



EXHIBIT A

CITY OF HALLANDALE BEACH

BID PACKAGE 3: SALT WATER MONITOR WELLS

CITY COMMISSION

JOY F. COOPER, Mayor

ALEXANDER LEWY, Vice Mayor

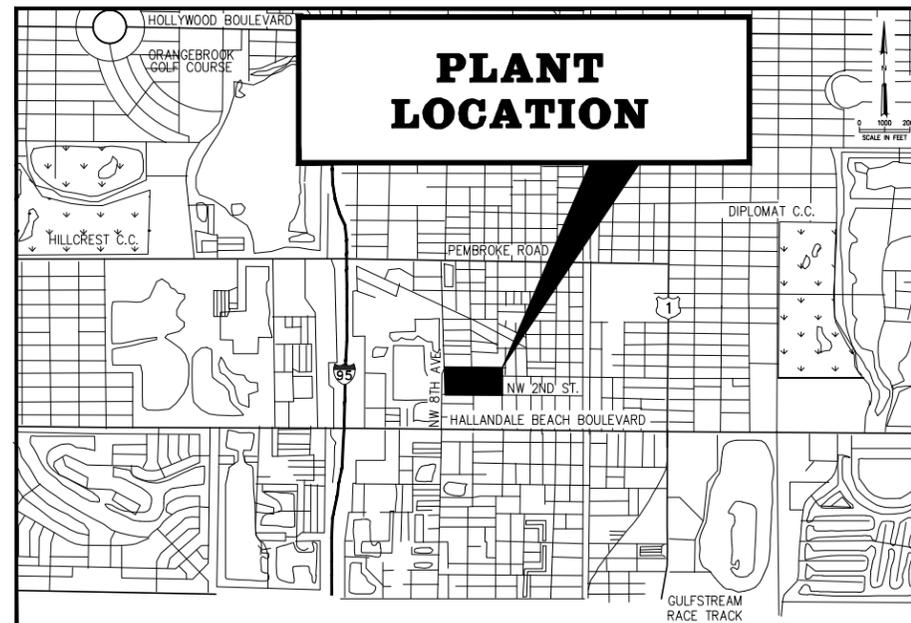
ANTHONY SANDERS, Commissioner

WILLIAM JULIAN, Commissioner

MICHELE LAZAROW, Commissioner

RENEE C. MILLER, City Manager

**STEVEN PARKINSON, P.E., Department of
Public Works**



LOCATION MAP

BID SET

HAZEN AND SAWYER

Environmental Engineers & Scientists

4000 Hollywood Boulevard, Suite 750N
Hollywood, Florida 33021

Certificate of Authorization Number: 2771

APRIL 2015

TITLE SHEET AND LOCATION MAP
SHEET 1 OF 6
DRAWING No. G-1

LIST OF DRAWINGS

Sheet Number	Sheet Title	Sheet Description
GENERAL		
1	G-1	COVER SHEET AND LOCATION MAP
2	G-2	LIST OF DRAWINGS AND WELL LOCATION PLAN
3	G-3	SWMW-1 LOCATION PLAN
4	G-4	SWMW-2 LOCATION PLAN
5	G-5	SWMW-3 LOCATION PLAN
CIVIL		
6	C-01	MONITOR WELL DETAILS

SALT WATER MONITOR WELL LOCATION PLAN



SALT WATER MONITOR WELLS

MARK	WELL NO.	LOCATION
①	SWMW-1	PETER BLUESTEN PARK
②	SWMW-2	INGALLS PARK
③	SWMW-3	SLUDGE HANDLING AREA NORTH OF CHAVES LAKE

GENERAL NOTES

- SALT WATER MONITOR WELL LOCATIONS SHOWN ARE APPROXIMATE. THE ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD WITH THE ENGINEER AND THE OWNER.
- THE PROPOSED SALT WATER MONITOR WELLS SHALL BE CONSTRUCTED ONE AT A TIME PER THE "PROPOSED WORK SEQUENCE" IN THE SPECIFICATIONS.

PLOT DATE: 4/28/2015 3:54 PM BY: HSCAUI

NO.	DATE	ISSUED FOR	BY

DESIGNED **GAB**
 DRAWN **GPB**
 CHECKED **AM**
 PROJ. ENGR. **GAB**

GEORGE A. BROWN P.E.
 No. 56076

HAZENAND SAWYER
 Environmental Engineers & Scientists
 4000 Hollywood Boulevard, Suite 750N
 Hollywood, Florida 33021
 Certificate of Authorization Number: 2771

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

CLIENTS PROJECT: -
 ENGINEERS PROJECT: 40612-030
 CAD REFERENCE: 40612-030BP3-G02

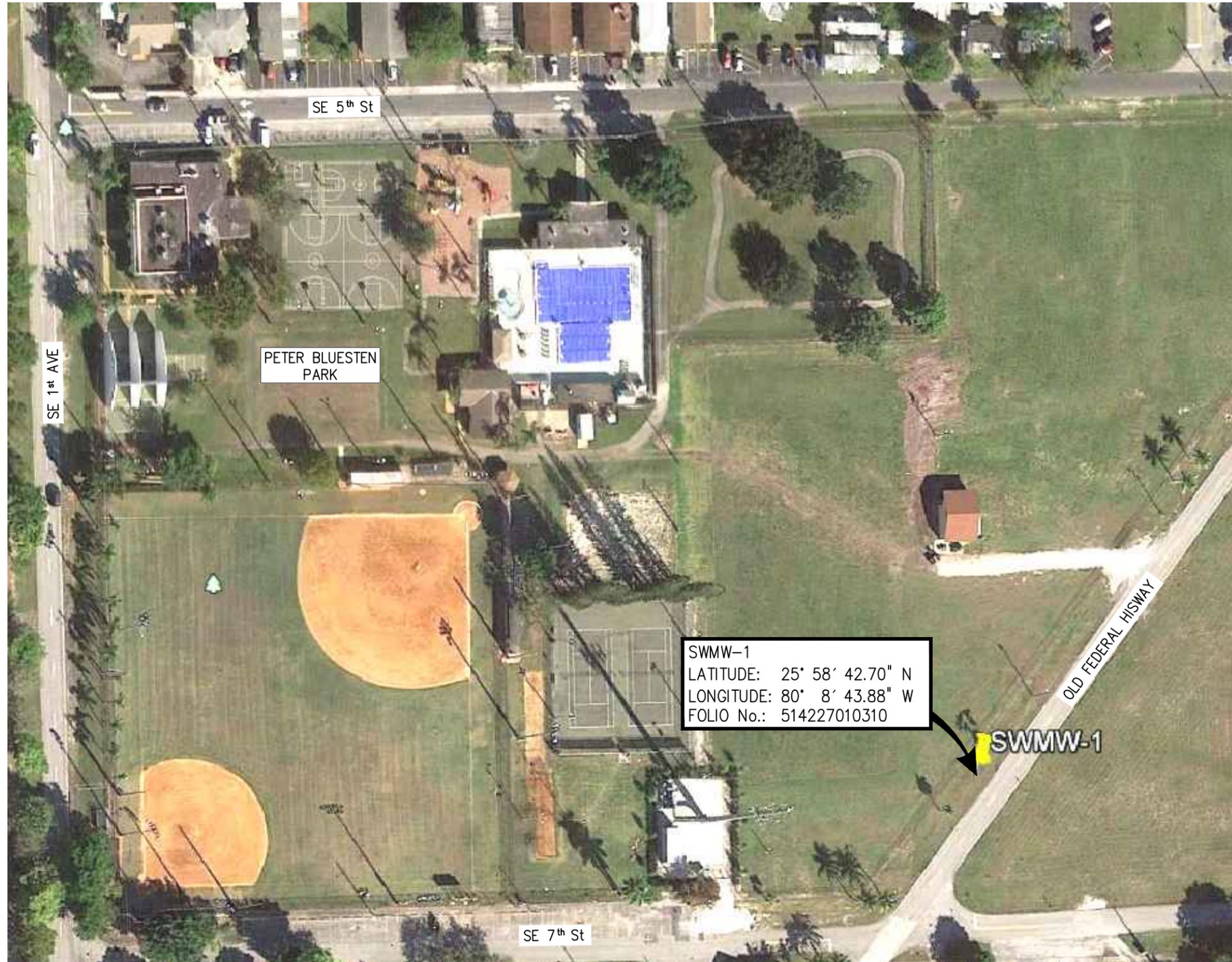
Hallandale Beach
 CITY OF HALLANDALE BEACH
 UTILITIES DEPARTMENT

CITY OF HALLANDALE BEACH UTILITIES DEPARTMENT
 BID PACKAGE 3: SALT WATER MONITOR WELLS

LIST OF DRAWINGS AND WELL LOCATION PLAN

DATE: **APRIL 2015**
 SHEET: **2** OF **6**
 DRAWING: **G-2**

BID SET



SWMW-1
 LATITUDE: 25° 58' 42.70" N
 LONGITUDE: 80° 8' 43.88" W
 FOLIO No.: 514227010310

SWMW-1

PLOT DATE: 4/28/2015 3:51 PM BY: HSCAUI

DESIGNED	GAB		
DRAWN	GPB		
CHECKED	AM		
PROJ. ENGR.	GAB		
NO.	DATE	ISSUED FOR	BY

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 P.E.

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THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

CLIENTS PROJECT: -
 ENGINEERS PROJECT: 40612-030
 CAD REFERENCE: 40612-030BP3-G03

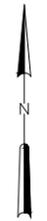
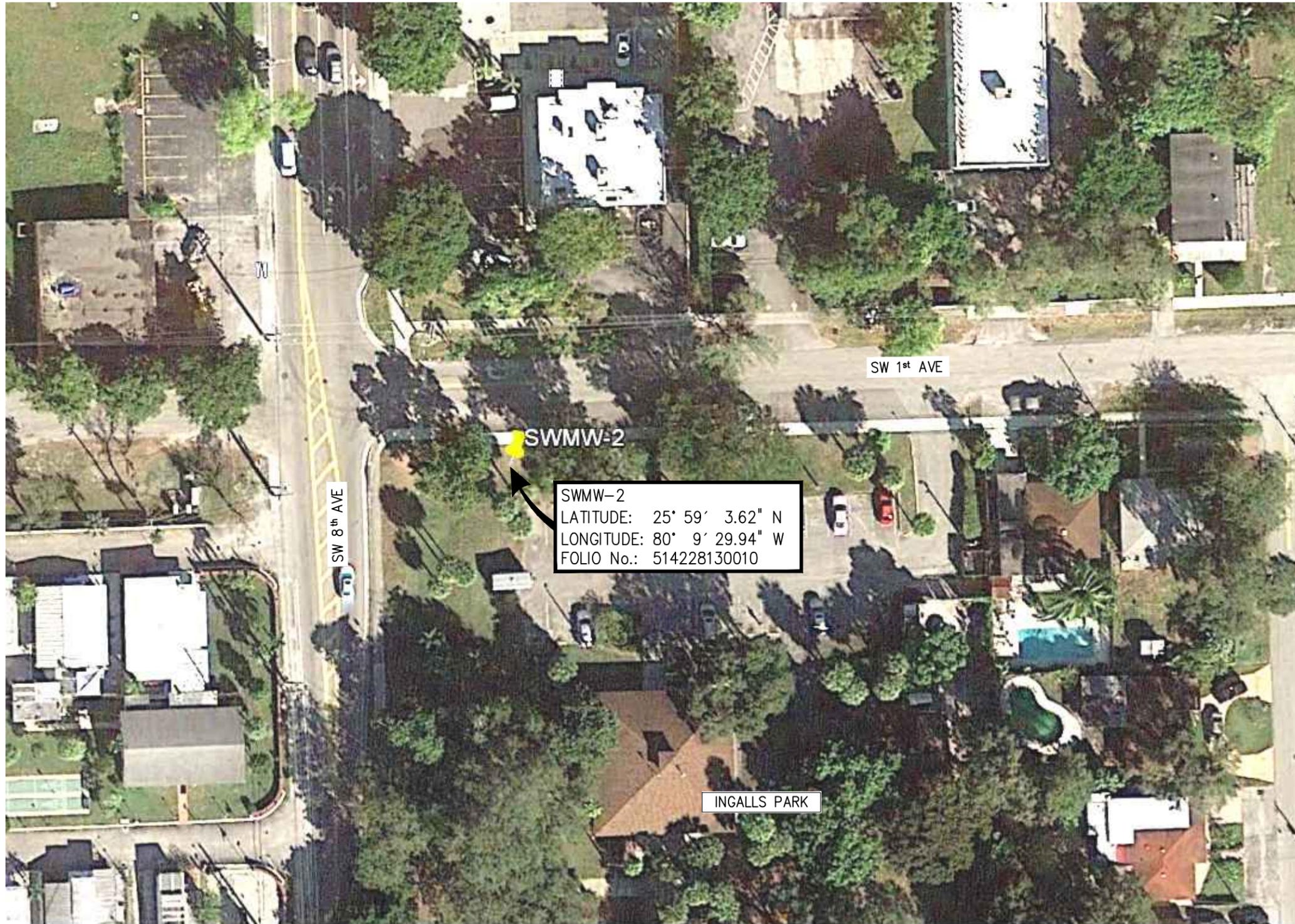


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 BID PACKAGE 3: SALT WATER MONITOR WELLS
SWMW-1 LOCATION PLAN

DATE: **APRIL 2015**
 SHEET: **3** OF **6**
 DRAWING: **G-3**

BID SET



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CHECKED	AM
PROJ. ENGR.	GAB

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CLIENTS PROJECT: -
 ENGINEERS PROJECT: 40612-030
 CAD REFERENCE: 40612-030BP3-G04


CITY OF HALLANDALE BEACH
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CITY OF HALLANDALE BEACH UTILITIES DEPARTMENT
 BID PACKAGE 3: SALT WATER MONITOR WELLS
SWMW-2 LOCATION PLAN

DATE: **APRIL 2015**
 SHEET: **4** OF **6**
 DRAWING: **G-4**

BID SET



APPROXIMATE LOCATION OF PROPERTY LINE

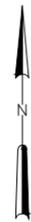
SWMW-3
 LATITUDE: 25° 59' 32.85" N
 LONGITUDE: 80° 9' 37.90" W
 FOLIO No.: 514221010180

SLUDGE HANDLING AREA

CHAVES LAKE

NW 7th ST

ML KING JR AV NW 8 AV



PLOT DATE: 4/28/2015 3:51 PM BY: HSCAUI

DESIGNED	GAB		
DRAWN	TB		
CHECKED	AM		
PROJ. ENGR.	GAB		
NO.	DATE	ISSUED FOR	BY

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 DRAWN TB
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THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

CLIENTS PROJECT: -
 ENGINEERS PROJECT: 40612-030
 CAD REFERENCE: 40612-030BP3-G05

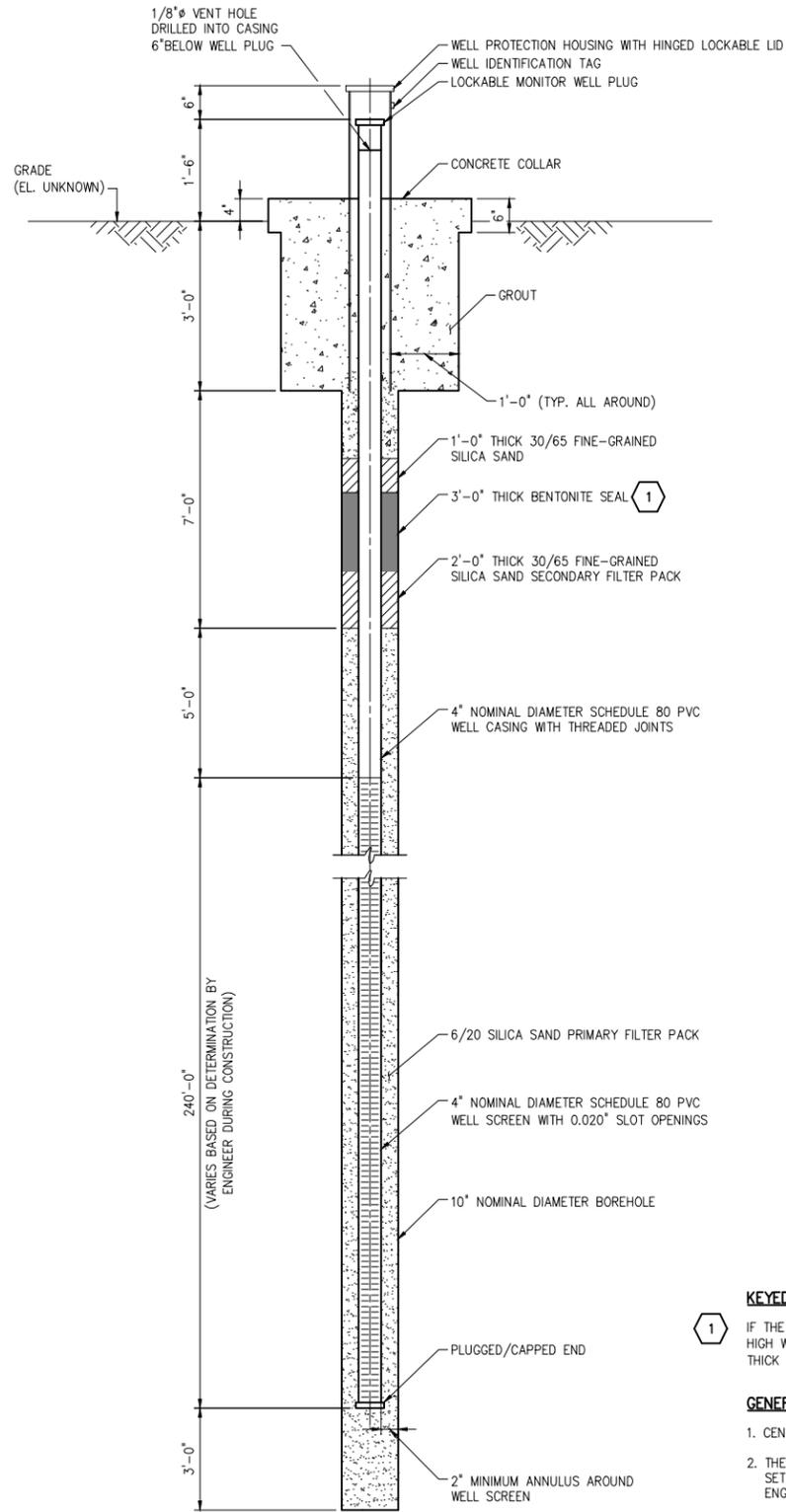
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SWMW-3 LOCATION PLAN

DATE: **APRIL 2015**
 SHEET: **5** OF **6**
 DRAWING: **G-5**

BID SET



MONITOR WELL SECTION VIEW

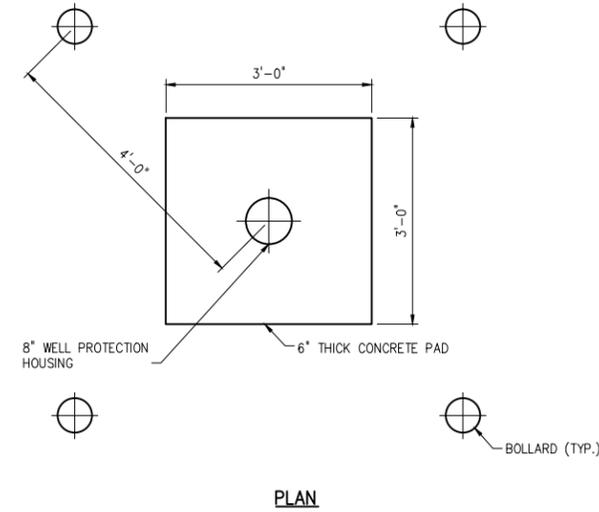
NTS

KEYED NOTES

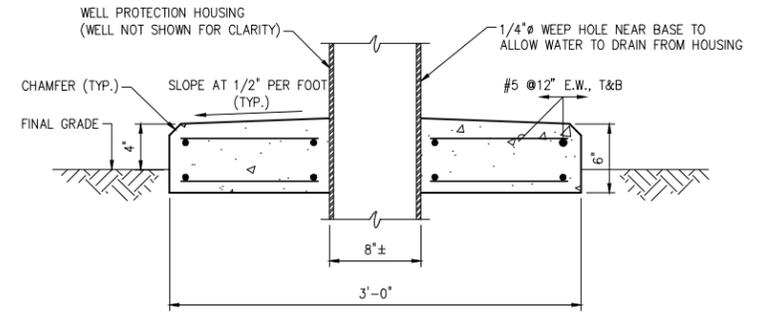
1 IF THE PROPOSED BENTONITE SEAL IS ABOVE THE HIGH WATER LEVEL THEN REPLACE IT WITH A 2'-0" THICK LAYER OF 30/65 FINE-GRAINED SAND.

GENERAL NOTES

- CENTRALIZERS NOT SHOWN FOR CLARITY.
- THE CONTRACTOR SHALL COORDINATE THE FINAL SETTING DEPTH OF THE MONITOR WELL WITH THE ENGINEER DURING CONSTRUCTION.
- THE CONTRACTOR SHALL DETERMINE THE SEASONAL HIGH WELL LEVEL AND INFORM THE ENGINEER IN WRITING.



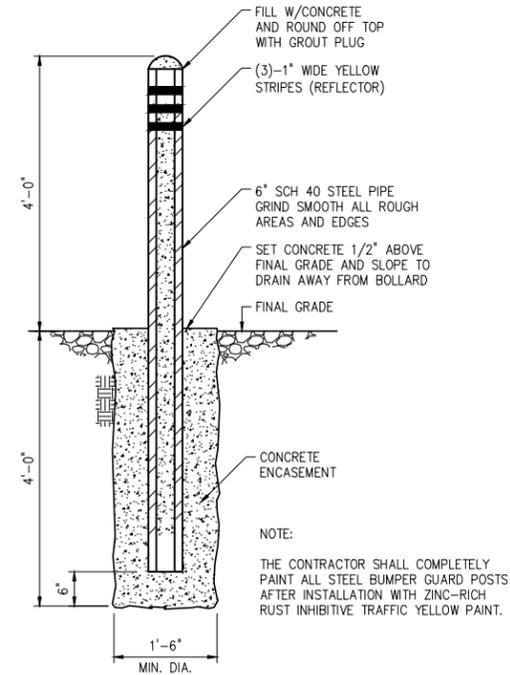
PLAN



SECTION

CONCRETE COLLAR DETAIL

NTS



DETAIL 1
3/4" = 1'-0" C-01

PLOT DATE: 4/28/2015 5:54 PM BY: HSCALI

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CLIENTS PROJECT: -
ENGINEERS PROJECT: 40612-030
CAD REFERENCE: 40612-030BP3-C01

Hallandale Beach
CITY OF HALLANDALE BEACH
UTILITIES DEPARTMENT

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BID PACKAGE 3: SALT WATER MONITOR WELLS

MONITOR WELL DETAILS

DATE: APRIL 2015
SHEET: 6 OF 6
DRAWING: C-01

BID SET