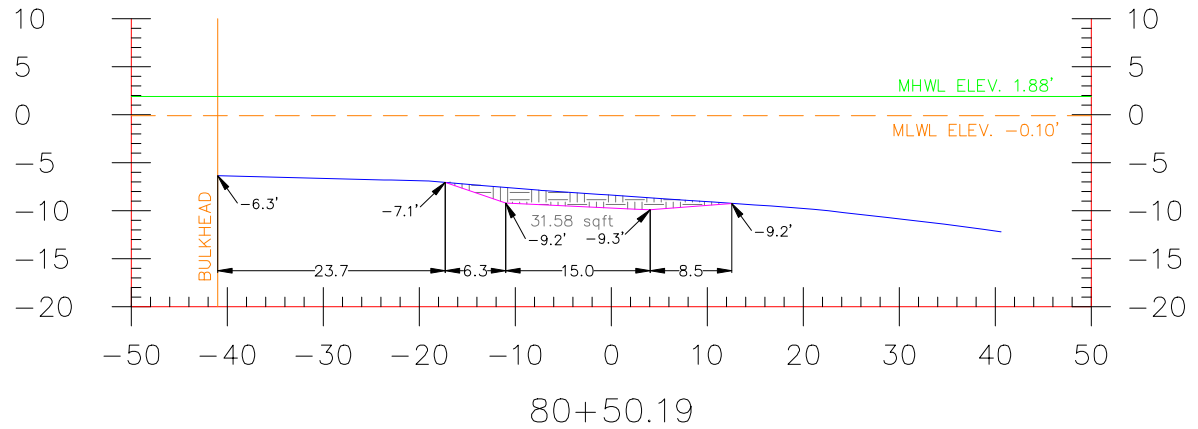
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
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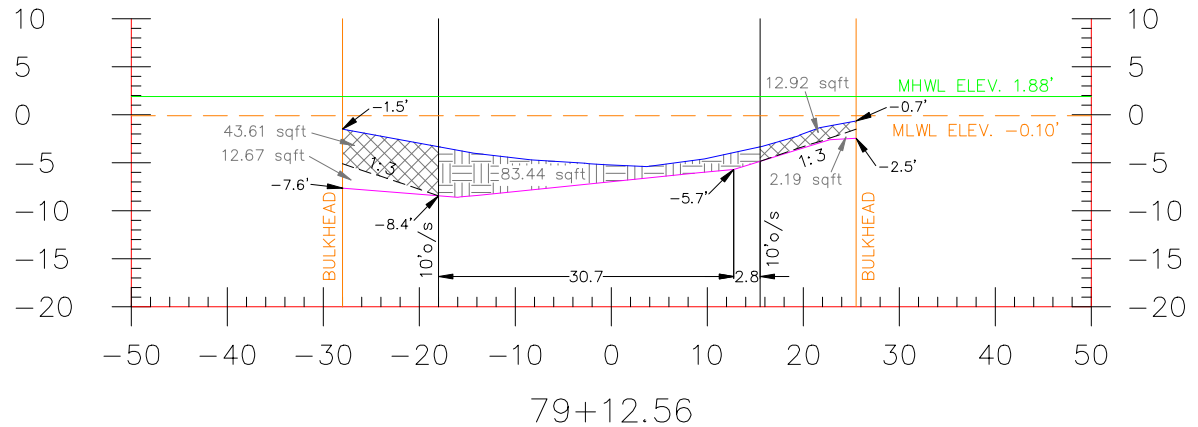
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ELEVATION IN FEET NGVD29



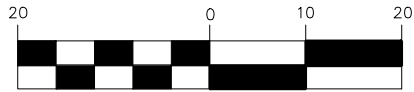
80+50.19
END SEYBOLD CANAL

ELEVATION IN FEET NGVD29










79+12.56

GRAPHIC SCALE



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OPERATIONAL SECTION 6

SHEET 34 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



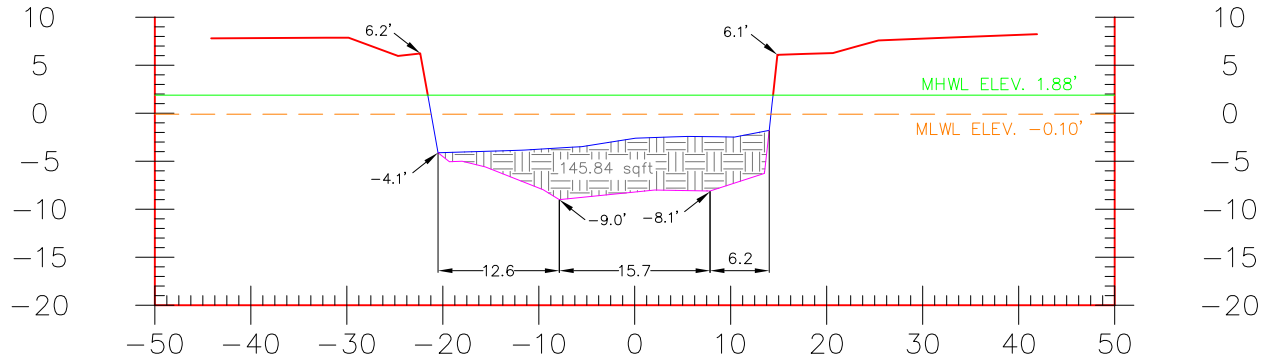
ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

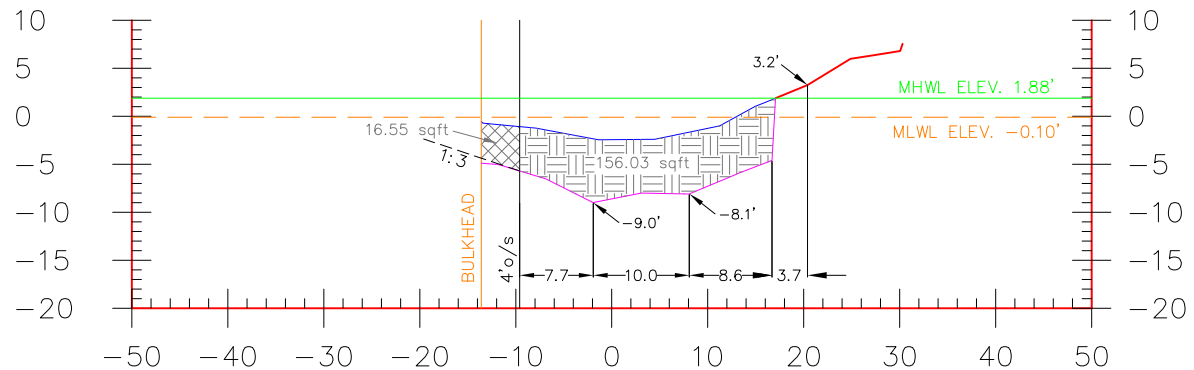
DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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ELEVATION IN FEET NGVD 29



BRIDGE PROFILE AT STATION 25+80
BEGIN OPERATIONAL SECTION 3
NW 15TH STREET

ELEVATION IN FEET NGVD29

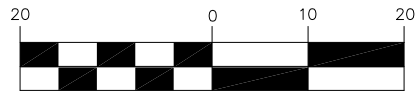


BRIDGE PROFILE AT STATION 25+34.29
END OPERATIONAL SECTION 2
NW 15TH STREET

BRIDGE PROFILES









SHEET 35 OF 37

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

-  = SEDIMENT TO BE REMOVED
-  = SLOUGHING VOLUME
-  = NATURAL SOIL/NON SEDIMENT
-  = NATURAL SOIL/SEDIMENT INTERFACE
-  = TOP OF SEDIMENT
-  = 1.88' MEAN HIGH WATER LINE
-  = -0.10' MEAN LOW WATER LINE
- NGVD29 = NATIONAL GEODETIC VERTICAL ELEVATION OF 1929
-  = 1:3 SLOPE SLOUGHING LINE

NOTE: THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



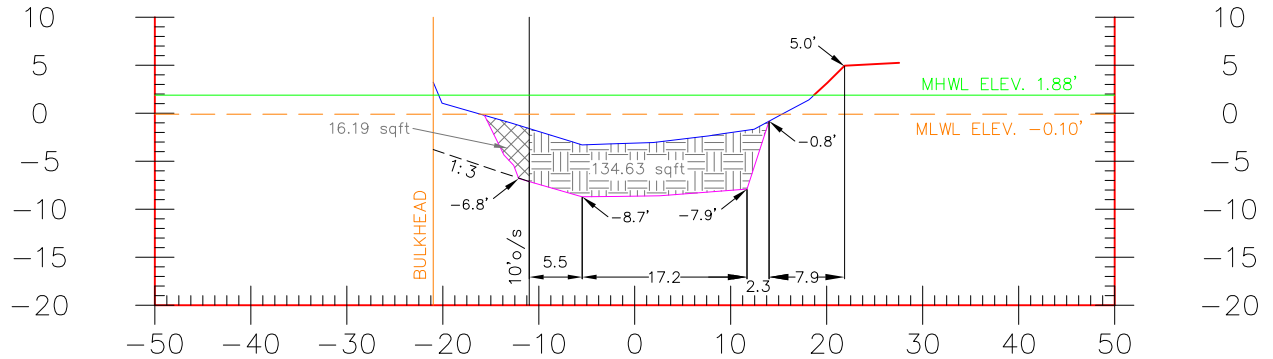
ARC SURVEYING & MAPPING, INC.



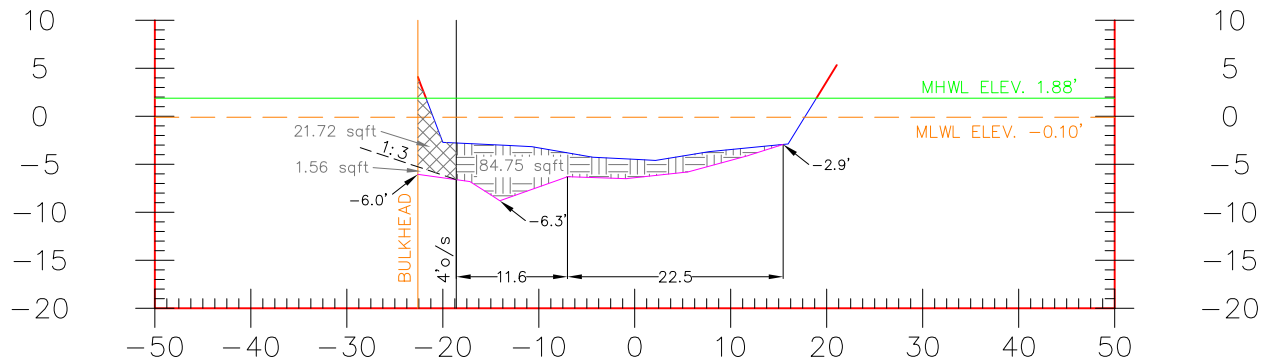
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JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY:	DATE:	FIELD BOOK & PAGE	JOB NO.
JKM	11-14-08	08-08/08-09	07-10-07

ELEVATION IN FEET NGVD 29



BRIDGE PROFILE AT STATION 43+55
END OPERATIONAL SECTION 4

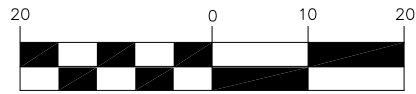


BRIDGE PROFILE AT STATION 37+80
BEGIN OPERATIONAL SECTION 4
NW 14TH STREET

BRIDGE PROFILES

SHEET 36 OF 37

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- = SEDIMENT TO BE REMOVED
- = SLOUGHING VOLUME
- = NATURAL SOIL/NON SEDIMENT
- = NATURAL SOIL/SEDIMENT INTERFACE
- = TOP OF SEDIMENT
- = 1.88' MEAN HIGH WATER LINE
- = -0.10' MEAN LOW WATER LINE
- NGVD29 = NATIONAL GEODETIC VERTICAL ELEVATION OF 1929
- = 1:3 SLOPE SLOUGHING LINE

NOTE: THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



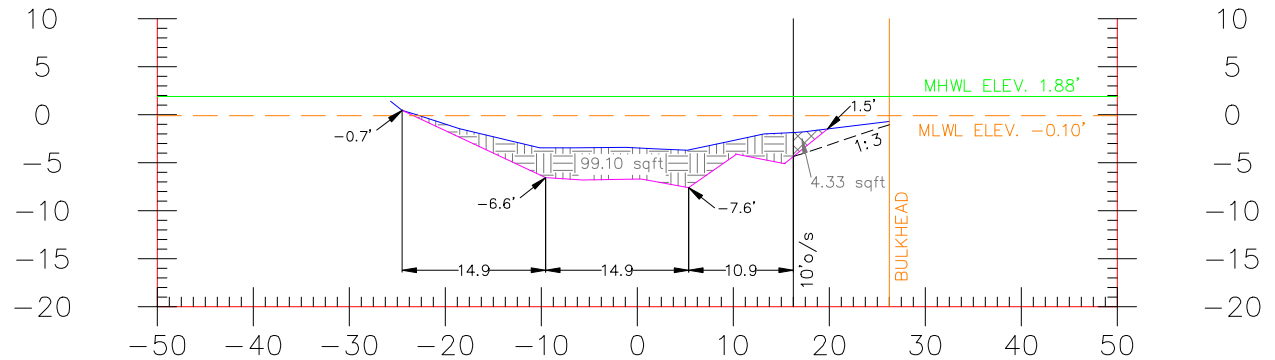
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JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

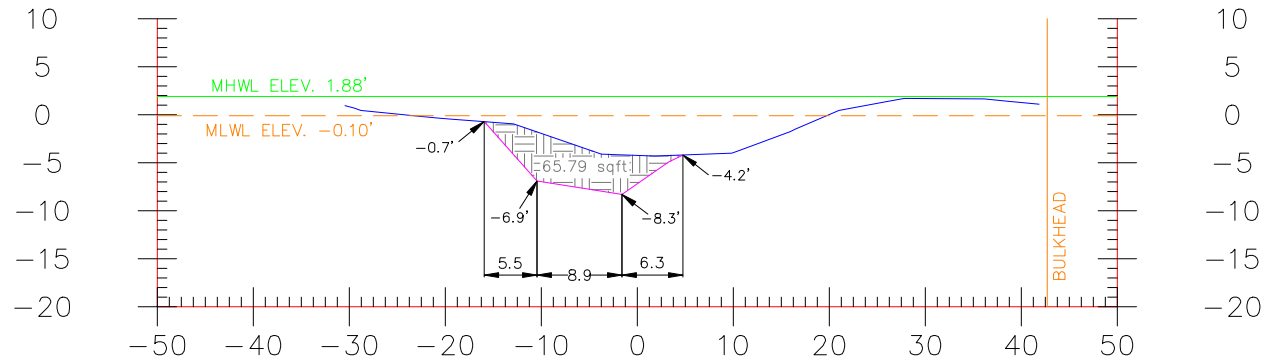
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JKM	11-14-08	08-08/08-09	07-10-07

ELEVATION IN FEET NGVD 29



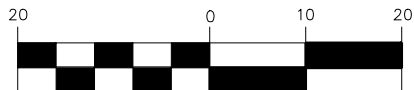
BRIDGE PROFILE AT STATION 56+70
END OPERATIONAL SECTION 5
NW 11TH STREET

ELEVATION IN FEET NGVD 29



BRIDGE PROFILE AT STATION 43+88
BEGIN OPERATIONAL SECTION 5
STATE ROAD 836

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- = SEDIMENT TO BE REMOVED
- = SLOUGHING VOLUME
- = NATURAL SOIL/NON SEDIMENT
- = NATURAL SOIL/SEDIMENT INTERFACE
- = TOP OF SEDIMENT
- = 1.88' MEAN HIGH WATER LINE
- = -0.10' MEAN LOW WATER LINE
- NGVD29 = NATIONAL GEODETIC VERTICAL ELEVATION OF 1929
- 1:3 - = 1:3 SLOPE SLOUGHING LINE

NOTE: THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.

BRIDGE PROFILES

SHEET 37 OF 37

DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA



ARC SURVEYING & MAPPING, INC.



5202 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

DRAWN BY: JKM	DATE: 11-14-08	FIELD BOOK & PAGE 08-08/08-09	JOB NO. 07-10-07
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Volume 3, Section 6

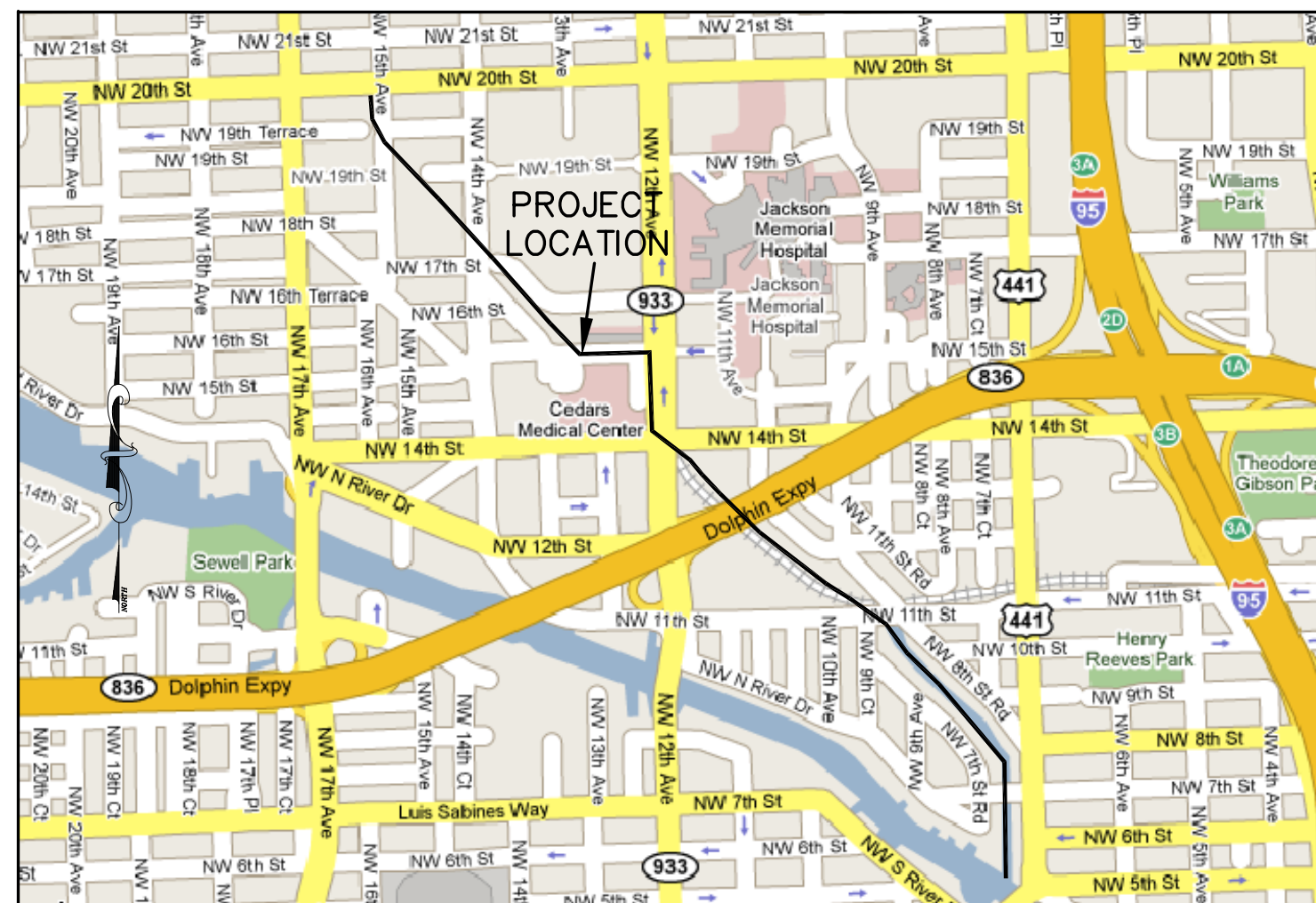
Project Drawings, Full-Size with COPC Callouts

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF:

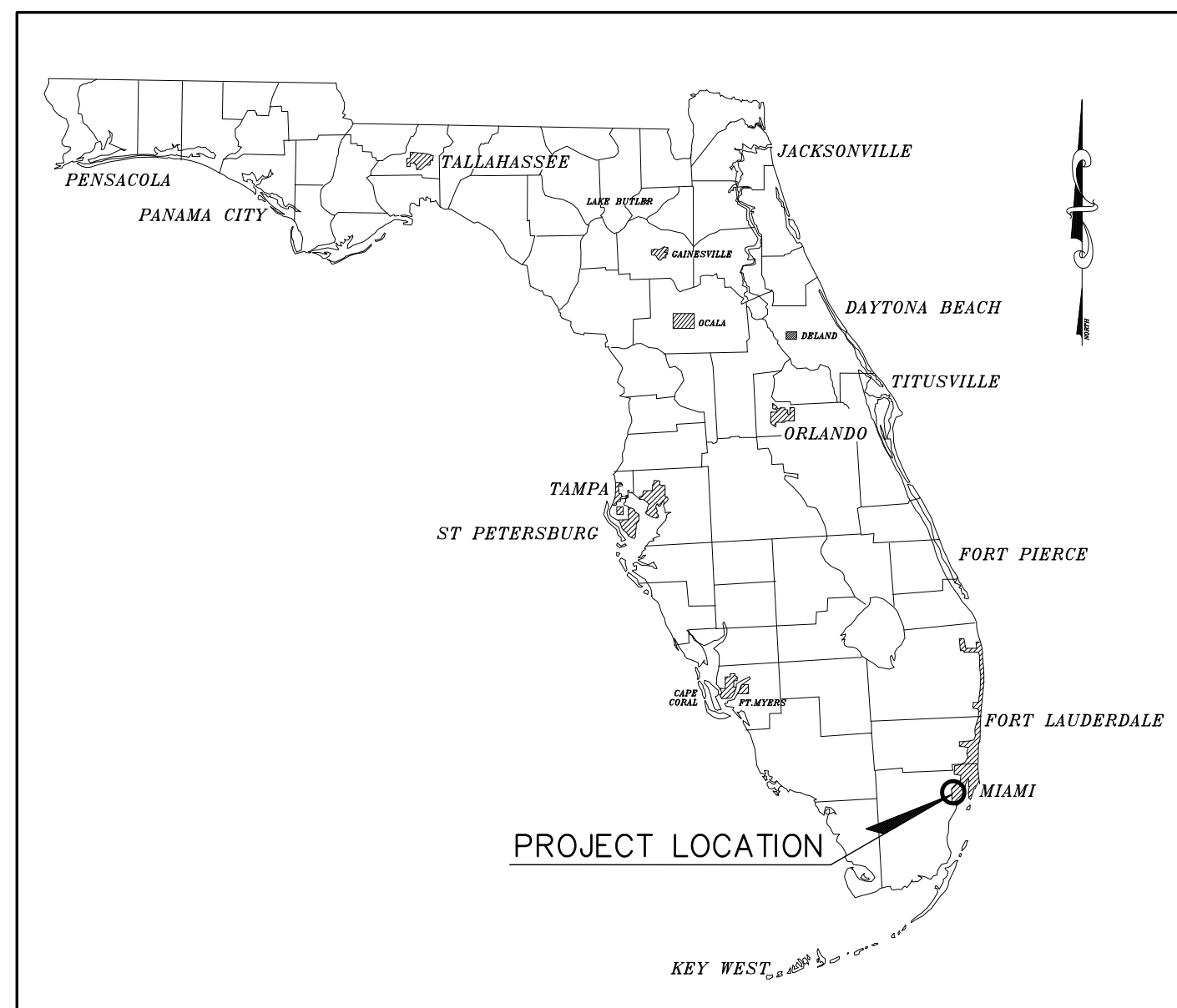
WAGNER CREEK & SEYBOLD CANAL

DADE COUNTY, FLORIDA

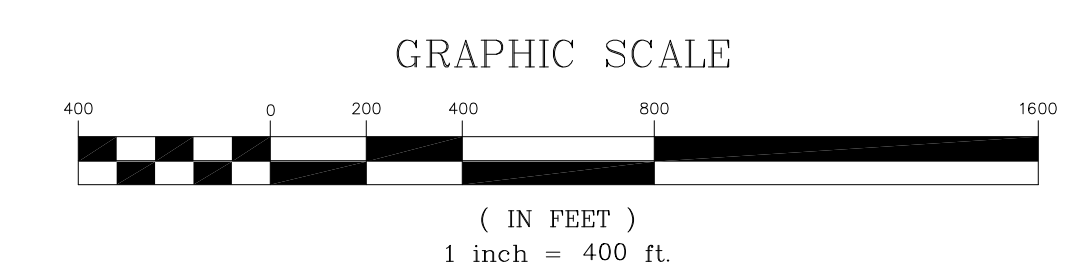
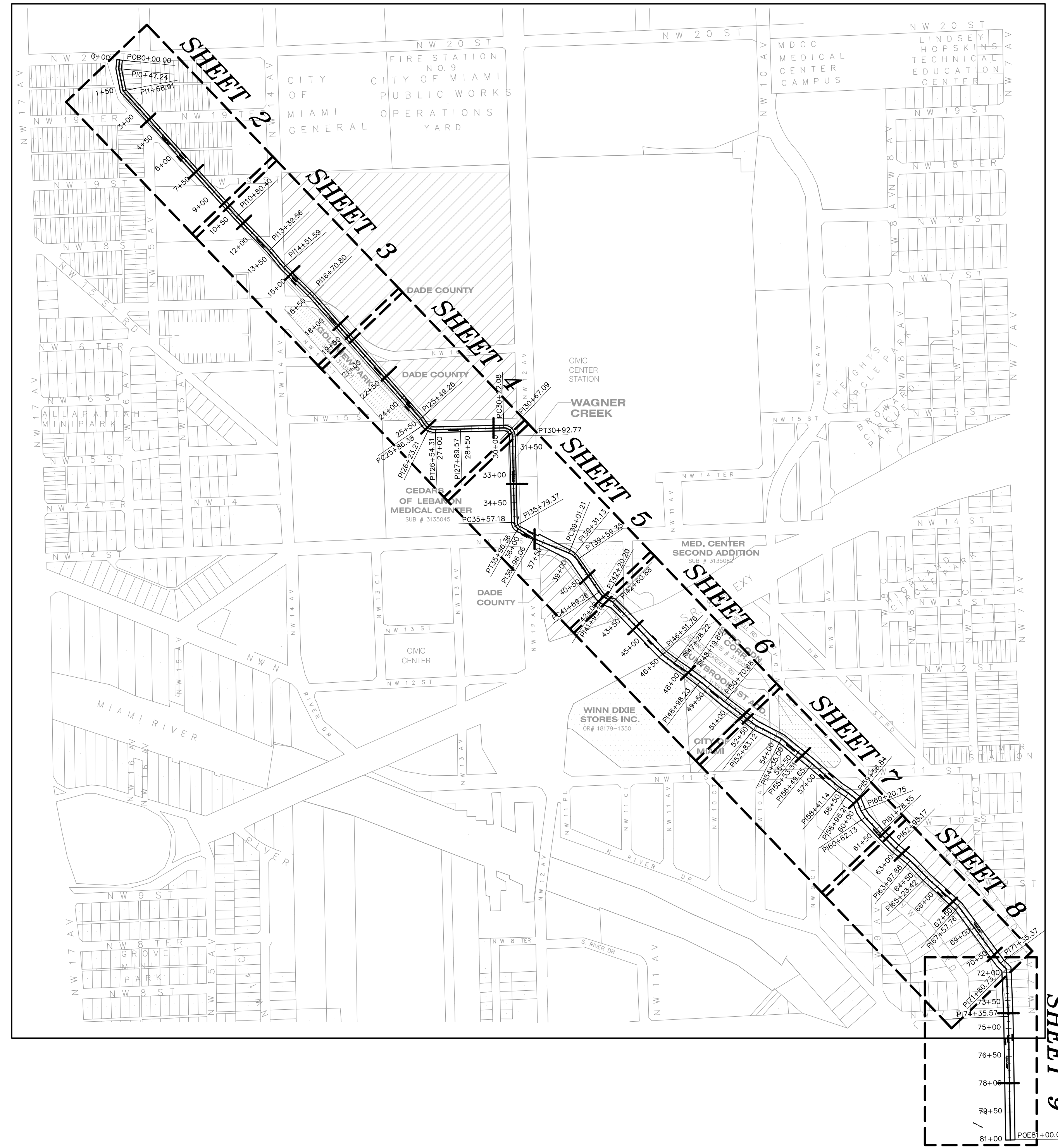
FOR: CH2MHILL



VICINITY MAP
NOT TO SCALE

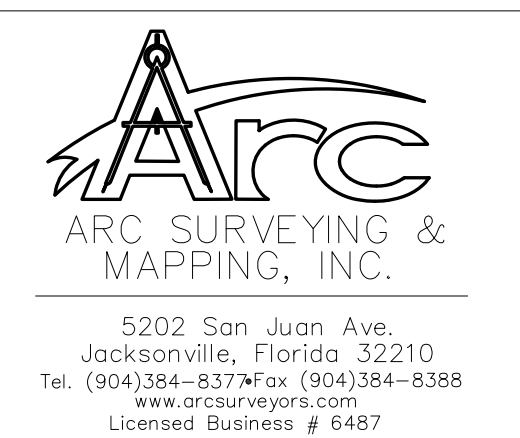


PROJECT LOCATION



LEGEND/ABBREVIATIONS			
	TRAFFIC CONTROL BOX		DEBRIS LOCATION
	CABLE BOX		STRUCTURE LOCATION
	TELEPHONE BOX		CORE SAMPLE LOCATION
	ELECTRIC BOX		GAS UTILITY LINE
	TELEPHONE MANHOLE		ELECTRIC UTILITY LINE
	ELECTRIC HAND HOLE		TELEPHONE UTILITY LINE
	DRAINAGE MANHOLE		OVERHEAD UTILITY LINE
	SANITARY HANDHOLD		UNDERGROUND UTILITY LINE
	SPRINKLER		IRON PIPE
	SECURITY CAMERA		IDENTIFICATION
	CONTROL VALVE		IRON ROD
	WATER VALVE		SEWER PIPE
	WATER METER		TOP OF BANK
	ELECTRIC METER		CHAIN LINK FENCE
	FIRE HYDRANT		REINFORCED CONCRETE PIPE
	SIGN		CORRUGATED METAL PIPE
	LIGHT POLE		POLY VINYL CHLORIDE
	WOOD UTILITY POLE		MAN HOLE
	CONCRETE UTILITY POLE		HEAD WALL
	GUY ANCHOR		RIGHT OF WAY
	BIOLOGICAL LOCATION		INVERT
	CRACK LOCATION		M.E.S.
			CONCRETE MONUMENT

- SURVEY NOTES:**
- ALL DIMENSIONS SHOWN HEREON ARE IN FEET AND IN TENTHS AND ARE BASED ON THE U.S. SURVEY FOOT
 - ABOVE GROUND EVIDENCE OF UNDERGROUND FEATURES (I.E. UTILITIES, TANKS, RAILROAD TRACKS, ETC.) ARE SHOWN HEREON. UNDERGROUND UTILITIES ARE SHOWN AS MARKED BY SUNSHINE STATE ONE CALL UTILITY LOCATING SERVICE.
 - PARCEL BOUNDARY LOCATIONS AND SOME MINOR PLANIMETRIC INFORMATION WAS OBTAINED FROM A PREVIOUS SURVEY BY WEIDENER SURVEYING AND MAPPING, DATED: JUNE 12, 2002
 - SURVEYS FIELD DATA WAS OBTAINED FROM JUNE 23, 2008 THRU JULY 17, 2008.
 - BACKGROUND IMAGERY WAS OBTAINED FROM GOOGLE EARTH AND IS FOR REFERENCE PURPOSES ONLY.
 - BATHYMETRIC DATA WAS OBTAINED WITH A RESON 210 ECHO SOUNDER. POSITIONAL DATA WAS OBTAINED WITH A TRIMBLE 5800 REAL TIME KINEMATIC GPS SURVEYING SYSTEM.
 - COORDINATES SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE. AND ARE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
 - ELEVATIONS SHOWN HEREON ARE BASED ON A CITY OF MIAMI BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF NW 13th AVE., HAVING AN ELEVATION OF 5.37 FEET, AND IS REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
 - THE BIOLOGICAL LOCATIONS, CRACK LOCATIONS, DEBRIS LOCATIONS, AND STRUCTURE LOCATIONS SHOWN ON THIS SURVEY WERE IDENTIFIED BY THE ENVIRONMENTAL CONSULTING FIRM OF MILAN, SWAIN & ASSOCIATES, 2257 VISTA PARKWAY, SUITE #19, WEST PALM BEACH, FLORIDA, 33411. INFORMATION REQUESTS IN REGARD TO THESE LOCATIONS SHOULD BE DIRECTED TO MILAN, SWAIN & ASSOCIATES.
 - THE PROPOSED DREDGE CUT LINES AND GRADES SHOWN ON THESE CROSS-SECTIONS ARE TO BE FIELD VERIFIED IN ORDER TO REMOVE THE MAXIMUM EXTENT OF SEDIMENT POSSIBLE, WITHOUT COMPROMISING STRUCTURES LOCATED ADJACENT TO OR WITHIN THE DESIGNATED WORK AREA.
 - WAGNER CREEK AND SEYBOLD CANAL ARE TIDAL WATERS AND THEREFORE TITLE TO THE LANDS BELOW THE MEAN HIGH WATER LINE, ELEVATION 1.88 NGVD29, IS VESTED IN THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA.



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

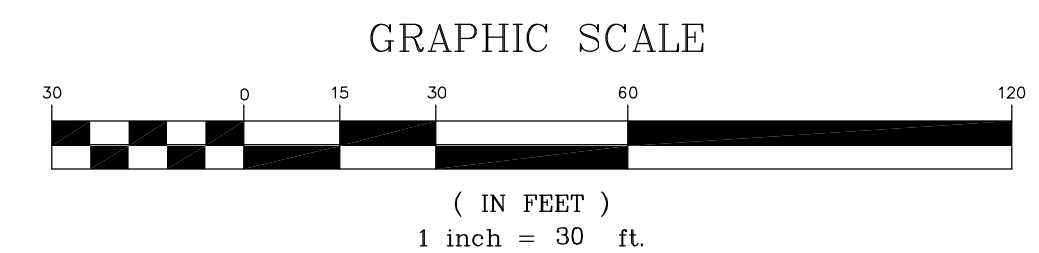
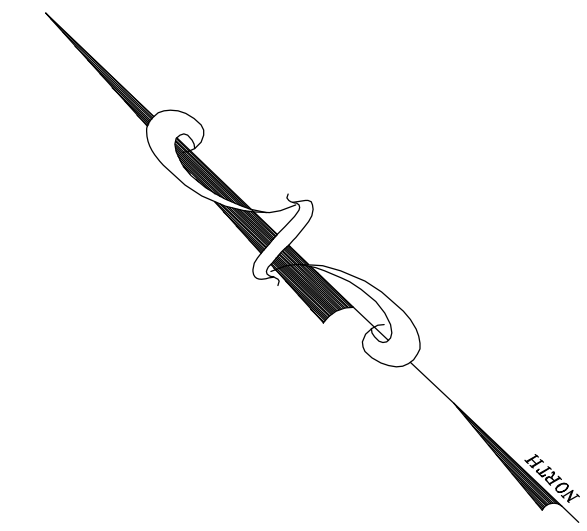
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Party Chief: P. SAWYER
Dwn by: JKM
Drawing Date: 08-01-08
Reference files:
Field Gk/Pg: 08-08/08-09
Ckd by: JES
Survey Date: 07-17-08
Survey Performed for:
CH2MHILL CONSTRUCTORS, INC.
201 ALHAMBRA CIRCLE, SUITE 600
CORAL GABLES, FL 33134

No.	Approved	Date	Description

CERTIFICATION:
I HEREBY CERTIFY THAT THE INFORMATION DEPICTED HEREON IS TRUE AND COMPLETE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472 OF THE FLORIDA STATUTES.
MITCHELL R. JARRELLS
FLORIDA REGISTERED CERTIFICATE NO. 6438

PROJECT NO.
07-10-07
FILE NO.
C-08-29
SHEET 1 OF 16

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA



CES-1	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	6.81 (pg/g)
TPH	0 (µg/kg)
LEAD (PB)	7.23 (mg/kg)
ARSENIC (AR)	0 (mg/kg)
CHROMIUM (CR)	7.74 (mg/kg)
COPPER (GU)	4.13 (mg/kg)

CES-2	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	17.5 (pg/g)
TPH	21,300 (µg/kg)
LEAD (PB)	64.2 (mg/kg)
ARSENIC (AR)	0 (mg/kg)
CHROMIUM (CR)	24.5 (mg/kg)
COPPER (GU)	40.2 (mg/kg)

WC-1	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	645 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

CH2	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	357 (pg/g)
TPH	6,350 (µg/kg)
LEAD (PB)	3,610 (mg/kg)
ARSENIC (AR)	29.4 (mg/kg)
CHROMIUM (CR)	130 (mg/kg)
COPPER (GU)	----- (mg/kg)

CES-3	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	589 (pg/g)
TPH	0 (µg/kg)
LEAD (PB)	3,250 (mg/kg)
ARSENIC (AR)	3.1 (mg/kg)
CHROMIUM (CR)	173 (mg/kg)
COPPER (GU)	1,160 (mg/kg)

CH6	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	950 (pg/g)
TPH	2,450 (µg/kg)
LEAD (PB)	856 (mg/kg)
ARSENIC (AR)	25.4 (mg/kg)
CHROMIUM (CR)	60.4 (mg/kg)
COPPER (GU)	----- (mg/kg)

WC-2	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	2,130 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

CH-02-01	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	4,980 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

WC-3	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	2,680 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

CH-02-02	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	1,880 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

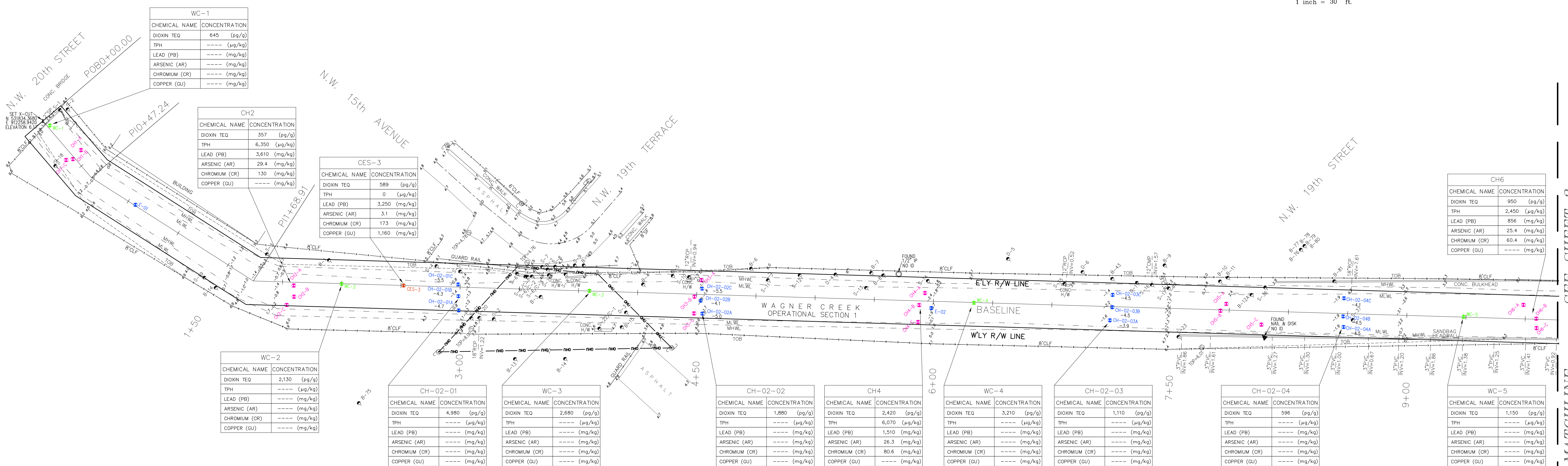
CH4	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	2,420 (pg/g)
TPH	6,070 (µg/kg)
LEAD (PB)	1,510 (mg/kg)
ARSENIC (AR)	26.3 (mg/kg)
CHROMIUM (CR)	80.6 (mg/kg)
COPPER (GU)	----- (mg/kg)

WC-4	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	3,210 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

CH-02-03	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	1,110 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

CH-02-04	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	596 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)

WC-5	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	1,150 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (GU)	----- (mg/kg)



SEE SHEET 3
MATCHLINE

LEGEND / ABBREVIATIONS	
⊠	TRAFFIC CONTROL BOX
⊞	CABLE BOX
⊞	TELEPHONE BOX
⊞	ELECTRIC BOX
⊞	TELEPHONE MANHOLE
⊞	ELECTRIC HAND HOLE
⊞	DRAINAGE MANHOLE
⊞	SANITARY HANDHOLD
⊞	SPRINKLER
⊞	SECURITY CAMERA
⊞	ID
⊞	CONTROL VALVE
⊞	WATER VALVE
⊞	WATER METER
⊞	ELECTRIC METER
⊞	FIRE HYDRANT
⊞	3" PVC PIPE
⊞	SIGN
⊞	LIGHT POLE
⊞	WOOD UTILITY POLE
⊞	CONCRETE UTILITY POLE
⊞	GUY ANCHOR
⊞	BIOLOGICAL LOCATION
⊞	CRACK LOCATION
⊞	DEBRIS LOCATION
⊞	STRUCTURE LOCATION
---	MEAN HIGH WATER LINE 1.88'
---	MEAN LOW WATER LINE -0.10'
⊞	CORE SAMPLE LOCATION
---	GAS UTILITY LINE
---	ELECTRIC UTILITY LINE
---	TELEPHONE UTILITY LINE
---	OVERHEAD UTILITY LINE
---	UNDERGROUND STREET LIGHT LINE
---	IRON PIPE
---	IDENTIFICATION
---	IRON ROD
---	SEWER PIPE
---	TOP OF BANK
---	CHAIN LINK FENCE
---	REINFORCED CONCRETE PIPE
---	CORRUGATED METAL PIPE
---	POLY VINYL CHLORIDE
---	MAN HOLE
---	HEAD WALL
---	RIGHT OF WAY
---	INVERT
---	MITERED END SECTION
---	M.E.S.
---	CONCRETE
---	MONUMENT



ARC
ARC SURVEYING & MAPPING, INC.
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Jacksonville, Florida 32210
Tel. (904)384-8377 Fax (904)384-8388
www.arcsurveyors.com
Licensed Business # 6487

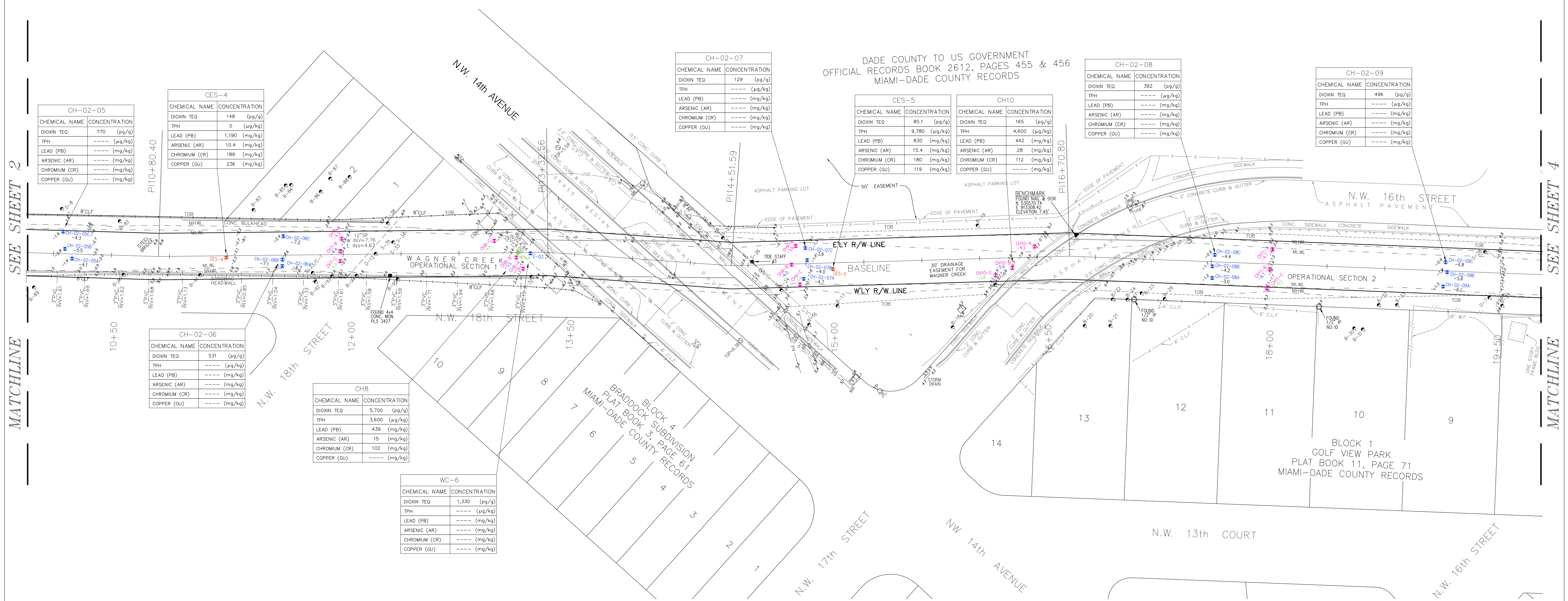
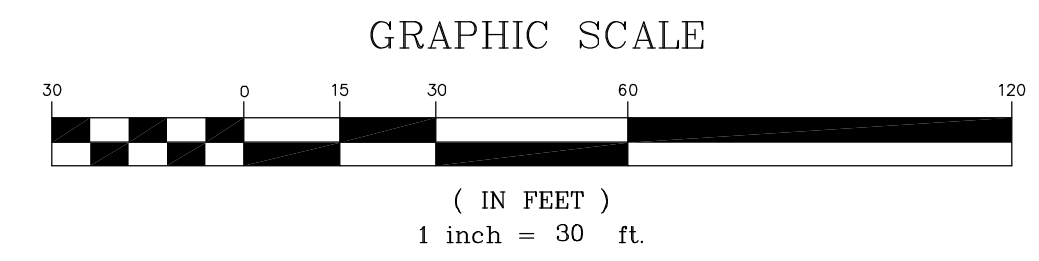
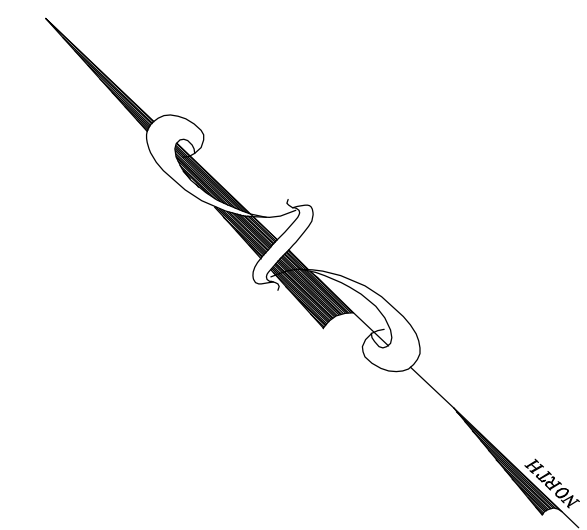
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WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

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Reference files:		Field Bk/Pg:	08-08/08-09	Ckd by:	JES	Survey Date:	07-17-08
Survey Performed for: CH2MHILL CONSTRUCTORS, INC. 201 ALHAMBRA CIRCLE, SUITE 600 CORAL GABLES, FL 33134							
No. Approved		Date		Description			

OPERATIONAL SECTION 1

PROJECT NO.	07-10-07
FILE NO.	C-08-29
SHEET	2 OF 16

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA



CH-02-05	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	770 (pg/g)
TPH	0 (ug/kg)
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

CES-4	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	148 (pg/g)
TPH	0 (ug/kg)
LEAD (PB)	1,190 (mg/kg)
ARSENIC (AR)	10.4 (mg/kg)
CHROMIUM (CR)	189 (mg/kg)
COPPER (CU)	236 (mg/kg)

CH-02-07	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	129 (pg/g)
TPH	---
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

DADE COUNTY TO US GOVERNMENT
OFFICIAL RECORDS BOOK 2612, PAGES 455 & 456
MIAMI-DADE COUNTY RECORDS

CES-5	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	85.1 (pg/g)
TPH	9,780 (ug/kg)
LEAD (PB)	830 (mg/kg)
ARSENIC (AR)	15.4 (mg/kg)
CHROMIUM (CR)	180 (mg/kg)
COPPER (CU)	119 (mg/kg)

CH10	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	165 (pg/g)
TPH	4,600 (ug/kg)
LEAD (PB)	442 (mg/kg)
ARSENIC (AR)	28 (mg/kg)
CHROMIUM (CR)	112 (mg/kg)
COPPER (CU)	---

CH-02-08	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	392 (pg/g)
TPH	---
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

CH-02-09	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	496 (pg/g)
TPH	---
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

CH-02-06	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	531 (pg/g)
TPH	---
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

CH8	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	5,700 (pg/g)
TPH	3,600 (ug/kg)
LEAD (PB)	439 (mg/kg)
ARSENIC (AR)	15 (mg/kg)
CHROMIUM (CR)	102 (mg/kg)
COPPER (CU)	---

WC-6	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	1,330 (pg/g)
TPH	---
LEAD (PB)	---
ARSENIC (AR)	---
CHROMIUM (CR)	---
COPPER (CU)	---

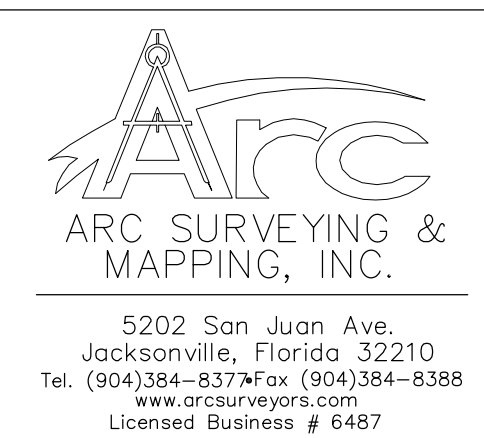
SEE SHEET 2

MATCHLINE

SEE SHEET 4

MATCHLINE

LEGEND/ABBREVIATIONS			
---X---	TRAFFIC CONTROL BOX	---	MEAN HIGH WATER LINE 1.88'
---C---	CABLE BOX	---	MEAN LOW WATER LINE -0.10'
---E---	ELECTRIC BOX	CH	CORE SAMPLE LOCATION
---G---	ELECTRIC MANHOLE	---GAS---	GAS UTILITY LINE
---H---	ELECTRIC HAND HOLE	---ELEC---	ELECTRIC UTILITY LINE
---D---	DRAINAGE MANHOLE	---TEL---	TELEPHONE UTILITY LINE
---S---	SANITARY HANDHOLD	---O---	OVERHEAD UTILITY LINE
---SP---	SPRINKLER	---US---	UNDERGROUND STREET LIGHT LINE
---IP---	SECURITY CAMERA	ID	IDENTIFICATION
---CV---	CONTROL VALVE	IR	IRON ROD
---WV---	WATER VALVE	SP	SEWER PIPE
---WM---	WATER METER	TOB	TOP OF BANK
---EM---	ELECTRIC METER	CLF	CHAIN LINK FENCE
---FH---	FIRE HYDRANT	RCP	REINFORCED CONCRETE PIPE
---PVC---	3" PVC PIPE	CMP	CORRUGATED METAL PIPE
---	SIGN	PVC	POLY VINYL CHLORIDE
---	LIGHT POLE	M/H	MAN HOLE
---	WOOD UTILITY POLE	H/W	HEAD WALL
---	CONCRETE UTILITY POLE	R/W	RIGHT OF WAY
---	CRACK LOCATION	INV	INVERT
---	GUY ANCHOR	M.E.S.	MITERED END SECTION
---	BIOLOGICAL LOCATION	CONC.	CONCRETE
---	DEBRIS LOCATION	MON.	MONUMENT
---	STRUCTURE LOCATION		



DADE COUNTY, FLORIDA
WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA

File name: 071007.DWG
Party Chief: P. SAWYER
Dwn by: JKM
Drawing Date: 08-01-08
Reference files: Field Bk/Pg: 08-08/08-09
Ckd by: JES
Survey Date: 07-17-08
Survey Performed for:
CH2MHILL CONSTRUCTORS, INC.
201 ALHAMBRA CIRCLE, SUITE 600
CORAL GABLES, FL 33134

No.	Approved	Date	Description

OPERATIONAL SECTIONS 1 & 2

PROJECT NO.
07-10-07
FILE NO.
C-08-29
SHEET 3 OF 16

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA

DADE COUNTY TO US GOVERNMENT
OFFICIAL RECORDS BOOK 2612, PAGES 455 & 456
MIAMI-DADE COUNTY RECORDS

CH12	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	2,050 (pg/g)
TPH	163,000 (µg/kg)
LEAD (PB)	1,230 (mg/kg)
ARSENIC (AR)	15.7 (mg/kg)
CHROMIUM (CR)	393 (mg/kg)
COPPER (CU)	----- (mg/kg)

CH-02-10	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	193 (pg/g)
TPH	----- (µg/kg)
LEAD (PB)	----- (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	----- (mg/kg)
COPPER (CU)	----- (mg/kg)

CH14	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	523 (pg/g)
TPH	40,200 (µg/kg)
LEAD (PB)	610 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	11.8 (mg/kg)
COPPER (CU)	----- (mg/kg)

CES-6	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	139 (pg/g)
TPH	92,400 (µg/kg)
LEAD (PB)	157 (mg/kg)
ARSENIC (AR)	0 (mg/kg)
CHROMIUM (CR)	12.6 (mg/kg)
COPPER (CU)	375 (mg/kg)

CES-7	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	153 (pg/g)
TPH	14,800 (µg/kg)
LEAD (PB)	580 (mg/kg)
ARSENIC (AR)	13.9 (mg/kg)
CHROMIUM (CR)	100 (mg/kg)
COPPER (CU)	274 (mg/kg)

CH16	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	692 (pg/g)
TPH	32,000 (µg/kg)
LEAD (PB)	372 (mg/kg)
ARSENIC (AR)	13.6 (mg/kg)
CHROMIUM (CR)	73.7 (mg/kg)
COPPER (CU)	----- (mg/kg)

SEE SHEET 3

SEE SHEET 5

MATCHLINE

MATCHLINE

8

LEGEND/ABBREVIATIONS	
☐	TRAFFIC CONTROL BOX
☐	CABLE BOX
☐	TELEPHONE BOX
☐	ELECTRIC BOX
☐	TELEPHONE MANHOLE
☐	ELECTRIC HAND HOLE
☐	DRAINAGE MANHOLE
☐	SANITARY MANHOLE
☐	SPRINKLER
☐	SECURITY CAMERA
☐	ID
☐	CONTROL VALVE
☐	WATER VALVE
☐	WATER METER
☐	ELECTRIC METER
☐	GUY ANCHOR
☐	FIRE HYDRANT
☐	3" PVC PIPE
☐	SIGN
☐	LIGHT POLE
☐	WOOD UTILITY POLE
☐	CONCRETE UTILITY POLE
☐	GUY ANCHOR
☐	BIOLOGICAL LOCATION
☐	CRACK LOCATION
☐	DEBRIS LOCATION
☐	STRUCTURE LOCATION
---	MEAN HIGH WATER LINE 1.88'
---	MEAN LOW WATER LINE -0.10'
○	CORE SAMPLE LOCATION
---	GAS UTILITY LINE
---	ELECTRIC UTILITY LINE
---	TELEPHONE UTILITY LINE
---	OVERHEAD UTILITY LINE
---	UNDERGROUND STREET LIGHT LINE
---	IRON PIPE
---	IDENTIFICATION
---	IRON ROD
---	SEWER PIPE
---	TOP OF BANK
---	CHAIN LINK FENCE
---	REINFORCED CONCRETE PIPE
---	CORRUGATED METAL PIPE
---	POLY VINYL CHLORIDE
---	MAN HOLE
---	HEAD WALL
---	RIGHT OF WAY
---	INVERT
---	MITERED END SECTION
---	CONCRETE MONUMENT



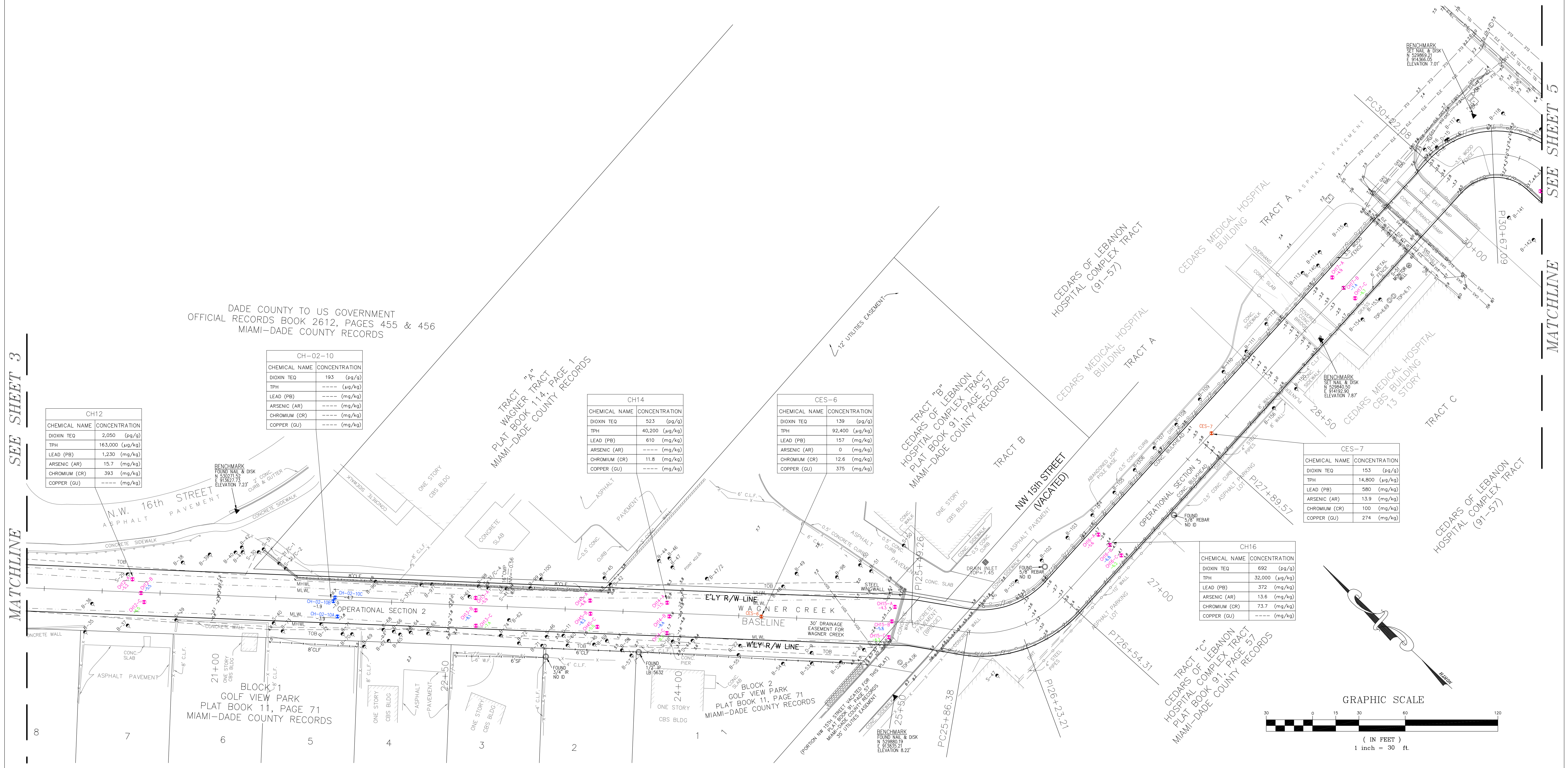
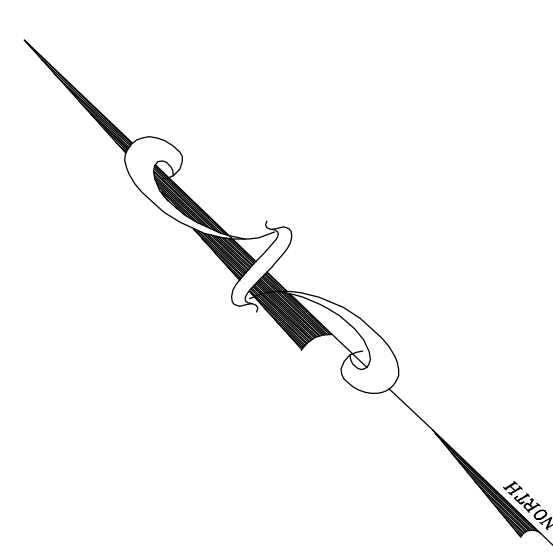
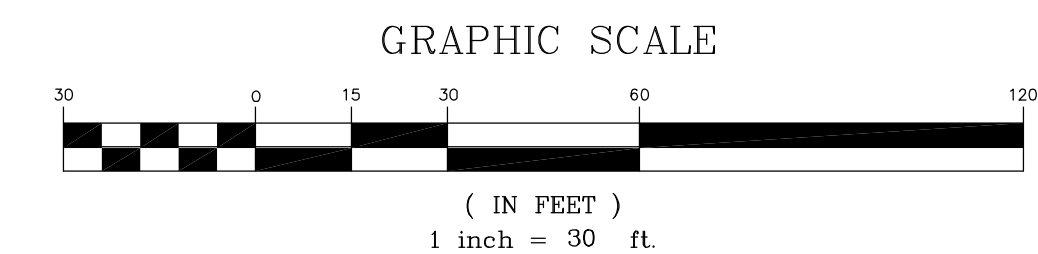
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DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

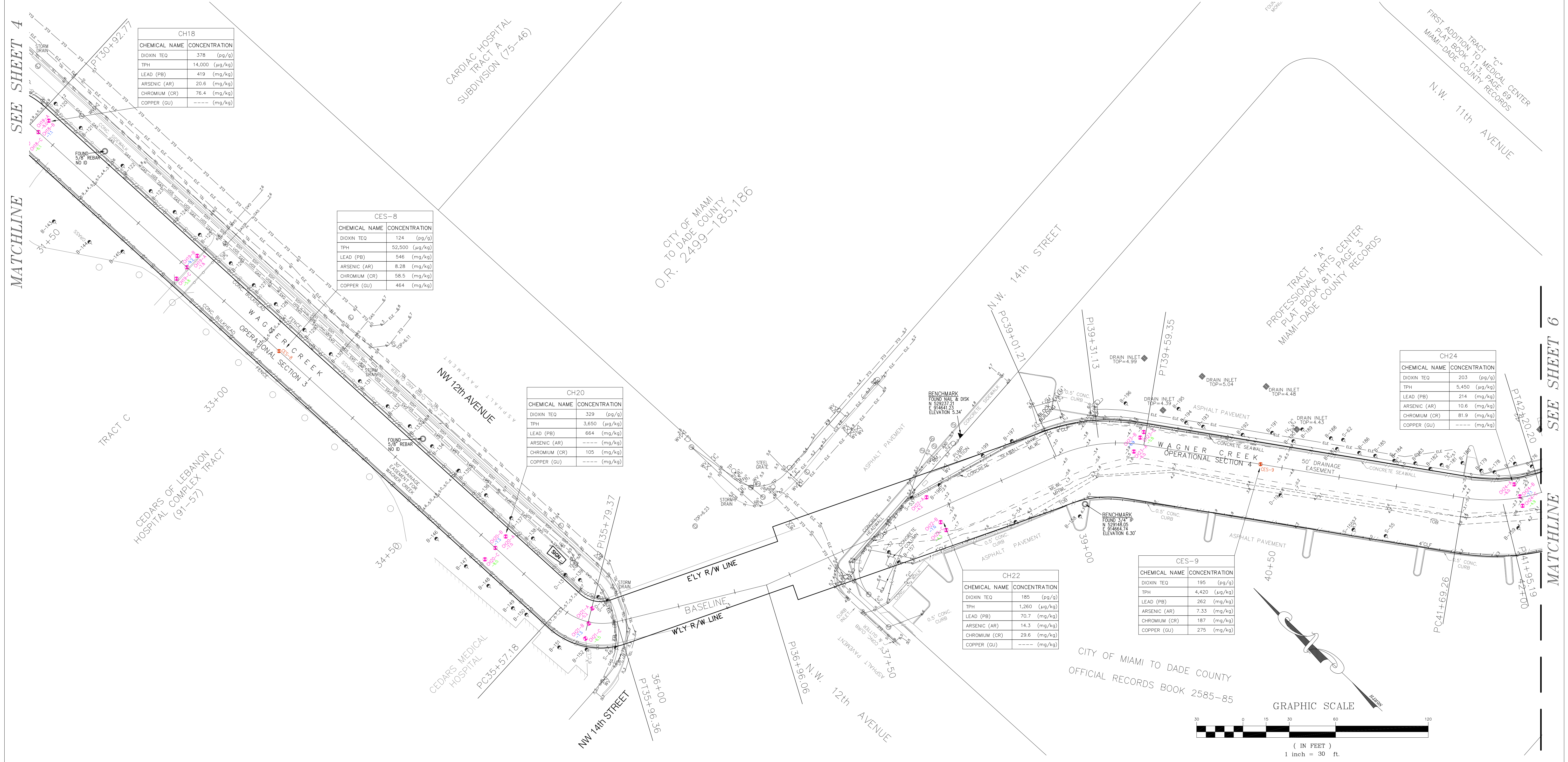
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Reference files:	Field Bk/Pg 08-08/08-09	Ckd by: JES	Survey Date: 07-17-08
Survey Performed for: CH2MHILL CONSTRUCTORS, INC. 201 ALHAMBRA CIRCLE, SUITE 600 CORAL GABLES, FL 33134			
No. Approved	Date	Description	

OPERATIONAL SECTIONS 2 & 3

PROJECT NO. 07-10-07
FILE NO. C-08-29
SHEET 4 OF 16



MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA



CH18	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	378 (pg/g)
TPH	14,000 (µg/kg)
LEAD (PB)	419 (mg/kg)
ARSENIC (AR)	20.6 (mg/kg)
CHROMIUM (CR)	76.4 (mg/kg)
COPPER (CU)	----- (mg/kg)

CES-8	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	124 (pg/g)
TPH	52,500 (µg/kg)
LEAD (PB)	546 (mg/kg)
ARSENIC (AR)	8.28 (mg/kg)
CHROMIUM (CR)	58.5 (mg/kg)
COPPER (CU)	464 (mg/kg)

CH20	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	329 (pg/g)
TPH	3,650 (µg/kg)
LEAD (PB)	664 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	105 (mg/kg)
COPPER (CU)	----- (mg/kg)

CH22	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	185 (pg/g)
TPH	1,260 (µg/kg)
LEAD (PB)	70.7 (mg/kg)
ARSENIC (AR)	14.3 (mg/kg)
CHROMIUM (CR)	29.6 (mg/kg)
COPPER (CU)	----- (mg/kg)

CES-9	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	195 (pg/g)
TPH	4,420 (µg/kg)
LEAD (PB)	262 (mg/kg)
ARSENIC (AR)	7.33 (mg/kg)
CHROMIUM (CR)	187 (mg/kg)
COPPER (CU)	275 (mg/kg)

CH24	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	203 (pg/g)
TPH	5,450 (µg/kg)
LEAD (PB)	214 (mg/kg)
ARSENIC (AR)	10.6 (mg/kg)
CHROMIUM (CR)	81.9 (mg/kg)
COPPER (CU)	----- (mg/kg)

LEGEND / ABBREVIATIONS			
⊠	TRAFFIC CONTROL BOX	---	MEAN HIGH WATER LINE 1.88'
⊠	CABLE BOX	---	MEAN LOW WATER LINE -0.10'
⊠	TELEPHONE BOX	ch	CORE SAMPLE LOCATION
⊠	ELECTRIC BOX	-gas-	GAS UTILITY LINE
⊠	TELEPHONE MANHOLE	-el-	ELECTRIC UTILITY LINE
⊠	ELECTRIC HAND HOLE	-t-	TELEPHONE UTILITY LINE
⊠	DRAINAGE MANHOLE	-ou-	OVERHEAD UTILITY LINE
⊠	SANITARY HANDHOLD	-us-	UNDERGROUND STREET LIGHT LINE
⊠	SPRINKLER	IP	IDENTIFICATION
⊠	SECURITY CAMERA	IR	IRON PIPE
⊠	CONTROL VALVE	SR	SEWER PIPE
⊠	WATER VALVE	TOB	TOP OF BANK
⊠	WATER METER	CLF	CHAIN LINK FENCE
⊠	ELECTRIC METER	RCP	REINFORCED CONCRETE PIPE
⊠	FIRE HYDRANT	CMP	CORRUGATED METAL PIPE
⊠	3" P.V.C. PIPE	PVC	POLY VINYL CHLORIDE
⊠	SIGN	M/H	MAN HOLE
⊠	LIGHT POLE	H/W	HEAD WALL
⊠	WOOD UTILITY POLE	R/W	RIGHT OF WAY
⊠	CONCRETE UTILITY POLE	INV	INVERT
⊠	GUY ANCHOR	M.E.S.	MITERED END SECTION
⊠	BIOLOGICAL LOCATION	CONC.	CONCRETE
⊠	CRACK LOCATION	MON.	MONUMENT
⊠	DEBRIS LOCATION		
⊠	STRUCTURE LOCATION		

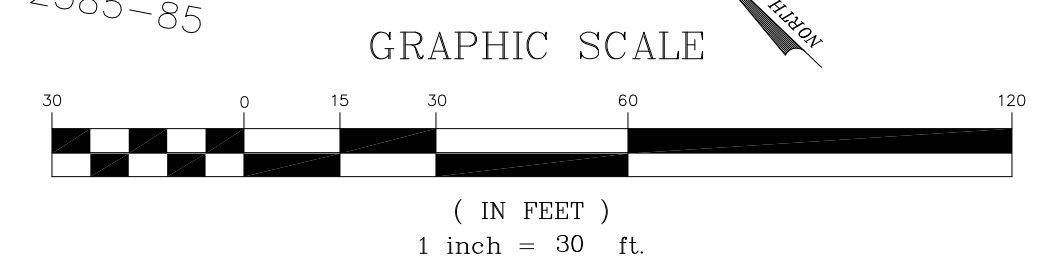


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DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

File name: 071007.DWG	Party Chief: P. SAWYER	Drawn by: JKM	Drawing Date: 08-01-08
Reference files:	Field Bk/Pg 08-08/08-09	Ckd by: JES	Survey Date: 07-17-08
Survey Performed for: CH2MHILL CONSTRUCTORS, INC. 201 ALHAMBRA CIRCLE, SUITE 600 CORAL GABLES, FL 33134			

No.	Approved	Date	Description



OPERATIONAL SECTIONS 3 & 4

PROJECT NO. 07-10-07
FILE NO. C-08-29
SHEET 5 OF 16

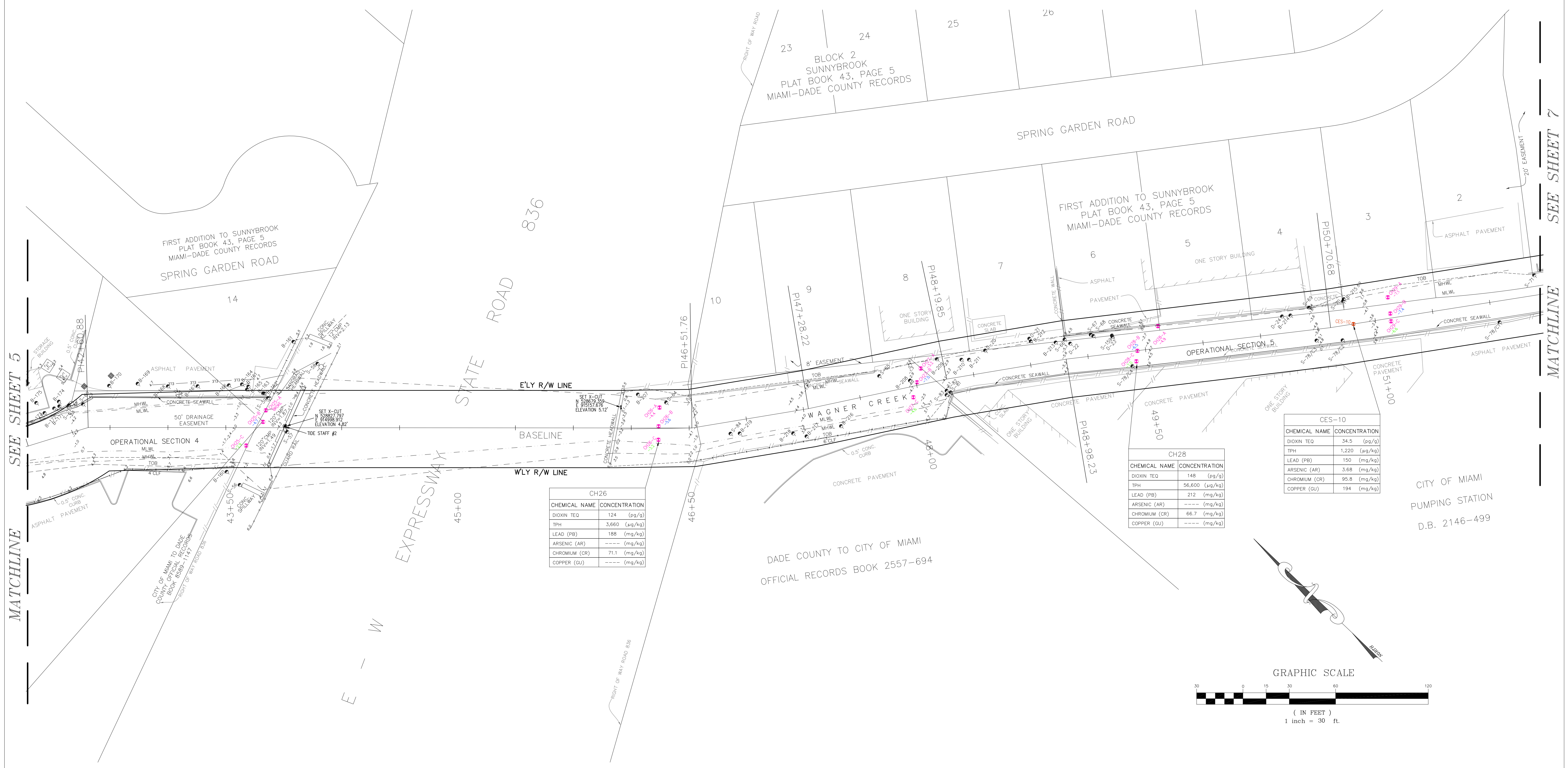
SEE SHEET 4

MATCHLINE

SEE SHEET 6

MATCHLINE

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA



SEE SHEET 5

MATCHLINE

SEE SHEET 7

MATCHLINE

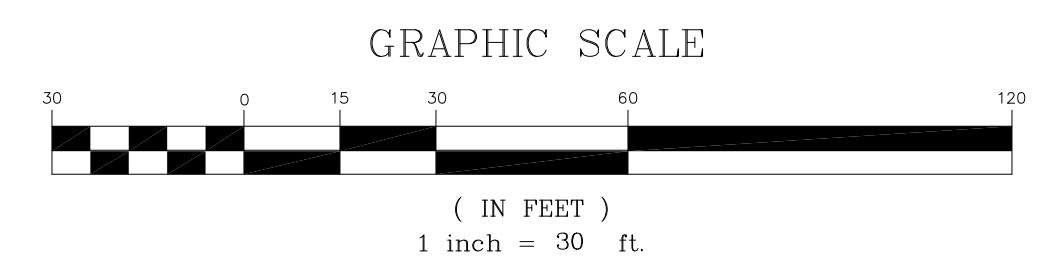
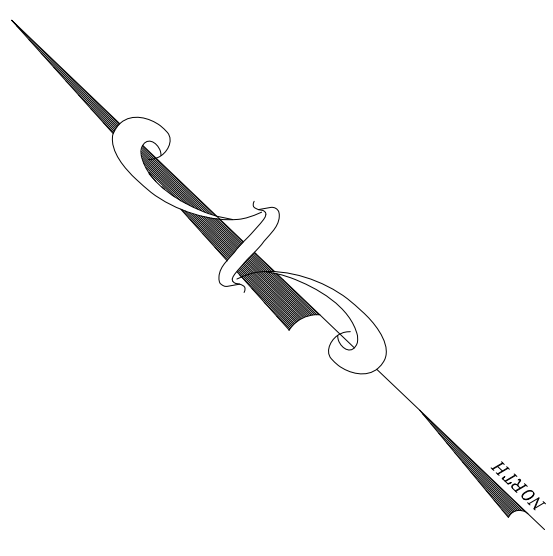
CH26	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	124 (pg/g)
TPH	3,060 (ug/kg)
LEAD (PB)	188 (mg/kg)
ARSENIC (AR)	---- (mg/kg)
CHROMIUM (CR)	71.1 (mg/kg)
COPPER (CU)	---- (mg/kg)

CH28	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	148 (pg/g)
TPH	56,600 (ug/kg)
LEAD (PB)	212 (mg/kg)
ARSENIC (AR)	---- (mg/kg)
CHROMIUM (CR)	66.7 (mg/kg)
COPPER (CU)	---- (mg/kg)

CES-10	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	34.5 (pg/g)
TPH	1,220 (ug/kg)
LEAD (PB)	150 (mg/kg)
ARSENIC (AR)	3.68 (mg/kg)
CHROMIUM (CR)	95.8 (mg/kg)
COPPER (CU)	194 (mg/kg)

CITY OF MIAMI
PUMPING STATION
D.B. 2146-499

DADE COUNTY TO CITY OF MIAMI
OFFICIAL RECORDS BOOK 2557-694



LEGEND / ABBREVIATIONS			
⊠	TRAFFIC CONTROL BOX	---	MEAN HIGH WATER LINE 1.88'
⊠	CABLE BOX	---	MEAN LOW WATER LINE -0.10'
⊠	TELEPHONE BOX	CH	CORE SAMPLE LOCATION
⊠	ELECTRIC BOX	---	GAS UTILITY LINE
⊠	TELEPHONE MANHOLE	---	ELECTRIC UTILITY LINE
⊠	ELECTRIC HAND HOLE	---	TELEPHONE UTILITY LINE
⊠	DRAINAGE MANHOLE	---	OVERHEAD UTILITY LINE
⊠	SANITARY HANDHOLD	---	UNDERGROUND STREET LIGHT LINE
⊠	SPRINKLER	---	IRON PIPE
⊠	SECURITY CAMERA	---	IDENTIFICATION
⊠	CONTROL VALVE	---	IRON ROD
⊠	WATER VALVE	---	SEWER PIPE
⊠	WATER METER	---	TOP OF BANK
⊠	ELECTRIC METER	---	CHAIN LINK FENCE
⊠	FIRE HYDRANT	---	REINFORCED CONCRETE PIPE
⊠	3" PVC PIPE	---	CORRUGATED METAL PIPE
⊠	SIGN	---	POLY VINYL CHLORIDE
⊠	LIGHT POLE	---	MAN HOLE
⊠	WOOD UTILITY POLE	---	HEAD WALL
⊠	CONCRETE UTILITY POLE	---	RIGHT OF WAY
⊠	GUY ANCHOR	---	INVERT
⊠	BIOLOGICAL LOCATION	---	MITERED END SECTION
⊠	CRACK LOCATION	---	CONCRETE
⊠	DEBRIS LOCATION	---	MONUMENT
⊠	STRUCTURE LOCATION	---	



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Survey Performed for: CH2MHILL CONSTRUCTORS, INC. 201 ALHAMBRA CIRCLE, SUITE 600 CORAL GABLES, FL 33134			

No. Approved	Date	Description

OPERATIONAL SECTIONS 4 & 5

PROJECT NO.
07-10-07
FILE NO.
C-08-29
SHEET 6 OF 16

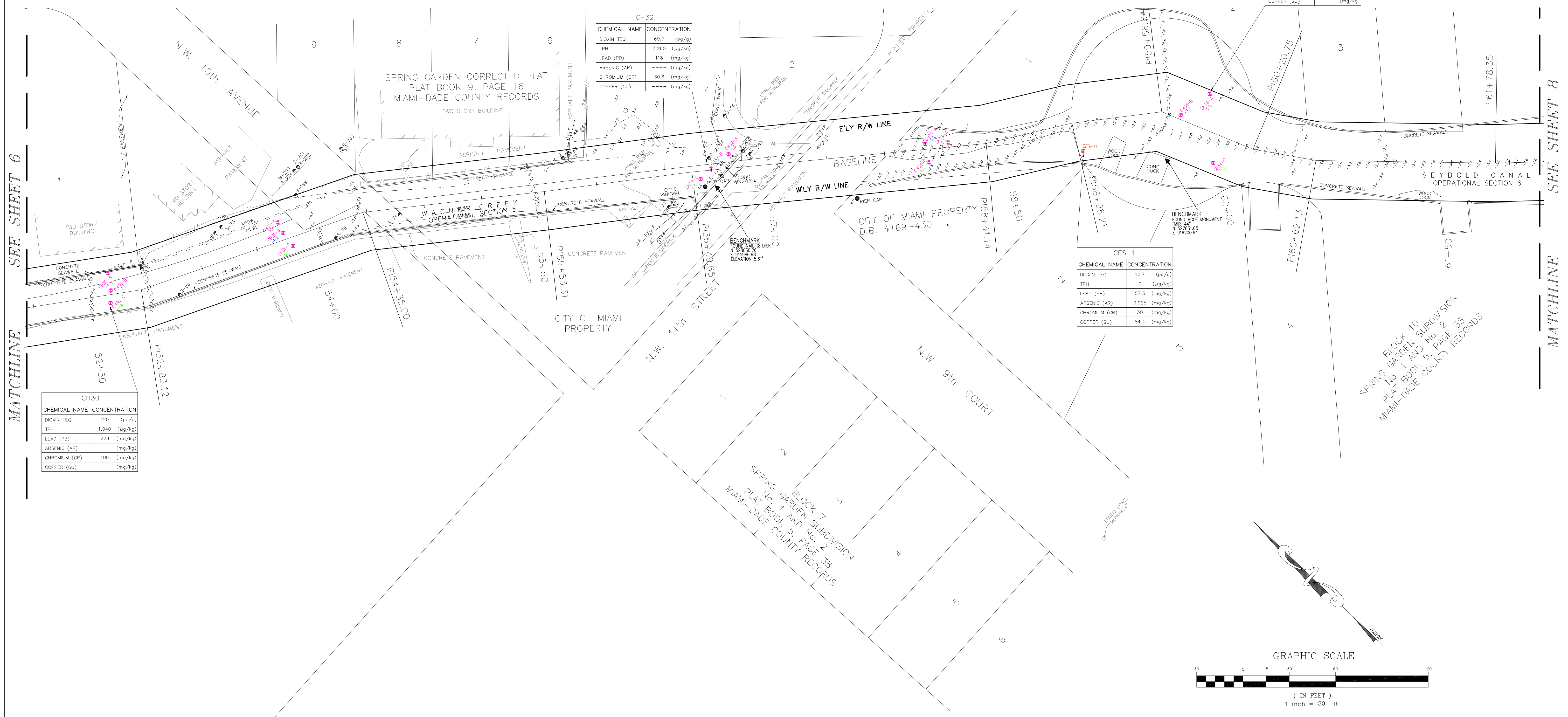
MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA

CH34	
CHEMICAL NAME	CONCENTRATION
DIOXIN (TEQ)	96 (pg/g)
TPH	1,890 (µg/kg)
LEAD (PB)	576 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	344 (mg/kg)
COPPER (CU)	----- (mg/kg)

CH32	
CHEMICAL NAME	CONCENTRATION
DIOXIN (TEQ)	69.7 (pg/g)
TPH	7,260 (µg/kg)
LEAD (PB)	118 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	30.6 (mg/kg)
COPPER (CU)	----- (mg/kg)

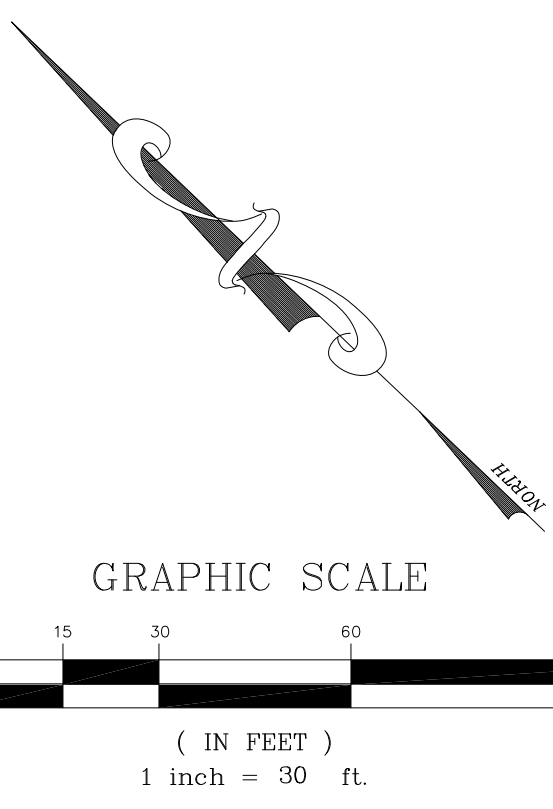
CES-11	
CHEMICAL NAME	CONCENTRATION
DIOXIN (TEQ)	12.7 (pg/g)
TPH	0 (µg/kg)
LEAD (PB)	57.3 (mg/kg)
ARSENIC (AR)	0.925 (mg/kg)
CHROMIUM (CR)	30 (mg/kg)
COPPER (CU)	84.4 (mg/kg)

CH30	
CHEMICAL NAME	CONCENTRATION
DIOXIN (TEQ)	120 (pg/g)
TPH	1,040 (µg/kg)
LEAD (PB)	229 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	109 (mg/kg)
COPPER (CU)	----- (mg/kg)

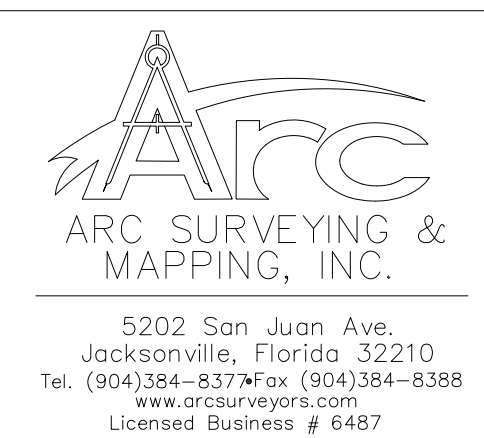


MATCHLINE SEE SHEET 6

MATCHLINE SEE SHEET 8



LEGEND / ABBREVIATIONS			
⊠	TRAFFIC CONTROL BOX	---	MEAN HIGH WATER LINE 1.88'
⊞	CABLE BOX	---	MEAN LOW WATER LINE -0.10'
⊞	TELEPHONE BOX	ch	CORE SAMPLE LOCATION
⊞	ELECTRIC BOX	gas	GAS UTILITY LINE
⊞	TELEPHONE MANHOLE	el	ELECTRIC UTILITY LINE
⊞	ELECTRIC HAND HOLE	tu	TELEPHONE UTILITY LINE
⊞	DRAINAGE MANHOLE	ou	OVERHEAD UTILITY LINE
⊞	SANITARY HANDHOLD	us	UNDERGROUND STREET LIGHT LINE
⊞	SPRINKLER	IP	IRON PIPE
⊞	SECURITY CAMERA	ID	IDENTIFICATION
⊞	CONTROL VALVE	IR	IRON ROD
⊞	WATER VALVE	SP	SEWER PIPE
⊞	ELECTRIC METER	TOB	TOP OF BANK
⊞	FIRE HYDRANT	CLF	CHAIN LINK FENCE
⊞	3" PVC PIPE	RCP	REINFORCED CONCRETE PIPE
⊞	LIGHT POLE	CMP	CORRUGATED METAL PIPE
⊞	WOOD UTILITY POLE	PVC	POLY VINYL CHLORIDE
⊞	CONCRETE UTILITY POLE	M/H	MAN HOLE
⊞	GUY ANCHOR	H/W	HEAD WALL
⊞	BIOLOGICAL LOCATION	R/W	RIGHT OF WAY
⊞	CRACK LOCATION	INV	INVERT
⊞	DEBRIS LOCATION	M.E.S.	MITERED END SECTION
⊞	STRUCTURE LOCATION	CONC.	CONCRETE
⊞		MON.	MONUMENT



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

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No.	Approved	Date	Description

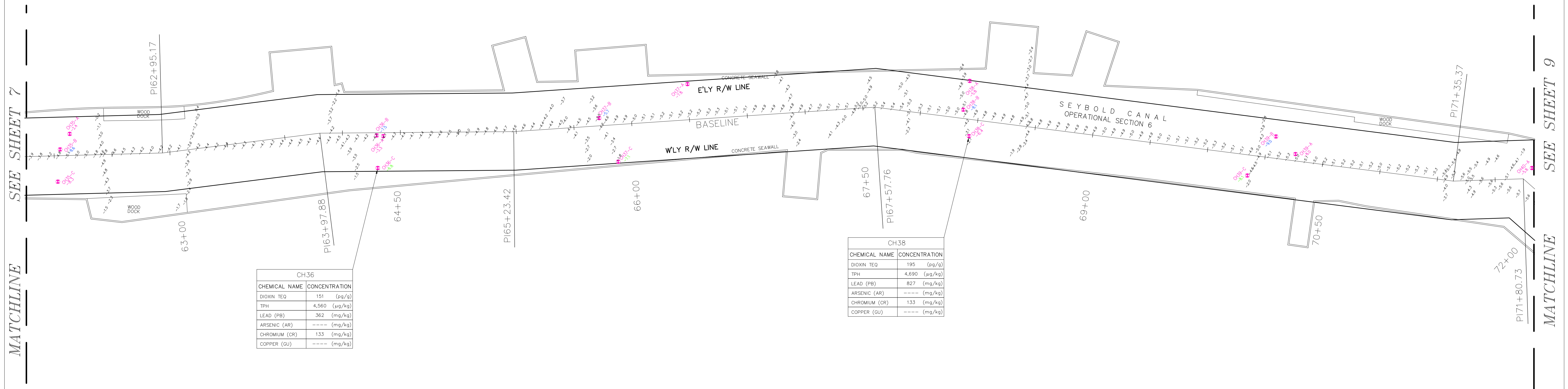
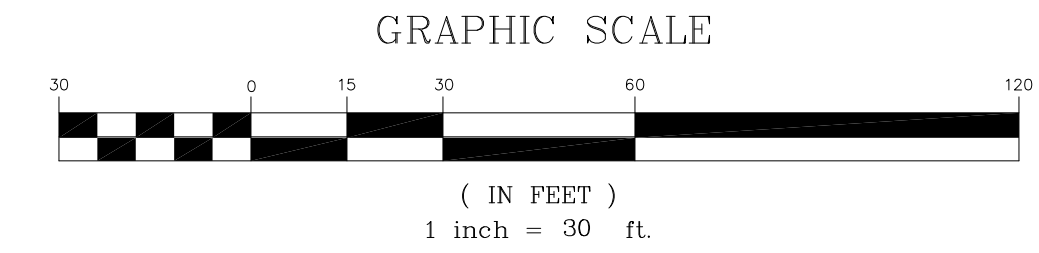
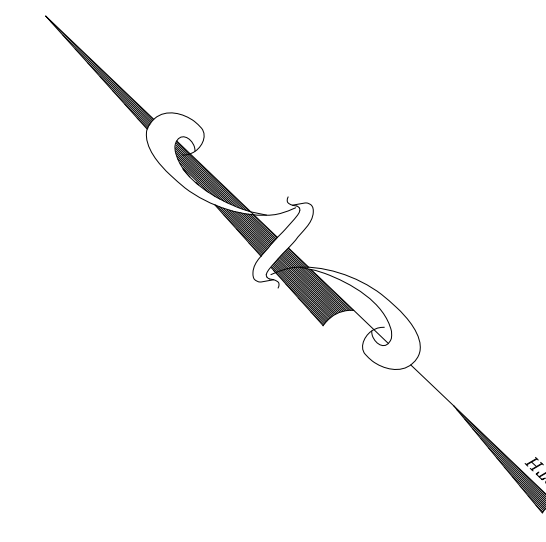
OPERATIONAL SECTIONS 5 & 6

PROJECT NO.
07-10-07

FILE NO.
C-08-29

SHEET 7 OF 16

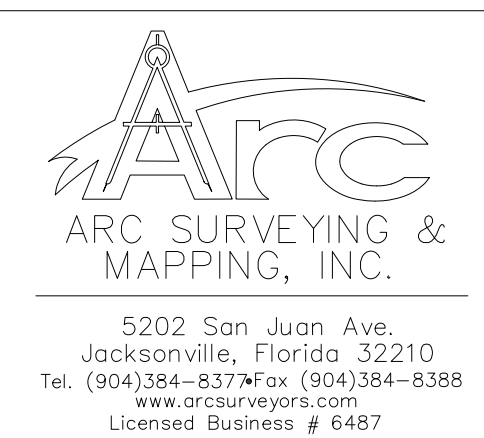
MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA



CH36	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	151 (pg/g)
TPH	4,560 (ug/kg)
LEAD (PB)	362 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	133 (mg/kg)
COPPER (CU)	----- (mg/kg)

CH38	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	195 (pg/g)
TPH	4,690 (ug/kg)
LEAD (PB)	827 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	133 (mg/kg)
COPPER (CU)	----- (mg/kg)

LEGEND / ABBREVIATIONS			
TCB	TRAFFIC CONTROL BOX	MLWL	MEAN LOW WATER LINE -0.10'
CB	CABLE BOX	CSL	CORE SAMPLE LOCATION
EB	ELECTRIC BOX	GL	GAS UTILITY LINE
EMH	ELECTRIC MANHOLE	EL	ELECTRIC UTILITY LINE
EH	ELECTRIC HAND HOLE	TUL	TELEPHONE UTILITY LINE
DMH	DRAINAGE MANHOLE	OU	OVERHEAD UTILITY LINE
SH	SANITARY HANDHOLD	USL	UNDERGROUND STREET LIGHT LINE
SP	SPRINKLER	IP	IRON PIPE
SC	SECURITY CAMERA	ID	IDENTIFICATION
CV	CONTROL VALVE	IR	IRON ROD
WV	WATER VALVE	SP	SEWER PIPE
WM	WATER METER	TOB	TOP OF BANK
EM	ELECTRIC METER	CLF	CHAIN LINK FENCE
FH	FIRE HYDRANT	RCP	REINFORCED CONCRETE PIPE
3" PVP	3" PVP PIPE	CMP	CORRUGATED METAL PIPE
PVC	PVC	PVCL	POLY VINYL CHLORIDE
M/H	MAN HOLE	H/W	HEAD WALL
WUP	WOOD UTILITY POLE	R/W	RIGHT OF WAY
CUP	CONCRETE UTILITY POLE	INV	INVERT
GA	GUY ANCHOR	MES	MITERED END SECTION
BL	BIOLOGICAL LOCATION	CONC.	CONCRETE
CRK	CRACK LOCATION	MON.	MONUMENT
DEBRIS	DEBRIS LOCATION		
STR	STRUCTURE LOCATION		



DADE COUNTY, FLORIDA

WAGNER CREEK &
SEYBOLD CANAL
MIAMI, FLORIDA

File name: 071007.DWG	Party Chief: P. SAWYER	Dwn by: JKM	Drawing Date: 08-01-08
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No. Approved	Date	Description

OPERATIONAL SECTION 6

PROJECT NO. 07-10-07
FILE NO. C-08-29
SHEET 8 OF 16

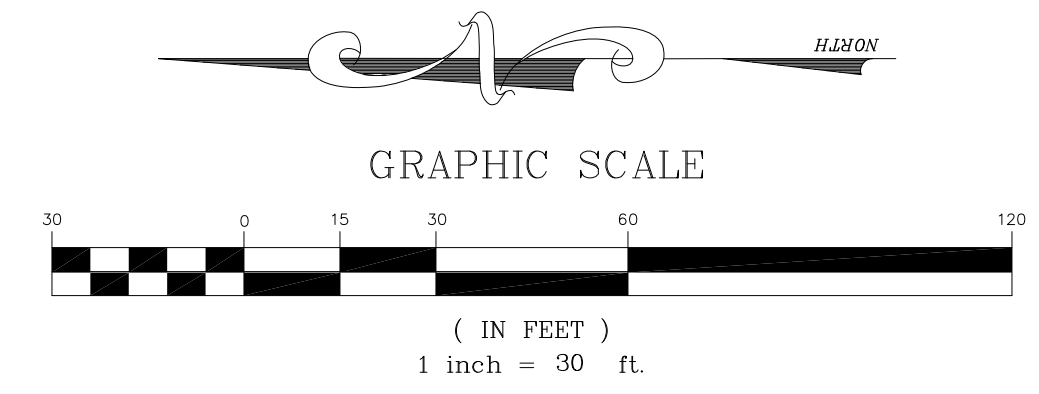
SEE SHEET 7

MATCHLINE

SEE SHEET 9

MATCHLINE

MAP SHOWING A HYDROGRAPHIC & TOPOGRAPHIC SURVEY OF: WAGNER CREEK & SEYBOLD CANAL DADE COUNTY, FLORIDA

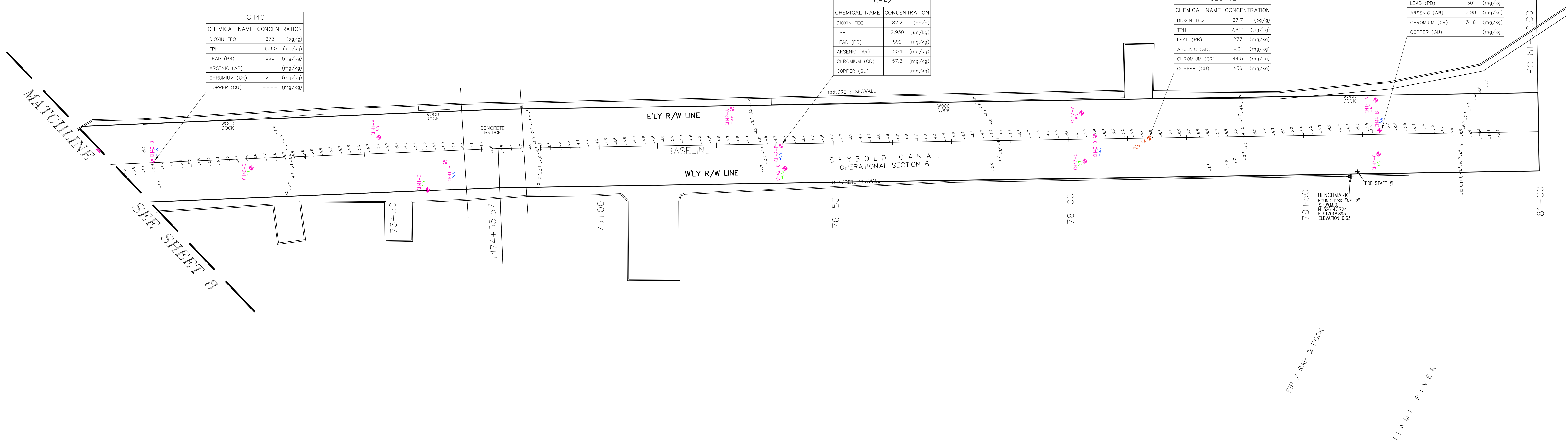


CH40	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	273 (pg/g)
TPH	3,360 (µg/kg)
LEAD (PB)	620 (mg/kg)
ARSENIC (AR)	----- (mg/kg)
CHROMIUM (CR)	205 (mg/kg)
COPPER (CU)	----- (mg/kg)

CH42	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	82.2 (pg/g)
TPH	2,930 (µg/kg)
LEAD (PB)	592 (mg/kg)
ARSENIC (AR)	50.1 (mg/kg)
CHROMIUM (CR)	57.3 (mg/kg)
COPPER (CU)	----- (mg/kg)

CES-12	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	37.7 (pg/g)
TPH	2,600 (µg/kg)
LEAD (PB)	277 (mg/kg)
ARSENIC (AR)	4.91 (mg/kg)
CHROMIUM (CR)	44.5 (mg/kg)
COPPER (CU)	436 (mg/kg)

CH44	
CHEMICAL NAME	CONCENTRATION
DIOXIN TEQ	54.9 (pg/g)
TPH	3,430 (µg/kg)
LEAD (PB)	301 (mg/kg)
ARSENIC (AR)	7.98 (mg/kg)
CHROMIUM (CR)	31.6 (mg/kg)
COPPER (CU)	----- (mg/kg)



LEGEND / ABBREVIATIONS	
⊠	TRAFFIC CONTROL BOX
⊞	CABLE BOX
⊞	TELEPHONE BOX
⊞	ELECTRIC BOX
⊞	TELEPHONE MANHOLE
⊞	ELECTRIC HAND HOLE
⊞	DRAINAGE MANHOLE
⊞	SANITARY HANDHOLD
⊞	SPRINKLER
⊞	SECURITY CAMERA
⊞	CONTROL VALVE
⊞	WATER VALVE
⊞	WATER METER
⊞	ELECTRIC METER
⊞	FIRE HYDRANT
⊞	3" P.V.C PIPE
⊞	P.V.C
⊞	SIGN
⊞	LIGHT POLE
⊞	WOOD UTILITY POLE
⊞	CONCRETE UTILITY POLE
⊞	GUY ANCHOR
⊞	BIOLOGICAL LOCATION
⊞	CRACK LOCATION
⊞	DEBRIS LOCATION
⊞	STRUCTURE LOCATION
---	MEAN HIGH WATER LINE 1.88'
---	MEAN LOW WATER LINE -0.10'
CH	CORE SAMPLE LOCATION
---	GAS UTILITY LINE
---	ELECTRIC UTILITY LINE
---	TELEPHONE UTILITY LINE
---	OVERHEAD UTILITY LINE
---	UNDERGROUND STREET LIGHT LINE
IP	IRON PIPE
ID	IDENTIFICATION
IR	IRON ROD
SR	SEWER PIPE
TOB	TOP OF BANK
CLF	CHAIN LINK FENCE
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLY VINYL CHLORIDE
M/H	MAN HOLE
H/W	HEAD WALL
R/W	RIGHT OF WAY
INV	INVERT
M.E.S.	MITERED END SECTION
CONC.	CONCRETE
MON.	MONUMENT



DADE COUNTY, FLORIDA
WAGNER CREEK & SEYBOLD CANAL
MIAMI, FLORIDA

File name: 071007.DWG	Party Chief: P. SAWYER	Dwn by: JKM	Drawing Date: 08-01-08
Reference files:	Field Bk/Pg 08-08/08-09	Ckd by: JES	Survey Date: 07-17-08
Survey Performed for: CH2MHILL CONSTRUCTORS, INC. 201 ALHAMBRA CIRCLE, SUITE 600 CORAL GABLES, FL 33134			

No. Approved	Date	Description

OPERATIONAL SECTION 6

PROJECT NO.	07-10-07
FILE NO.	C-08-29
SHEET	9 OF 16

Volume 3, Section 7

Volume Calculation Details

**Quantity Estimate Summary
Wagner Creek/Seybold Canal**

AREA	BEGIN	END	LENGTH (ft)	VOLUME (cy)	Mass (tons)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
OS1 Detail								
OS1-1	NW 20th St	CES 3	262	1,198	1,665	1,665	-	-
OS1-2	CES 3	CH-02-04	600	2,097	2,914	-	2,914	-
OS1-3	CH-02-04	CH-02-06	295	704	978	978	-	-
OS1-4	CH-02-06	WC-6	155	348	484	-	344	140
OS1 (total)			1,312	4,347	6,042	2,643	3,258	140
OS2			1,219	5,481	7,619	7,147	-	471
OS3			922	4,577	6,362	6,362	-	-
OS4			831	3,060	4,253	2,916	-	1,338
OS5			1,506	4,778	6,641	6,641	-	-
Total Wagner Creek			5,790	22,242	30,917	25,709	3,258	1,949
OS6 (Seybold Canal)			2,259	23,799	33,080	31,399	-	1,681
Total Wagner/Seybold			8,049	46,041	63,997	57,109	3,258	3,630

Note: Disposal Mass < 1 ppb - Medley Landfill; Disposal Mass ≥ 1 ppb - Emelle, AL

Ave Sediment Density

1.39 tons/cy

**Quantity Estimate Details
Wagner Creek/Seybold Canal**

Sample Description	Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 1											
WC-1 to CH-2	OS1-1	1	0+03.29	1+95	191.71	851	4.44	6.17	1,183	-	-
CH-2 to WC-2	OS1-1	1	1+95	2+25	30	148	4.93	6.85	205	-	-
WC-2 to CES-3	OS1-1	1	2+25	2+65	40	199	4.98	6.93	277	-	-
CES-3 to CH-02-01	OS1-2	2	2+65	3+00	35	170	4.85	6.74	-	236	-
CH-02-01 to WC-3	OS1-2	2	3+00	3+80	80	354	4.43	6.15	-	492	-
WC-3 to CH-02-02	OS1-2	2	3+80	4+50	70	265	3.79	5.27	-	369	-
CH-02-02 to CH-4	OS1-2	2	4+50	6+00	150	505	3.36	4.68	-	701	-
CH-4 to WC-4	OS1-2	2	6+00	6+25	25	79	3.18	4.41	-	110	-
WC-4 to CH-02-03	OS1-2	2	6+25	7+10	85	259	3.04	4.23	-	360	-
CH-02-03 to CH-02-04	OS1-2	2	7+10	8+65	155	465	3.00	4.17	-	646	-
CH-02-04 to WC-5	OS1-3	1	8+65	9+35	70	202	2.88	4.00	280	-	-
WC-5 to CH-6	OS1-3	1	9+35	9+75	40	116	2.91	4.04	162	-	-
CH-6 to CH-02-05	OS1-3	1	9+75	10+20	45	114	2.53	3.51	158	-	-
CH-02-05 to CES-4	OS1-3	1	10+20	11+25	105	220	2.09	2.91	305	-	-
CES-4 to CH-02-06	OS1-3	1	11+25	11+60	35	53	1.50	2.09	73	-	-
CH-02-06 to 10' Upstream Offset at Pipeline	OS1-4	2	11+60	12+02	42	93	2.21	3.07	-	129	-
Pipeline Offset Volume	OS1-4	3	12+02	12+30	28	62	2.21	3.07	-	-	86
Downstream 10 Offset at Pipeline to Upstream 10' Offset at 2nd Pipeline	OS1-4	2	12+30	13+00	70	155	2.21	3.07	-	215	-
Upstream 10' Offset at Pipeline to CH-8	OS1-4	3	13+00	13+10	10	22	2.21	3.07	-	-	31
CH-8 to WC-6 (NW 14th Ave Bridge Upstream Side)	OS1-4	3	13+10	13+15	5	17	3.36	4.67	-	-	23
Total OS-1					1,312	4,347	6,042	3.20	89	2,643	3,258

Sample Description	Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 2											
WC-6 to CH-02-07 (Under NW 14th Ave Bridge)	OS2	3	13+15	15+00	185	339	1.83	2.55	-	-	471
CH-02-07 to CES-5	OS2	1	15+00	15+20	20	94	4.68	6.50	130	-	-
CES-5 to CH-10	OS2	1	15+20	16+40	120	520	4.33	6.02	722	-	-
CH-10 to CH-02-08	OS2	1	16+40	17+65	125	602	4.82	6.69	837	-	-
CH-02-08 to CH-02-09	OS2	1	17+65	19+10	145	790	5.45	7.57	1,098	-	-
CH-02-09 to CH-12	OS2	1	19+10	20+45	135	699	5.18	7.19	971	-	-
CH-12 to CH-02-10	OS2	1	20+45	21+75	130	676	5.20	7.23	940	-	-
CH-02-10 to CH-14	OS2	1	21+75	24+00	225	1,087	4.83	6.72	1,512	-	-
CH-14 to CES-6	OS2	1	24+00	24+50	50	209	4.17	5.80	290	-	-
CES-6 to CH-15 (NW 15th St Bridge)	OS2	1	24+50	25+34.29	84.29	466	5.53	7.69	648	-	-
Total OS-2					1,219	5,481	7,619	4.60	64	7,147	471

		Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 3												
Under NW 15th St Bridge (Est.)	OS3	1	25+34.29	25+80	46	234	326	5.09	7.08	326	-	-
Adjacent to Univ of Miami Hospital	OS3	1	25+80	26+30	50	255	354	5.09	7.08	354	-	-
Adjacent to Univ of Miami Hospital	OS3	1	26+30	26+55	25	124	172	4.95	6.88	172	-	-
Adjacent to Univ of Miami Hospital	OS3	1	26+55	27+00	45	216	301	4.81	6.68	301	-	-
Adjacent to Univ of Miami Hospital	OS3	1	27+00	28+50	150	791	1,100	5.28	7.33	1,100	-	-
Adjacent to Univ of Miami Hospital	OS3	1	28+50	30+22.08	72.08	881	1,225	12.23	17.00	1,225	-	-
Adjacent to Univ of Miami Hospital	OS3	1	30+22.08	30+67.04	45	171	237	3.79	5.27	237	-	-
Adjacent to Univ of Miami Hospital	OS3	1	30+67.04	30+92.77	25	84	117	3.38	4.69	117	-	-
Adjacent to Univ of Miami Hospital	OS3	1	30+92.77	31+50	57	181	251	3.17	4.41	251	-	-
Adjacent to Univ of Miami Hospital	OS3	1	31+50	33+00	150	520	723	3.47	4.82	723	-	-
Adjacent to Univ of Miami Hospital	OS3	1	33+00	34+50	150	658	915	4.39	6.10	915	-	-
Adjacent to Univ of Miami Hospital	OS3	1	34+50	35+57.18	107	461	641	4.31	5.99	641	-	-
Total OS-3					922	4,577	6,362	5.00	83	6,362	-	-

		Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 4												
NW 12th Ave/NW 14th St Culvert (Est.)	OS4	3	35+57.18	37+80	223	940	1,307	4.22	5.86	-	-	1,307
Behind Christy House	OS4	1	37+80	38+25	45	190	264	4.22	5.86	262	-	2
Behind Christy House	OS4	1	38+25	39+00	75	348	484	4.64	6.45	482	-	2
Behind Christy House	OS4	1	39+00	39+20.66	21	89	124	4.25	5.91	123	-	1
Behind Christy House	OS4	1	39+20.66	39+54	33	112	155	3.38	4.70	154	-	1
Behind Christy House	OS4	1	39+54	40+55	101	245	340	2.42	3.37	331	-	9
Behind Christy House	OS4	1	40+55	41+69.26	114	232	323	2.04	2.83	313	-	10
Behind Christy House	OS4	1	41+69.26	42+00	31	69	96	2.23	3.10	93	-	3
Behind Christy House	OS4	1	42+00	42+50	50	173	240	3.45	4.80	237	-	3
Behind Christy House	OS4	1	42+50	43+55	105	530	737	5.05	7.02	737	-	-
Behind Christy House	OS4	1	43+55	43+88	33	132	184	4.01	5.58	184	-	-
Total OS-4					831	3,060	4,253	3.63	55	2,916	-	1,338

		Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 5												
SR 836 Culvert (Est.)	OS5	3	43+88	46+00	212	-	-	-	-	-	-	-
Winn Dixie/Residential	OS5	1	46+00	46+50	150	210	291	1.40	1.94	291	-	-
Winn Dixie/Residential	OS5	1	46+50	48+00	150	672	935	4.48	6.23	935	-	-
Winn Dixie/Residential	OS5	1	48+00	49+50	150	556	772	3.70	5.15	772	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	49+50	51+00	150	732	1,018	4.88	6.79	1,018	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	51+00	52+50	150	756	1,051	5.04	7.01	1,051	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	52+50	52+87.57	38	143	199	3.77	5.24	199	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	52+87.57	54+00	112	468	651	4.18	5.81	651	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	54+00	54+30	30	122	170	4.08	5.68	170	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	54+30	55+50	120	336	467	2.80	3.89	467	-	-
Department of Public Works/Apartments/Vacant Land	OS5	1	55+50	56+70	120	385	535	3.20	4.45	535	-	-
NW 11th St Bridge (Est.)	OS5	1	56+70	57+93.39	124	397	552	3.20	4.45	552	-	-
Total OS-5					1,506	4,778	6,641	3.40	57	6,641	-	-

Subtotal Wagner Creek

5,790 22,242 30,917 20 349 25,709 3,258 1,949

		Disposal Code	Begin Station	End Station	Length	Volume (CY)	Mass (TONS)	Vol/LF (CY/lf)	Mass/LF (tons/lf)	Disposal Mass (< 1 ppb) (tons)	Disposal Mass (≥ 1 ppb) (tons)	Mass to Remain (tons)
Operational Section 6												
Residential/Turning Basin	OS6	1	57+93.39	59+55.84	163	2,694	3,745	16.53	22.97	3,312	-	433
Residential/Turning Basin	OS6	1	59+55.84	60+50	96	1,351	1,877	14.07	19.56	1,754	-	123
Residential	OS6	1	60+50	61+00	50	354	493	7.09	9.85	468	-	25
Residential	OS6	1	61+00	62+50	150	1,303	1,811	8.68	12.07	1,701	-	110
Residential	OS6	1	62+50	64+00	150	2,367	3,290	15.78	21.94	3,129	-	161
Residential	OS6	1	64+00	65+57.66	158	2,740	3,808	17.34	24.10	3,610	-	198
Residential	OS6	1	65+57.66	67+00	142	1,643	2,283	11.57	16.08	2,107	-	176
Residential	OS6	1	67+00	67+75	75	581	808	7.75	10.77	769	-	39
Residential	OS6	1	67+75	68+55	80	912	1,267	11.40	15.84	1,232	-	35
Residential	OS6	1	68+55	70+10	155	1,846	2,566	11.91	16.56	2,499	-	67
Residential	OS6	1	70+10	71+25	115	927	1,288	8.06	11.20	1,265	-	23
Residential/Commercial	OS6	1	71+25	71+68.89	44	429	596	9.75	13.55	587	-	9
Residential/Commercial	OS6	1	71+68.89	72+16.17	47	497	691	10.58	14.70	691	-	-
Residential/Commercial	OS6	1	72+16.17	73+00	84	748	1,040	8.91	12.38	1,040	-	-
Humpback Bridge/Residential/Commercial	OS6	1	73+00	74+61.02	161	1,565	2,175	9.72	13.51	2,175	-	-
Humpback Bridge/Residential/Commercial	OS6	1	74+61.02	76+00.05	139	1,343	1,867	9.66	13.43	1,867	-	-
Commercial/Park	OS6	1	76+00.05	77+50.10	150	1,057	1,469	7.05	9.79	1,389	-	80
Commercial/Park	OS6	1	77+50.10	79+12.56	163	968	1,345	5.94	8.25	1,196	-	149
Commercial/Park	OS6	1	79+12.56	80+50.19	137	475	660	3.47	4.82	607	-	53
Total OS-6 Seybold Canal					2,259	23,799	33,080	10.28	271	31,399	-	1,681
Grand Total					8,049	46,041	63,997	30	620	57,109	3,258	3,630

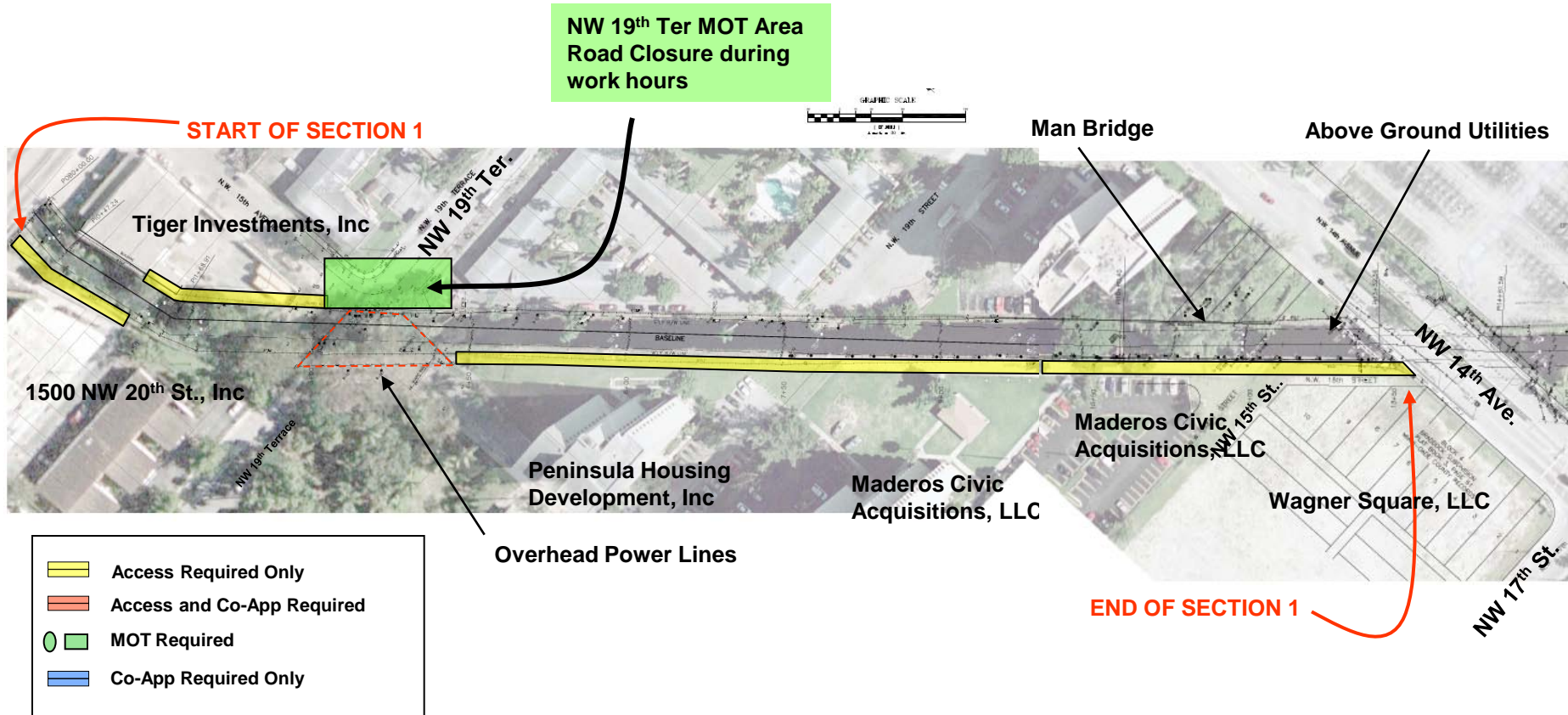
Volume 3, Section 8

Management of Traffic and Access Sketches

SECTION ACCESS DRAWINGS
CAP2, VOL 3, SECTION 8

Wagner Creek Sediment Removal

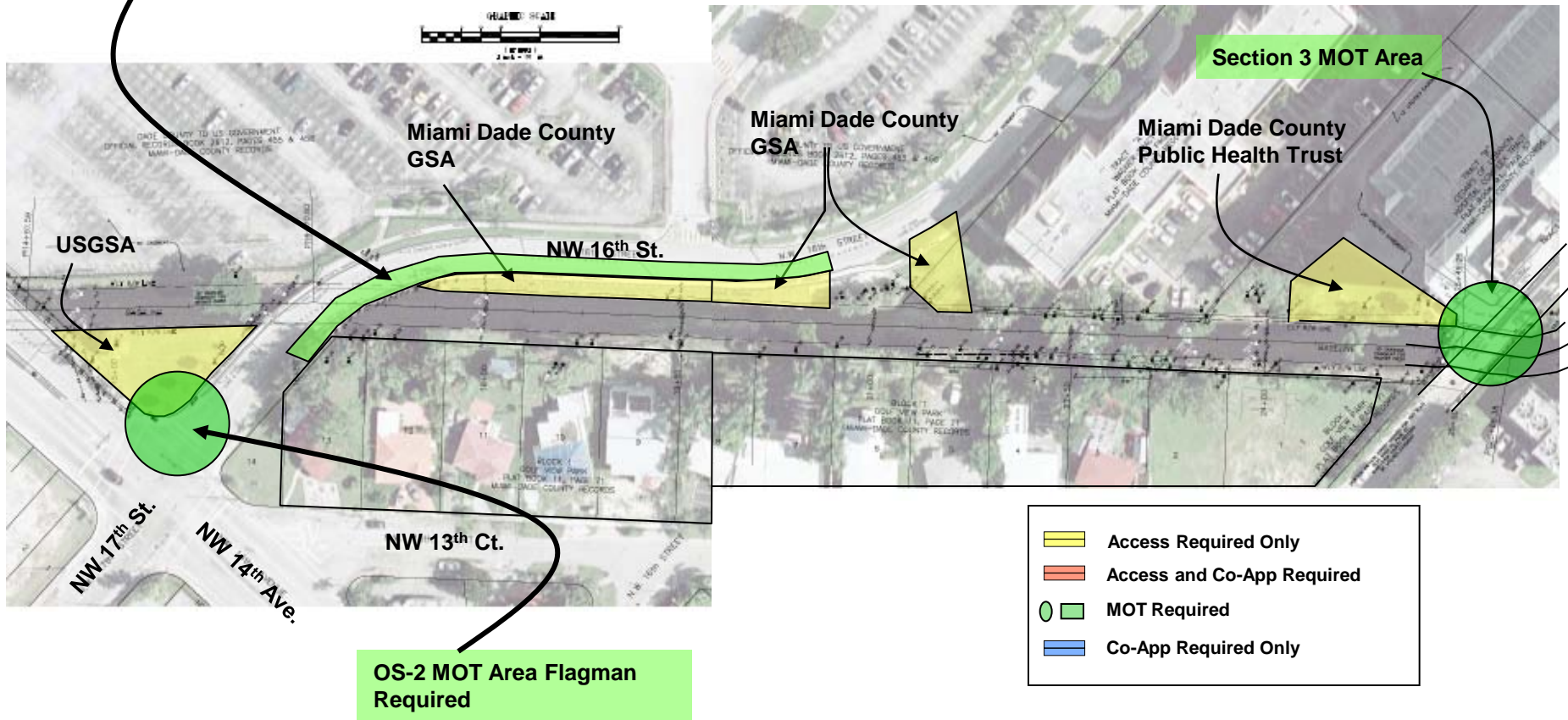
OS-1 Access Areas/Co-Applicants/MOT



Wagner Creek Sediment Removal

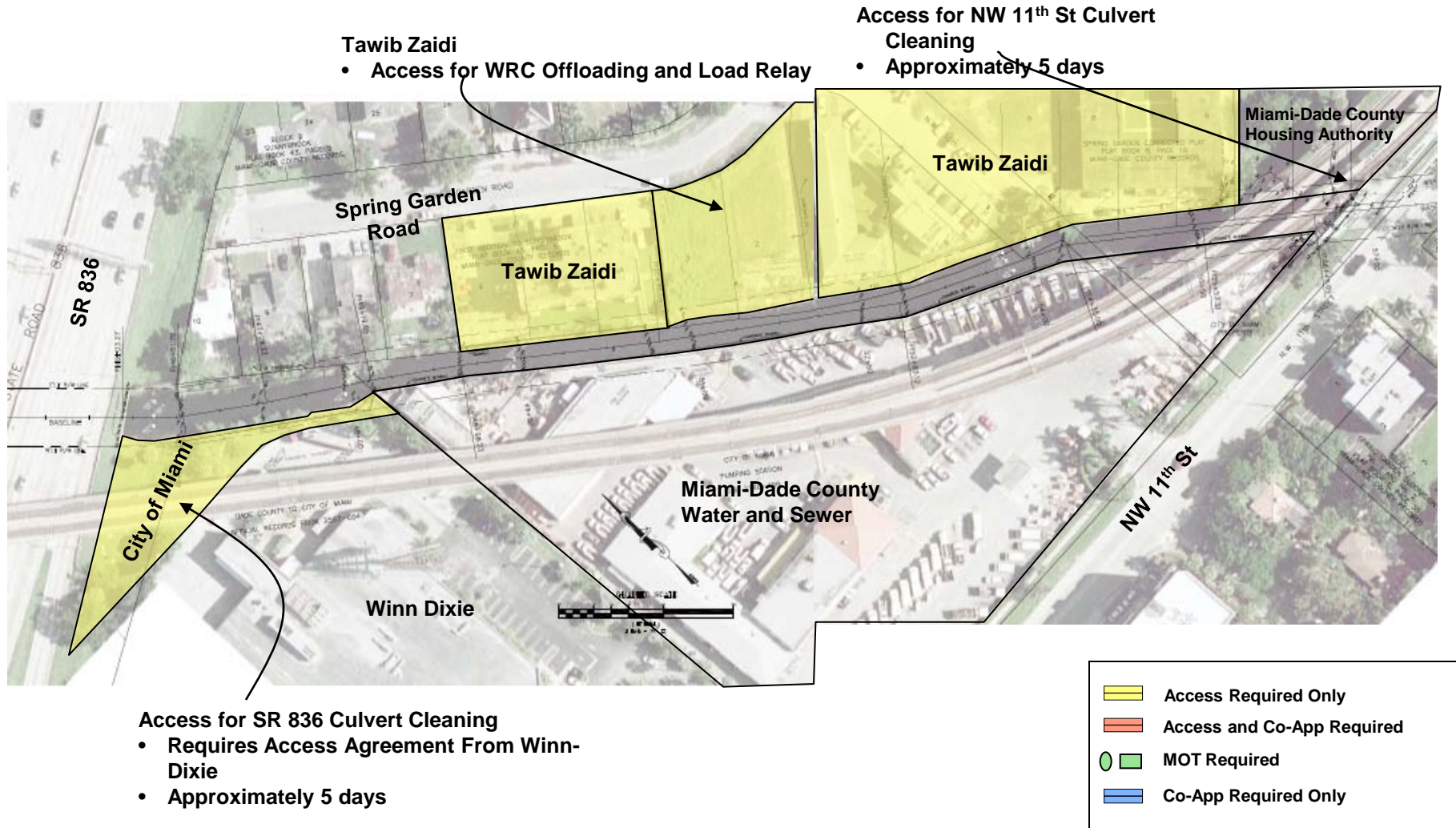
OS-2 Access Areas/Co-Applicants/MOT

OS-2 MOT Area Single lane closure during work hours



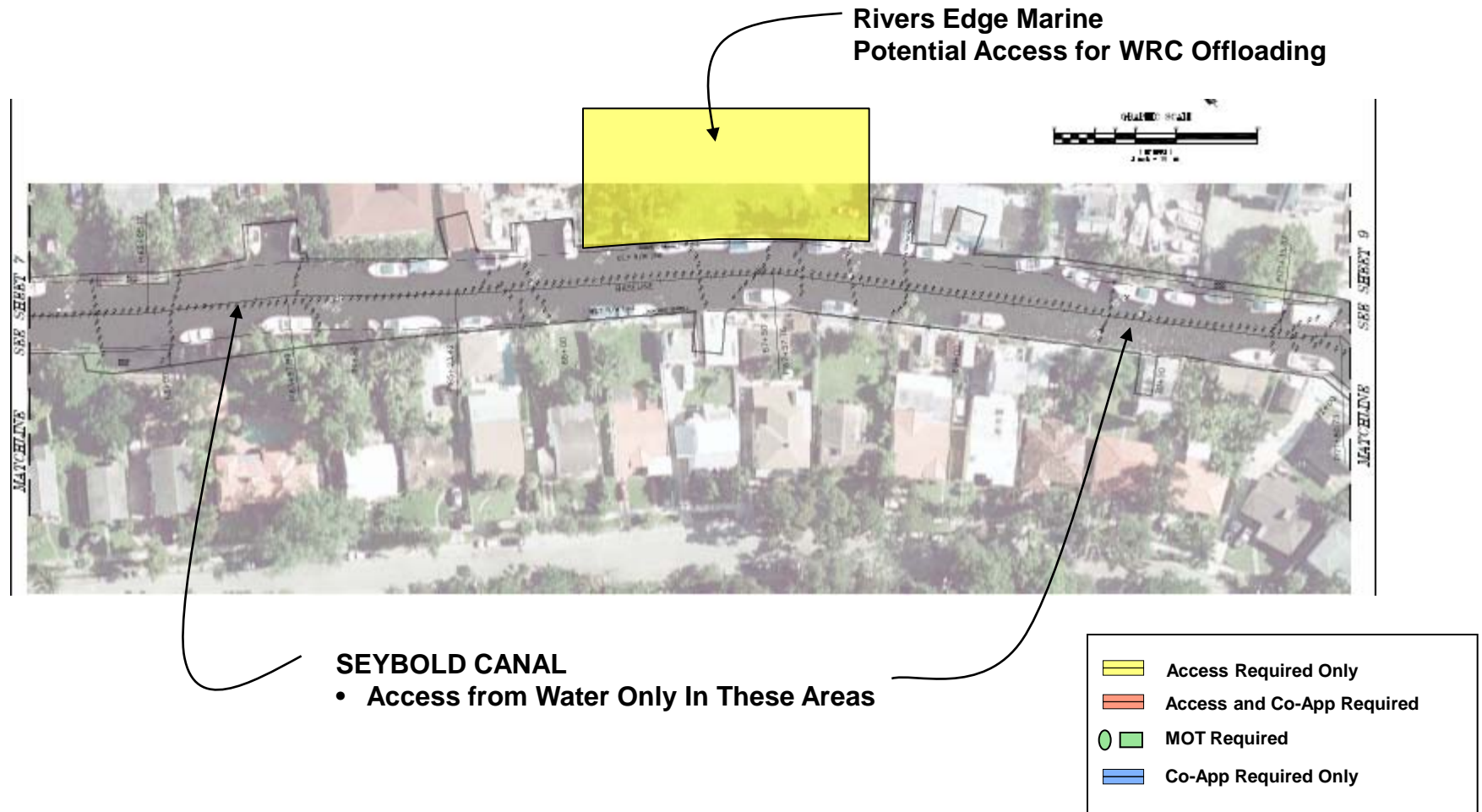
Wagner Creek Sediment Removal

Section 5 Access Areas/Co-Applicants/MOT



Wagner Creek Sediment Removal

Access Areas/Co-Applicants/MOT



Wagner Creek Sediment Removal

Access Areas/Co-Applicants/MOT

